Classification of Types Inferred in DDP Experiment

S. Alexander Spoon and Olin Shivers

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1 Overview

This document gives the classification of each type inferred during the **DDP** experiment reported to ECOOP 2004.
During the classification, some types are assumed to be either good no matter what variable they are inferred for. Likewise, some types are assumed bad regardless of the variable. The next two sections of this paper give each list of such types, along with the number of times the type was inferred during the experiment.
The last section gives an exhaustive listing of every variable type inferred under each pruning threshold, along with whether it was categorized as good or bad.
The types are printed out as follows:

- Top - the top type
- Bottom - the bottom type
- UndefinedObject - a class type for the class "UndefinedObject".
- Morph++ - a class cone type for class "Morph", that is, the union of Morph plus all of its subclasses
- #foo - a selector type for the selector #foo
- a BlockType - a block type. The block is not listed in this listing, though it was inspected by the experimenters before categorizing. This loss of information in the report is justifiable because block types are unusual.
- { True UndefinedObject False } - a union of three simple types: the class types for True, UndefinedObject, and False

2 Good Types with Counts

- 427 count(s) of { UndefinedObject Array }
- 415 count(s) of UndefinedObject
- 311 count(s) of { True UndefinedObject False }
- 202 count(s) of { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- 134 count(s) of { UndefinedObject OrderedCollection }
- 130 count(s) of { UndefinedObject SmallInteger }
- 100 count(s) of { UndefinedObject Float }
- 76 count(s) of { UndefinedObject Dictionary }
- 60 count(s) of { CArrayAccessor UndefinedObject }
- 54 count(s) of { UndefinedObject SoundBuffer }
- 50 count(s) of { LedMorph UndefinedObject }
- 48 count(s) of { String UndefinedObject }
- 41 count(s) of { IRCConnection UndefinedObject }
- 33 count(s) of { Array UndefinedObject OrderedCollection }
- 32 count(s) of { ArrayedCollection++ UndefinedObject }
- 31 count(s) of { False UndefinedObject }
- 30 count(s) of { UndefinedObject Bitmap }
- 30 count(s) of { UndefinedObject WriteStream }
- 30 count(s) of { Form UndefinedObject }
- 30 count(s) of { IdentitySet UndefinedObject }
- 24 count(s) of { UndefinedObject String Character }
- 20 count(s) of { Array UndefinedObject SoundBuffer }
- 20 count(s) of { Random UndefinedObject }
- 20 count(s) of { AlignmentMorph UndefinedObject }
- 20 count(s) of { UndefinedObject TetrisBoard }
- 20 count(s) of { PluggableTextView UndefinedObject }

- 18 count(s) of { CrLfFileStream UndefinedObject }
- 18 count(s) of { SampledSound SequentialSound UndefinedObject ChatRecorder SoundInputStream SoundRecorder }
- 18 count(s) of { WordGameLetterMorph UndefinedObject }
- 16 count(s) of { Array UndefinedObject FloatArray }
- 15 count(s) of { Text UndefinedObject }
- 10 count(s) of { AlignmentMorphBob1 UndefinedObject SystemWindow }
- 10 count(s) of { UndefinedObject #stagger #pile #grid }
- 10 count(s) of { UndefinedObject GradientFillStyle }
- 10 count(s) of { GSMCodec UndefinedObject }
- 10 count(s) of { UndefinedObject #inOrder #any }
- 10 count(s) of { Semaphore UndefinedObject }
- 10 count(s) of { PlayingCardDeck UndefinedObject }
- 10 count(s) of { UndefinedObject SortedCollection }
- 10 count(s) of { UndefinedObject True }
- 10 count(s) of { Socket UndefinedObject }
- 10 count(s) of { CrosticQuotePanel UndefinedObject }
- 10 count(s) of { StringMorph UndefinedObject }
- 10 count(s) of { UndefinedObject StandardFileStream }
- 10 count(s) of { PluggableDictionary UndefinedObject }
- 10 count(s) of { UndefinedObject Tetris }
- 10 count(s) of { UndefinedObject #pitch: #modulation: #ratio: }
- 10 count(s) of { UndefinedObject LedTimerMorph }
- 10 count(s) of { TetrisBlock UndefinedObject }
- 10 count(s) of { UndefinedObject InterpreterSimulator InterpreterSimulatorMSB InterpreterSimulatorLSB }
- 10 count(s) of { StandardSystemView UndefinedObject }
- 10 count(s) of { UndefinedObject #wins #losses }

- 10 count(s) of { FreeCellBoard UndefinedObject }
- 10 count(s) of { UndefinedObject #nthWeekdayOfMonthEachYear #dayOfWeek #dayOfMonth #dateOfYear }
- 10 count(s) of { UndefinedObject POPSocket }
- 10 count(s) of { PlayingCardDeck UndefinedObject #doubleClickInStack:OnCard: }
- 10 count(s) of { FWT UndefinedObject }
- 10 count(s) of { PlayingCardDeck UndefinedObject #cardMoved #cardMovedHome }
- 10 count(s) of { UndefinedObject IRCChannelInfo }
- 10 count(s) of { UndefinedObject FloatArray }
- 10 count(s) of { CrosticPanel UndefinedObject }
- 10 count(s) of { UndefinedObject #updateColorM #updateColorV }
- 10 count(s) of { False UndefinedObject BitBltSimulator }
- 10 count(s) of { UndefinedObject #sameGame #pickGame #won #newGame #lost }
- 10 count(s) of { UndefinedObject #descending #ascending }
- 10 count(s) of { Interpreter UndefinedObject InterpreterSimulatorMSB InterpreterSimulatorLSB Bitmap InterpreterSimulator }
- 10 count(s) of { UndefinedObject PolygonMorph }
- 10 count(s) of { Set UndefinedObject }
- 10 count(s) of { UndefinedObject SameGameBoard }
- 10 count(s) of { PlayingCardDeck UndefinedObject #acceptCard:onStack: #acceptSingleCard:on: }
- 10 count(s) of { RBScanner UndefinedObject }
- 10 count(s) of { TextMorph UndefinedObject }
- 10 count(s) of { PlayingCardDeck UndefinedObject #dragCard:fromHome: #dragCard:fromStack: }
- 10 count(s) of { ChineseCheckers UndefinedObject }
- 10 count(s) of { UndefinedObject #stagger #straight #altStraight #single }

- 10 count(s) of { UndefinedObject #underlined #boxed #plain }
- 10 count(s) of { UndefinedObject #name }
- 9 count(s) of { UndefinedObject MIMEDocument }
- 9 count(s) of { Bitmap LargeNegativeInteger LargePositiveInteger UndefinedObject SmallInteger }
- 7 count(s) of { Boolean++ UndefinedObject #hierarchy #editClass #editComment #none #editMessageCategories #newClass #editMessage #newMessage #editSystemCategories #byteCodes }
- 7 count(s) of { UndefinedObject Rectangle }
- 6 count(s) of { UndefinedObject Compiler }
- 6 count(s) of { UndefinedObject Symbol String Character }
- 5 count(s) of { RBShortAssignmentToken RBOptimizedToken UndefinedObject RBToken RBPatternBlockToken RBScanner RBLiteralToken RBAssignmentToken RBKeywordToken RBBinarySelectorToken RBIdentifierToken RBSpecialCharacterToken }
- 5 count(s) of { SmallInteger LargeNegativeInteger LargePositiveInteger UndefinedObject Array }
- 4 count(s) of { Array UndefinedObject SortedCollection }
- 3 count(s) of { UndefinedObject Symbol }
- 3 count(s) of { CompiledMethod WordArrayForSegment KlattFrame OSAID FloatArray PointArray B3DRotationArray ComponentInstance TranslatedMethod Array2D ShortRunArray ShortPointArray ShortIntegerArray B3DVector2 B3DMatrix4x4 Pixmap Array B3DViewingFrustum ExternalAddress B3DIndexedTriangleArray WeakArray B3DInplaceArray B3DVector3 B3DColor4 B3DPrimitiveLight RunArray Symbol MacExternalData FlippyArray2 CompiledApplescript ByteArray AEDesc UndefinedObject IntegerArray B3DTexture2Array B3DRotation SoundBuffer String B3DFloatArray B3DColor4Array Text B3DMaterialColor ApplescriptInstance WordArray DescType B3DPrimitiveVertexArray B3DExponentTable B3DLightAttenuation B3DVector2Array ArrayedCollection B3DVector3Array DirectoryEntry B3DMaterial B3DIndexedQuadArray Bitmap B3DVector4 }
- 3 count(s) of { RBIdentifierToken UndefinedObject }
- 3 count(s) of { CustomMenu UndefinedObject }
- 3 count(s) of { SmallInteger UndefinedObject Float }

- 2 count(s) of { Boolean++ RBShortAssignmentToken RBOptimizedToken UndefinedObject RBToken RBPatternBlockToken RBScanner RBLiteralToken RBAssignmentToken RBKeywordToken RBBinarySelectorToken RBIdentifierToken RBSpecialCharacterToken }
- 2 count(s) of { Integer++ ScrollingToolHolder UndefinedObject B3DRotation B3DVector3 }
- 1 count(s) of { UndefinedObject a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType }
- 1 count(s) of { Integer LargeNegativeInteger LargePositiveInteger UndefinedObject SmallInteger }
- 1 count(s) of { UndefinedObject a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType }
- 1 count(s) of { SmalltalkInterchangeFileInManager++ SmallInteger UndefinedObject False #forever }
- 1 count(s) of { RBMessageNode++ RBBlockNode++ RBMethodNode++ RBSequenceNode ZipEncoderNode RBOptimizedNode RBAssignmentNode RBCascadeNode UndefinedObject RBArrayNode RBReturnNode }
- 1 count(s) of { Boolean LargeNegativeInteger UndefinedObject SmallInteger Integer class LargePositiveInteger }
- 1 count(s) of { UndefinedObject a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType }
- 1 count(s) of { UndefinedObject a BlockType }
- 1 count(s) of { UndefinedObject a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType }

- 1 count(s) of { UndefinedObject a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType }
- 1 count(s) of { UndefinedObject a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType }
- 1 count(s) of { UndefinedObject Array OrderedCollection SortedCollection }
- 1 count(s) of { UndefinedObject a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType }
- 1 count(s) of { UndefinedObject a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType }
- 1 count(s) of { UndefinedObject ReadStream CrLfFileStream }

3 Bad Types with Counts

- 4587 count(s) of Top
- 18 count(s) of { Magnitude++ UndefinedObject }
- 13 count(s) of { SequenceableCollection++ Integer++ UndefinedObject B3DIndexedQuad B3DPrimitiveRasterizerData B3DIndexedTriangle }
- 10 count(s) of { PluggableTextMorph++ StringHolderView++ UndefinedObject }
- 9 count(s) of { WaveletCodec MuLawCodec ADPCMCodec SoundCodec UndefinedObject LoopedSampledSound GSMCodec SampledSound }
- 8 count(s) of { PluggableTextMorph++ PluggableListMorph++ PluggableListView++ SimpleHierarchicalListMorph++ PluggableTextView UndefinedObject }
- 7 count(s) of { B3DTexture2Array B3DPrimitiveRasterizerData Integer PointArray CompiledApplescript ByteArray ArrayedCollection SoundBuffer ExternalAddress ShortIntegerArray KlattFrame B3DMaterialColor GraphicSymbol B3DVector3 FlippyArray2 WeakArray Pixmap WordArray B3DVector2Array B3DIndexedQuad

B3DVector3Array DescType B3DPrimitiveVertexArray B3DRotation B3DIndexedTriangleArray WordArrayForSegment B3DIndexedQuadArray String B3DPrimitiveLight LargePositiveInteger ComponentInstance StandardSourceFileArray B3DIndexedTriangle FloatArray B3DColor4 OnceOnlyOrderedCollection TranslatedMethod DirectoryEntry Array2D B3DFloatArray AEDesc RunArray Symbol B3DInplaceArray Text Array B3DMaterial B3DRotationArray ApplescriptInstance MappedCollection B3DColor4Array Interval Heap UrlArgumentList SourceFileArray B3DLightAttenuation ShortPointArray B3DVector4 B3DVector2 SequenceableCollection MacExternalData OrderedCollection B3DExponentTable B3DViewingFrustum IntegerArray ShortRunArray SortedCollection Bitmap LinkedList B3DMatrix4x4 Semaphore TextLineInterval LargeNegativeInteger CompiledMethod OSAID UndefinedObject SmallInteger }

- 3 count(s) of { PluggableTextMorph++ FormMenuController PluggableButtonController Controller ProjectController UndefinedObject FormEditor PluggableListControllerOfMany PluggableTextView PluggableListController FillInTheBlankController StandardSystemController ListController MorphWorldController NoController BitEditor ParagraphEditor ScreenController ReadOnlyTextController ModalController StringHolderController DeferredActionStandardSystemController PluggableTextController }
- 1 count(s) of { ContextPart class++ EPSCanvas ChangeSorter FlashBoundaryShape FormHolderView B3DColor4 NebraskaNavigationMorph TTSampleStringMorph Arc GIFReadWriter IRCChannelObserver ParameterTypeGoal FillInTheBlankView UnixFileDirectory CautiousModel HtmlInput LucidVariableExpression BasicButton UnionType FillStyle AbstractVariablesRefactoring MorphicTransform AddClassRefactoring NullEncoder MorphWorldView TempoEvent B3DLightAttenuation RemoveInstanceVariableChange InlineMethodRefactoring LineSegment RBLiteralNode TelnetMachine RBSpecialCharacterToken BooklikeMorph EToyCommunicatorMorph VRMLClassNode LucidMessage Matrix2x3Plugin MacFileDirectory RemoteFileStream ReadOnlyTextController LucidRegularClassCode WonderlandActor2 AbstractHierarchicalList Set MidiPrimTester PWS LucidLocalSymbolTable LucidVariable ScriptingDomain SmallIntegerArithmeticPrimitive B3DPrimitiveEdge SubclassOfClassToRename TransferMorph B3DFillList PlayerReferenceReadout HtmlOrderedList CodeServer FlashSpriteMorph UndoColorChange FontCache POEdgeList Bezier3Segment FooPlugin2 SimpleNeverFailingPrimitive ParagraphEditor HtmlNoEmbed LedTimerMorph B3DHardwareEngine SequentialSound SketchEditorMorph UnscriptedPlayer ShortRunArray WeakArray RecentMessageSet B3DDisplayScreen WonderlandWrapperMorph

RemoveMethodRefactoring VariableEnvironmentTest SlotInformation
B3DMatrix4x4 ProgressMorph RBAssignmentToken TabbedPalette
MVCWiWPasteUpMorph VoiceEvent NebraskaServerMorph
VeryPickyMorph RBAssignmentNode EToyChatOrBadgeMorph
PluggableCodeGenerator GeePrinterPage CollapsedMorph Metaclass
LucidClassCode Morph AbstractClassVariableRefactoring
CanvasCharacterScanner KeyboardEvent FlashThumbnailMorph Viewer
FlashColorTransform WeakValueDictionary FreeTranslation
LucidRespondersGoal LTLiteral TabSorterMorph TextContainer
StringMorph StringSocket StandardViewer AddPoolVariableChange
B3DSimulRasterizer ClassCategoryReader PrettyTextDiffBuilder
MixedSound RBToken FormView ExternalType B3DVector2
B3DPrimitiveTransformer CObjectAccessor LucidInverseTypeGoal
SampledInstrument PullUpInstanceVariableRefactoring B3DViewport
ColorPatchCanvas B3DTexture ChatPage ScorePlayer B3DPickerEngine
GesturalEvent PostscriptCanvas FuddyDudd Array2D LTSelf
TalkGesturalEvent FileStream AttributedTextStream Hierarchical
MoveVariableDefinitionTest AliceCamera FancyCelesteComposition
WonderlandEditorTabs ByteEncoder HtmlForm
CreateAccessorsForVariableRefactoring FlattenEncoder
ExternalFunction Pen VRMLCompositeNode LTComment
RadioButtonSetInput B3DVector3Array UndoParentChange
BlockSimulation ProjectView B3DEnginePart LucidLiteralExpression
MatrixTransformMorph MIDIPianoKeyboardMorph
RemoteControlledHandMorph B3DSceneMorph LargePositiveInteger
ChangeList VRMLProtoNode EToyMorphsWelcomeMorph
MorphicAlarm AddClassChange HTMLformatter StringHolderView
ComponentInstance MultiResolutionCanvas CodecDemoMorph
ListItemWrapper FormEditor HtmlBoldEntity B3DSimpleMeshVertex
WonderlandUndoStack CrosticPanel WordGameLetterMorph
Win32Point POTriangle LucidExpression PluggableListView TextDoIt
B3DInplaceArray MimeConverter IllegalResumeAttempt GesturalVoice
TextLink DropDownChoiceMorph TemporaryToInstanceVariableTest
PrimitiveTestCase RBNamespace ControlManager InterpreterProxy
LiteralDictionary LimitingLineStreamWrapper TempVariableNode
FFITester DamageRecorder ZipWriteStream InlineMethodTest
RBFormatter FreeCellStatistics ArrayedCollection LucidSuperExpression
HtmlStyle ScriptableButton MethodMorph FormMenuController
RBVariableNode PhonemeSet MailInboxFile StoreEncoder
SymbolTablePool HtmlAnchor PositionableStream IntegerPokerPlugin
ThumbnailMorph MethodSimulation PluggableListMorph
AuthorizedWriteSwiki BorderedMorph WriteStream AsyncFile
EmphasizedMenu HtmlArea ColorSeerTile RefactoryVariableChange
InflateStream ZLibWriteStream B3DVertexClipper Workspace
ParseTreeLintRule IdentityDictionary KeyWordNode AliceNamespace
B3DPrimitiveClipper RBPatternVariableNode Debugger Component1

MorphExtension AddInstanceVariableTest OSAID PluggableTextView Association ClassBuilder FillInTheBlank ReceiverAndSelector Decompiler EtoyUpdatingThreePhaseButtonMorph AddParameterTest SmalllintChecker SameGameTile SoundEventMorph AliceActor MIMEDocument HtmlFontEntity B3DFloatArray TTCompositeGlyph TextPlusJumpEnd TextFontReference UndoPositionChange RBParser HtmlParser EmbeddedServerAction GeeMailMorph B3DHardwareRasterizer HtmlBiggerFontEntity B3DMultiMesh MatrixTransform2x3 TransformationRule PinMorph MethodDictionary SmalltalkEnvironment WonderlandMesh AlansTextPlusMorph POObject UserInputEvent TGoToNode RenameInstanceVariableRefactoring ColorForm LucidSelfExpression MenuLineMorph EnvelopeEditorMorph SoundPlugin RemoveClassRefactoring ClippingCanvas RBClassTest MorphicEventEncoder Phoneme ObjectViewer CosineInterpolator MultiuserTinyPaint B3DMaterial StrikeFont LucidKeywordMessage PluggableMessageCategoryListMorph B3DRotationArray InstantiationPrimitive LucidBlockReturnFlowGoal TextOnCurve ColorMap ZoomAndScrollControllerMorph MessageSet LucidBinaryMessage Time B3DCamera PluggableDictionary StandardFileStream ActiveSwikiAction MorphicModel ServerAction EyeMorph BackgroundMorph MouseOverMorph MorphicEvent FlashShapeMorph EventRecorderMorph LargeIntegersPlugin TextStream SelfOfMethodFlowPosition WonderlandActorViewer ExternalScreen LimitedWriteStream AliceScheduler TTFontTableDirEntry SimpleHierarchicalListMorph StandardSystemView PushDownClassVariableTest RBBlockReplaceRule DummyStream FilePluginSimulator Week FlashFileReader SelectorEnvironmentBrowser SocketPlugin LTCloseBracket ImageSegmentRootStub LTOpenBracket PianoKeyboardMorph Flipper ClassConeType SmallIntegerComparisonPrimitive ExtractMethodRefactoring RecordingControlsMorph CompositeTransform TranslucentColor PlayWithMe1 RBParseTreeRule AlwaysFailingPrimitive AcornFileDirectory RBKeywordToken DescType SurfacePlugin MessageAsTempNode RemoveClassVariableTest LiteralSimulation FunctionComponent SinglePlugServerAction LintRule LucidCompiler SoundInputStream IndexTabs FTPSocket ZipEncoder Preferences ObjectRepresentativeMorph Speaker AliceScript Notification ConstantPoolTest RenameMethodTest AAATIREADME StringReadoutTile IRCChannelUsersBrowser LucidClassVarSymbolTable AddParameterRefactoring EUBlock ParallelAnimation PDA SmartRefStream CurveMorph MouseActionIndicatorMorph AliceUndoAnimation SwikiPage SampledSound InterpreterPlugin Win32HGDIObj MoveVariableDefinitionRefactoring WonderlandActor12 Circle HtmlStrikeEntity MorphThumbnail HierarchicalUrl FlashTextMorph B3DSceneObject ChineseCheckers

CreateAccessorsForVariableTest TTFontReader HtmlTableRow HtmlUnderlineEntity CArrayAccessor TableLayoutProperties FMSound DoCommandOnceMorph B3DAmbientLight IconicButton WiWPasteUpMorph RBNamespaceTest IntegerArray LTThisContext SorterTokenMorph ProgressNotification SoundReadoutTile PoolVariableFlowPosition ParsedCodePoolTestCase Model FilePackage InstanceVariableTypeSlot RefactoringBrowserTest HtmlBlockQuote RandomEnvelope LintDialog SerialPlugin DECTalkReader HtmlTableDataItem HtmlParagraph SwikiAction ExtractToTemporaryTest PhonemeRecord HtmlBreak SoundCodecPlugin LucidFlowGoal AutoStart RBMessageNode PlayWithMe3 MethodNode TextPlusJumpStart LTColonWord StackMorph CachingMorph RenameInstanceVariableChange BalloonRectangleMorph WonderlandStyle WonderlandActor7 FtpUrl Month Symbol RunArray Button HtmlUnorderedList Canvas WonderlandActor10 TransferMorphLineAnimation ThreeDSChunkDescription LTSemicolon RenderingSwikiAction HTTPSocket GraphMorph ScrollPane TextMorphForEditView SequentialAnimation MarqueeMorph VRMLStandardNode PaintBoxColorPicker RBBlockNode SimpleSliderMorph B3DSimpleMesh ComponentLayout TransitionMorph ViewerFlapTab ObjectExplorerWrapper SimpleClientSocket TIContext ConnectionQueue B3DActiveEdgeTable ServerDirectory AddMethodRefactoring VRMLWriter SystemTracer MethodContext CompiledMethod Socket FWT RBCascadeNode TCaseStmtNode SendTypeSlot UndoAction B3DShaderPlugin HtmlOptionGroup HeadingMorph SpectrumAnalyzerMorph Float ExternalLibrary Phrase WonderlandPositionalLight EventModel ExtractMethodToComponentTest StandardSystemController LucidUnaryMessage ObjectExplorer LinearFit LoopbackStringSocket RenameVariableChange SymbolListTile Command UnaryFloatPrimitive GeeBookPageMorph InterpreterSupportCode HtmlEmbedded FormSetFont TextKern SameGameBoard BOBTransformationMorph Inspector WonderlandQuickReference BlockContext BinaryFloatPrimitive B3DPrimitiveLight IRCChannelSummary RemoveMethodTest InflatePlugin TSendNode LessHTMLformatter B3DPrimitiveEdgeList ComponentLikeModel ClassEnvironment RenameClassChange ReturnReceiverPrimitive LucidMethodReturnFlowGoal ChangeListForProjects X11Window SoundDemoMorph CharacterScanner PullUpClassVariableRefactoring PostscriptCharacterScanner PerformTypeSlot WeakSet MidiInputMorph FileDirectory DeepCopier SimpleButtonMorph ProtocolEnvironment EllipseMorph WonderlandActor9 PlayingCard WonderlandCameraMorph PluggableListViewOfMany BlockArgsNode LucidMessageExpression RulerMorph TestResult TextOnCurveContainer SmalltalkInterchangeSqueakFileInManager WorldWindow

HtmlDefinitionDefinition TransformationB2Morph PNGReadWriter LocalVariableTypeSlot PseudoClassOrganizer LucidDeadEndFlowGoal MenuItemMorph ZipEncoderNode PrintableEncoder UndoShowHide WonderlandVerifier CompositeVoice ProjectController UndoSizeChange FlashPlayerModel RenderedSwikiAction MouseButtonEvent RemoveInstanceVariableRefactoring HtmlHorizontalRule HiddenInput KlattSegmentParameter Url TestOSAPlugin LucidMethodSpecification LucidSendersGoal EToyFridgeMorph BufferedCanvas Win32Handle FastInflateStream PSwikiAction LTSuper NebraskaDebug KlattSynthesizer CommandHistory PerfectTypeGoal ListComponent ExternalObject SimplerTextContainer Bag ZoomAndScrollMorph LucidMethodSpecificationTestCase ShortPointArray PitchEnvelope MoodGesturalEvent FloatTruncatedPrimitive TestCClass3 B3DPrimitiveObject NewParagraph ContextlessVariableFlowPosition HtmlTable MethodTypeGoal DisplayMedium ReadStream FillInTheBlankMorph PluggableListViewByItem RefactoringWarning VRMLUnhandledNode VRMLScene PluginCodeLoader SplitClassRefactoring PluginLauncher AliceRelativeAnimation AbsoluteAnimation Cursor B3DIndexedQuadMesh UnfailingSmallIntegerArithmeticPrimitive B3DVertexRasterizer HtmlText StepMessage IntonationVisitor EmptyFlowPosition RefactoryTestDataApp HtmlFileStream ProjectViewMorph ParserRemovedUnusedTemps UndoVisibilityChange GSMCodec PushDownInstanceVariableTest Word RBStringReplaceRule HtmlTextEntity AlignmentMorphBob1 SentNotImplementedTestCase SyntaxAttribute ProgressInitiationException BasicLintRule RBReplaceRule PDARecurringEvent EToyTextNodeWrapper CompositeLintRuleTest TMethod OrientedFillStyle FlashSoundEnvelope LucidEmptySymbolTable HtmlHeadEntity KeyboardMorphForInput ScreenshotAction DisplayText LucidHopelessFlowGoal RemoteCanvas ColorSwatch TTPoint Quadrangle WaveletCodec FilePlugin TiTestCode BlockType InstanceVariableFlowPosition RBArrayNode B3DVector2Array TextMorphEditor UpdatingRectangleMorph EToySenderMorph Date LargeNegativeInteger WarpBlt B3DDirectionalLight F0RenderingVisitor TransformationRuleTest BalloonState SketchMorph TestInterpreterPlugin TabMorph ProjectHistory FloatArithmeticPrimitive X11GC B3DAcceleratorPlugin MessageSendTypeGoal Boolean KlattSegmentSet LedDigitMorph AddClassVariableTest RenameClassVariableChange LucidSymbolTable CompositeEvent FileStreamException RemoveParameterRefactoring CompressedSoundData RemoveClassVariableRefactoring UpdatingSimpleButtonMorph ExternalStructure RBShortAssignmentToken MultiCanvas StickySketchMorph AliceHierarchical VariableRefactoring PluggableTextMorph StandardFileMenu AtomMorph PushDownMethodTest LucidSenderSet PushUpInstanceVariableTest MoveMethodTest

PluggableButtonController LiteralNode HtmlTag AlignmentMorph
UtteranceVisitor TAssignmentNode DataStream ReadNewsInboxFile
PointerFinder RadioButtonInput TLabeledCommentNode
LucidReturnExpression Win32HBrush DictionaryInspector LTCaret
HtmlFrame WorldViewModel TetrisBoard VRMLNodeSpec Clause
InlineParameterTest Primitive UpdatingThreePhaseButtonMorph
ViewerRow Browser FlashLineStyle ChatNotes
ChangeMethodNameRefactoring PreferencesPanel ChangeRecord
TParseNode BitBlt LucidPerfectFlowGoal ExternalForm
HtmlTextualEntity PointArray FFIPlugin QueueSound B3DColor4Array
ListParagraph UndoTextureChange FreeCell MoveMethodRefactoring
LeafNode PreDebugWindow Tetris AbstractInterpretation
PrintComponent PluggableListMorphByItem RandomNumberTile
ProgressTargetRequestNotification InlineMethodFromComponentTest
FloatingBookControlsMorph Sonogram BottomType
WindowingTransformation Bitmap EToyProjectRenamerMorph
TestModel ScriptStatusControl X11Drawable MouseMoveEvent
PluggableTextController VariableDock Envelope PrintSpecifications
TrashCanMorph WonderlandActor14 CartesianProductTestCase
LargeIntegersTest AtPrimitive RefactoryChange VRMLGenericNode
Message MailtoUrl BasicLintRuleTest ShortIntegerArray NoController
B3DPrimitiveFace ReferenceMorph UpdatingMenuItemMorph
HtmlDefinitionListElement URLMorph Utilities BalloonEnginePlugin
ParseTreeEnvironment EToyGateKeeperMorph TransformationMorph
GZipReadStream PerformPrimitive RemoteString FaceMorph
AIFFFileReader FormCanvas AddInstanceVariableChange MacRect
PasteUpMorph RenameClassVariableRefactoring Discussion
PlayWithMe2 BlobMorph B3DVector4 B3DEnginePlugin LTOpenParen
PDAChoiceMorph Warning ControlChangeEvent MorphWorldController
ExpressionFlowPosition FlashMorph CPluggableAccessor
JPEGHuffmanTable EToyPeerToPeer LucidScannerTestCase
AudioChatGUI EToyProjectHistoryMorph AbstractFont ScrollBar
MessageTally HtmlList FlowPositionTestCase POVertex TetrisBlock
RectangleMorph VariableSimulation Win32Shell CanvasEncoder
WordNet ClassOrganizer AuthorizedSwikiAction PostscriptEncoder
TextComponent TextAction Animation ClassType NotEnvironment
ExternalAddress Scanner InternalThreadNavigationMorph
WonderlandActorData IRCProtocolMessage RBProgramNode
DumberMenuMorph AddMethodChange ProgramChangeEvent
B3DVector3 SelectorEnvironment ListController VariableTypeGoal
ValueHolder FlippyArray2 FlashButtonMorph TextPlusPasteUpMorph
RBAbstractCondition TranslucentProgessMorph DualChangeSorter
ZASMCameraMarkMorph PluginHTTPRequest HtmlFixedWidthEntity
InlineAllSendersRefactoring PCXReadWriter IRCChannelInfo
LucidLocalVariable AliceTextOutputWindow B3DPrimitiveVertex
WonderlandSpotLight MailAddressTokenizer

CommandLineLauncherExample ActorState ColorTileMorph Scamper InterpreterSimulatorLSB LucidInstanceVariable LTPeriod BitmapFillStyle PushDownInstanceVariableRefactoring GeePrinter BlockLintRule RBMethodName IRCMorph UpdatingBooleanStringMorph HaloSpec RBMethod HtmlOption View Switch EnvelopeLineMorph LucidParser PolygonMorph PSwikiPage TableLayout GradientFillMorph ZipEncoderTree RenameClassVariableTest PluggableFileListView WordArray B3DClipperPlugin B3DPrimitiveVertexArray TestTMethod BlockValueMethodSimulation FlashDamageRecorder SuperedSendTypeSlot PseudoClass RemoveMethodChange CachingCanvas CompressedBoundaryShape MailAddressToken BalloonMorph LipsMorph SelectorNode UndescribedTile LinkedList POHalfedge HtmlCommentEntity HtmlImage CategoryEnvironment PushDownMethodRefactoring HtmlButton WonderlandCamera LTAssignmentOp FXBltSimulator Color TemporaryToInstanceVariableRefactoring PostscriptDummyWarp MouseMenuController IndentingListItemMorph B3DIndexedMesh ScorePlayerMorph SmalltalkInterchangeFileInManager Point FloatTimesTwoPowerPrimitive UndoAnimation URLmap EToySystem TIPTestPlugin ComplexProgressIndicator RemoveClassTest Environment PianoRollNoteMorph B3DSTriangleMesh LTVertBar MovieFrameSyncMorph PaintInvokingMorph MultipleSelectionModel WordArrayForSegment TConstantNode SmalltalkInterchangeSqueakFileOutManager Win32HDC ZASMScriptMorph B3DMorph SoundLoopMorph MorphicUnknownEvent HtmlSelect TextURL PhoneticTranscriber TTFontDescription RBSmallDictionary ExtractMethodToComponentRefactoring BrowserUrl GraphicSymbolInstance UpdatingStringMorphWithArgument CodeLoader SoundTile GeeBookMorph RefactoringBrowser VRMLEnumerator UndoPOVChange RemoveParameterTest ReturnNode WeakRegistry FlashPlayerWindow LayoutFrame InlineTemporaryTest AssignmentSimulation FXBltSimulation LucidReceiverFlowGoal FishEyeMorph LucidToken RemoveClassChange ContextPart PluggableTest RefactoryClassChange ThirtyTwoBitRegister FlashJPEGDecoder HtmlAttributes RenamedClassSourceReader KlattFrame ScriptInstantiation AbstractClassVariableTest ExplicitSourceCodePool RequestAlternateSyntaxSetting Heap PropertyListEncoder MorphicModel4 ScrollingToolHolder InlineParameterRefactoring TextFieldMorph LucidAssignmentExpression ZLibReadStream ObjectScanner MacRGBColor WonderlandActor5 WonderlandActor13 SortedCollection RenameTemporaryRefactoring TextEmphasis ScriptEditorMorph SymbolTableTestCase VRMLUndefinedNode ReferenceFinderTest AddClassTest MswUrl B3DPrimitiveRasterizer

BooleanTile LucidTypeGoal IRCConnection FlashMorphReader
LucidParameter ClassDiffBuilder MovieClipStartMorph
RefactoringManager AbstractSound ContextVariablesInspector PinSpec
SwikiPseudoFileStream VRMLProtoClassNode BrowserEnvironment
HtmlTextArea TransferMorphAnimation MuLawCodec VRMLUseNode
AlertMorph FlashKeyframe CursorWithMask TReturnNode
HtmlEntityInspector Oop CompositeRefactoryChange Text
ExtractMethodTest Pixmap ImageSegment PluckedSound
AlicePoolDefiner NebraskaClient RBPatternBlockToken HeadMorph
LinkedMessageSet WonderlandMorph XBMReadWriter
SimpleButtonDelayedMenuMorph ThisContextSimulation
CommentNode NewHandleMorph SequenceableCollection LintRuleTest
MailDBFile DisplayScreen SoundMorph CachedHTTPRequest
FormMenuView TestRunner ClassCommentReader Password
UnloadedSound InstructionStream WonderlandEditor
AliceAbstractAnimation AddClassVariableRefactoring
LucidPoolVariable Semaphore HtmlSubscript TextPlusMorph
LineMorph B3DVertexShader AbstractMediaEventMorph
GazeGesturalEvent LTWord ThreeDSParser GZipWriteStream
Component NameStringInHalo ScaleMorph VRMLDefNode
SuperSwikiServer PullUpClassVariableTest Line
SmalltalkInterchangeFileItem FontSet Win32Window
SmalllintResultEditor SoundPlayer FinderTool B3DVertexBuffer
ReturnBooleanPrimitive FileInput MailAddressParser
TestFailureErrorList NoteEvent LucidMetaClassCode
InterimSoundMorph X11Display InlineTemporaryRefactoring Presenter
NumericReadoutTile TestFailure WonderlandActorBrowser
FFITestPoint4 Player1 FlashGlyphMorph Random
RemovePoolVariableChange HttpUrl Exception ParsedCodePool
POTriangulation ParseStack Class ChooserMorph GraphicSymbol
SolidFillStyle MouseDownMorph BooleanScriptEditor
MIDISynthChannel CelesteComposition ScriptEvaluatorMorph
VariablePool WonderlandActor4 Number WonderlandScriptEditor
WonderlandActor21 MorphObjectOut WonderlandCameraControls
MethodNameEditor HtmlFormEntity RequestCurrentWorldNotification
WonderlandActor6 GZipSurrogateStream ScreeningMorph PDAEvent
TIParametersContext DialectMethodNode HtmlBody TilePadMorph
PianoRollScoreMorph DialectStream EToyGateKeeperEntry
B3DInterpolatedMesh B3DViewingFrustum TextFontChange
MonthMorph DigitalSignatureAlgorithm ConstantVariablePool
TransformMorph CompositeAnimation BrowserEnvironmentWrapper
GrafPort RBCondition RBMetaclass CompiledMethod class
FlashPlayerMorph ScriptActivationButton POSimplePolygon
WheelMorph AliceUpdateable HtmlFormatter UndefinedObject
ThreePhaseButtonMorph B3DTexture2Array NetworkTerminalMorph
WaveEditor LucidClassVariable MIDIControllerMorph Session

CanvasDecoder SmalltalkInterchangeFileManager InputSensor WonderlandDirectionalLight B3DMaterialColor SoundRecorder MethodParameterTypeSlot PaintBoxMorph DosFileDirectory ParameterFlowPosition OneOnSwitch EquivalencePrimitive FatBitsPaint RBLiteralToken HtmlTitle BraceNode WonderlandActor8 BitBltSimulator B3DPrimitiveFaceAttributes SymbolType WeakKeyDictionary ParserTest FreeCellBoard TinyPaint MacExternalData DeflateStream B3DRenderEngine MethodFinder AdvancedB3DSceneMorph BalloonCanvas PackageBrowser DSCPostscriptCanvas SecureHashAlgorithm ReadWriteStream DefaultPrimitive Collection RWBinaryOrTextStream PushUpMethodTest HtmlHead AliceLight B3DPrimitiveRasterizerData FrameRateMorph TopType MethodTypeSlot PostscriptEncoderToDisk TestSuite CompoundTileMorph CurrentProjectRefactoring TypeSlot BalloonBuffer HandleMorph RestSound LoopedSampledSound IRCChannelListBrowser NullTerminalMorph MessageSendSimulation B3DPrimitiveRasterizerState B3DPickerPlugin EToyProjectQueryMorph ExternalSemaphoreTable TStmtListNode HopelessTypeGoal DSCPostscriptCanvasToDisk PopUpMenu ServerFile DropEvent WordGamePanelMorph MagnifierMorph ChineseCheckerPiece SpeakerMorph ObjectMemory MouseOverHandler GraphicalMenu HtmlFrameSet AbstractLauncher MailDB TextLine FlashFileWriter TileLikeMorph Magnitude TileMessageNode Parser BlockCannotReturn SelectionMorph RenameInstanceVariableTest HTTPRequest BookPageThumbnailMorph SimpleSwitchMorph TTKernPair PDAClockMorph PluggableCanvas WorldState BlockParameterTypeGoal FlexMorph CharacterBlockScanner LucidSingleMessageExpression TIDefaultContext StringHolder BalloonLineSimulation RBOptimizedNode ExceptionAboutToReturn BalloonDebugEngine CharRecog TiTestSubSub Refactoring DSAPlugin AEDesc ExpandReferencedPoolsRefactoring PseudoMetaclass CardPlayer IRCMessagePattern DurationsVisitor AliceAbsoluteAnimation DeflatePlugin RFC2047MimeConverter LookupKey RBSearchRule RelativeAnimation IndexFile TTContourConstruction HtmlComment Interpreter VariableEnvironmentBrowser WonderlandScene TIContextTestCase EventSensor RealEstateAgent PDAMorph PartsWindow EToyHierarchicalTextGizmo CustomMenu RBPatternMethodNode CommandTilesMorph VRMLDynamicAttribute LucidTypeInferenceTestCase StretchyImageMorph ChatButtonMorph LucidBraceExpression AddInstanceVariableRefactoring RefactoringTest LucidGoalPool LayoutCell NetNameResolver TypePool MethodTempsNode B3DIndexedTriangleMesh TextAnchor FlashSorterMorph LucidUniversalSenderSet ExtraParsingAndFormattingTests CrosticQuotePanel PhraseWrapperMorph RBPatternBlockNode EndOfStream

Interpolateable Wonderland CharacterSet ClockMorph ToggleButtonInput ObjectTracer HtmlMap B3DSpotLight InfiniteForm FakeClassPool HtmlHeader NetworkTerminalBorderMorph TestCClass2 PluggableTextMorphWithModel MIMEHeaderValue LucidArgumentFlowGoal AmbientEvent SystemSourceCodePool VersionsBrowser FileExistsException WonderlandActor3 TVariableNode SmalllintTest TypeTestCase ReturnSimulation InteractiveAddMethodChange SyntaxError VRMLBaseNode Transcripter RemoveClassVariableChange HtmlDocument LucidConstantVariable FileDoesNotExistException KidNavigationMorph LucidRegularSenderSet ChangeSet PluggableListControllerOfMany BalloonEngineSimulation FMBassoonSound UndoChangeList TextDiffBuilder Syllable DirectoryEntry LucidThisContextExpression CompositeLintRule TextPrinter ApplescriptError ZoomMorph TestCase ProportionalLayout RBAbstractClass MappedCollection WonderlandStillCamera B3DCameraPerspective CipherPanel SourceFileArray ObjectSocket IdentityTransform HtmlToken RepeatingSound MessagePartNode CachedSwikiAction RNInboxFile FormInputSet B3DIndexedQuad SoundCodec FileUrl FlasherMorph LTBinaryOp StaticForm HtmlBlockEntity PluggableButtonView SimpleMIDIPort HtmlDefinitionList CCodeGenerator HtmlDefinitionTerm SquishedNameMorph EToyIncomingMessage PlayingCardDeck Authorizer MethodRefactoring Player3 UniversalFlowPosition ModalSystemWindowView LTOpenBrace SharedQueue StoryboardBookMorph MenuMorph Scheduler ToggleButtonMorph ParseTreeSearcher TextColor ExternalFormRegistry FlowPosition ChatRecorder Unsigned MoviePlayerMorph B3DRasterizerPlugin FlashProgressMorph MenuItem RBIdentifierToken SmallIntegerDividePrimitive MovieClipEndMorph B3DLightSource AbstractAnimation HtmlPreformattedRegion EToyMultiChatMorph DisplayScanner RenameMethodRefactoring SystemOrganizer ReferenceStream SmalltalkInterchangeFileOutManager CharacterBlock DoubleClickExample UrlArgumentList CrLfFileStream DrawErrorMorph MouseEvent AddClassVariableChange Win32Rectangle ClassRepresentativeMorph VRMLNodeAttribute ExceptionTester ListView SystemDictionary ImageMorphWithSpotlight RBClass AbstractInstanceVariableRefactoring ExecutionUnit ScrollController B3DSimpleMeshFace PhraseTileMorph ChangedMessageSet FMClarinetSound Comment MIDIScore TTGlyph MultiEnvironment RBMethodNode FlashCharacterMorph MorphicModel3 Rectangle RBPatternMessageNode MessageNode MIMEPart MIDIPlugin VariableTypeTest ImageMorph MIDISynth EToyListenerMorph MessageFile Action HandMorphForReplay TestCodeGenerator AsynchFilePlugin TiTestSub ProtocolBrowser Player2 PushDownClassVariableRefactoring TextAnchorPlus TextAttribute MIDIFileReader IRCMessageSet IntegerAsFloatPrimitive RBValueToken

Stream MessageSend VRMLInterpolatorNode ApplescriptInstance
RBSequenceNode Link EToyHierarchicalTextMorph SegmentScanner
DHtmlFormatter TextSqkProjectLink GradientFillStyle PrintEncoder
GenericUrl TextSqkPageLink BlockNode Error MessageNotUnderstood
ExternalData CodeHolder EToyProjectDetailsMorph
FlippyArrayPlugin2 TextLineInterval LucidMethod
UpdatingStringMorph RBConjunctiveCondition StringHolderController
Behavior PushUpMethodRefactoring Halt RemoveInstanceVariableTest
SelfSimulation PDAToDoItem CornerRounder
IRCDirectMessagesObserver CachingCodeLoader AssertionFailure
ModalController B3DRotation EUMethod VRMLExternProtoClassNode
HtmlListItem String RefactoryChangeManager HTTPLoader
RefactoringError SystemQueryPhrase ClassRefactoring
BalloonEngineBase EventHandler MovieMorph HtmlEntity
TranscriptStream RBScanner LucidClassSymbolTable
ShadowDrawingCanvas JoystickMorph FormInput
BookPageSorterMorph StringMorphEditor SoundSequencerMorph
CompositionScanner OrderedCollection IndexFileEntry NullCanvas
TwoWayScrollPane RBNegationCondition TestCClass1 PerfectTypeSlot
FlashCodec RBReturnNode SoundBuffer InstVarRefLocator MailNotifier
WonderlandControls ChildrenToSiblingsTest InterpreterSimulatorMSB
B3DPositionalLight True FileList2 AbstractInstanceVariableTest FXBlt
B3DIndexedQuadArray ProtectInstanceVariableTest
BlockValueTypeGoal MorphicEventDecoder HopelessTypeSlot
VariableTypeSlot MIDIInputParser B3DPrimitiveShader
SqueakPageCache WebPageMorph MyTestNotification
StandardScriptingSystem Foo2 RenameClassTest LiljencrantsFant
MouseClickState WonderlandEvent OnceOnlyOrderedCollection
DocLibrary FlashSoundInformation DisplayTextView HtmlItalicsEntity
ParseNode WeakValueAssociation ProcessBrowser Alarm SqueakPage
ProjectLoading AliceAlarm Dictionary LayoutProperties
HierarchyBrowser B3DPoolDefiner FileContentsBrowser
GraphicalDictionaryMenu RBProgramNodeVisitor LedMorph
ProtectInstanceVariableRefactoring BitBltSimulation MVCMenuMorph
FlashFileStream POPSocket InspectorBrowser Compiler NebraskaServer
MailMessage PURLmap MyResumableTestError LucidPoolSymbolTable
LucidScanner ClassChangeRecord ReturnSmallIntegerPrimitive
BitEditor PenPointRecorder B3DIndexedTriangleArray PhoneticEvent
BalloonEdgeData FFTPlugin LucidParserFromRB AbstractScoreEvent
TextMorph SyntaxMorph Array2D class TestInterfaceBase FXGrafPort
LTCloseParen B3DScene EllipseMidpointTracer WonderlandLightSource
DialectParser ListViewLine FFITestPoint2 OrderedCollectionInspector
DeferredActionStandardSystemController SystemMonitor
PickAFileToWriteNotification JoystickTabletPlugin PDARecord
BalloonBezierSimulation Path TTSampleFontMorph
RendererSwikiAction VolumeEnvelope FileList ImageReadWriter

Interval Type PluggableServerAction ExternalStructureInspector
KlattFrameMorph RBValueNode MyTestError HtmlTokenizer
FormEditorView ClassPrimitive VRMLStream
LucidCascadedMessageExpression TextStyle B3DVertexTransformer
Process HtmlMeta StringButtonMorph HtmlSmallerFontEntity
AssignmentTileMorph IndentingListParagraphMorph
LucidConstantSymbolTable IdentitySet BalloonEngine MenuTile
AliceAction PhonemeRecognizerMorph LTCloseBrace VariableNode
EUExpression EToyChatMorph InterpreterSimulator
BinarySmallIntegerPrimitive ExtractToTemporaryRefactoring
JPEGReadWriter MacPoint Encoder FFT Paragraph
EToyGenericDialogMorph ObjectOut PerformMethodSimulation
AbstractInstructionPrinter HaloMorph Character EUSimulation
DecompilerConstructor FlashStreamingSound ViewerEntry
EmbeddedWorldBorderMorph ADPCMCodec JPEGColorComponent
InstructionPrinter RemoteHandMorph DiskProxy DisplayObject
BalloonFillData FlashMorphingMorph IRCRecipientFilter EUVariable
PhoneticRule VRMLWonderlandBuilder PluggableFileList ProtoObject
B3DTransformerPlugin ZASMStepsMorph AddMethodTest
MouseSensorMorph StarMorph KeyboardBuffer EToyTextNode
PDAPerson SmallintContext SystemWindowWithButton Voice
B3DExponentTable WonderlandStillCameraMorph DisplayTransform
QuotedPrintableMimeConverter FloatComparisonPrimitive Object
B3DScanner LucidBlockExpression HtmlSpecialEntity
InlineMethodFromComponentRefactoring FlapTab Celeste False
SameGame PitchBendEvent SMTPSocket
OnceOnlyOrderedCollectionTestCase BrowserEnvironmentTest
PluggableListController TileMorph LocalVariableFlowPosition
MethodHolder ScreenController WonderlandActor
Base64MimeConverter AuthorizedServerAction IRCMessage
FormInspectView MHMailInboxFile LucidParserTestCase
PluggableListMorphOfMany ProjectEntryNotification ExternalTexture
VRMLNamedNode StandardFileMenuResult Note TextOnCurvePS
WireMorph Fraction MethodChangeRecord SelectionMenu
ProjectViewOpenNotification PseudoContext HtmlTableHeader
TheWorldMenu RenameTemporaryTest AcceptableCleanTextMorph
WonderlandAmbientLight PopUpChoiceMorph HtmlSuperscript
B3DGeometry TimeProfileBrowser HtmlFontChangeEntity
UndoByStopping KlattVoice VariableEnvironment PHOReader
InterpolatingImageMorph RBOptimizedToken InfoStringMorph
ColorPickerMorph ExternalLibraryFunction Slider B3DPrimitiveEngine
ParseTreeRewriter ClassToRename UndoRotationChange
FileDirectoryWrapper LucidStackSimulation FlashKeyframes
InteractiveAddClassChange Controller NewWorldWindow
ColorSystemView PlayingCardMorph WatchMorph
KlattSynthesizerPlugin ClassDescription AssignmentNode UserScript

ChildrenToSiblingsRefactoring InlineAllMethodTest PluggableButtonMorph WeakKeyAssociation FloatArrayPlugin SmallInteger ByteArray CompiledApplescript FormButtonCache BouncingAtomsMorph WeekMorph Form WonderlandActor1 CategoryViewer SelectorBrowser ReverbSound B3DVertexBufferPlugin RenameClassRefactoring DownloadingImageMorph UnionFlowPosition StandardSourceFileArray B3DIndexedTriangle FloatArray ProjectNavigationMorph Spline AliceScene TranslatedMethod Project FillInTheBlankController ClassEnvironmentBrowser TextIndent Bezier2Segment MorphicModel2 BalloonSolidFillSimulation LayoutPolicy PerformTypeGoal Array WonderlandActor11 AliceWorld Player B3DBox AndEnvironment SystemWindow TextInput CascadeNode ExceptionSet VRMLNodeParser TextMessageLink MacPixPatPtr ProcessorScheduler RefactoryTyper ThreadNavigationMorph LucidSelfOfMethodFlowGoal LTWordColon CategoriesFile B3DNullRasterizer B3DSceneExplorerMorph Applescript RBReadBeforeWrittenTester ArbitraryObjectSocket Integer ReferenceFinder HandMorph MorphicEventDispatcher TestTest WonderlandReaction SourceCodePool LucidGoal RBBinarySelectorToken PortugueseLexiconServer PluggableSet ZeroDivide KlattSegment SelectionInput GeePrinterDialogMorph CurveFitter BookMorph Delay FooLintRuleTest SerialPort }

- 1 count(s) of ProtoObject++
- 1 count(s) of { Boolean++ B3DPrimitiveRasterizerData B3DTexture2Array Integer PointArray ByteArray CompiledApplescript ArrayedCollection SoundBuffer ExternalAddress ShortIntegerArray KlattFrame B3DMaterialColor GraphicSymbol B3DVector3 FlippyArray2 WeakArray Pixmap WordArray B3DVector2Array B3DIndexedQuad B3DVector3Array DescType B3DPrimitiveVertexArray B3DRotation B3DIndexedTriangleArray WordArrayForSegment B3DIndexedQuadArray String B3DPrimitiveLight LargePositiveInteger ComponentInstance StandardSourceFileArray B3DIndexedTriangle FloatArray B3DColor4 OnceOnlyOrderedCollection TranslatedMethod DirectoryEntry Array2D B3DFloatArray AEDesc Symbol RunArray B3DInplaceArray Text Array B3DMaterial B3DRotationArray ApplescriptInstance MappedCollection B3DColor4Array Interval Heap UrlArgumentList SourceFileArray B3DLightAttenuation ShortPointArray B3DVector4 B3DVector2 SequenceableCollection MacExternalData OrderedCollection B3DExponentTable B3DViewingFrustum IntegerArray ShortRunArray SortedCollection Bitmap LinkedList B3DMatrix4x4 Semaphore TextLineInterval LargeNegativeInteger CompiledMethod OSAID UndefinedObject SmallInteger }
- 1 count(s) of { UndefinedObject #try #mutedForTrack:put:

#rotateClockWise #stepStillDown:with:
#goToPageMorph:fromBookmark: #selection #volumeForChannel:put:
#quit #playV2 #chooseFrom:categoryItem: #destroyScript
#nextProject #quitWonderland #boardAction: #makeTile
#saveSession #quitSqueak #value #setLoopStart #startPlaying
#forward #debug #playLoop #closeBoxHit #doCancel
#nextOwnerPage #trim #moreCommands #maybeEmptyTrash
#infoFor:inViewer: #chooseTriggerFrom: #toggleWhetherShowingTiles
#durMod:onOff: #emitRest #makePianoRoll #jump10 #acceptSort
#back #startNebraskaClient #chooseAndRevertToVersion #runScript:
#fullScreenOff #buildChord: #goToNextCardInStack #showMenu
#atChannel:from:selectInstrument: #nextYear #toggleFlapsSuppressed
#stepForward #togglePartsBinStatus #playNextMessage
#stopUp:with: #browseRecentSubmissions #goToRelativePosition:
#setLoopEnd #gotoAnother #tabSelected #playV1 #invokeMenu
#editCustomHalos #goUp:with: #rotateY:
#atTrack:from:selectInstrument: #deleteNotes #displayHistory
#pausedUp:with: #pickGame #setLogRate: #acceptAnnotationsFrom:
#writeTape #dismiss #visitStartPage #shrink #startAudioChat
#previous #cancelSort #previousOwnerPage #newProject
#stepBackward #tileClickedAt:newSelection: #overallVolume:
#addPhoneme #makeSoundMorph #replaceToolsFlap #rewind
#toggleStatus #explainFlaps #getNewerVersionIfAvailable
#openPreferencesInspector #moveRight #returnToPreviousProject
#addFovAngle: #doOK #toggleFullView #stopEverything #cancel
#addYesNoToHand #jumpToProject #saySomething #start #playAll
#upArrowHit #stopRecognizing #moveLeft #chooseFrom:soundItem:
#rotateAntiClockWise #record #addDolly: #advanceToNextProject
#duration:onOff: #toggleDiff #chooseFrom:envelopeItem: #newGame
#drawNicest #editAnnotations #toggleDeferred #quitNebraska
#rotateX: #stopSound #dropAllTheWay #play #offerScriptorMenu
#playTestNote #button #panForTrack:put: #statistics #doPreview
#forgetIt #mutedForChannel:put: #startTelemorphic #stopPlaying
#volumeForTrack:put: #scrollTime: #toggleFull #updateFromServer
#firstPage #undo #collapseOrExpand #lastPage #addCategoryViewer
#downArrowHit #sendNow #toggle #rotateZ: #playAfterCursor
#delete #drawFastest #ok #doExpand #tellAFriend #recordLevel:
#goToPreviousCardInStack #tickingUp:with: #reset #submit
#chooseTrigger #repeat: #sameGame #writeTape: #publishProject
#togglePreference: #checkOnAFriend #resumePlaying #makeMovie
#okay #installHaloTheme: #connect #readTape #previousYear
#loopFrames: #panForChannel:put: #previousPage #show
#playBeforeCursor #nextPage #exitTheSequence
#brush:action:nib:evt: #startChat #saveInstrument #tryMe #playV3
#previousProject #shareThisWorld #proceed #accept #fullScreenOn
#toggleShowDocumentation #setDate:fromButton:down:

#fileOutChanges #disableReverb: #setOneCycle #drawMedium #next #newSliderValue: #tool:action:cursor:evt: #offerWindowMenu #pause #playTest #doNewPainting #positionInScore: #playback #findAProject #newHead #help #toggleOnOff #windowColorHelp #doPrint #articulation:onOff: #flash #bufferNebraska #stop #toggleChoice: #hint #startRecognizing #chooseCategory #reload #help: }

- 1 count(s) of { FloatArray++ String++ LargePositiveInteger++ ByteArray++ OnceOnlyOrderedCollection UndefinedObject Interval SequenceableCollection IntegerArray DescType Bitmap SortedCollection WordArrayForSegment WeakArray ArrayedCollection SoundBuffer StandardSourceFileArray B3DIndexedTriangle Integer GraphicSymbol ShortPointArray ComponentInstance FlippyArray2 UrlArgumentList WordArray TranslatedMethod B3DPrimitiveVertexArray TextLineInterval PointArray DirectoryEntry ShortIntegerArray MacExternalData ShortRunArray Semaphore SmallInteger Array LinkedList Array2D RunArray MappedCollection SourceFileArray Pixmap Text AEDesc B3DPrimitiveRasterizerData B3DIndexedQuad OrderedCollection OSAID ApplescriptInstance Heap }

4 Individual Results

4.1 Threshold of 50

- Bad: ADPCMCodec.index is of type Top
- Good: ADPCMCodec.indexTable is of type { Array UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.deltaSignMask is of type Top
- Bad: ADPCMCodec.bitPosition is of type Top
- Bad: ADPCMCodec.encodedBytes is of type Top
- Good: ADPCMCodec.stepSizeTable is of type { Array UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.sampleIndex is of type Top
- Good: ADPCMCodec.rightSamples is of type { UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.byteIndex is of type Top
- Bad: ADPCMCodec.frameSizeMask is of type Top
- Bad: ADPCMCodec.bitsPerSample is of type Top

- Bad: ADPCMCodec.predicted is of type Top
- Bad: ADPCMCodec.deltaValueHighBit is of type Top
- Bad: ADPCMCodec.deltaValueMask is of type Top
- Bad: ADPCMCodec.currentByte is of type Top
- Bad: ADPCMCodec.samples is of type Top
- Bad: AIFFFileReader.channelData is of type Top
- Bad: AIFFFileReader.frameCount is of type Top
- Bad: AIFFFileReader.isLooped is of type Top
- Bad: AIFFFileReader.gain is of type Top
- Bad: AIFFFileReader.in is of type Top
- Bad: AIFFFileReader.fileType is of type Top
- Bad: AIFFFileReader.pitch is of type Top
- Good: AIFFFileReader.markers is of type { UndefinedObject Array }
- Bad: AIFFFileReader.channelCount is of type Top
- Bad: AIFFFileReader.bitsPerSample is of type Top
- Good: AIFFFileReader.mergeIfStereo is of type { True UndefinedObject False }
- Good: AIFFFileReader.skipDataChunk is of type { True UndefinedObject False }
- Bad: AIFFFileReader.samplingRate is of type Top
- Bad: AbstractSound.envelopes is of type Top
- Bad: AbstractSound.mSecsSinceStart is of type Top
- Bad: AbstractSound.scaledVolLimit is of type Top
- Bad: AbstractSound.scaledVol is of type Top
- Bad: AbstractSound.samplesUntilNextControl is of type Top
- Bad: AbstractSound.scaledVolIncr is of type Top
- Bad: CompressedSoundData.perceivedPitch is of type Top
- Bad: CompressedSoundData.codecName is of type Top

- Good: CompressedSoundData.channels is of type { UndefinedObject Array }
- Bad: CompressedSoundData.gain is of type Top
- Bad: CompressedSoundData.firstSample is of type Top
- Bad: CompressedSoundData.soundClassName is of type Top
- Bad: CompressedSoundData.cachedSound is of type Top
- Bad: CompressedSoundData.loopLength is of type Top
- Bad: CompressedSoundData.samplingRate is of type Top
- Bad: CompressedSoundData.loopEnd is of type Top
- Bad: Envelope.target is of type Top
- Bad: Envelope.scale is of type Top
- Good: Envelope.updateSelector is of type { UndefinedObject #pitch: #modulation: #ratio: }
- Bad: Envelope.loopEndMSecs is of type Top
- Bad: Envelope.endMSecs is of type Top
- Bad: Envelope.currValue is of type Top
- Bad: Envelope.loopStartIndex is of type Top
- Bad: Envelope.valueIncr is of type Top
- Good: Envelope.noChangesDuringLoop is of type { True UndefinedObject False }
- Bad: Envelope.nextRecomputeTime is of type Top
- Bad: Envelope.loopEndIndex is of type Top
- Bad: Envelope.loopMSecs is of type Top
- Bad: Envelope.loopStartMSecs is of type Top
- Bad: Envelope.decayScale is of type Top
- Bad: Envelope.points is of type Top
- Bad: Envelope.lastValue is of type Top
- Bad: FFT.permTable is of type Top
- Bad: FFT.nu is of type Top

- Bad: FFT.n is of type Top
- Bad: FFT.sinTable is of type Top
- Bad: FFT.imagData is of type Top
- Good: FFT.window is of type { UndefinedObject FloatArray }
- Bad: FFT.realData is of type Top
- Bad: FMSound.initialCount is of type Top
- Bad: FMSound.multiplier is of type Top
- Bad: FMSound.scaledOffsetIndex is of type Top
- Bad: FMSound.waveTable is of type Top
- Bad: FMSound.scaledWaveTableSize is of type Top
- Bad: FMSound.scaledIndex is of type Top
- Bad: FMSound.normalizedModulation is of type Top
- Bad: FMSound.scaledOffsetIndexIncr is of type Top
- Bad: FMSound.modulation is of type Top
- Bad: FMSound.scaledIndexIncr is of type Top
- Bad: FMSound.count is of type Top
- Good: FWT.transform is of type { UndefinedObject Array }
- Bad: FWT.beta is of type Top
- Bad: FWT.gTilde is of type Top
- Bad: FWT.coeffs is of type Top
- Bad: FWT.g is of type Top
- Bad: FWT.nSamples is of type Top
- Bad: FWT.nLevels is of type Top
- Bad: FWT.alpha is of type Top
- Bad: FWT.h is of type Top
- Good: FWT.samples is of type { UndefinedObject Array }
- Bad: FWT.hTilde is of type Top
- Bad: GSMCodec.encodeState is of type Top

- Bad: GSMCodec.decodeState is of type Top
- Bad: LoopedSampledSound.initialCount is of type Top
- Bad: LoopedSampledSound.perceivedPitch is of type Top
- Bad: LoopedSampledSound.scaledLoopLength is of type Top
- Bad: LoopedSampledSound.lastSample is of type Top
- Bad: LoopedSampledSound.gain is of type Top
- Bad: LoopedSampledSound.scaledIndexIncr is of type Top
- Bad: LoopedSampledSound.releaseCount is of type Top
- Bad: LoopedSampledSound.firstSample is of type Top
- Bad: LoopedSampledSound.sampleCountForRelease is of type Top
- Bad: LoopedSampledSound.rightSamples is of type Top
- Bad: LoopedSampledSound.leftSamples is of type Top
- Bad: LoopedSampledSound.scaledIndex is of type Top
- Bad: LoopedSampledSound.originalSamplingRate is of type Top
- Bad: LoopedSampledSound.count is of type Top
- Bad: LoopedSampledSound.loopEnd is of type Top
- Good: MixedSound.soundDone is of type { UndefinedObject Array }
- Bad: MixedSound.sounds is of type Top
- Bad: MixedSound.leftVols is of type Top
- Bad: MixedSound.rightVols is of type Top
- Good: PitchEnvelope.centerPitch is of type UndefinedObject
- Bad: PluckedSound.initialCount is of type Top
- Bad: PluckedSound.ring is of type Top
- Bad: PluckedSound.scaledIndexLimit is of type Top
- Bad: PluckedSound.scaledIndex is of type Top
- Bad: PluckedSound.scaledIndexIncr is of type Top
- Bad: PluckedSound.count is of type Top
- Good: RandomEnvelope.rand is of type { Random UndefinedObject }

- Good: RandomEnvelope.highLimit is of type { UndefinedObject Float }
- Good: RandomEnvelope.lowLimit is of type { UndefinedObject Float }
- Good: RandomEnvelope.delta is of type { UndefinedObject Float }
- Bad: RepeatingSound.iteration is of type Top
- Bad: RepeatingSound.iterationCount is of type Top
- Bad: RepeatingSound.sound is of type Top
- Bad: RepeatingSound.samplesPerIteration is of type Top
- Bad: RestSound.initialCount is of type Top
- Bad: RestSound.count is of type Top
- Good: ReverbSound.tapGains is of type { UndefinedObject Bitmap }
- Bad: ReverbSound.bufferSize is of type Top
- Good: ReverbSound.rightBuffer is of type { UndefinedObject SoundBuffer }
- Good: ReverbSound.leftBuffer is of type { UndefinedObject SoundBuffer }
- Good: ReverbSound.tapCount is of type { UndefinedObject SmallInteger }
- Good: ReverbSound.tapDelays is of type { UndefinedObject Bitmap }
- Bad: ReverbSound.bufferIndex is of type Top
- Good: ReverbSound.sound is of type UndefinedObject
- Good: SampledInstrument.sustainedSoft is of type UndefinedObject
- Bad: SampledInstrument.staccatoSoft is of type Top
- Bad: SampledInstrument.staccatoLoud is of type Top
- Good: SampledInstrument.sustainedThreshold is of type { UndefinedObject Float }
- Bad: SampledInstrument.sustainedLoud is of type Top
- Good: SampledInstrument.loudThreshold is of type { UndefinedObject Float }
- Bad: SampledSound.initialCount is of type Top
- Bad: SampledSound.samples is of type Top

- Bad: SampledSound.scaledIncrement is of type Top
- Bad: SampledSound.scaledIndex is of type Top
- Bad: SampledSound.indexHighBits is of type Top
- Bad: SampledSound.samplesSize is of type Top
- Bad: SampledSound.originalSamplingRate is of type Top
- Bad: SampledSound.count is of type Top
- Bad: SequentialSound.sounds is of type Top
- Bad: SequentialSound.currentIndex is of type Top
- Bad: Sonogram.lastX is of type Top
- Good: Sonogram.pixValMap is of type { UndefinedObject Bitmap }
- Good: Sonogram.maxVal is of type { UndefinedObject Float }
- Good: Sonogram.minVal is of type { UndefinedObject Float }
- Good: Sonogram.scrollDelta is of type { UndefinedObject SmallInteger }
- Good: Sonogram.columnForm is of type { Form UndefinedObject }
- Bad: SoundInputStream.mutex is of type Top
- Bad: SoundInputStream.bufferSize is of type Top
- Good: SoundRecorder.currentBuffer is of type { UndefinedObject SoundBuffer }
- Bad: SoundRecorder.recordProcess is of type Top
- Good: SoundRecorder.codec is of type { GSMCodec UndefinedObject }
- Good: SoundRecorder.desiredSampleRate is of type { UndefinedObject Float }
- Bad: SoundRecorder.nextIndex is of type Top
- Good: SoundRecorder.meteringBuffer is of type { UndefinedObject SoundBuffer }
- Bad: SoundRecorder.meterLevel is of type Top
- Good: SoundRecorder.stereo is of type { False UndefinedObject }
- Good: SoundRecorder.recordLevel is of type { UndefinedObject Float }
- Bad: SoundRecorder.soundPlaying is of type Top

- Bad: SoundRecorder.recordedBuffers is of type Top
- Good: SoundRecorder.paused is of type { True UndefinedObject False }
- Bad: SoundRecorder.samplingRate is of type Top
- Bad: SoundRecorder.recordedSound is of type Top
- Good: SoundRecorder.bufferAvailableSema is of type { Semaphore UndefinedObject }
- Bad: VolumeEnvelope.mSecsForChange is of type Top
- Bad: VolumeEnvelope.targetVol is of type Top
- Good: VolumeEnvelope.currentVol is of type UndefinedObject
- Good: WaveletCodec.alpha is of type { UndefinedObject Float }
- Good: WaveletCodec.beta is of type { UndefinedObject Float }
- Good: WaveletCodec.fwt is of type { FWT UndefinedObject }
- Good: WaveletCodec.samplesPerFrame is of type { UndefinedObject SmallInteger }
- Good: WaveletCodec.nLevels is of type { UndefinedObject SmallInteger }
- Bad: IRCChannelInfo.name is of type Top
- Bad: IRCChannelInfo.topic is of type Top
- Good: IRCChannelInfo.subscribers is of type { IdentitySet UndefinedObject }
- Good: IRCChannelInfo.members is of type { Set UndefinedObject }
- Good: IRCChannelInfo.connection is of type { IRCConnection UndefinedObject }
- Good: IRCChannelListBrowser.channelIndex is of type { UndefinedObject SmallInteger }
- Bad: IRCChannelListBrowser.channelList is of type Top
- Good: IRCChannelListBrowser.sortCriterion is of type { UndefinedObject #name }
- Bad: IRCChannelListBrowser.connection is of type Top
- Bad: IRCChannelObserver.chatText is of type Top
- Good: IRCChannelObserver.channelName is of type UndefinedObject

- Bad: IRCChannelObserver.channel is of type Top
- Bad: IRCChannelObserver.connection is of type Top
- Bad: IRCChannelSummary.name is of type Top
- Bad: IRCChannelSummary.topic is of type Top
- Bad: IRCChannelSummary.numUsers is of type Top
- Good: IRCChannelUsersBrowser.channel is of type { UndefinedObject IRCChannelInfo }
- Bad: IRCChannelUsersBrowser.userList is of type Top
- Bad: IRCChannelUsersBrowser.userIndex is of type Top
- Good: IRCConnection.directMessageSubscribers is of type { IdentitySet UndefinedObject }
- Good: IRCConnection.channelListBeingBuilt is of type { UndefinedObject OrderedCollection }
- Good: IRCConnection.protocolMessagesToSend is of type { UndefinedObject OrderedCollection }
- Bad: IRCConnection.sendBuffer is of type Top
- Bad: IRCConnection.server is of type Top
- Good: IRCConnection.motdBeingBuilt is of type { UndefinedObject WriteStream }
- Good: IRCConnection.protocolMessageSubscribers is of type { IdentitySet UndefinedObject }
- Bad: IRCConnection.motd is of type Top
- Bad: IRCConnection.port is of type Top
- Bad: IRCConnection.recieveBuffer is of type Top
- Good: IRCConnection.socket is of type { Socket UndefinedObject }
- Bad: IRCConnection.userName is of type Top
- Bad: IRCConnection.nick is of type Top
- Bad: IRCConnection.channelList is of type Top
- Good: IRCConnection.subscribedChannels is of type { UndefinedObject Dictionary }
- Bad: IRCConnection.fullName is of type Top

- Good: IRCConnection.messagesProcessed is of type { UndefinedObject SmallInteger }
- Bad: IRCConnection.consoleText is of type Top
- Bad: IRCDirectMessagesObserver.chatText is of type Top
- Bad: IRCDirectMessagesObserver.talkingTo is of type Top
- Bad: IRCDirectMessagesObserver.connection is of type Top
- Bad: IRCMessage.text is of type Top
- Bad: IRCMessage.sender is of type Top
- Bad: IRCMessage.recipient is of type Top
- Good: IRCMessagePattern.sender is of type UndefinedObject
- Good: IRCMessagePattern.recipient is of type UndefinedObject
- Good: IRCMessageSet.messages is of type UndefinedObject
- Bad: IRCMorph.userName is of type Top
- Bad: IRCMorph.nick is of type Top
- Bad: IRCMorph.server is of type Top
- Good: IRCMorph.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCMorph.fullName is of type Top
- Good: IRCMorph.messageCollections is of type UndefinedObject
- Bad: IRCMorph.consoleText is of type Top
- Bad: IRCMorph.port is of type Top
- Bad: IRCProtocolMessage.arguments is of type Top
- Good: IRCProtocolMessage.command is of type { String++ UndefinedObject Character }
- Bad: IRCProtocolMessage.prefix is of type Top
- Good: IRCRecipientFilter.recipient is of type UndefinedObject
- Good: ChineseCheckerPiece.myBoard is of type { ChineseCheckers UndefinedObject }
- Bad: ChineseCheckerPiece.boardLoc is of type Top
- Bad: ChineseCheckers.movePhase is of type Top

- Bad: ChineseCheckers.board is of type Top
- Good: ChineseCheckers.plannedMovePhase is of type UndefinedObject
- Good: ChineseCheckers.sixDeltas is of type { UndefinedObject Array }
- Bad: ChineseCheckers.plannedMove is of type Top
- Bad: ChineseCheckers.whoseMove is of type Top
- Bad: ChineseCheckers.teams is of type Top
- Bad: ChineseCheckers.colors is of type Top
- Good: ChineseCheckers.homes is of type { UndefinedObject Array }
- Good: ChineseCheckers.animateMoves is of type { True UndefinedObject False }
- Good: ChineseCheckers.pathMorphs is of type { UndefinedObject OrderedCollection }
- Good: ChineseCheckers.autoPlay is of type { UndefinedObject Array }
- Bad: CipherPanel.originalMorphs is of type Top
- Bad: CipherPanel.decodingMorphs is of type Top
- Good: CipherPanel.quote is of type { String++ UndefinedObject Character }
- Good: CipherPanel.originalText is of type UndefinedObject
- Good: CrosticPanel.crosticPanel is of type UndefinedObject
- Good: CrosticPanel.cluesCol2 is of type { AlignmentMorph UndefinedObject }
- Bad: CrosticPanel.quote is of type Top
- Good: CrosticPanel.answers is of type { UndefinedObject OrderedCollection }
- Good: CrosticPanel.clues is of type { UndefinedObject OrderedCollection }
- Good: CrosticPanel.cluesPanel is of type { AlignmentMorph UndefinedObject }
- Good: CrosticPanel.quotePanel is of type { CrosticQuotePanel UndefinedObject }
- Good: CrosticQuotePanel.cluesPanel is of type { CrosticPanel UndefinedObject }

- Good: FreeCell.lastGameLost is of type UndefinedObject
- Good: FreeCell.cardsRemainingDisplay is of type { LedMorph UndefinedObject }
- Good: FreeCell.gameNumberDisplay is of type { LedMorph UndefinedObject }
- Good: FreeCell.state is of type { UndefinedObject #sameGame #pickGame #won #newGame #lost }
- Good: FreeCell.myFillStyle is of type { UndefinedObject GradientFillStyle }
- Good: FreeCell.elapsedTimeDisplay is of type { UndefinedObject LedTimerMorph }
- Good: FreeCell.board is of type { FreeCellBoard UndefinedObject }
- Bad: FreeCell.autoMoveRecursionCount is of type Top
- Bad: FreeCellBoard.target is of type Top
- Bad: FreeCellBoard.actionSelector is of type Top
- Good: FreeCellBoard.stacks is of type { UndefinedObject Array }
- Good: FreeCellBoard.freeCells is of type { UndefinedObject Array }
- Good: FreeCellBoard.homeCells is of type { UndefinedObject Array }
- Good: FreeCellBoard.cardDeck is of type { PlayingCardDeck UndefinedObject }
- Good: FreeCellBoard.lastCardDeck is of type UndefinedObject
- Bad: FreeCellStatistics.streakLosses is of type Top
- Bad: FreeCellStatistics.lastGameWon is of type Top
- Bad: FreeCellStatistics.lastGameLost is of type Top
- Bad: FreeCellStatistics.currentCount is of type Top
- Good: FreeCellStatistics.currentType is of type { UndefinedObject #wins #losses }
- Good: FreeCellStatistics.statsMorph is of type { TextMorph UndefinedObject }
- Bad: FreeCellStatistics.window is of type Top
- Bad: FreeCellStatistics.sessionLosses is of type Top

- Bad: FreeCellStatistics.lossesWithReplay is of type Top
- Bad: FreeCellStatistics.sessionWins is of type Top
- Bad: FreeCellStatistics.totalWins is of type Top
- Bad: FreeCellStatistics.streakWins is of type Top
- Bad: FreeCellStatistics.totalLosses is of type Top
- Bad: FreeCellStatistics.winsWithReplay is of type Top
- Bad: LedDigitMorph.digit is of type Top
- Good: LedDigitMorph.highlighted is of type { True UndefinedObject False }
- Good: LedMorph.digits is of type { UndefinedObject SmallInteger }
- Bad: LedMorph.flash is of type Top
- Good: LedMorph.flashing is of type { True UndefinedObject False }
- Bad: LedMorph.value is of type Top
- Good: LedTimerMorph.counting is of type { True UndefinedObject False }
- Bad: LedTimerMorph.startSeconds is of type Top
- Bad: PlayingCard.cardNo is of type Top
- Good: PlayingCard.suitNo is of type UndefinedObject
- Good: PlayingCard.suit is of type UndefinedObject
- Good: PlayingCard.cardForm is of type { Form UndefinedObject }
- Bad: PlayingCardDeck.target is of type Top
- Bad: PlayingCardDeck.seed is of type Top
- Good: PlayingCardDeck.acceptCardSelector is of type { PlayingCardDeck UndefinedObject #acceptCard:onStack: #acceptSingleCard:on: }
- Good: PlayingCardDeck.cardDraggedSelector is of type { PlayingCardDeck UndefinedObject #dragCard:fromHome: #dragCard:fromStack: }
- Good: PlayingCardDeck.stackingOrder is of type { UndefinedObject #descending #ascending }

- Good: PlayingCardDeck.cardDroppedSelector is of type { PlayingCardDeck UndefinedObject #cardMoved #cardMovedHome }
- Good: PlayingCardDeck.cardDoubleClickSelector is of type { PlayingCardDeck UndefinedObject #doubleClickInStack:OnCard: }
- Good: PlayingCardDeck.stackingPolicy is of type { UndefinedObject #stagger #single #altStraight #straight }
- Good: PlayingCardDeck.emptyDropPolicy is of type { UndefinedObject #inOrder #any }
- Good: PlayingCardDeck.layout is of type { UndefinedObject #stagger #pile #grid }
- Bad: PlayingCardMorph.suitNumber is of type Top
- Bad: PlayingCardMorph.cardNumber is of type Top
- Good: SameGame.scoreDisplay is of type { LedMorph UndefinedObject }
- Good: SameGame.board is of type { UndefinedObject SameGameBoard }
- Good: SameGame.selectionDisplay is of type { LedMorph UndefinedObject }
- Bad: SameGame.helpText is of type { StringHolderView++ PluggableTextMorph++ UndefinedObject }
- Bad: SameGameBoard.palette is of type Top
- Bad: SameGameBoard.target is of type Top
- Bad: SameGameBoard.columns is of type Top
- Bad: SameGameBoard.actionSelector is of type Top
- Good: SameGameBoard.selectionColor is of type UndefinedObject
- Good: SameGameBoard.flash is of type { True UndefinedObject False }
- Good: SameGameBoard.arguments is of type { UndefinedObject Array }
- Bad: SameGameBoard.rows is of type Top
- Bad: SameGameBoard.protoTile is of type Top
- Bad: SameGameBoard.flashColor is of type Top
- Good: SameGameBoard.selection is of type UndefinedObject

- Bad: SameGameTile.oldSwitchState is of type Top
- Bad: SameGameTile.switchState is of type Top
- Good: SameGameTile.disabled is of type { True UndefinedObject False }
- Good: Tetris.scoreDisplay is of type { LedMorph UndefinedObject }
- Good: Tetris.board is of type { UndefinedObject TetrisBoard }
- Bad: TetrisBlock.shapeInfo is of type Top
- Good: TetrisBlock.board is of type { UndefinedObject TetrisBoard }
- Bad: TetrisBlock.angle is of type Top
- Bad: TetrisBlock.baseCellNumber is of type Top
- Good: TetrisBoard.game is of type { UndefinedObject Tetris }
- Good: TetrisBoard.gameOver is of type { True UndefinedObject False }
- Bad: TetrisBoard.score is of type Top
- Good: TetrisBoard.paused is of type { True UndefinedObject False }
- Bad: TetrisBoard.delay is of type Top
- Good: TetrisBoard.currentBlock is of type { TetrisBlock UndefinedObject }
- Bad: WordGameLetterMorph.predecessor is of type Top
- Good: WordGameLetterMorph.lineMorph is of type { UndefinedObject PolygonMorph }
- Good: WordGameLetterMorph.style is of type { UndefinedObject #underlined #boxed #plain }
- Good: WordGameLetterMorph.letterMorph is of type { StringMorph UndefinedObject }
- Bad: WordGameLetterMorph.letter is of type Top
- Good: WordGameLetterMorph.originalLetter is of type UndefinedObject
- Bad: WordGameLetterMorph.successor is of type Top
- Bad: WordGameLetterMorph.indexInQuote is of type Top
- Good: WordGameLetterMorph.linkedLetters is of type UndefinedObject
- Bad: WordGamePanelMorph.letterMorphs is of type Top

- Good: WordGamePanelMorph.haveTypedHere is of type { True UndefinedObject False }
- Good: CategoriesFile.categories is of type { UndefinedObject Dictionary }
- Bad: Celeste.currentMessages is of type Top
- Bad: Celeste.customFilterBlock is of type Top
- Bad: Celeste.status is of type Top
- Bad: Celeste.userPassword is of type Top
- Bad: Celeste.currentMsgID is of type Top
- Bad: Celeste.mailDB is of type Top
- Bad: Celeste.currentCategory is of type Top
- Bad: Celeste.lastCategory is of type Top
- Bad: Celeste.lastCategoryList is of type Top
- Good: Celeste.dateFilter is of type UndefinedObject
- Bad: Celeste.currentTOC is of type Top
- Bad: Celeste.fromFilter is of type Top
- Good: Celeste.formatMessages is of type UndefinedObject
- Bad: Celeste.lastCategoryMenu is of type Top
- Bad: Celeste.messageTextView is of type Top
- Bad: Celeste.subjectFilter is of type Top
- Bad: CelesteComposition.textEditor is of type Top
- Bad: CelesteComposition.celeste is of type Top
- Bad: CelesteComposition.messageText is of type Top
- Good: CelesteComposition.morphicWindow is of type { AlignmentMorphBob1 UndefinedObject SystemWindow }
- Good: CelesteComposition.mvcWindow is of type { StandardSystemView UndefinedObject }
- Good: CelesteComposition.attachmentSeparator is of type UndefinedObject
- Bad: FancyCelesteComposition.theLinkToInclude is of type Top

- Bad: FancyCelesteComposition.to is of type Top
- Bad: FancyCelesteComposition.subject is of type Top
- Good: FancyCelesteComposition.textFields is of type { UndefinedObject Array }
- Good: IndexFile.msgDictionary is of type { PluggableDictionary UndefinedObject }
- Good: IndexFile.logfile is of type { UndefinedObject StandardFileStream }
- Good: IndexFile.timeSortedEntries is of type { UndefinedObject SortedCollection }
- Bad: IndexFileEntry.time is of type Top
- Bad: IndexFileEntry.msgID is of type Top
- Bad: IndexFileEntry.messageFile is of type Top
- Bad: IndexFileEntry.cc is of type Top
- Bad: IndexFileEntry.tocLineCache is of type Top
- Bad: IndexFileEntry.location is of type Top
- Bad: IndexFileEntry.to is of type Top
- Bad: IndexFileEntry.textLength is of type Top
- Bad: IndexFileEntry.subject is of type Top
- Bad: IndexFileEntry.from is of type Top
- Good: MIMEHeaderValue.mainValue is of type { String++ UndefinedObject Character }
- Good: MIMEHeaderValue.parameters is of type { UndefinedObject Dictionary }
- Bad: MIMEPart.content is of type Top
- Bad: MIMEPart.parts is of type Top
- Bad: MIMEPart.separator is of type Top
- Bad: MIMEPart.text is of type Top
- Good: MIMEPart.fields is of type { UndefinedObject Dictionary }
- Bad: MailDB.rootFilename is of type Top

- Bad: MailDB.indexFile is of type Top
- Bad: MailDB.messageFile is of type Top
- Bad: MailDB.categoriesFile is of type Top
- Bad: MailDBFile.filename is of type Top
- Good: MailMessage.time is of type { UndefinedObject SmallInteger }
- Bad: MailMessage.separator is of type Top
- Bad: MailMessage.cc is of type Top
- Good: MailMessage.body is of type { UndefinedObject MIMEDocument }
- Bad: MailMessage.to is of type Top
- Bad: MailMessage.text is of type Top
- Bad: MailMessage.subject is of type Top
- Good: MailMessage.fields is of type { UndefinedObject Dictionary }
- Bad: MailMessage.from is of type Top
- Bad: MailMessage.parts is of type Top
- Bad: MailNotifier.lastConnectTime is of type Top
- Bad: MailNotifier.messageCount is of type Top
- Good: MailNotifier.password is of type UndefinedObject
- Good: MailNotifier.socket is of type { UndefinedObject POPSocket }
- Good: MessageFile.file is of type { CrLfFileStream UndefinedObject }
- Bad: ReadNewsInboxFile.currentNewsgroup is of type Top
- Good: ReadNewsInboxFile.msgBuffer is of type { UndefinedObject WriteStream }
- Bad: TextMessageLink.message is of type Top
- Bad: RBAssignmentNode.variable is of type Top
- Bad: RBAssignmentNode.assignment is of type Top
- Bad: RBAssignmentNode.value is of type Top
- Good: RBBlockNode.colons is of type { UndefinedObject OrderedCollection }

- Bad: RBBlockNode.bar is of type Top
- Bad: RBBlockNode.right is of type Top
- Bad: RBBlockNode.left is of type Top
- Bad: RBBlockNode.body is of type Top
- Bad: RBBlockNode.arguments is of type Top
- Bad: RBCascadeNode.messages is of type Top
- Good: RBCascadeNode.semicolons is of type { UndefinedObject OrderedCollection }
- Good: RBFormatter.codeStream is of type { UndefinedObject WriteStream }
- Bad: RBFormatter.lineStart is of type Top
- Bad: RBFormatter.firstLineLength is of type Top
- Bad: RBFormatter.tabs is of type Top
- Bad: RBLiteralNode.token is of type Top
- Bad: RBMessageNode.arguments is of type Top
- Bad: RBMessageNode.receiver is of type Top
- Bad: RBMessageNode.selector is of type Top
- Bad: RBMessageNode.selectorParts is of type Top
- Good: RBMethodNode.tags is of type UndefinedObject
- Bad: RBMethodNode.selector is of type Top
- Bad: RBMethodNode.selectorParts is of type Top
- Bad: RBMethodNode.body is of type Top
- Bad: RBMethodNode.source is of type Top
- Bad: RBMethodNode.arguments is of type Top
- Bad: RBOptimizedNode.body is of type Top
- Bad: RBOptimizedNode.right is of type Top
- Bad: RBOptimizedNode.left is of type Top
- Good: RBParser.scanner is of type { RBScanner UndefinedObject }
- Good: RBParser.tags is of type UndefinedObject

- Bad: RBParser.source is of type Top
- Good: RBParser.emptyStatements is of type { True UndefinedObject False }
- Bad: RBParser.currentToken is of type Top
- Good: RBParser.negatedNumbers is of type { True UndefinedObject False }
- Good: RBParser.errorBlock is of type { UndefinedObject a BlockType }
- Bad: RBParser.nextToken is of type Top
- Good: RBPatternMessageNode.isCascadeList is of type { True UndefinedObject False }
- Good: RBPatternMessageNode.isList is of type { True UndefinedObject False }
- Good: RBPatternMethodNode.isList is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.recurseInto is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isLiteral is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isStatement is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isAnything is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isList is of type { True UndefinedObject False }
- Bad: RBProgramNode.parent is of type Top
- Bad: RBProgramNode.comments is of type Top
- Bad: RBReturnNode.return is of type Top
- Bad: RBReturnNode.value is of type Top
- Bad: RBSequenceNode.rightBar is of type Top

- Good: RBSequenceNode.periods is of type { UndefinedObject OrderedCollection }
- Bad: RBSequenceNode.temporaries is of type Top
- Bad: RBSequenceNode.statements is of type Top
- Bad: RBSequenceNode.leftBar is of type Top
- Good: RBValueNode.parentheses is of type { UndefinedObject OrderedCollection }
- Bad: RBVariableNode.token is of type Top
- Bad: BitBltSimulation.sy is of type Top
- Bad: BitBltSimulation.halftoneBase is of type Top
- Bad: BitBltSimulation.cmBlueShift is of type Top
- Bad: BitBltSimulation.destWidth is of type Top
- Bad: BitBltSimulation.destX is of type Top
- Bad: BitBltSimulation.width is of type Top
- Bad: BitBltSimulation.scanString is of type Top
- Bad: BitBltSimulation.sourceBits is of type Top
- Bad: BitBltSimulation.scanStop is of type Top
- Bad: BitBltSimulation.dy is of type Top
- Good: BitBltSimulation.warpBitShiftTable is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.destPixSize is of type Top
- Bad: BitBltSimulation.pixPerWord is of type Top
- Good: BitBltSimulation.ditherValues16 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.cmRedMask is of type Top
- Bad: BitBltSimulation.warpSrcMask is of type Top
- Bad: BitBltSimulation.dstBitShift is of type Top
- Bad: BitBltSimulation.destIndex is of type Top
- Bad: BitBltSimulation.sourceIndex is of type Top
- Bad: BitBltSimulation.clipX is of type Top

- Good: BitBltSimulation.hDir is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.nWords is of type Top
- Bad: BitBltSimulation.clipHeight is of type Top
- Bad: BitBltSimulation.bitBltOop is of type Top
- Bad: BitBltSimulation.preload is of type Top
- Bad: BitBltSimulation.opTable is of type Top
- Bad: BitBltSimulation.sourceForm is of type Top
- Bad: BitBltSimulation.warpAlignMask is of type Top
- Bad: BitBltSimulation.skew is of type Top
- Bad: BitBltSimulation.cmDeltaBits is of type Top
- Good: BitBltSimulation.ditherMatrix4x4 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.sourceY is of type Top
- Bad: BitBltSimulation.scanStart is of type Top
- Bad: BitBltSimulation.cmGreenShift is of type Top
- Bad: BitBltSimulation.destBits is of type Top
- Bad: BitBltSimulation.destPitch is of type Top
- Bad: BitBltSimulation.height is of type Top
- Bad: BitBltSimulation.sourcePitch is of type Top
- Bad: BitBltSimulation.destY is of type Top
- Bad: BitBltSimulation.affectedL is of type Top
- Good: BitBltSimulation.maskTable is of type { UndefinedObject Array }
- Good: BitBltSimulation.scanDisplayFlag is of type { True UndefinedObject False }
- Bad: BitBltSimulation.mask1 is of type Top
- Bad: BitBltSimulation.destDelta is of type Top
- Good: BitBltSimulation.noHalftone is of type { True UndefinedObject False }
- Bad: BitBltSimulation.clipWidth is of type Top

- Bad: BitBltSimulation.destForm is of type Top
- Bad: BitBltSimulation.sx is of type Top
- Bad: BitBltSimulation.clipY is of type Top
- Bad: BitBltSimulation.scanRightX is of type Top
- Bad: BitBltSimulation.cmBlueMask is of type Top
- Bad: BitBltSimulation.halftoneHeight is of type Top
- Bad: BitBltSimulation.affectedT is of type Top
- Bad: BitBltSimulation.sourcePixSize is of type Top
- Bad: BitBltSimulation.cmRedShift is of type Top
- Good: BitBltSimulation.noSource is of type { True UndefinedObject False }
- Bad: BitBltSimulation.dx is of type Top
- Bad: BitBltSimulation.destMask is of type Top
- Bad: BitBltSimulation.affectedB is of type Top
- Bad: BitBltSimulation.cmGreenMask is of type Top
- Good: BitBltSimulation.hasSurfaceLock is of type { True UndefinedObject False }
- Bad: BitBltSimulation.stopCode is of type Top
- Bad: BitBltSimulation.combinationRule is of type Top
- Bad: BitBltSimulation.bitCount is of type Top
- Good: BitBltSimulation.vDir is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.destHeight is of type Top
- Good: BitBltSimulation.cmBitsPerColor is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.bbH is of type Top
- Bad: BitBltSimulation.bbW is of type Top
- Bad: BitBltSimulation.srcWidth is of type Top
- Bad: BitBltSimulation.affectedR is of type Top

- Good: BitBltSimulation.ditherThresholds16 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.sourceDelta is of type Top
- Bad: BitBltSimulation.warpSrcShift is of type Top
- Bad: BitBltSimulation.halftoneForm is of type Top
- Bad: BitBltSimulation.mask2 is of type Top
- Bad: BitBltSimulation.scanXTable is of type Top
- Bad: BitBltSimulation.scanStopArray is of type Top
- Bad: BitBltSimulation.sourceAlpha is of type Top
- Bad: BitBltSimulation.colorMap is of type Top
- Bad: BitBltSimulation.warpAlignShift is of type Top
- Bad: BitBltSimulation.sourceX is of type Top
- Bad: BitBltSimulation.srcBitShift is of type Top
- Bad: BitBltSimulation.srcHeight is of type Top
- Bad: Interpreter.activeContext is of type Top
- Bad: Interpreter.nextWakeupTick is of type Top
- Bad: Interpreter.localIP is of type Top
- Bad: Interpreter.localHomeContext is of type Top
- Good: Interpreter.methodCache is of type { UndefinedObject Array }
- Bad: Interpreter.interruptKeycode is of type Top
- Bad: Interpreter.semaphoresToSignalCountA is of type Top
- Bad: Interpreter.interruptCheckCounterFeedBackReset is of type Top
- Good: Interpreter.interpreterVersion is of type UndefinedObject
- Good: Interpreter.obsoleteNamedPrimitiveTable is of type { CArrayAccessor UndefinedObject }
- Good: Interpreter.interpreterProxy is of type { UndefinedObject InterpreterSimulator InterpreterSimulatorMSB InterpreterSimulatorLSB }
- Bad: Interpreter.receiver is of type Top
- Bad: Interpreter.stackPointer is of type Top

- Bad: Interpreter.receiverClass is of type Top
- Good: Interpreter.obsoleteIndexedPrimitiveTable is of type { CArrayAccessor UndefinedObject }
- Bad: Interpreter.successFlag is of type Top
- Good: Interpreter.compilerHooks is of type UndefinedObject
- Bad: Interpreter.fullScreenFlag is of type Top
- Bad: Interpreter.primitiveIndex is of type Top
- Good: Interpreter.semaphoresToSignalB is of type { UndefinedObject Array }
- Bad: Interpreter.compilerInitialized is of type Top
- Bad: Interpreter.localSP is of type Top
- Bad: Interpreter.instructionPointer is of type Top
- Good: Interpreter.semaphoresUseBufferA is of type { True UndefinedObject False }
- Good: Interpreter.deferDisplayUpdates is of type { True UndefinedObject False }
- Bad: Interpreter.theHomeContext is of type Top
- Bad: Interpreter.extraVMMemory is of type Top
- Bad: Interpreter.method is of type Top
- Bad: Interpreter.pendingFinalizationSignals is of type Top
- Bad: Interpreter.newMethod is of type Top
- Good: Interpreter.semaphoresToSignalA is of type { UndefinedObject Array }
- Bad: Interpreter.methodClass is of type Top
- Bad: Interpreter.newNativeMethod is of type Top
- Good: Interpreter.atCache is of type { UndefinedObject Array }
- Bad: Interpreter.argumentCount is of type Top
- Bad: Interpreter.currentBytecode is of type Top
- Good: Interpreter.interruptPending is of type { False UndefinedObject }

- Good: Interpreter.interruptChecksEveryNms is of type { UndefinedObject SmallInteger }
- Bad: Interpreter.nextPollTick is of type Top
- Bad: Interpreter.lkupClass is of type Top
- Bad: Interpreter.reclaimableContextCount is of type Top
- Bad: Interpreter.savedWindowSize is of type Top
- Bad: Interpreter.lastTick is of type Top
- Bad: Interpreter.semaphoresToSignalCountB is of type Top
- Bad: Interpreter.messageSelector is of type Top
- Bad: Interpreter.showSurfaceFn is of type Top
- Good: InterpreterSimulator.myBitBlt is of type { False UndefinedObject BitBltSimulator }
- Good: InterpreterSimulator.traceOn is of type { UndefinedObject True }
- Bad: InterpreterSimulator.imageName is of type Top
- Good: InterpreterSimulator.pluginList is of type { UndefinedObject Array }
- Bad: InterpreterSimulator.sendCount is of type Top
- Good: InterpreterSimulator.displayForm is of type { Form UndefinedObject }
- Bad: InterpreterSimulator.mappedPluginEntries is of type Top
- Good: InterpreterSimulator.filesOpen is of type { UndefinedObject OrderedCollection }
- Bad: InterpreterSimulator.byteCount is of type Top
- Good: ObjectMemory.signalLowSpace is of type { True UndefinedObject False }
- Bad: ObjectMemory.tenuringThreshold is of type Top
- Bad: ObjectMemory.lastHash is of type Top
- Bad: ObjectMemory.statIncrGCMSecs is of type Top
- Good: ObjectMemory.remapBuffer is of type { UndefinedObject Array }
- Bad: ObjectMemory.trueObj is of type Top

- Bad: ObjectMemory.statFullGCMSecs is of type Top
- Bad: ObjectMemory.freeLargeContexts is of type Top
- Bad: ObjectMemory.lowSpaceThreshold is of type Top
- Bad: ObjectMemory.allocationsBetweenGCs is of type Top
- Bad: ObjectMemory.interruptCheckCounter is of type Top
- Bad: ObjectMemory.freeContexts is of type Top
- Bad: ObjectMemory.compStart is of type Top
- Bad: ObjectMemory.youngStart is of type Top
- Bad: ObjectMemory.compEnd is of type Top
- Bad: ObjectMemory.totalObjectFoundAtStartup is of type Top
- Bad: ObjectMemory.memoryLimit is of type Top
- Bad: ObjectMemory.endOfMemory is of type Top
- Bad: ObjectMemory.specialObjectsOop is of type Top
- Bad: ObjectMemory.statFullGCs is of type Top
- Bad: ObjectMemory.statTenures is of type Top
- Bad: ObjectMemory.nilObj is of type Top
- Bad: ObjectMemory.child is of type Top
- Bad: ObjectMemory.fwdTableLast is of type Top
- Bad: ObjectMemory.fwdTableNext is of type Top
- Bad: ObjectMemory.rootTableCount is of type Top
- Bad: ObjectMemory.allocationCount is of type Top
- Bad: ObjectMemory.falseObj is of type Top
- Bad: ObjectMemory.remapBufferCount is of type Top
- Bad: ObjectMemory.parentField is of type Top
- Bad: ObjectMemory.field is of type Top
- Good: ObjectMemory.memory is of type { Interpreter UndefinedObject InterpreterSimulatorMSB InterpreterSimulatorLSB Bitmap InterpreterSimulator }
- Bad: ObjectMemory.freeBlock is of type Top

- Bad: ObjectMemory.statRootTableOverflows is of type Top
- Good: ObjectMemory.rootTable is of type { UndefinedObject Array }
- Bad: ObjectMemory.statIncrGCs is of type Top
- Good: ObjectMemory.displayBits is of type { UndefinedObject SmallInteger }
- Bad: SystemMonitor.vmParameters is of type Top
- Bad: SystemMonitor.gcHighWaterMark is of type Top
- Bad: SystemMonitor.baselineSkip is of type Top
- Bad: SystemMonitor.prevAllocCount is of type Top
- Bad: SystemMonitor.prevDeltaIncrGC is of type Top
- Bad: SystemMonitor.prevMcMiss is of type Top
- Bad: SystemMonitor.window is of type Top
- Bad: SystemMonitor.prevDeltaFullGC is of type Top
- Bad: SystemMonitor.prevFullGC is of type Top
- Good: SystemMonitor.valSelectors is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevIncrGC is of type Top
- Bad: SystemMonitor.prevMsClock is of type Top
- Good: SystemMonitor.maxValues is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevAllocRate is of type Top
- Bad: SystemMonitor.gcLowWaterMark is of type Top
- Good: SystemMonitor.labels is of type { UndefinedObject Array }
- Good: SystemMonitor.minValues is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevIcHit is of type Top
- Bad: SystemMonitor.prevMcHit is of type Top
- Good: SystemTracer.hashGenerator is of type { Random UndefinedObject }
- Bad: SystemTracer.maxOop is of type Top
- Good: SystemTracer.map is of type UndefinedObject
- Good: SystemTracer.initialProcess is of type UndefinedObject

- Good: SystemTracer.oopMap is of type { UndefinedObject Array }
- Bad: SystemTracer.specialObjects is of type Top
- Good: SystemTracer.file is of type { CrLfFileStream UndefinedObject }
- Good: SystemTracer.cleaningUp is of type { False UndefinedObject }
- Good: SystemTracer.writeDict is of type { UndefinedObject Dictionary }
- Good: SystemTracer.imageHeaderSize is of type { UndefinedObject SmallInteger }
- Good: SystemTracer.compactClasses is of type { UndefinedObject Array }
- Good: SystemTracer.replacementClasses is of type { UndefinedObject Dictionary }
- Bad: Browser.classOrganizer is of type Top
- Bad: Browser.systemOrganizer is of type Top
- Bad: Browser.messageListIndex is of type Top
- Bad: Browser.messageCategoryListIndex is of type Top
- Bad: Browser.editSelection is of type Top
- Bad: Browser.metaClassOrganizer is of type Top
- Bad: Browser.systemCategoryListIndex is of type Top
- Bad: Browser.metaClassIndicated is of type Top
- Bad: Browser.classListIndex is of type Top
- Bad: ChangedMessageSet.changeSet is of type Top
- Bad: HierarchyBrowser.centralClass is of type Top
- Bad: HierarchyBrowser.classList is of type Top
- Bad: MessageSet.messageList is of type Top
- Bad: MessageSet.autoSelectString is of type Top
- Bad: PackageBrowser.package is of type Top
- Bad: PackageBrowser.packageListIndex is of type Top
- Good: PackageBrowser.packageList is of type UndefinedObject
- Good: ProtocolBrowser.selectedClass is of type UndefinedObject

- Bad: ProtocolBrowser.selectedSelector is of type Top
- Bad: SelectorBrowser.classListIndex is of type Top
- Bad: SelectorBrowser.classList is of type Top
- Bad: SelectorBrowser.selectorIndex is of type Top
- Bad: SelectorBrowser.selectorList is of type Top
- Bad: PDA.recurringEvents is of type Top
- Good: PDA.peopleList is of type { ArrayedCollection++ UndefinedObject }
- Bad: PDA.date is of type Top
- Good: PDA.dateButtonPressed is of type UndefinedObject
- Bad: PDA.allEvents is of type Top
- Bad: PDA.category is of type Top
- Bad: PDA.currentItem is of type Top
- Bad: PDA.scheduleList is of type Top
- Good: PDA.categoryListIndex is of type UndefinedObject
- Bad: PDA.allPeople is of type Top
- Bad: PDA.scheduleListIndex is of type Top
- Bad: PDA.allToDoItems is of type Top
- Bad: PDA.allNotes is of type Top
- Bad: PDA.notesListIndex is of type Top
- Good: PDA.currentItemSelection is of type UndefinedObject
- Good: PDA.categoryList is of type UndefinedObject
- Bad: PDA.toDoList is of type Top
- Bad: PDA.toDoListIndex is of type Top
- Bad: PDA.peopleListIndex is of type Top
- Good: PDA.notesList is of type { ArrayedCollection++ UndefinedObject }
- Good: PDA.currentItemText is of type UndefinedObject
- Bad: PDA.userCategories is of type Top

- Good: PDA.viewDescriptionOnly is of type { True UndefinedObject False }
- Bad: PDAChoiceMorph.backgroundColor is of type Top
- Bad: PDAClockMorph.backgroundColor is of type Top
- Bad: PDAEvent.time is of type Top
- Bad: PDAEvent.date is of type Top
- Bad: PDAEvent.duration is of type Top
- Good: PDAEvent.alarm is of type UndefinedObject
- Bad: PDAPerson.name is of type Top
- Bad: PDAPerson.address is of type Top
- Good: PDAPerson.phone is of type { String UndefinedObject }
- Good: PDAPerson.email is of type { String UndefinedObject }
- Bad: PDARecord.description is of type Top
- Bad: PDARecord.key is of type Top
- Good: PDARecord.otherFields is of type { UndefinedObject Dictionary }
- Good: PDARecurringEvent.recurrence is of type { UndefinedObject #dayOfMonth #nthWeekdayOfMonthEachYear #dayOfWeek #dateOfYear }
- Bad: PDARecurringEvent.firstDate is of type Top
- Bad: PDARecurringEvent.lastDate is of type Top
- Good: PDAToDoItem.deadline is of type UndefinedObject
- Bad: PDAToDoItem.result is of type Top
- Bad: PDAToDoItem.dayDone is of type Top
- Bad: PDAToDoItem.dayPosted is of type Top
- Bad: PDAToDoItem.priority is of type Top
- Bad: TestInterfaceBase.duration is of type Top
- Bad: TestInterfaceBase.classPattern is of type Top
- Bad: TestInterfaceBase.result is of type Top
- Bad: TestInterfaceBase.selectorPattern is of type Top

- Bad: TestModel.failureList is of type Top
- Bad: TestModel.patternHistory is of type Top
- Bad: TestModel.errorList is of type Top
- Bad: TestModel.summaryText is of type Top
- Bad: TestModel.summaryTextM is of type { PluggableTextMorph++ PluggableTextView UndefinedObject }
- Good: TestModel.summaryTextV is of type { PluggableTextView UndefinedObject }
- Good: TestModel.updateColorSelector is of type { UndefinedObject #updateColorM #updateColorV }
- Good: TestModel.patternTextV is of type { PluggableTextView UndefinedObject }
- Bad: TestModel.patternTextM is of type { PluggableTextMorph++ PluggableTextView UndefinedObject }
- Bad: TestModel.detailsText is of type Top

4.2 Threshold of 150

- Bad: ADPCMCodec.index is of type Top
- Good: ADPCMCodec.indexTable is of type { Array UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.deltaSignMask is of type Top
- Bad: ADPCMCodec.bitPosition is of type Top
- Bad: ADPCMCodec.encodedBytes is of type Top
- Good: ADPCMCodec.stepSizeTable is of type { Array UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.sampleIndex is of type Top
- Good: ADPCMCodec.rightSamples is of type { UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.byteIndex is of type Top
- Bad: ADPCMCodec.frameSizeMask is of type Top
- Bad: ADPCMCodec.bitsPerSample is of type Top
- Bad: ADPCMCodec.predicted is of type Top

- Bad: ADPCMCodec.deltaValueHighBit is of type Top
- Bad: ADPCMCodec.deltaValueMask is of type Top
- Bad: ADPCMCodec.currentByte is of type Top
- Bad: ADPCMCodec.samples is of type Top
- Good: AIFFFileReader.channelData is of type { UndefinedObject Array }
- Bad: AIFFFileReader.frameCount is of type Top
- Bad: AIFFFileReader.isLooped is of type Top
- Bad: AIFFFileReader.gain is of type Top
- Bad: AIFFFileReader.in is of type Top
- Bad: AIFFFileReader.fileType is of type Top
- Bad: AIFFFileReader.pitch is of type Top
- Good: AIFFFileReader.markers is of type { UndefinedObject Array }
- Bad: AIFFFileReader.channelCount is of type Top
- Bad: AIFFFileReader.bitsPerSample is of type Top
- Good: AIFFFileReader.mergeIfStereo is of type { True UndefinedObject False }
- Good: AIFFFileReader.skipDataChunk is of type { True UndefinedObject False }
- Bad: AIFFFileReader.samplingRate is of type Top
- Bad: AbstractSound.envelopes is of type Top
- Bad: AbstractSound.mSecsSinceStart is of type Top
- Bad: AbstractSound.scaledVolLimit is of type Top
- Bad: AbstractSound.scaledVol is of type Top
- Bad: AbstractSound.samplesUntilNextControl is of type Top
- Bad: AbstractSound.scaledVolIncr is of type Top
- Bad: CompressedSoundData.perceivedPitch is of type Top
- Bad: CompressedSoundData.codecName is of type Top
- Good: CompressedSoundData.channels is of type { UndefinedObject Array }

- Bad: CompressedSoundData.gain is of type Top
- Bad: CompressedSoundData.firstSample is of type Top
- Bad: CompressedSoundData.soundClassName is of type Top
- Bad: CompressedSoundData.cachedSound is of type { WaveletCodec MuLawCodec ADPCMCodec SoundCodec UndefinedObject LoopedSampledSound GSMCodec SampledSound }
- Bad: CompressedSoundData.loopLength is of type Top
- Bad: CompressedSoundData.samplingRate is of type Top
- Bad: CompressedSoundData.loopEnd is of type Top
- Bad: Envelope.target is of type Top
- Good: Envelope.scale is of type { UndefinedObject Float }
- Good: Envelope.updateSelector is of type { UndefinedObject #pitch: #modulation: #ratio: }
- Bad: Envelope.loopEndMSecs is of type { Magnitude++ UndefinedObject }
- Bad: Envelope.endMSecs is of type Top
- Bad: Envelope.currValue is of type Top
- Bad: Envelope.loopStartIndex is of type Top
- Bad: Envelope.valueIncr is of type Top
- Good: Envelope.noChangesDuringLoop is of type { True UndefinedObject False }
- Bad: Envelope.nextRecomputeTime is of type Top
- Bad: Envelope.loopEndIndex is of type Top
- Bad: Envelope.loopMSecs is of type Top
- Bad: Envelope.loopStartMSecs is of type Top
- Bad: Envelope.decayScale is of type Top
- Bad: Envelope.points is of type Top
- Bad: Envelope.lastValue is of type Top
- Bad: FFT.permTable is of type Top
- Bad: FFT.nu is of type Top

- Bad: FFT.n is of type Top
- Good: FFT.sinTable is of type { Array UndefinedObject FloatArray }
- Bad: FFT.imagData is of type Top
- Good: FFT.window is of type { UndefinedObject FloatArray }
- Bad: FFT.realData is of type Top
- Bad: FMSound.initialCount is of type Top
- Bad: FMSound.multiplier is of type Top
- Bad: FMSound.scaledOffsetIndex is of type Top
- Bad: FMSound.waveTable is of type Top
- Bad: FMSound.scaledWaveTableSize is of type Top
- Bad: FMSound.scaledIndex is of type Top
- Bad: FMSound.normalizedModulation is of type Top
- Bad: FMSound.scaledOffsetIndexIncr is of type Top
- Bad: FMSound.modulation is of type Top
- Bad: FMSound.scaledIndexIncr is of type Top
- Bad: FMSound.count is of type Top
- Good: FWT.transform is of type { UndefinedObject Array }
- Bad: FWT.beta is of type Top
- Good: FWT.gTilde is of type { UndefinedObject Array }
- Bad: FWT.coeffs is of type Top
- Bad: FWT.g is of type Top
- Bad: FWT.nSamples is of type Top
- Bad: FWT.nLevels is of type Top
- Bad: FWT.alpha is of type Top
- Bad: FWT.h is of type Top
- Good: FWT.samples is of type { UndefinedObject Array }
- Bad: FWT.hTilde is of type Top
- Bad: GSMCodec.encodeState is of type Top

- Bad: GSMCodec.decodeState is of type Top
- Bad: LoopedSampledSound.initialCount is of type Top
- Bad: LoopedSampledSound.perceivedPitch is of type Top
- Bad: LoopedSampledSound.scaledLoopLength is of type Top
- Bad: LoopedSampledSound.lastSample is of type Top
- Bad: LoopedSampledSound.gain is of type Top
- Bad: LoopedSampledSound.scaledIndexIncr is of type Top
- Bad: LoopedSampledSound.releaseCount is of type Top
- Bad: LoopedSampledSound.firstSample is of type Top
- Bad: LoopedSampledSound.sampleCountForRelease is of type Top
- Bad: LoopedSampledSound.rightSamples is of type Top
- Bad: LoopedSampledSound.leftSamples is of type Top
- Bad: LoopedSampledSound.scaledIndex is of type Top
- Bad: LoopedSampledSound.originalSamplingRate is of type Top
- Bad: LoopedSampledSound.count is of type Top
- Bad: LoopedSampledSound.loopEnd is of type Top
- Good: MixedSound.soundDone is of type { UndefinedObject Array }
- Good: MixedSound.sounds is of type { UndefinedObject Array }
- Bad: MixedSound.leftVols is of type Top
- Bad: MixedSound.rightVols is of type Top
- Good: PitchEnvelope.centerPitch is of type UndefinedObject
- Bad: PluckedSound.initialCount is of type Top
- Bad: PluckedSound.ring is of type Top
- Bad: PluckedSound.scaledIndexLimit is of type Top
- Bad: PluckedSound.scaledIndex is of type Top
- Bad: PluckedSound.scaledIndexIncr is of type Top
- Bad: PluckedSound.count is of type Top
- Good: RandomEnvelope.rand is of type { Random UndefinedObject }

- Good: RandomEnvelope.highLimit is of type { UndefinedObject Float }
- Good: RandomEnvelope.lowLimit is of type { UndefinedObject Float }
- Good: RandomEnvelope.delta is of type { UndefinedObject Float }
- Bad: RepeatingSound.iteration is of type Top
- Good: RepeatingSound.iterationCount is of type { SmalltalkInterchangeFileInManager++ SmallInteger UndefinedObject False #forever }
- Bad: RepeatingSound.sound is of type Top
- Bad: RepeatingSound.samplesPerIteration is of type Top
- Bad: RestSound.initialCount is of type Top
- Bad: RestSound.count is of type Top
- Good: ReverbSound.tapGains is of type { UndefinedObject Bitmap }
- Good: ReverbSound.bufferSize is of type { Bitmap LargeNegativeInteger LargePositiveInteger UndefinedObject SmallInteger }
- Good: ReverbSound.rightBuffer is of type { UndefinedObject SoundBuffer }
- Good: ReverbSound.leftBuffer is of type { UndefinedObject SoundBuffer }
- Good: ReverbSound.tapCount is of type { UndefinedObject SmallInteger }
- Good: ReverbSound.tapDelays is of type { UndefinedObject Bitmap }
- Bad: ReverbSound.bufferIndex is of type Top
- Good: ReverbSound.sound is of type UndefinedObject
- Bad: SampledInstrument.sustainedSoft is of type Top
- Bad: SampledInstrument.staccatoSoft is of type Top
- Bad: SampledInstrument.staccatoLoud is of type Top
- Good: SampledInstrument.sustainedThreshold is of type { UndefinedObject Float }
- Bad: SampledInstrument.sustainedLoud is of type Top
- Good: SampledInstrument.loudThreshold is of type { UndefinedObject Float }

- Bad: SampledSound.initialCount is of type Top
- Bad: SampledSound.samples is of type Top
- Bad: SampledSound.scaledIncrement is of type Top
- Bad: SampledSound.scaledIndex is of type Top
- Bad: SampledSound.indexHighBits is of type Top
- Bad: SampledSound.samplesSize is of type Top
- Bad: SampledSound.originalSamplingRate is of type Top
- Bad: SampledSound.count is of type Top
- Good: SequentialSound.sounds is of type { UndefinedObject Array }
- Bad: SequentialSound.currentIndex is of type Top
- Bad: Sonogram.lastX is of type Top
- Good: Sonogram.pixValMap is of type { UndefinedObject Bitmap }
- Good: Sonogram.maxVal is of type { UndefinedObject Float }
- Good: Sonogram.minVal is of type { UndefinedObject Float }
- Good: Sonogram.scrollDelta is of type { UndefinedObject SmallInteger }
- Good: Sonogram.columnForm is of type { Form UndefinedObject }
- Bad: SoundInputStream.mutex is of type Top
- Bad: SoundInputStream.bufferSize is of type Top
- Bad: SoundRecorder.currentBuffer is of type Top
- Bad: SoundRecorder.recordProcess is of type Top
- Good: SoundRecorder.codec is of type { GSMCodec UndefinedObject }
- Good: SoundRecorder.desiredSampleRate is of type { UndefinedObject Float }
- Bad: SoundRecorder.nextIndex is of type Top
- Good: SoundRecorder.meteringBuffer is of type { UndefinedObject SoundBuffer }
- Bad: SoundRecorder.meterLevel is of type Top
- Good: SoundRecorder.stereo is of type { False UndefinedObject }
- Good: SoundRecorder.recordLevel is of type { UndefinedObject Float }

- Good: SoundRecorder.soundPlaying is of type { SampledSound SequentialSound UndefinedObject ChatRecorder SoundInputStream SoundRecorder }
- Bad: SoundRecorder.recordedBuffers is of type Top
- Good: SoundRecorder.paused is of type { True UndefinedObject False }
- Bad: SoundRecorder.samplingRate is of type Top
- Good: SoundRecorder.recordedSound is of type { SampledSound SequentialSound UndefinedObject SoundInputStream ChatRecorder SoundRecorder }
- Good: SoundRecorder.bufferAvailableSema is of type { Semaphore UndefinedObject }
- Bad: VolumeEnvelope.mSecsForChange is of type { Magnitude++ UndefinedObject }
- Bad: VolumeEnvelope.targetVol is of type Top
- Good: VolumeEnvelope.currentVol is of type UndefinedObject
- Bad: WaveletCodec.alpha is of type Top
- Bad: WaveletCodec.beta is of type Top
- Good: WaveletCodec.fwt is of type { FWT UndefinedObject }
- Bad: WaveletCodec.samplesPerFrame is of type Top
- Bad: WaveletCodec.nLevels is of type Top
- Bad: IRCChannelInfo.name is of type Top
- Bad: IRCChannelInfo.topic is of type Top
- Good: IRCChannelInfo.subscribers is of type { IdentitySet UndefinedObject }
- Good: IRCChannelInfo.members is of type { Set UndefinedObject }
- Good: IRCChannelInfo.connection is of type { IRCConnection UndefinedObject }
- Good: IRCChannelListBrowser.channelIndex is of type { UndefinedObject SmallInteger }
- Bad: IRCChannelListBrowser.channelList is of type Top
- Good: IRCChannelListBrowser.sortCriterion is of type { UndefinedObject #name }

- Bad: IRCChannelListBrowser.connection is of type Top
- Bad: IRCChannelObserver.chatText is of type Top
- Good: IRCChannelObserver.channelName is of type UndefinedObject
- Bad: IRCChannelObserver.channel is of type Top
- Bad: IRCChannelObserver.connection is of type Top
- Bad: IRCChannelSummary.name is of type Top
- Bad: IRCChannelSummary.topic is of type Top
- Bad: IRCChannelSummary.numUsers is of type Top
- Good: IRCChannelUsersBrowser.channel is of type { UndefinedObject IRCChannelInfo }
- Bad: IRCChannelUsersBrowser.userList is of type Top
- Bad: IRCChannelUsersBrowser.userIndex is of type Top
- Good: IRCConnection.directMessageSubscribers is of type { IdentitySet UndefinedObject }
- Good: IRCConnection.channelListBeingBuilt is of type { UndefinedObject OrderedCollection }
- Good: IRCConnection.protocolMessagesToSend is of type { UndefinedObject OrderedCollection }
- Bad: IRCConnection.sendBuffer is of type Top
- Bad: IRCConnection.server is of type Top
- Good: IRCConnection.motdBeingBuilt is of type { UndefinedObject WriteStream }
- Good: IRCConnection.protocolMessageSubscribers is of type { IdentitySet UndefinedObject }
- Bad: IRCConnection.motd is of type Top
- Bad: IRCConnection.port is of type Top
- Good: IRCConnection.recieveBuffer is of type { String UndefinedObject }
- Good: IRCConnection.socket is of type { Socket UndefinedObject }
- Bad: IRCConnection.userName is of type Top
- Bad: IRCConnection.nick is of type Top

- Good: IRCConnection.channelList is of type { UndefinedObject Array }
- Good: IRCConnection.subscribedChannels is of type { UndefinedObject Dictionary }
- Bad: IRCConnection.fullName is of type Top
- Good: IRCConnection.messagesProcessed is of type { UndefinedObject SmallInteger }
- Bad: IRCConnection.consoleText is of type Top
- Bad: IRCDirectMessagesObserver.chatText is of type Top
- Bad: IRCDirectMessagesObserver.talkingTo is of type Top
- Bad: IRCDirectMessagesObserver.connection is of type Top
- Bad: IRCMessage.text is of type Top
- Bad: IRCMessage.sender is of type Top
- Bad: IRCMessage.recipient is of type Top
- Good: IRCMessagePattern.sender is of type UndefinedObject
- Good: IRCMessagePattern.recipient is of type UndefinedObject
- Good: IRCMessageSet.messages is of type UndefinedObject
- Bad: IRCMorph.userName is of type Top
- Bad: IRCMorph.nick is of type Top
- Bad: IRCMorph.server is of type Top
- Good: IRCMorph.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCMorph.fullName is of type Top
- Good: IRCMorph.messageCollections is of type UndefinedObject
- Bad: IRCMorph.consoleText is of type Top
- Bad: IRCMorph.port is of type Top
- Bad: IRCProtocolMessage.arguments is of type Top
- Good: IRCProtocolMessage.command is of type { UndefinedObject String Character }
- Bad: IRCProtocolMessage.prefix is of type Top
- Good: IRCRecipientFilter.recipient is of type UndefinedObject

- Good: ChineseCheckerPiece.myBoard is of type { ChineseCheckers UndefinedObject }
- Bad: ChineseCheckerPiece.boardLoc is of type Top
- Bad: ChineseCheckers.movePhase is of type Top
- Good: ChineseCheckers.board is of type { UndefinedObject Array }
- Good: ChineseCheckers.plannedMovePhase is of type UndefinedObject
- Good: ChineseCheckers.sixDeltas is of type { UndefinedObject Array }
- Good: ChineseCheckers.plannedMove is of type UndefinedObject
- Bad: ChineseCheckers.whoseMove is of type Top
- Good: ChineseCheckers.teams is of type { UndefinedObject Array }
- Good: ChineseCheckers.colors is of type { UndefinedObject Array }
- Good: ChineseCheckers.homes is of type { UndefinedObject Array }
- Good: ChineseCheckers.animateMoves is of type { True UndefinedObject False }
- Good: ChineseCheckers.pathMorphs is of type { UndefinedObject OrderedCollection }
- Good: ChineseCheckers.autoPlay is of type { UndefinedObject Array }
- Good: CipherPanel.originalMorphs is of type UndefinedObject
- Bad: CipherPanel.decodingMorphs is of type Top
- Good: CipherPanel.quote is of type { UndefinedObject Symbol String Character }
- Good: CipherPanel.originalText is of type UndefinedObject
- Good: CrosticPanel.crosticPanel is of type UndefinedObject
- Good: CrosticPanel.cluesCol2 is of type { AlignmentMorph UndefinedObject }
- Bad: CrosticPanel.quote is of type Top
- Good: CrosticPanel.answers is of type { UndefinedObject OrderedCollection }
- Good: CrosticPanel.clues is of type { UndefinedObject OrderedCollection }

- Good: CrosticPanel.cluesPanel is of type { AlignmentMorph UndefinedObject }
- Good: CrosticPanel.quotePanel is of type { CrosticQuotePanel UndefinedObject }
- Good: CrosticQuotePanel.cluesPanel is of type { CrosticPanel UndefinedObject }
- Good: FreeCell.lastGameLost is of type UndefinedObject
- Good: FreeCell.cardsRemainingDisplay is of type { LedMorph UndefinedObject }
- Good: FreeCell.gameNumberDisplay is of type { LedMorph UndefinedObject }
- Good: FreeCell.state is of type { UndefinedObject #sameGame #pickGame #won #newGame #lost }
- Good: FreeCell.myFillStyle is of type { UndefinedObject GradientFillStyle }
- Good: FreeCell.elapsedTimeDisplay is of type { UndefinedObject LedTimerMorph }
- Good: FreeCell.board is of type { FreeCellBoard UndefinedObject }
- Bad: FreeCell.autoMoveRecursionCount is of type Top
- Bad: FreeCellBoard.target is of type Top
- Bad: FreeCellBoard.actionSelector is of type Top
- Good: FreeCellBoard.stacks is of type { UndefinedObject Array }
- Good: FreeCellBoard.freeCells is of type { UndefinedObject Array }
- Good: FreeCellBoard.homeCells is of type { UndefinedObject Array }
- Good: FreeCellBoard.cardDeck is of type { PlayingCardDeck UndefinedObject }
- Good: FreeCellBoard.lastCardDeck is of type UndefinedObject
- Bad: FreeCellStatistics.streakLosses is of type Top
- Bad: FreeCellStatistics.lastGameWon is of type Top
- Bad: FreeCellStatistics.lastGameLost is of type Top
- Bad: FreeCellStatistics.currentCount is of type Top

- Good: FreeCellStatistics.currentType is of type { UndefinedObject #wins #losses }
- Good: FreeCellStatistics.statsMorph is of type { TextMorph UndefinedObject }
- Good: FreeCellStatistics.window is of type UndefinedObject
- Bad: FreeCellStatistics.sessionLosses is of type Top
- Bad: FreeCellStatistics.lossesWithReplay is of type Top
- Bad: FreeCellStatistics.sessionWins is of type Top
- Bad: FreeCellStatistics.totalWins is of type Top
- Bad: FreeCellStatistics.streakWins is of type Top
- Bad: FreeCellStatistics.totalLosses is of type Top
- Bad: FreeCellStatistics.winsWithReplay is of type Top
- Bad: LedDigitMorph.digit is of type Top
- Good: LedDigitMorph.highlighted is of type { True UndefinedObject False }
- Good: LedMorph.digits is of type { UndefinedObject SmallInteger }
- Bad: LedMorph.flash is of type Top
- Good: LedMorph.flashing is of type { True UndefinedObject False }
- Bad: LedMorph.value is of type Top
- Good: LedTimerMorph.counting is of type { True UndefinedObject False }
- Bad: LedTimerMorph.startSeconds is of type Top
- Bad: PlayingCard.cardNo is of type Top
- Bad: PlayingCard.suitNo is of type Top
- Good: PlayingCard.suit is of type UndefinedObject
- Good: PlayingCard.cardForm is of type { Form UndefinedObject }
- Bad: PlayingCardDeck.target is of type Top
- Bad: PlayingCardDeck.seed is of type Top
- Good: PlayingCardDeck.acceptCardSelector is of type { PlayingCardDeck UndefinedObject #acceptCard:onStack: #acceptSingleCard:on: }

- Good: PlayingCardDeck.cardDraggedSelector is of type { PlayingCardDeck UndefinedObject #dragCard:fromHome: #dragCard:fromStack: }
- Good: PlayingCardDeck.stackingOrder is of type { UndefinedObject #descending #ascending }
- Good: PlayingCardDeck.cardDroppedSelector is of type { PlayingCardDeck UndefinedObject #cardMoved #cardMovedHome }
- Good: PlayingCardDeck.cardDoubleClickSelector is of type { PlayingCardDeck UndefinedObject #doubleClickInStack:OnCard: }
- Good: PlayingCardDeck.stackingPolicy is of type { UndefinedObject #stagger #single #altStraight #straight }
- Good: PlayingCardDeck.emptyDropPolicy is of type { UndefinedObject #inOrder #any }
- Good: PlayingCardDeck.layout is of type { UndefinedObject #stagger #pile #grid }
- Good: PlayingCardMorph.suitNumber is of type { UndefinedObject SmallInteger }
- Bad: PlayingCardMorph.cardNumber is of type Top
- Good: SameGame.scoreDisplay is of type { LedMorph UndefinedObject }
- Good: SameGame.board is of type { UndefinedObject SameGameBoard }
- Good: SameGame.selectionDisplay is of type { LedMorph UndefinedObject }
- Bad: SameGame.helpText is of type { StringHolderView++ PluggableTextMorph++ UndefinedObject }
- Good: SameGameBoard.palette is of type { UndefinedObject OrderedCollection }
- Bad: SameGameBoard.target is of type Top
- Bad: SameGameBoard.columns is of type Top
- Bad: SameGameBoard.actionSelector is of type Top
- Good: SameGameBoard.selectionColor is of type UndefinedObject
- Good: SameGameBoard.flash is of type { True UndefinedObject False }

- Good: SameGameBoard.arguments is of type { UndefinedObject Array }
- Good: SameGameBoard.rows is of type { UndefinedObject SmallInteger }
- Bad: SameGameBoard.protoTile is of type Top
- Bad: SameGameBoard.flashColor is of type Top
- Good: SameGameBoard.selection is of type UndefinedObject
- Bad: SameGameTile.oldSwitchState is of type Top
- Bad: SameGameTile.switchState is of type Top
- Good: SameGameTile.disabled is of type { False UndefinedObject }
- Good: Tetris.scoreDisplay is of type { LedMorph UndefinedObject }
- Good: Tetris.board is of type { UndefinedObject TetrisBoard }
- Bad: TetrisBlock.shapeInfo is of type Top
- Good: TetrisBlock.board is of type { UndefinedObject TetrisBoard }
- Bad: TetrisBlock.angle is of type Top
- Bad: TetrisBlock.baseCellNumber is of type Top
- Good: TetrisBoard.game is of type { UndefinedObject Tetris }
- Good: TetrisBoard.gameOver is of type { True UndefinedObject False }
- Bad: TetrisBoard.score is of type Top
- Good: TetrisBoard.paused is of type { True UndefinedObject False }
- Bad: TetrisBoard.delay is of type { Magnitude++ UndefinedObject }
- Good: TetrisBoard.currentBlock is of type { TetrisBlock UndefinedObject }
- Good: WordGameLetterMorph.predecessor is of type { WordGameLetterMorph UndefinedObject }
- Good: WordGameLetterMorph.lineMorph is of type { UndefinedObject PolygonMorph }
- Good: WordGameLetterMorph.style is of type { UndefinedObject #plain #boxed #underlined }
- Good: WordGameLetterMorph.letterMorph is of type { StringMorph UndefinedObject }

- Bad: WordGameLetterMorph.letter is of type Top
- Good: WordGameLetterMorph.originalLetter is of type UndefinedObject
- Good: WordGameLetterMorph.successor is of type { WordGameLetterMorph UndefinedObject }
- Bad: WordGameLetterMorph.indexInQuote is of type Top
- Good: WordGameLetterMorph.linkedLetters is of type UndefinedObject
- Good: WordGamePanelMorph.letterMorphs is of type { Array UndefinedObject OrderedCollection }
- Good: WordGamePanelMorph.haveTypedHere is of type { True UndefinedObject False }
- Bad: RBAssignmentNode.variable is of type Top
- Bad: RBAssignmentNode.assignment is of type Top
- Bad: RBAssignmentNode.value is of type Top
- Good: RBBlockNode.colons is of type { UndefinedObject OrderedCollection }
- Bad: RBBlockNode.bar is of type Top
- Bad: RBBlockNode.right is of type Top
- Bad: RBBlockNode.left is of type Top
- Bad: RBBlockNode.body is of type Top
- Bad: RBBlockNode.arguments is of type Top
- Bad: RBCascadeNode.messages is of type Top
- Good: RBCascadeNode.semicolons is of type { UndefinedObject OrderedCollection }
- Good: RBFormatter.codeStream is of type { UndefinedObject WriteStream }
- Bad: RBFormatter.lineStart is of type Top
- Bad: RBFormatter.firstLineLength is of type Top
- Bad: RBFormatter.tabs is of type Top
- Bad: RBLiteralNode.token is of type Top
- Bad: RBMessageNode.arguments is of type Top

- Bad: RBMessageNode.receiver is of type Top
- Bad: RBMessageNode.selector is of type Top
- Bad: RBMessageNode.selectorParts is of type Top
- Good: RBMethodNode.tags is of type UndefinedObject
- Bad: RBMethodNode.selector is of type Top
- Bad: RBMethodNode.selectorParts is of type Top
- Bad: RBMethodNode.body is of type Top
- Bad: RBMethodNode.source is of type Top
- Bad: RBMethodNode.arguments is of type Top
- Bad: RBOptimizedNode.body is of type Top
- Bad: RBOptimizedNode.right is of type Top
- Bad: RBOptimizedNode.left is of type Top
- Good: RBParser.scanner is of type { RBScanner UndefinedObject }
- Bad: RBParser.tags is of type Object++
- Bad: RBParser.source is of type Top
- Good: RBParser.emptyStatements is of type { True UndefinedObject False }
- Bad: RBParser.currentToken is of type Top
- Good: RBParser.negatedNumbers is of type { True UndefinedObject False }
- Good: RBParser.errorBlock is of type { UndefinedObject a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType }
- Bad: RBParser.nextToken is of type Top
- Good: RBPatternMessageNode.isCascadeList is of type { True UndefinedObject False }
- Good: RBPatternMessageNode.isList is of type { True UndefinedObject False }
- Good: RBPatternMethodNode.isList is of type { True UndefinedObject False }

- Good: RBPatternVariableNode.recurseInto is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isLiteral is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isStatement is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isAnything is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isList is of type { True UndefinedObject False }
- Bad: RBProgramNode.parent is of type Top
- Bad: RBProgramNode.comments is of type Top
- Bad: RBReturnNode.return is of type Top
- Bad: RBReturnNode.value is of type Top
- Good: RBSequenceNode.rightBar is of type UndefinedObject
- Good: RBSequenceNode.periods is of type UndefinedObject
- Bad: RBSequenceNode.temporaries is of type Top
- Bad: RBSequenceNode.statements is of type Top
- Bad: RBSequenceNode.leftBar is of type Top
- Good: RBValueNode.parentheses is of type { UndefinedObject OrderedCollection }
- Bad: RBVariableNode.token is of type Top
- Good: CategoriesFile.categories is of type { UndefinedObject Dictionary }
- Bad: Celeste.currentMessages is of type Top
- Bad: Celeste.customFilterBlock is of type Top
- Bad: Celeste.status is of type Top
- Bad: Celeste.userPassword is of type Top
- Bad: Celeste.currentMsgID is of type Top
- Bad: Celeste.mailDB is of type Top
- Bad: Celeste.currentCategory is of type Top

- Bad: Celeste.lastCategory is of type Top
- Good: Celeste.lastCategoryList is of type UndefinedObject
- Good: Celeste.dateFilter is of type UndefinedObject
- Bad: Celeste.currentTOC is of type Top
- Bad: Celeste.fromFilter is of type Top
- Good: Celeste.formatMessages is of type UndefinedObject
- Good: Celeste.lastCategoryMenu is of type { CustomMenu UndefinedObject }
- Bad: Celeste.messageTextView is of type Top
- Bad: Celeste.subjectFilter is of type Top
- Bad: CelesteComposition.textEditor is of type Top
- Bad: CelesteComposition.celeste is of type Top
- Bad: CelesteComposition.messageText is of type Top
- Good: CelesteComposition.morphicWindow is of type { AlignmentMorphBob1 UndefinedObject SystemWindow }
- Good: CelesteComposition.mvcWindow is of type { StandardSystemView UndefinedObject }
- Good: CelesteComposition.attachmentSeparator is of type UndefinedObject
- Good: FancyCelesteComposition.theLinkToInclude is of type { String UndefinedObject }
- Bad: FancyCelesteComposition.to is of type Top
- Bad: FancyCelesteComposition.subject is of type Top
- Good: FancyCelesteComposition.textFields is of type { UndefinedObject Array }
- Good: IndexFile.msgDictionary is of type { PluggableDictionary UndefinedObject }
- Good: IndexFile.logfile is of type { UndefinedObject StandardFileStream }
- Good: IndexFile.timeSortedEntries is of type { UndefinedObject SortedCollection }

- Bad: IndexFileEntry.time is of type Top
- Bad: IndexFileEntry.msgID is of type Top
- Bad: IndexFileEntry.messageFile is of type Top
- Bad: IndexFileEntry.cc is of type Top
- Bad: IndexFileEntry.tocLineCache is of type Top
- Bad: IndexFileEntry.location is of type Top
- Bad: IndexFileEntry.to is of type Top
- Bad: IndexFileEntry.textLength is of type Top
- Bad: IndexFileEntry.subject is of type Top
- Bad: IndexFileEntry.from is of type Top
- Good: MIMEHeaderValue.mainValue is of type { UndefinedObject String Character }
- Good: MIMEHeaderValue.parameters is of type { UndefinedObject Dictionary }
- Bad: MIMEPart.content is of type Top
- Good: MIMEPart.parts is of type { Array UndefinedObject OrderedCollection }
- Bad: MIMEPart.separator is of type Top
- Bad: MIMEPart.text is of type Top
- Good: MIMEPart.fields is of type { UndefinedObject Dictionary }
- Bad: MailDB.rootFilename is of type Top
- Bad: MailDB.indexFile is of type Top
- Bad: MailDB.messageFile is of type Top
- Bad: MailDB.categoriesFile is of type Top
- Bad: MailDBFile.filename is of type Top
- Bad: MailMessage.time is of type Top
- Bad: MailMessage.separator is of type Top
- Bad: MailMessage.cc is of type Top
- Good: MailMessage.body is of type { UndefinedObject MIMEDocument }

- Bad: MailMessage.to is of type Top
- Bad: MailMessage.text is of type Top
- Bad: MailMessage.subject is of type Top
- Good: MailMessage.fields is of type { UndefinedObject Dictionary }
- Bad: MailMessage.from is of type Top
- Good: MailMessage.parts is of type { Array UndefinedObject OrderedCollection }
- Bad: MailNotifier.lastConnectTime is of type Top
- Good: MailNotifier.messageCount is of type { Integer LargeNegativeInteger LargePositiveInteger UndefinedObject SmallInteger }
- Good: MailNotifier.password is of type UndefinedObject
- Good: MailNotifier.socket is of type { UndefinedObject POPSocket }
- Good: MessageFile.file is of type { CrLfFileStream UndefinedObject }
- Bad: ReadNewsInboxFile.currentNewsgroup is of type Top
- Good: ReadNewsInboxFile.msgBuffer is of type { UndefinedObject WriteStream }
- Bad: TextMessageLink.message is of type Top
- Bad: Browser.classOrganizer is of type Top
- Bad: Browser.systemOrganizer is of type Top
- Bad: Browser.messageListIndex is of type Top
- Bad: Browser.messageCategoryListIndex is of type Top
- Bad: Browser.editSelection is of type Top
- Bad: Browser.metaClassOrganizer is of type Top
- Bad: Browser.systemCategoryListIndex is of type Top
- Bad: Browser.metaClassIndicated is of type Top
- Bad: Browser.classListIndex is of type Top
- Bad: ChangedMessageSet.changeSet is of type Top
- Bad: HierarchyBrowser.centralClass is of type Top
- Bad: HierarchyBrowser.classList is of type Top

- Bad: MessageSet.messageList is of type Top
- Bad: MessageSet.autoSelectString is of type Top
- Bad: PackageBrowser.package is of type Top
- Bad: PackageBrowser.packageListIndex is of type Top
- Good: PackageBrowser.packageList is of type UndefinedObject
- Good: ProtocolBrowser.selectedClass is of type UndefinedObject
- Bad: ProtocolBrowser.selectedSelector is of type Top
- Bad: SelectorBrowser.classListIndex is of type Top
- Bad: SelectorBrowser.classList is of type Top
- Bad: SelectorBrowser.selectorIndex is of type Top
- Bad: SelectorBrowser.selectorList is of type Top
- Bad: BitBltSimulation.sy is of type Top
- Bad: BitBltSimulation.halftoneBase is of type Top
- Bad: BitBltSimulation.cmBlueShift is of type Top
- Bad: BitBltSimulation.destWidth is of type Top
- Bad: BitBltSimulation.destX is of type Top
- Bad: BitBltSimulation.width is of type Top
- Bad: BitBltSimulation.scanString is of type Top
- Bad: BitBltSimulation.sourceBits is of type Top
- Bad: BitBltSimulation.scanStop is of type Top
- Bad: BitBltSimulation.dy is of type Top
- Good: BitBltSimulation.warpBitShiftTable is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.destPixSize is of type Top
- Bad: BitBltSimulation.pixPerWord is of type Top
- Good: BitBltSimulation.ditherValues16 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.cmRedMask is of type Top
- Bad: BitBltSimulation.warpSrcMask is of type Top

- Bad: BitBltSimulation.dstBitShift is of type Top
- Bad: BitBltSimulation.destIndex is of type Top
- Bad: BitBltSimulation.sourceIndex is of type Top
- Bad: BitBltSimulation.clipX is of type Top
- Good: BitBltSimulation.hDir is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.nWords is of type Top
- Bad: BitBltSimulation.clipHeight is of type Top
- Bad: BitBltSimulation.bitBltOop is of type Top
- Bad: BitBltSimulation.preload is of type Top
- Bad: BitBltSimulation.opTable is of type Top
- Bad: BitBltSimulation.sourceForm is of type Top
- Bad: BitBltSimulation.warpAlignMask is of type Top
- Bad: BitBltSimulation.skew is of type Top
- Bad: BitBltSimulation.cmDeltaBits is of type Top
- Good: BitBltSimulation.ditherMatrix4x4 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.sourceY is of type Top
- Bad: BitBltSimulation.scanStart is of type Top
- Bad: BitBltSimulation.cmGreenShift is of type Top
- Bad: BitBltSimulation.destBits is of type Top
- Bad: BitBltSimulation.destPitch is of type Top
- Bad: BitBltSimulation.height is of type Top
- Bad: BitBltSimulation.sourcePitch is of type Top
- Bad: BitBltSimulation.destY is of type Top
- Bad: BitBltSimulation.affectedL is of type Top
- Good: BitBltSimulation.maskTable is of type { UndefinedObject Array }
- Good: BitBltSimulation.scanDisplayFlag is of type { True UndefinedObject False }

- Bad: BitBltSimulation.mask1 is of type Top
- Bad: BitBltSimulation.destDelta is of type Top
- Good: BitBltSimulation.noHalftone is of type { True UndefinedObject False }
- Bad: BitBltSimulation.clipWidth is of type Top
- Bad: BitBltSimulation.destForm is of type Top
- Bad: BitBltSimulation.sx is of type Top
- Bad: BitBltSimulation.clipY is of type Top
- Bad: BitBltSimulation.scanRightX is of type Top
- Bad: BitBltSimulation.cmBlueMask is of type Top
- Bad: BitBltSimulation.halftoneHeight is of type Top
- Bad: BitBltSimulation.affectedT is of type Top
- Bad: BitBltSimulation.sourcePixSize is of type Top
- Bad: BitBltSimulation.cmRedShift is of type Top
- Good: BitBltSimulation.noSource is of type { True UndefinedObject False }
- Bad: BitBltSimulation.dx is of type Top
- Bad: BitBltSimulation.destMask is of type Top
- Bad: BitBltSimulation.affectedB is of type Top
- Bad: BitBltSimulation.cmGreenMask is of type Top
- Good: BitBltSimulation.hasSurfaceLock is of type { True UndefinedObject False }
- Bad: BitBltSimulation.stopCode is of type Top
- Bad: BitBltSimulation.combinationRule is of type Top
- Bad: BitBltSimulation.bitCount is of type Top
- Good: BitBltSimulation.vDir is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.destHeight is of type Top
- Good: BitBltSimulation.cmBitsPerColor is of type { UndefinedObject SmallInteger }

- Bad: BitBltSimulation.bbH is of type Top
- Bad: BitBltSimulation.bbW is of type Top
- Bad: BitBltSimulation.srcWidth is of type Top
- Bad: BitBltSimulation.affectedR is of type Top
- Good: BitBltSimulation.ditherThresholds16 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.sourceDelta is of type Top
- Bad: BitBltSimulation.warpSrcShift is of type Top
- Bad: BitBltSimulation.halftoneForm is of type Top
- Bad: BitBltSimulation.mask2 is of type Top
- Bad: BitBltSimulation.scanXTable is of type Top
- Bad: BitBltSimulation.scanStopArray is of type Top
- Bad: BitBltSimulation.sourceAlpha is of type Top
- Bad: BitBltSimulation.colorMap is of type Top
- Bad: BitBltSimulation.warpAlignShift is of type Top
- Bad: BitBltSimulation.sourceX is of type Top
- Bad: BitBltSimulation.srcBitShift is of type Top
- Bad: BitBltSimulation.srcHeight is of type Top
- Bad: Interpreter.activeContext is of type Top
- Bad: Interpreter.nextWakeupTick is of type Top
- Bad: Interpreter.localIP is of type Top
- Bad: Interpreter.localHomeContext is of type Top
- Good: Interpreter.methodCache is of type { UndefinedObject Array }
- Bad: Interpreter.interruptKeycode is of type Top
- Bad: Interpreter.semaphoresToSignalCountA is of type Top
- Bad: Interpreter.interruptCheckCounterFeedBackReset is of type Top
- Good: Interpreter.interpreterVersion is of type UndefinedObject
- Good: Interpreter.obsoleteNamedPrimitiveTable is of type { CArrayAccessor UndefinedObject }

- Good: Interpreter.interpreterProxy is of type { UndefinedObject InterpreterSimulator InterpreterSimulatorMSB InterpreterSimulatorLSB }
- Bad: Interpreter.receiver is of type Top
- Bad: Interpreter.stackPointer is of type Top
- Bad: Interpreter.receiverClass is of type Top
- Good: Interpreter.obsoleteIndexedPrimitiveTable is of type { CArrayAccessor UndefinedObject }
- Bad: Interpreter.successFlag is of type Top
- Good: Interpreter.compilerHooks is of type UndefinedObject
- Bad: Interpreter.fullScreenFlag is of type Top
- Bad: Interpreter.primitiveIndex is of type Top
- Good: Interpreter.semaphoresToSignalB is of type { UndefinedObject Array }
- Bad: Interpreter.compilerInitialized is of type Top
- Bad: Interpreter.localSP is of type Top
- Bad: Interpreter.instructionPointer is of type Top
- Good: Interpreter.semaphoresUseBufferA is of type { True UndefinedObject False }
- Good: Interpreter.deferDisplayUpdates is of type { True UndefinedObject False }
- Bad: Interpreter.theHomeContext is of type Top
- Bad: Interpreter.extraVMMemory is of type Top
- Bad: Interpreter.method is of type Top
- Bad: Interpreter.pendingFinalizationSignals is of type Top
- Bad: Interpreter.newMethod is of type Top
- Good: Interpreter.semaphoresToSignalA is of type { UndefinedObject Array }
- Bad: Interpreter.methodClass is of type Top
- Bad: Interpreter.newNativeMethod is of type Top
- Good: Interpreter.atCache is of type { UndefinedObject Array }

- Bad: Interpreter.argumentCount is of type Top
- Bad: Interpreter.currentBytecode is of type Top
- Good: Interpreter.interruptPending is of type { False UndefinedObject }
- Good: Interpreter.interruptChecksEveryNms is of type { UndefinedObject SmallInteger }
- Bad: Interpreter.nextPollTick is of type Top
- Bad: Interpreter.lkupClass is of type Top
- Bad: Interpreter.reclaimableContextCount is of type Top
- Bad: Interpreter.savedWindowSize is of type Top
- Bad: Interpreter.lastTick is of type Top
- Bad: Interpreter.semaphoresToSignalCountB is of type Top
- Bad: Interpreter.messageSelector is of type Top
- Bad: Interpreter.showSurfaceFn is of type Top
- Good: InterpreterSimulator.myBitBlt is of type { False UndefinedObject BitBltSimulator }
- Good: InterpreterSimulator.traceOn is of type { UndefinedObject True }
- Bad: InterpreterSimulator.imageName is of type Top
- Good: InterpreterSimulator.pluginList is of type { UndefinedObject Array }
- Bad: InterpreterSimulator.sendCount is of type Top
- Good: InterpreterSimulator.displayForm is of type { Form UndefinedObject }
- Good: InterpreterSimulator.mappedPluginEntries is of type { UndefinedObject Array }
- Good: InterpreterSimulator.filesOpen is of type { UndefinedObject OrderedCollection }
- Bad: InterpreterSimulator.byteCount is of type Top
- Good: ObjectMemory.signalLowSpace is of type { True UndefinedObject False }
- Bad: ObjectMemory.tenuringThreshold is of type Top
- Bad: ObjectMemory.lastHash is of type Top

- Bad: ObjectMemory.statIncrGCMSecs is of type Top
- Good: ObjectMemory.remapBuffer is of type { UndefinedObject Array }
- Bad: ObjectMemory.trueObj is of type Top
- Bad: ObjectMemory.statFullGCMSecs is of type Top
- Bad: ObjectMemory.freeLargeContexts is of type Top
- Bad: ObjectMemory.lowSpaceThreshold is of type Top
- Bad: ObjectMemory.allocationsBetweenGCs is of type Top
- Bad: ObjectMemory.interruptCheckCounter is of type Top
- Bad: ObjectMemory.freeContexts is of type Top
- Bad: ObjectMemory.compStart is of type Top
- Bad: ObjectMemory.youngStart is of type Top
- Bad: ObjectMemory.compEnd is of type Top
- Bad: ObjectMemory.totalObjectFoundAtStartup is of type Top
- Bad: ObjectMemory.memoryLimit is of type Top
- Bad: ObjectMemory.endOfMemory is of type Top
- Bad: ObjectMemory.specialObjectsOop is of type Top
- Bad: ObjectMemory.statFullGCs is of type Top
- Bad: ObjectMemory.statTenures is of type Top
- Bad: ObjectMemory.nilObj is of type Top
- Bad: ObjectMemory.child is of type Top
- Bad: ObjectMemory.fwdTableLast is of type Top
- Bad: ObjectMemory.fwdTableNext is of type Top
- Bad: ObjectMemory.rootTableCount is of type Top
- Bad: ObjectMemory.allocationCount is of type Top
- Bad: ObjectMemory.falseObj is of type Top
- Bad: ObjectMemory.remapBufferCount is of type Top
- Bad: ObjectMemory.parentField is of type Top
- Bad: ObjectMemory.field is of type Top

- Good: ObjectMemory.memory is of type { Interpreter UndefinedObject InterpreterSimulatorMSB InterpreterSimulatorLSB Bitmap InterpreterSimulator }
- Bad: ObjectMemory.freeBlock is of type Top
- Bad: ObjectMemory.statRootTableOverflows is of type Top
- Good: ObjectMemory.rootTable is of type { UndefinedObject Array }
- Bad: ObjectMemory.statIncrGCs is of type Top
- Good: ObjectMemory.displayBits is of type { UndefinedObject SmallInteger }
- Bad: SystemMonitor.vmParameters is of type Top
- Bad: SystemMonitor.gcHighWaterMark is of type Top
- Bad: SystemMonitor.baselineSkip is of type Top
- Bad: SystemMonitor.prevAllocCount is of type Top
- Bad: SystemMonitor.prevDeltaIncrGC is of type Top
- Bad: SystemMonitor.prevMcMiss is of type Top
- Good: SystemMonitor.window is of type { UndefinedObject Rectangle }
- Bad: SystemMonitor.prevDeltaFullGC is of type Top
- Bad: SystemMonitor.prevFullGC is of type Top
- Good: SystemMonitor.valSelectors is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevIncrGC is of type Top
- Bad: SystemMonitor.prevMsClock is of type Top
- Good: SystemMonitor.maxValues is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevAllocRate is of type Top
- Bad: SystemMonitor.gcLowWaterMark is of type Top
- Good: SystemMonitor.labels is of type { UndefinedObject Array }
- Good: SystemMonitor.minValues is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevIcHit is of type Top
- Bad: SystemMonitor.prevMcHit is of type Top
- Good: SystemTracer.hashGenerator is of type { Random UndefinedObject }

- Bad: SystemTracer.maxOop is of type Top
- Good: SystemTracer.map is of type UndefinedObject
- Good: SystemTracer.initialProcess is of type UndefinedObject
- Good: SystemTracer.oopMap is of type { UndefinedObject Array }
- Bad: SystemTracer.specialObjects is of type Top
- Good: SystemTracer.file is of type { CrLfFileStream UndefinedObject }
- Good: SystemTracer.cleaningUp is of type { False UndefinedObject }
- Good: SystemTracer.writeDict is of type { UndefinedObject Dictionary }
- Good: SystemTracer.imageHeaderSize is of type { UndefinedObject SmallInteger }
- Good: SystemTracer.compactClasses is of type { UndefinedObject Array }
- Good: SystemTracer.replacementClasses is of type { UndefinedObject Dictionary }
- Bad: TestInterfaceBase.duration is of type Top
- Bad: TestInterfaceBase.classPattern is of type Top
- Bad: TestInterfaceBase.result is of type Top
- Bad: TestInterfaceBase.selectorPattern is of type Top
- Good: TestModel.failureList is of type { UndefinedObject OrderedCollection }
- Good: TestModel.patternHistory is of type { UndefinedObject OrderedCollection }
- Good: TestModel.errorList is of type { UndefinedObject OrderedCollection }
- Bad: TestModel.summaryText is of type Top
- Bad: TestModel.summaryTextM is of type { PluggableTextMorph++ PluggableTextView UndefinedObject }
- Good: TestModel.summaryTextV is of type { PluggableTextView UndefinedObject }
- Good: TestModel.updateColorSelector is of type { UndefinedObject #updateColorM #updateColorV }

- Good: TestModel.patternTextV is of type { PluggableTextView UndefinedObject }
- Bad: TestModel.patternTextM is of type { PluggableTextMorph++ PluggableTextView UndefinedObject }
- Bad: TestModel.detailsText is of type Top
- Bad: PDA.recurringEvents is of type Top
- Good: PDA.peopleList is of type { ArrayedCollection++ UndefinedObject }
- Bad: PDA.date is of type Top
- Good: PDA.dateButtonPressed is of type UndefinedObject
- Bad: PDA.allEvents is of type Top
- Bad: PDA.category is of type Top
- Bad: PDA.currentItem is of type Top
- Bad: PDA.scheduleList is of type Top
- Good: PDA.categoryListIndex is of type UndefinedObject
- Bad: PDA.allPeople is of type Top
- Bad: PDA.scheduleListIndex is of type Top
- Bad: PDA.allToDoItems is of type Top
- Bad: PDA.allNotes is of type Top
- Bad: PDA.notesListIndex is of type Top
- Good: PDA.currentItemSelection is of type UndefinedObject
- Good: PDA.categoryList is of type UndefinedObject
- Good: PDA.toDoList is of type { ArrayedCollection++ UndefinedObject }
- Bad: PDA.toDoListIndex is of type Top
- Bad: PDA.peopleListIndex is of type Top
- Good: PDA.notesList is of type { ArrayedCollection++ UndefinedObject }
- Good: PDA.currentItemText is of type UndefinedObject
- Bad: PDA.userCategories is of type Top

- Good: PDA.viewDescriptionOnly is of type { True UndefinedObject False }
- Bad: PDAChoiceMorph.backgroundColor is of type Top
- Bad: PDAClockMorph.backgroundColor is of type Top
- Bad: PDAEvent.time is of type Top
- Bad: PDAEvent.date is of type Top
- Bad: PDAEvent.duration is of type Top
- Good: PDAEvent.alarm is of type UndefinedObject
- Bad: PDAPerson.name is of type Top
- Bad: PDAPerson.address is of type Top
- Good: PDAPerson.phone is of type { String UndefinedObject }
- Good: PDAPerson.email is of type { String UndefinedObject }
- Bad: PDARecord.description is of type Top
- Bad: PDARecord.key is of type Top
- Good: PDARecord.otherFields is of type { UndefinedObject Dictionary }
- Good: PDARecurringEvent.recurrence is of type { UndefinedObject #dayOfMonth #dayOfWeek #nthWeekdayOfMonthEachYear #dateOfYear }
- Bad: PDARecurringEvent.firstDate is of type Top
- Bad: PDARecurringEvent.lastDate is of type Top
- Good: PDAToDoItem.deadline is of type UndefinedObject
- Bad: PDAToDoItem.result is of type Top
- Bad: PDAToDoItem.dayDone is of type Top
- Bad: PDAToDoItem.dayPosted is of type Top
- Bad: PDAToDoItem.priority is of type Top

4.3 Threshold of 500

- Bad: ADPCMCodec.index is of type Top
- Good: ADPCMCodec.indexTable is of type { Array UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.deltaSignMask is of type Top
- Bad: ADPCMCodec.bitPosition is of type Top
- Bad: ADPCMCodec.encodedBytes is of type Top
- Good: ADPCMCodec.stepSizeTable is of type { Array UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.sampleIndex is of type Top
- Good: ADPCMCodec.rightSamples is of type { UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.byteIndex is of type Top
- Bad: ADPCMCodec.frameSizeMask is of type Top
- Bad: ADPCMCodec.bitsPerSample is of type Top
- Bad: ADPCMCodec.predicted is of type Top
- Bad: ADPCMCodec.deltaValueHighBit is of type Top
- Bad: ADPCMCodec.deltaValueMask is of type Top
- Bad: ADPCMCodec.currentByte is of type Top
- Bad: ADPCMCodec.samples is of type Top
- Good: AIFFFileReader.channelData is of type { UndefinedObject Array }
- Bad: AIFFFileReader.frameCount is of type Top
- Good: AIFFFileReader.isLooped is of type { True UndefinedObject False }
- Bad: AIFFFileReader.gain is of type Top
- Bad: AIFFFileReader.in is of type Top
- Bad: AIFFFileReader.fileType is of type Top
- Bad: AIFFFileReader.pitch is of type Top
- Good: AIFFFileReader.markers is of type { UndefinedObject Array }

- Bad: AIFFFileReader.channelCount is of type Top
- Good: AIFFFileReader.bitsPerSample is of type { UndefinedObject SmallInteger }
- Good: AIFFFileReader.mergeIfStereo is of type { True UndefinedObject False }
- Good: AIFFFileReader.skipDataChunk is of type { True UndefinedObject False }
- Bad: AIFFFileReader.samplingRate is of type Top
- Bad: AbstractSound.envelopes is of type Top
- Bad: AbstractSound.mSecsSinceStart is of type Top
- Bad: AbstractSound.scaledVolLimit is of type Top
- Bad: AbstractSound.scaledVol is of type Top
- Bad: AbstractSound.samplesUntilNextControl is of type Top
- Bad: AbstractSound.scaledVolIncr is of type Top
- Bad: CompressedSoundData.perceivedPitch is of type Top
- Bad: CompressedSoundData.codecName is of type ProtoObject++
- Good: CompressedSoundData.channels is of type { UndefinedObject Array }
- Bad: CompressedSoundData.gain is of type Top
- Bad: CompressedSoundData.firstSample is of type Top
- Bad: CompressedSoundData.soundClassName is of type Top
- Bad: CompressedSoundData.cachedSound is of type { WaveletCodec MuLawCodec ADPCMCodec SoundCodec UndefinedObject LoopedSampledSound GSMCodec SampledSound }
- Bad: CompressedSoundData.loopLength is of type Top
- Bad: CompressedSoundData.samplingRate is of type Top
- Bad: CompressedSoundData.loopEnd is of type Top
- Bad: Envelope.target is of type Top
- Bad: Envelope.scale is of type Top
- Good: Envelope.updateSelector is of type { UndefinedObject #pitch: #modulation: #ratio: }

- Bad: Envelope.loopEndMSecs is of type { Magnitude++ UndefinedObject }
- Bad: Envelope.endMSecs is of type Top
- Bad: Envelope.currValue is of type Top
- Bad: Envelope.loopStartIndex is of type Top
- Bad: Envelope.valueIncr is of type Top
- Good: Envelope.noChangesDuringLoop is of type { True UndefinedObject False }
- Bad: Envelope.nextRecomputeTime is of type Top
- Bad: Envelope.loopEndIndex is of type Top
- Bad: Envelope.loopMSecs is of type Top
- Bad: Envelope.loopStartMSecs is of type Top
- Bad: Envelope.decayScale is of type Top
- Bad: Envelope.points is of type Top
- Bad: Envelope.lastValue is of type Top
- Bad: FFT.permTable is of type Top
- Bad: FFT.nu is of type Top
- Bad: FFT.n is of type Top
- Good: FFT.sinTable is of type { Array UndefinedObject FloatArray }
- Bad: FFT.imagData is of type Top
- Good: FFT.window is of type { UndefinedObject FloatArray }
- Good: FFT.realData is of type { Array UndefinedObject FloatArray }
- Bad: FMSound.initialCount is of type Top
- Bad: FMSound.multiplier is of type Top
- Bad: FMSound.scaledOffsetIndex is of type Top
- Bad: FMSound.waveTable is of type Top
- Bad: FMSound.scaledWaveTableSize is of type Top
- Bad: FMSound.scaledIndex is of type Top
- Bad: FMSound.normalizedModulation is of type Top

- Bad: FMSound.scaledOffsetIndexIncr is of type Top
- Bad: FMSound.modulation is of type Top
- Bad: FMSound.scaledIndexIncr is of type Top
- Bad: FMSound.count is of type Top
- Bad: FWT.transform is of type Top
- Bad: FWT.beta is of type Top
- Good: FWT.gTilde is of type { UndefinedObject Array }
- Bad: FWT.coeffs is of type Top
- Good: FWT.g is of type { UndefinedObject Array }
- Bad: FWT.nSamples is of type Top
- Bad: FWT.nLevels is of type Top
- Bad: FWT.alpha is of type Top
- Good: FWT.h is of type { UndefinedObject Array }
- Bad: FWT.samples is of type Top
- Good: FWT.hTilde is of type { UndefinedObject Array }
- Bad: GSMCodec.encodeState is of type Top
- Bad: GSMCodec.decodeState is of type Top
- Bad: LoopedSampledSound.initialCount is of type Top
- Bad: LoopedSampledSound.perceivedPitch is of type Top
- Bad: LoopedSampledSound.scaledLoopLength is of type Top
- Bad: LoopedSampledSound.lastSample is of type Top
- Good: LoopedSampledSound.gain is of type { UndefinedObject Float }
- Bad: LoopedSampledSound.scaledIndexIncr is of type Top
- Bad: LoopedSampledSound.releaseCount is of type Top
- Bad: LoopedSampledSound.firstSample is of type Top
- Bad: LoopedSampledSound.sampleCountForRelease is of type Top
- Bad: LoopedSampledSound.rightSamples is of type Top
- Bad: LoopedSampledSound.leftSamples is of type Top

- Bad: LoopedSampledSound.scaledIndex is of type Top
- Bad: LoopedSampledSound.originalSamplingRate is of type Top
- Bad: LoopedSampledSound.count is of type Top
- Bad: LoopedSampledSound.loopEnd is of type Top
- Good: MixedSound.soundDone is of type { UndefinedObject Array }
- Good: MixedSound.sounds is of type { UndefinedObject Array }
- Good: MixedSound.leftVols is of type { UndefinedObject Array }
- Bad: MixedSound.rightVols is of type Top
- Bad: PitchEnvelope.centerPitch is of type Top
- Bad: PluckedSound.initialCount is of type Top
- Good: PluckedSound.ring is of type { UndefinedObject SoundBuffer }
- Bad: PluckedSound.scaledIndexLimit is of type Top
- Bad: PluckedSound.scaledIndex is of type Top
- Bad: PluckedSound.scaledIndexIncr is of type Top
- Bad: PluckedSound.count is of type Top
- Good: RandomEnvelope.rand is of type { Random UndefinedObject }
- Good: RandomEnvelope.highLimit is of type { UndefinedObject Float }
- Good: RandomEnvelope.lowLimit is of type { UndefinedObject Float }
- Good: RandomEnvelope.delta is of type { UndefinedObject Float }
- Bad: RepeatingSound.iteration is of type Top
- Bad: RepeatingSound.iterationCount is of type Top
- Bad: RepeatingSound.sound is of type Top
- Bad: RepeatingSound.samplesPerIteration is of type Top
- Bad: RestSound.initialCount is of type Top
- Bad: RestSound.count is of type Top
- Good: ReverbSound.tapGains is of type { UndefinedObject Bitmap }
- Good: ReverbSound.bufferSize is of type { Bitmap LargeNegativeInteger LargePositiveInteger UndefinedObject SmallInteger }

- Good: ReverbSound.rightBuffer is of type { UndefinedObject SoundBuffer }
- Good: ReverbSound.leftBuffer is of type { UndefinedObject SoundBuffer }
- Good: ReverbSound.tapCount is of type { UndefinedObject SmallInteger }
- Good: ReverbSound.tapDelays is of type { UndefinedObject Bitmap }
- Bad: ReverbSound.bufferIndex is of type Top
- Good: ReverbSound.sound is of type UndefinedObject
- Good: SampledInstrument.sustainedSoft is of type { UndefinedObject Array }
- Bad: SampledInstrument.staccatoSoft is of type Top
- Good: SampledInstrument.staccatoLoud is of type { UndefinedObject Array }
- Good: SampledInstrument.sustainedThreshold is of type { UndefinedObject Float }
- Good: SampledInstrument.sustainedLoud is of type { UndefinedObject Array }
- Good: SampledInstrument.loudThreshold is of type { UndefinedObject Float }
- Bad: SampledSound.initialCount is of type Top
- Bad: SampledSound.samples is of type Top
- Bad: SampledSound.scaledIncrement is of type Top
- Bad: SampledSound.scaledIndex is of type Top
- Bad: SampledSound.indexHighBits is of type Top
- Bad: SampledSound.samplesSize is of type Top
- Bad: SampledSound.originalSamplingRate is of type Top
- Bad: SampledSound.count is of type Top
- Good: SequentialSound.sounds is of type { UndefinedObject Array }
- Bad: SequentialSound.currentIndex is of type Top
- Bad: Sonogram.lastX is of type Top

- Good: Sonogram.pixValMap is of type { UndefinedObject Bitmap }
- Good: Sonogram.maxVal is of type { UndefinedObject Float }
- Good: Sonogram.minVal is of type { UndefinedObject Float }
- Good: Sonogram.scrollDelta is of type { UndefinedObject SmallInteger }
- Good: Sonogram.columnForm is of type { Form UndefinedObject }
- Bad: SoundInputStream.mutex is of type Top
- Bad: SoundInputStream.bufferSize is of type Top
- Good: SoundRecorder.currentBuffer is of type { UndefinedObject SoundBuffer }
- Bad: SoundRecorder.recordProcess is of type Top
- Good: SoundRecorder.codec is of type { GSMCodec UndefinedObject }
- Good: SoundRecorder.desiredSampleRate is of type { UndefinedObject Float }
- Bad: SoundRecorder.nextIndex is of type Top
- Good: SoundRecorder.meteringBuffer is of type { UndefinedObject SoundBuffer }
- Bad: SoundRecorder.meterLevel is of type Top
- Good: SoundRecorder.stereo is of type { False UndefinedObject }
- Good: SoundRecorder.recordLevel is of type { UndefinedObject Float }
- Good: SoundRecorder.soundPlaying is of type { SampledSound SequentialSound UndefinedObject ChatRecorder SoundInputStream SoundRecorder }
- Good: SoundRecorder.recordedBuffers is of type { Array UndefinedObject OrderedCollection }
- Good: SoundRecorder.paused is of type { True UndefinedObject False }
- Bad: SoundRecorder.samplingRate is of type Top
- Good: SoundRecorder.recordedSound is of type { SampledSound SequentialSound UndefinedObject ChatRecorder SoundInputStream SoundRecorder }
- Good: SoundRecorder.bufferAvailableSema is of type { Semaphore UndefinedObject }

- Bad: VolumeEnvelope.mSecsForChange is of type Top
- Bad: VolumeEnvelope.targetVol is of type Top
- Good: VolumeEnvelope.currentVol is of type UndefinedObject
- Bad: WaveletCodec.alpha is of type Top
- Bad: WaveletCodec.beta is of type Top
- Good: WaveletCodec.fwt is of type { FWT UndefinedObject }
- Good: WaveletCodec.samplesPerFrame is of type { Integer++ ScrollingToolHolder UndefinedObject B3DRotation B3DVector3 }
- Bad: WaveletCodec.nLevels is of type Top
- Bad: IRCChannelInfo.name is of type Top
- Bad: IRCChannelInfo.topic is of type Top
- Good: IRCChannelInfo.subscribers is of type { IdentitySet UndefinedObject }
- Good: IRCChannelInfo.members is of type { Set UndefinedObject }
- Good: IRCChannelInfo.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCChannelListBrowser.channelIndex is of type Top
- Bad: IRCChannelListBrowser.channelList is of type Top
- Good: IRCChannelListBrowser.sortCriterion is of type { UndefinedObject #name }
- Bad: IRCChannelListBrowser.connection is of type Top
- Bad: IRCChannelObserver.chatText is of type Top
- Good: IRCChannelObserver.channelName is of type UndefinedObject
- Bad: IRCChannelObserver.channel is of type Top
- Bad: IRCChannelObserver.connection is of type Top
- Bad: IRCChannelSummary.name is of type Top
- Bad: IRCChannelSummary.topic is of type Top
- Bad: IRCChannelSummary.numUsers is of type Top
- Good: IRCChannelUsersBrowser.channel is of type { UndefinedObject IRCChannelInfo }

- Good: IRCChannelUsersBrowser.userList is of type { UndefinedObject Array }
- Bad: IRCChannelUsersBrowser.userIndex is of type Top
- Good: IRCConnection.directMessageSubscribers is of type { IdentitySet UndefinedObject }
- Good: IRCConnection.channelListBeingBuilt is of type { UndefinedObject OrderedCollection }
- Good: IRCConnection.protocolMessagesToSend is of type { UndefinedObject OrderedCollection }
- Bad: IRCConnection.sendBuffer is of type Top
- Bad: IRCConnection.server is of type Top
- Good: IRCConnection.motdBeingBuilt is of type { UndefinedObject WriteStream }
- Good: IRCConnection.protocolMessageSubscribers is of type { IdentitySet UndefinedObject }
- Bad: IRCConnection.motd is of type Top
- Bad: IRCConnection.port is of type Top
- Good: IRCConnection.recieveBuffer is of type { String UndefinedObject }
- Good: IRCConnection.socket is of type { Socket UndefinedObject }
- Bad: IRCConnection.userName is of type Top
- Bad: IRCConnection.nick is of type Top
- Good: IRCConnection.channelList is of type { UndefinedObject Array }
- Good: IRCConnection.subscribedChannels is of type { UndefinedObject Dictionary }
- Bad: IRCConnection.fullName is of type Top
- Good: IRCConnection.messagesProcessed is of type { UndefinedObject SmallInteger }
- Bad: IRCConnection.consoleText is of type Top
- Bad: IRCDirectMessagesObserver.chatText is of type Top
- Bad: IRCDirectMessagesObserver.talkingTo is of type Top

- Bad: IRCDirectMessagesObserver.connection is of type { Boolean++ HtmlComment HtmlText IRCConnection UndefinedObject HtmlTag }
- Bad: IRCMessage.text is of type Top
- Bad: IRCMessage.sender is of type Top
- Bad: IRCMessage.recipient is of type Top
- Good: IRCMessagePattern.sender is of type UndefinedObject
- Good: IRCMessagePattern.recipient is of type UndefinedObject
- Good: IRCMessageSet.messages is of type UndefinedObject
- Bad: IRCMorph.userName is of type Top
- Bad: IRCMorph.nick is of type Top
- Bad: IRCMorph.server is of type Top
- Good: IRCMorph.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCMorph.fullName is of type Top
- Good: IRCMorph.messageCollections is of type UndefinedObject
- Bad: IRCMorph.consoleText is of type Top
- Bad: IRCMorph.port is of type Top
- Bad: IRCProtocolMessage.arguments is of type Top
- Good: IRCProtocolMessage.command is of type { UndefinedObject String Character }
- Bad: IRCProtocolMessage.prefix is of type Top
- Good: IRCRecipientFilter.recipient is of type UndefinedObject
- Good: ChineseCheckerPiece.myBoard is of type { ChineseCheckers UndefinedObject }
- Bad: ChineseCheckerPiece.boardLoc is of type Top
- Bad: ChineseCheckers.movePhase is of type Top
- Good: ChineseCheckers.board is of type { UndefinedObject Array }
- Good: ChineseCheckers.plannedMovePhase is of type UndefinedObject
- Good: ChineseCheckers.sixDeltas is of type { UndefinedObject Array }
- Good: ChineseCheckers.plannedMove is of type UndefinedObject

- Bad: ChineseCheckers.whoseMove is of type Top
- Bad: ChineseCheckers.teams is of type Top
- Good: ChineseCheckers.colors is of type { UndefinedObject Array }
- Good: ChineseCheckers.homes is of type { UndefinedObject Array }
- Good: ChineseCheckers.animateMoves is of type { True UndefinedObject False }
- Good: ChineseCheckers.pathMorphs is of type { UndefinedObject OrderedCollection }
- Good: ChineseCheckers.autoPlay is of type { UndefinedObject Array }
- Good: CipherPanel.originalMorphs is of type { UndefinedObject Array }
- Good: CipherPanel.decodingMorphs is of type { UndefinedObject Array }
- Good: CipherPanel.quote is of type { String++ UndefinedObject Character }
- Good: CipherPanel.originalText is of type UndefinedObject
- Good: CrosticPanel.crosticPanel is of type UndefinedObject
- Good: CrosticPanel.cluesCol2 is of type { AlignmentMorph UndefinedObject }
- Bad: CrosticPanel.quote is of type Top
- Good: CrosticPanel.answers is of type { UndefinedObject OrderedCollection }
- Good: CrosticPanel.clues is of type { UndefinedObject OrderedCollection }
- Good: CrosticPanel.cluesPanel is of type { AlignmentMorph UndefinedObject }
- Good: CrosticPanel.quotePanel is of type { CrosticQuotePanel UndefinedObject }
- Good: CrosticQuotePanel.cluesPanel is of type { CrosticPanel UndefinedObject }
- Good: FreeCell.lastGameLost is of type UndefinedObject
- Good: FreeCell.cardsRemainingDisplay is of type { LedMorph UndefinedObject }

- Good: FreeCell.gameNumberDisplay is of type { LedMorph UndefinedObject }
- Good: FreeCell.state is of type { UndefinedObject #sameGame #pickGame #won #newGame #lost }
- Good: FreeCell.myFillStyle is of type { UndefinedObject GradientFillStyle }
- Good: FreeCell.elapsedTimeDisplay is of type { UndefinedObject LedTimerMorph }
- Good: FreeCell.board is of type { FreeCellBoard UndefinedObject }
- Bad: FreeCell.autoMoveRecursionCount is of type Top
- Bad: FreeCellBoard.target is of type Top
- Bad: FreeCellBoard.actionSelector is of type Top
- Good: FreeCellBoard.stacks is of type { UndefinedObject Array }
- Good: FreeCellBoard.freeCells is of type { UndefinedObject Array }
- Good: FreeCellBoard.homeCells is of type { UndefinedObject Array }
- Good: FreeCellBoard.cardDeck is of type { PlayingCardDeck UndefinedObject }
- Good: FreeCellBoard.lastCardDeck is of type UndefinedObject
- Bad: FreeCellStatistics.streakLosses is of type Top
- Bad: FreeCellStatistics.lastGameWon is of type Top
- Bad: FreeCellStatistics.lastGameLost is of type Top
- Bad: FreeCellStatistics.currentCount is of type Top
- Good: FreeCellStatistics.currentType is of type { UndefinedObject #losses #wins }
- Good: FreeCellStatistics.statsMorph is of type { TextMorph UndefinedObject }
- Good: FreeCellStatistics.window is of type UndefinedObject
- Bad: FreeCellStatistics.sessionLosses is of type Top
- Bad: FreeCellStatistics.lossesWithReplay is of type Top
- Bad: FreeCellStatistics.sessionWins is of type Top
- Bad: FreeCellStatistics.totalWins is of type Top

- Bad: FreeCellStatistics.streakWins is of type Top
- Bad: FreeCellStatistics.totalLosses is of type Top
- Bad: FreeCellStatistics.winsWithReplay is of type Top
- Bad: LedDigitMorph.digit is of type Top
- Good: LedDigitMorph.highlighted is of type { True UndefinedObject False }
- Good: LedMorph.digits is of type { UndefinedObject SmallInteger }
- Bad: LedMorph.flash is of type Top
- Good: LedMorph.flashing is of type { True UndefinedObject False }
- Bad: LedMorph.value is of type Top
- Good: LedTimerMorph.counting is of type { True UndefinedObject False }
- Bad: LedTimerMorph.startSeconds is of type Top
- Bad: PlayingCard.cardNo is of type Top
- Bad: PlayingCard.suitNo is of type Top
- Good: PlayingCard.suit is of type UndefinedObject
- Good: PlayingCard.cardForm is of type { Form UndefinedObject }
- Bad: PlayingCardDeck.target is of type Top
- Bad: PlayingCardDeck.seed is of type Top
- Good: PlayingCardDeck.acceptCardSelector is of type { PlayingCardDeck UndefinedObject #acceptCard:onStack: #acceptSingleCard:on: }
- Good: PlayingCardDeck.cardDraggedSelector is of type { PlayingCardDeck UndefinedObject #dragCard:fromHome: #dragCard:fromStack: }
- Good: PlayingCardDeck.stackingOrder is of type { UndefinedObject #descending #ascending }
- Good: PlayingCardDeck.cardDroppedSelector is of type { PlayingCardDeck UndefinedObject #cardMoved #cardMovedHome }
- Good: PlayingCardDeck.cardDoubleClickSelector is of type { PlayingCardDeck UndefinedObject #doubleClickInStack:OnCard: }

- Good: PlayingCardDeck.stackingPolicy is of type { UndefinedObject #stagger #single #altStraight #straight }
- Good: PlayingCardDeck.emptyDropPolicy is of type { UndefinedObject #inOrder #any }
- Good: PlayingCardDeck.layout is of type { UndefinedObject #stagger #pile #grid }
- Good: PlayingCardMorph.suitNumber is of type { UndefinedObject SmallInteger }
- Bad: PlayingCardMorph.cardNumber is of type Top
- Good: SameGame.scoreDisplay is of type { LedMorph UndefinedObject }
- Good: SameGame.board is of type { UndefinedObject SameGameBoard }
- Good: SameGame.selectionDisplay is of type { LedMorph UndefinedObject }
- Bad: SameGame.helpText is of type { StringHolderView++ PluggableTextMorph++ UndefinedObject }
- Good: SameGameBoard.palette is of type { UndefinedObject OrderedCollection }
- Bad: SameGameBoard.target is of type Top
- Bad: SameGameBoard.columns is of type Top
- Bad: SameGameBoard.actionSelector is of type Top
- Good: SameGameBoard.selectionColor is of type UndefinedObject
- Good: SameGameBoard.flash is of type { True UndefinedObject False }
- Good: SameGameBoard.arguments is of type { UndefinedObject Array }
- Good: SameGameBoard.rows is of type { UndefinedObject SmallInteger }
- Bad: SameGameBoard.protoTile is of type Top
- Bad: SameGameBoard.flashColor is of type Top
- Good: SameGameBoard.selection is of type UndefinedObject
- Bad: SameGameTile.oldSwitchState is of type Top
- Bad: SameGameTile.switchState is of type Top

- Good: SameGameTile.disabled is of type { True UndefinedObject False }
- Good: Tetris.scoreDisplay is of type { LedMorph UndefinedObject }
- Good: Tetris.board is of type { UndefinedObject TetrisBoard }
- Bad: TetrisBlock.shapeInfo is of type Top
- Good: TetrisBlock.board is of type { UndefinedObject TetrisBoard }
- Bad: TetrisBlock.angle is of type Top
- Bad: TetrisBlock.baseCellNumber is of type Top
- Good: TetrisBoard.game is of type { UndefinedObject Tetris }
- Good: TetrisBoard.gameOver is of type { True UndefinedObject False }
- Bad: TetrisBoard.score is of type Top
- Good: TetrisBoard.paused is of type { True UndefinedObject False }
- Bad: TetrisBoard.delay is of type { Magnitude++ UndefinedObject }
- Good: TetrisBoard.currentBlock is of type { TetrisBlock UndefinedObject }
- Good: WordGameLetterMorph.predecessor is of type { WordGameLetterMorph UndefinedObject }
- Good: WordGameLetterMorph.lineMorph is of type { UndefinedObject PolygonMorph }
- Good: WordGameLetterMorph.style is of type { UndefinedObject #plain #boxed #underlined }
- Good: WordGameLetterMorph.letterMorph is of type { StringMorph UndefinedObject }
- Bad: WordGameLetterMorph.letter is of type Top
- Good: WordGameLetterMorph.originalLetter is of type UndefinedObject
- Good: WordGameLetterMorph.successor is of type { WordGameLetterMorph UndefinedObject }
- Bad: WordGameLetterMorph.indexInQuote is of type Top
- Good: WordGameLetterMorph.linkedLetters is of type UndefinedObject
- Bad: WordGamePanelMorph.letterMorphs is of type Top
- Good: WordGamePanelMorph.haveTypedHere is of type { True UndefinedObject False }

- Good: CategoriesFile.categories is of type { UndefinedObject Dictionary }
- Bad: Celeste.currentMessages is of type Top
- Good: Celeste.customFilterBlock is of type UndefinedObject
- Bad: Celeste.status is of type Top
- Bad: Celeste.userPassword is of type Top
- Bad: Celeste.currentMsgID is of type Top
- Bad: Celeste.mailDB is of type Top
- Bad: Celeste.currentCategory is of type Top
- Bad: Celeste.lastCategory is of type Top
- Bad: Celeste.lastCategoryList is of type Top
- Good: Celeste.dateFilter is of type UndefinedObject
- Bad: Celeste.currentTOC is of type Top
- Bad: Celeste.fromFilter is of type Top
- Good: Celeste.formatMessages is of type UndefinedObject
- Good: Celeste.lastCategoryMenu is of type UndefinedObject
- Bad: Celeste.messageTextView is of type { PluggableListView++ PluggableListMorph++ SimpleHierarchicalListMorph++ PluggableTextMorph++ PluggableTextView UndefinedObject }
- Bad: Celeste.subjectFilter is of type Top
- Bad: CelesteComposition.textEditor is of type Top
- Bad: CelesteComposition.celeste is of type Top
- Bad: CelesteComposition.messageText is of type Top
- Good: CelesteComposition.morphicWindow is of type { AlignmentMorphBob1 UndefinedObject SystemWindow }
- Good: CelesteComposition.mvcWindow is of type { StandardSystemView UndefinedObject }
- Good: CelesteComposition.attachmentSeparator is of type UndefinedObject
- Good: FancyCelesteComposition.theLinkToInclude is of type UndefinedObject

- Bad: FancyCelesteComposition.to is of type Top
- Bad: FancyCelesteComposition.subject is of type Top
- Good: FancyCelesteComposition.textFields is of type { UndefinedObject Array }
- Good: IndexFile.msgDictionary is of type { PluggableDictionary UndefinedObject }
- Good: IndexFile.logfile is of type { UndefinedObject StandardFileStream }
- Good: IndexFile.timeSortedEntries is of type { UndefinedObject SortedCollection }
- Bad: IndexFileEntry.time is of type Top
- Bad: IndexFileEntry.msgID is of type Top
- Bad: IndexFileEntry.messageFile is of type Top
- Bad: IndexFileEntry.cc is of type Top
- Bad: IndexFileEntry.tocLineCache is of type Top
- Bad: IndexFileEntry.location is of type Top
- Bad: IndexFileEntry.to is of type Top
- Bad: IndexFileEntry.textLength is of type Top
- Bad: IndexFileEntry.subject is of type Top
- Bad: IndexFileEntry.from is of type Top
- Good: MIMEHeaderValue.mainValue is of type { UndefinedObject String Character }
- Good: MIMEHeaderValue.parameters is of type { UndefinedObject Dictionary }
- Bad: MIMEPart.content is of type Top
- Bad: MIMEPart.parts is of type Top
- Bad: MIMEPart.separator is of type Top
- Bad: MIMEPart.text is of type Top
- Good: MIMEPart.fields is of type { UndefinedObject Dictionary }
- Bad: MailDB.rootFilename is of type Top

- Bad: MailDB.indexFile is of type Top
- Bad: MailDB.messageFile is of type Top
- Bad: MailDB.categoriesFile is of type Top
- Bad: MailDBFile.filename is of type Top
- Bad: MailMessage.time is of type Top
- Bad: MailMessage.separator is of type Top
- Bad: MailMessage.cc is of type Top
- Good: MailMessage.body is of type { UndefinedObject MIMEDocument }
- Bad: MailMessage.to is of type Top
- Bad: MailMessage.text is of type Top
- Bad: MailMessage.subject is of type Top
- Good: MailMessage.fields is of type { UndefinedObject Dictionary }
- Bad: MailMessage.from is of type Top
- Bad: MailMessage.parts is of type Top
- Bad: MailNotifier.lastConnectTime is of type Top
- Bad: MailNotifier.messageCount is of type Top
- Good: MailNotifier.password is of type UndefinedObject
- Good: MailNotifier.socket is of type { UndefinedObject POPSocket }
- Good: MessageFile.file is of type { CrLfFileStream UndefinedObject }
- Bad: ReadNewsInboxFile.currentNewsgroup is of type Top
- Good: ReadNewsInboxFile.msgBuffer is of type { UndefinedObject WriteStream }
- Bad: TextMessageLink.message is of type Top
- Bad: RBAssignmentNode.variable is of type Top
- Bad: RBAssignmentNode.assignment is of type Top
- Bad: RBAssignmentNode.value is of type Top
- Good: RBBlockNode.colons is of type { UndefinedObject OrderedCollection }

- Bad: RBBlockNode.bar is of type Top
- Bad: RBBlockNode.right is of type Top
- Bad: RBBlockNode.left is of type Top
- Bad: RBBlockNode.body is of type Top
- Bad: RBBlockNode.arguments is of type Top
- Bad: RBCascadeNode.messages is of type Top
- Good: RBCascadeNode.semicolons is of type { UndefinedObject OrderedCollection }
- Good: RBFormatter.codeStream is of type { UndefinedObject WriteStream }
- Bad: RBFormatter.lineStart is of type Top
- Bad: RBFormatter.firstLineLength is of type Top
- Bad: RBFormatter.tabs is of type Top
- Bad: RBLiteralNode.token is of type Top
- Bad: RBMessageNode.arguments is of type Top
- Bad: RBMessageNode.receiver is of type Top
- Bad: RBMessageNode.selector is of type Top
- Bad: RBMessageNode.selectorParts is of type Top
- Bad: RBMethodNode.tags is of type Object++
- Bad: RBMethodNode.selector is of type Top
- Bad: RBMethodNode.selectorParts is of type Top
- Bad: RBMethodNode.body is of type Top
- Bad: RBMethodNode.source is of type Top
- Bad: RBMethodNode.arguments is of type Top
- Bad: RBOptimizedNode.body is of type Top
- Bad: RBOptimizedNode.right is of type Top
- Bad: RBOptimizedNode.left is of type Top
- Good: RBParser.scanner is of type { RBScanner UndefinedObject }
- Bad: RBParser.tags is of type Top

- Bad: RBParser.source is of type Top
- Good: RBParser.emptyStatements is of type { True UndefinedObject False }
- Bad: RBParser.currentToken is of type Top
- Good: RBParser.negatedNumbers is of type { True UndefinedObject False }
- Good: RBParser.errorBlock is of type { UndefinedObject a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType }
- Bad: RBParser.nextToken is of type Top
- Good: RBPatternMessageNode.isCascadeList is of type { True UndefinedObject False }
- Good: RBPatternMessageNode.isList is of type { True UndefinedObject False }
- Good: RBPatternMethodNode.isList is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.recurseInto is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isLiteral is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isStatement is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isAnything is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isList is of type { True UndefinedObject False }
- Bad: RBProgramNode.parent is of type Top
- Bad: RBProgramNode.comments is of type Top
- Bad: RBReturnNode.return is of type Top
- Bad: RBReturnNode.value is of type Top
- Bad: RBSequenceNode.rightBar is of type Top
- Good: RBSequenceNode.periods is of type UndefinedObject

- Bad: RBSequenceNode.temporaries is of type Top
- Bad: RBSequenceNode.statements is of type Top
- Bad: RBSequenceNode.leftBar is of type Top
- Good: RBValueNode.parentheses is of type { UndefinedObject OrderedCollection }
- Bad: RBVariableNode.token is of type Top
- Bad: Browser.classOrganizer is of type Top
- Bad: Browser.systemOrganizer is of type Top
- Bad: Browser.messageListIndex is of type Top
- Bad: Browser.messageCategoryListIndex is of type Top
- Good: Browser.editSelection is of type { Boolean++ UndefinedObject #hierarchy #editClass #editComment #none #editMessageCategories #newClass #editMessage #newMessage #editSystemCategories #byteCodes }
- Bad: Browser.metaClassOrganizer is of type Top
- Bad: Browser.systemCategoryListIndex is of type Top
- Bad: Browser.metaClassIndicated is of type Top
- Bad: Browser.classListIndex is of type Top
- Bad: ChangedMessageSet.changeSet is of type Top
- Bad: HierarchyBrowser.centralClass is of type Top
- Bad: HierarchyBrowser.classList is of type Top
- Bad: MessageSet.messageList is of type Top
- Bad: MessageSet.autoSelectString is of type Top
- Bad: PackageBrowser.package is of type Top
- Bad: PackageBrowser.packageListIndex is of type Top
- Good: PackageBrowser.packageList is of type UndefinedObject
- Good: ProtocolBrowser.selectedClass is of type UndefinedObject
- Bad: ProtocolBrowser.selectedSelector is of type Top
- Bad: SelectorBrowser.classListIndex is of type Top
- Bad: SelectorBrowser.classList is of type Top

- Bad: SelectorBrowser.selectorIndex is of type Top
- Bad: SelectorBrowser.selectorList is of type Top
- Bad: BitBltSimulation.sy is of type Top
- Bad: BitBltSimulation.halftoneBase is of type Top
- Bad: BitBltSimulation.cmBlueShift is of type { SequenceableCollection++ Integer++ B3DIndexedQuad UndefinedObject B3DPrimitiveRasterizerData B3DIndexedTriangle }
- Bad: BitBltSimulation.destWidth is of type Top
- Bad: BitBltSimulation.destX is of type Top
- Bad: BitBltSimulation.width is of type Top
- Bad: BitBltSimulation.scanString is of type Top
- Bad: BitBltSimulation.sourceBits is of type Top
- Bad: BitBltSimulation.scanStop is of type Top
- Bad: BitBltSimulation.dy is of type Top
- Good: BitBltSimulation.warpBitShiftTable is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.destPixSize is of type Top
- Bad: BitBltSimulation.pixPerWord is of type Top
- Good: BitBltSimulation.ditherValues16 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.cmRedMask is of type Top
- Bad: BitBltSimulation.warpSrcMask is of type Top
- Bad: BitBltSimulation.dstBitShift is of type Top
- Bad: BitBltSimulation.destIndex is of type Top
- Bad: BitBltSimulation.sourceIndex is of type Top
- Bad: BitBltSimulation.clipX is of type Top
- Good: BitBltSimulation.hDir is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.nWords is of type Top
- Bad: BitBltSimulation.clipHeight is of type Top

- Bad: BitBltSimulation.bitBltOop is of type Top
- Bad: BitBltSimulation.preload is of type Top
- Bad: BitBltSimulation.opTable is of type Top
- Bad: BitBltSimulation.sourceForm is of type Top
- Bad: BitBltSimulation.warpAlignMask is of type Top
- Bad: BitBltSimulation.skew is of type Top
- Bad: BitBltSimulation.cmDeltaBits is of type { SequenceableCollection++ Integer++ UndefinedObject B3DIndexedQuad B3DPrimitiveRasterizerData B3DIndexedTriangle }
- Good: BitBltSimulation.ditherMatrix4x4 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.sourceY is of type Top
- Bad: BitBltSimulation.scanStart is of type Top
- Bad: BitBltSimulation.cmGreenShift is of type Top
- Bad: BitBltSimulation.destBits is of type Top
- Bad: BitBltSimulation.destPitch is of type Top
- Bad: BitBltSimulation.height is of type Top
- Bad: BitBltSimulation.sourcePitch is of type Top
- Bad: BitBltSimulation.destY is of type Top
- Bad: BitBltSimulation.affectedL is of type Top
- Good: BitBltSimulation.maskTable is of type { UndefinedObject Array }
- Good: BitBltSimulation.scanDisplayFlag is of type { True UndefinedObject False }
- Bad: BitBltSimulation.mask1 is of type Top
- Bad: BitBltSimulation.destDelta is of type Top
- Good: BitBltSimulation.noHalftone is of type { True UndefinedObject False }
- Bad: BitBltSimulation.clipWidth is of type Top
- Bad: BitBltSimulation.destForm is of type Top
- Bad: BitBltSimulation.sx is of type Top

- Bad: BitBltSimulation.clipY is of type Top
- Bad: BitBltSimulation.scanRightX is of type Top
- Bad: BitBltSimulation.cmBlueMask is of type Top
- Bad: BitBltSimulation.halftoneHeight is of type Top
- Bad: BitBltSimulation.affectedT is of type Top
- Bad: BitBltSimulation.sourcePixSize is of type Top
- Bad: BitBltSimulation.cmRedShift is of type Top
- Good: BitBltSimulation.noSource is of type { True UndefinedObject False }
- Bad: BitBltSimulation.dx is of type Top
- Bad: BitBltSimulation.destMask is of type Top
- Bad: BitBltSimulation.affectedB is of type Top
- Bad: BitBltSimulation.cmGreenMask is of type Top
- Good: BitBltSimulation.hasSurfaceLock is of type { True UndefinedObject False }
- Bad: BitBltSimulation.stopCode is of type Top
- Bad: BitBltSimulation.combinationRule is of type Top
- Bad: BitBltSimulation.bitCount is of type Top
- Good: BitBltSimulation.vDir is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.destHeight is of type Top
- Good: BitBltSimulation.cmBitsPerColor is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.bbH is of type Top
- Bad: BitBltSimulation.bbW is of type Top
- Bad: BitBltSimulation.srcWidth is of type Top
- Bad: BitBltSimulation.affectedR is of type Top
- Good: BitBltSimulation.ditherThresholds16 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.sourceDelta is of type Top

- Bad: BitBltSimulation.warpSrcShift is of type Top
- Bad: BitBltSimulation.halftoneForm is of type Top
- Bad: BitBltSimulation.mask2 is of type Top
- Bad: BitBltSimulation.scanXTable is of type Top
- Bad: BitBltSimulation.scanStopArray is of type Top
- Bad: BitBltSimulation.sourceAlpha is of type Top
- Bad: BitBltSimulation.colorMap is of type Top
- Bad: BitBltSimulation.warpAlignShift is of type Top
- Bad: BitBltSimulation.sourceX is of type Top
- Bad: BitBltSimulation.srcBitShift is of type Top
- Bad: BitBltSimulation.srcHeight is of type Top
- Bad: Interpreter.activeContext is of type Top
- Bad: Interpreter.nextWakeupTick is of type Top
- Bad: Interpreter.localIP is of type Top
- Bad: Interpreter.localHomeContext is of type Top
- Good: Interpreter.methodCache is of type { UndefinedObject Array }
- Bad: Interpreter.interruptKeycode is of type Top
- Bad: Interpreter.semaphoresToSignalCountA is of type Top
- Bad: Interpreter.interruptCheckCounterFeedBackReset is of type Top
- Good: Interpreter.interpreterVersion is of type UndefinedObject
- Good: Interpreter.obsoleteNamedPrimitiveTable is of type { CArrayAccessor UndefinedObject }
- Good: Interpreter.interpreterProxy is of type { UndefinedObject InterpreterSimulator InterpreterSimulatorMSB InterpreterSimulatorLSB }
- Bad: Interpreter.receiver is of type Top
- Bad: Interpreter.stackPointer is of type Top
- Bad: Interpreter.receiverClass is of type Top
- Good: Interpreter.obsoleteIndexedPrimitiveTable is of type { CArrayAccessor UndefinedObject }

- Bad: Interpreter.successFlag is of type Top
- Good: Interpreter.compilerHooks is of type UndefinedObject
- Bad: Interpreter.fullScreenFlag is of type { Interpreter InterpreterSimulator InterpreterSimulatorLSB UndefinedObject InterpreterSimulatorMSB }
- Bad: Interpreter.primitiveIndex is of type Top
- Good: Interpreter.semaphoresToSignalB is of type { UndefinedObject Array }
- Bad: Interpreter.compilerInitialized is of type Top
- Bad: Interpreter.localSP is of type Top
- Bad: Interpreter.instructionPointer is of type Top
- Good: Interpreter.semaphoresUseBufferA is of type { True UndefinedObject False }
- Good: Interpreter.deferDisplayUpdates is of type { True UndefinedObject False }
- Bad: Interpreter.theHomeContext is of type Top
- Bad: Interpreter.extraVMMemory is of type Top
- Bad: Interpreter.method is of type Top
- Bad: Interpreter.pendingFinalizationSignals is of type Top
- Bad: Interpreter.newMethod is of type Top
- Good: Interpreter.semaphoresToSignalA is of type { UndefinedObject Array }
- Bad: Interpreter.methodClass is of type Top
- Bad: Interpreter.newNativeMethod is of type Top
- Good: Interpreter.atCache is of type { UndefinedObject Array }
- Bad: Interpreter.argumentCount is of type Top
- Bad: Interpreter.currentBytecode is of type Top
- Good: Interpreter.interruptPending is of type { False UndefinedObject }
- Good: Interpreter.interruptChecksEveryNms is of type { UndefinedObject SmallInteger }
- Bad: Interpreter.nextPollTick is of type Top

- Bad: Interpreter.lkupClass is of type Top
- Bad: Interpreter.reclaimableContextCount is of type Top
- Bad: Interpreter.savedWindowSize is of type Top
- Bad: Interpreter.lastTick is of type Top
- Bad: Interpreter.semaphoresToSignalCountB is of type Top
- Bad: Interpreter.messageSelector is of type Top
- Bad: Interpreter.showSurfaceFn is of type Top
- Good: InterpreterSimulator.myBitBlt is of type { False UndefinedObject BitBltSimulator }
- Good: InterpreterSimulator.traceOn is of type { UndefinedObject True }
- Bad: InterpreterSimulator.imageName is of type Top
- Bad: InterpreterSimulator.pluginList is of type Top
- Bad: InterpreterSimulator.sendCount is of type Top
- Good: InterpreterSimulator.displayForm is of type { Form UndefinedObject }
- Bad: InterpreterSimulator.mappedPluginEntries is of type Top
- Good: InterpreterSimulator.filesOpen is of type { UndefinedObject OrderedCollection }
- Bad: InterpreterSimulator.byteCount is of type Top
- Good: ObjectMemory.signalLowSpace is of type { True UndefinedObject False }
- Bad: ObjectMemory.tenuringThreshold is of type Top
- Bad: ObjectMemory.lastHash is of type Top
- Bad: ObjectMemory.statIncrGCMSecs is of type Top
- Good: ObjectMemory.remapBuffer is of type { UndefinedObject Array }
- Bad: ObjectMemory.trueObj is of type Top
- Bad: ObjectMemory.statFullGCMSecs is of type Top
- Bad: ObjectMemory.freeLargeContexts is of type Top
- Bad: ObjectMemory.lowSpaceThreshold is of type Top
- Bad: ObjectMemory.allocationsBetweenGCs is of type Top

- Bad: ObjectMemory.interruptCheckCounter is of type Top
- Bad: ObjectMemory.freeContexts is of type Top
- Bad: ObjectMemory.compStart is of type Top
- Bad: ObjectMemory.youngStart is of type Top
- Bad: ObjectMemory.compEnd is of type Top
- Bad: ObjectMemory.totalObjectFoundAtStartup is of type Top
- Bad: ObjectMemory.memoryLimit is of type Top
- Bad: ObjectMemory.endOfMemory is of type Top
- Bad: ObjectMemory.specialObjectsOop is of type Top
- Bad: ObjectMemory.statFullGCs is of type Top
- Bad: ObjectMemory.statTenures is of type Top
- Bad: ObjectMemory.nilObj is of type Top
- Bad: ObjectMemory.child is of type Top
- Bad: ObjectMemory.fwdTableLast is of type Top
- Bad: ObjectMemory.fwdTableNext is of type Top
- Bad: ObjectMemory.rootTableCount is of type Top
- Bad: ObjectMemory.allocationCount is of type Top
- Bad: ObjectMemory.falseObj is of type Top
- Bad: ObjectMemory.remapBufferCount is of type Top
- Bad: ObjectMemory.parentField is of type Top
- Bad: ObjectMemory.field is of type Top
- Good: ObjectMemory.memory is of type { Interpreter UndefinedObject InterpreterSimulatorMSB InterpreterSimulatorLSB Bitmap InterpreterSimulator }
- Bad: ObjectMemory.freeBlock is of type Top
- Bad: ObjectMemory.statRootTableOverflows is of type Top
- Good: ObjectMemory.rootTable is of type { UndefinedObject Array }
- Bad: ObjectMemory.statIncrGCs is of type Top

- Good: ObjectMemory.displayBits is of type { UndefinedObject SmallInteger }
- Bad: SystemMonitor.vmParameters is of type Top
- Bad: SystemMonitor.gcHighWaterMark is of type Top
- Bad: SystemMonitor.baselineSkip is of type Top
- Bad: SystemMonitor.prevAllocCount is of type Top
- Bad: SystemMonitor.prevDeltaIncrGC is of type Top
- Bad: SystemMonitor.prevMcMiss is of type Top
- Good: SystemMonitor.window is of type { UndefinedObject Rectangle }
- Bad: SystemMonitor.prevDeltaFullGC is of type Top
- Bad: SystemMonitor.prevFullGC is of type Top
- Good: SystemMonitor.valSelectors is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevIncrGC is of type Top
- Bad: SystemMonitor.prevMsClock is of type Top
- Good: SystemMonitor.maxValues is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevAllocRate is of type Top
- Bad: SystemMonitor.gcLowWaterMark is of type Top
- Good: SystemMonitor.labels is of type { UndefinedObject Array }
- Good: SystemMonitor.minValues is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevIcHit is of type Top
- Bad: SystemMonitor.prevMcHit is of type Top
- Good: SystemTracer.hashGenerator is of type { Random UndefinedObject }
- Bad: SystemTracer.maxOop is of type Top
- Good: SystemTracer.map is of type UndefinedObject
- Good: SystemTracer.initialProcess is of type UndefinedObject
- Good: SystemTracer.oopMap is of type { UndefinedObject Array }
- Bad: SystemTracer.specialObjects is of type Top
- Good: SystemTracer.file is of type { CrLfFileStream UndefinedObject }

- Good: SystemTracer.cleaningUp is of type { False UndefinedObject }
- Good: SystemTracer.writeDict is of type { UndefinedObject Dictionary }
- Good: SystemTracer.imageHeaderSize is of type { UndefinedObject SmallInteger }
- Good: SystemTracer.compactClasses is of type { UndefinedObject Array }
- Good: SystemTracer.replacementClasses is of type { UndefinedObject Dictionary }
- Bad: TestInterfaceBase.duration is of type Top
- Bad: TestInterfaceBase.classPattern is of type Top
- Bad: TestInterfaceBase.result is of type Top
- Bad: TestInterfaceBase.selectorPattern is of type Top
- Good: TestModel.failureList is of type { UndefinedObject OrderedCollection }
- Bad: TestModel.patternHistory is of type Top
- Good: TestModel.errorList is of type { UndefinedObject OrderedCollection }
- Bad: TestModel.summaryText is of type Top
- Bad: TestModel.summaryTextM is of type { PluggableTextMorph++ PluggableTextView UndefinedObject }
- Good: TestModel.summaryTextV is of type { PluggableTextView UndefinedObject }
- Good: TestModel.updateColorSelector is of type { UndefinedObject #updateColorM #updateColorV }
- Good: TestModel.patternTextV is of type { PluggableTextView UndefinedObject }
- Bad: TestModel.patternTextM is of type { PluggableTextMorph++ PluggableTextView UndefinedObject }
- Bad: TestModel.detailsText is of type Top
- Bad: PDA.recurringEvents is of type Top
- Good: PDA.peopleList is of type { ArrayedCollection++ UndefinedObject }

- Bad: PDA.date is of type Top
- Good: PDA.dateButtonPressed is of type UndefinedObject
- Bad: PDA.allEvents is of type Top
- Bad: PDA.category is of type Top
- Bad: PDA.currentItem is of type Top
- Bad: PDA.scheduleList is of type Top
- Good: PDA.categoryListIndex is of type UndefinedObject
- Bad: PDA.allPeople is of type Top
- Bad: PDA.scheduleListIndex is of type Top
- Bad: PDA.allToDoItems is of type Top
- Bad: PDA.allNotes is of type Top
- Bad: PDA.notesListIndex is of type Top
- Good: PDA.currentItemSelection is of type UndefinedObject
- Good: PDA.categoryList is of type UndefinedObject
- Bad: PDA.toDoList is of type Top
- Bad: PDA.toDoListIndex is of type Top
- Bad: PDA.peopleListIndex is of type Top
- Good: PDA.notesList is of type { ArrayedCollection++ UndefinedObject }
- Good: PDA.currentItemText is of type UndefinedObject
- Bad: PDA.userCategories is of type Top
- Good: PDA.viewDescriptionOnly is of type { True UndefinedObject False }
- Bad: PDAChoiceMorph.backgroundColor is of type Top
- Bad: PDAClockMorph.backgroundColor is of type Top
- Bad: PDAEvent.time is of type Top
- Bad: PDAEvent.date is of type Top
- Bad: PDAEvent.duration is of type Top
- Good: PDAEvent.alarm is of type UndefinedObject

- Bad: PDAPerson.name is of type Top
- Bad: PDAPerson.address is of type Top
- Good: PDAPerson.phone is of type { String UndefinedObject }
- Good: PDAPerson.email is of type { String UndefinedObject }
- Bad: PDARecord.description is of type Top
- Bad: PDARecord.key is of type Top
- Good: PDARecord.otherFields is of type { UndefinedObject Dictionary }
- Good: PDARecurringEvent.recurrence is of type { UndefinedObject #dayOfMonth #dayOfWeek #nthWeekdayOfMonthEachYear #dateOfYear }
- Bad: PDARecurringEvent.firstDate is of type Top
- Bad: PDARecurringEvent.lastDate is of type Top
- Good: PDAToDoItem.deadline is of type UndefinedObject
- Bad: PDAToDoItem.result is of type Top
- Bad: PDAToDoItem.dayDone is of type Top
- Bad: PDAToDoItem.dayPosted is of type Top
- Bad: PDAToDoItem.priority is of type Top

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- Bad: PDA.recurringEvents is of type Top
- Good: PDA.peopleList is of type { ArrayedCollection++ UndefinedObject }
- Bad: PDA.date is of type Top
- Good: PDA.dateButtonPressed is of type UndefinedObject
- Bad: PDA.allEvents is of type Top
- Bad: PDA.category is of type Top
- Bad: PDA.currentItem is of type Top
- Good: PDA.scheduleList is of type { ArrayedCollection++ UndefinedObject }
- Good: PDA.categoryListIndex is of type UndefinedObject

- Bad: PDA.allPeople is of type Top
- Bad: PDA.scheduleListIndex is of type Top
- Bad: PDA.allToDoItems is of type Top
- Bad: PDA.allNotes is of type Top
- Bad: PDA.notesListIndex is of type Top
- Good: PDA.currentItemSelection is of type UndefinedObject
- Good: PDA.categoryList is of type UndefinedObject
- Good: PDA.toDoList is of type { ArrayedCollection++ UndefinedObject }
- Bad: PDA.toDoListIndex is of type Top
- Bad: PDA.peopleListIndex is of type Top
- Good: PDA.notesList is of type { ArrayedCollection++ UndefinedObject }
- Good: PDA.currentItemText is of type UndefinedObject
- Bad: PDA.userCategories is of type Top
- Good: PDA.viewDescriptionOnly is of type { True UndefinedObject False }
- Bad: PDAChoiceMorph.backgroundColor is of type Top
- Bad: PDAClockMorph.backgroundColor is of type Top
- Bad: PDAEvent.time is of type Top
- Bad: PDAEvent.date is of type Top
- Bad: PDAEvent.duration is of type Top
- Good: PDAEvent.alarm is of type UndefinedObject
- Bad: PDAPerson.name is of type Top
- Bad: PDAPerson.address is of type Top
- Good: PDAPerson.phone is of type { String UndefinedObject }
- Good: PDAPerson.email is of type { String UndefinedObject }
- Bad: PDARecord.description is of type Top
- Bad: PDARecord.key is of type Top

- Good: PDARecord.otherFields is of type { UndefinedObject Dictionary }
- Good: PDARecurringEvent.recurrence is of type { UndefinedObject #nthWeekdayOfMonthEachYear #dayOfWeek #dayOfMonth #dateOfYear }
- Bad: PDARecurringEvent.firstDate is of type Top
- Bad: PDARecurringEvent.lastDate is of type Top
- Good: PDAToDoItem.deadline is of type UndefinedObject
- Bad: PDAToDoItem.result is of type Top
- Bad: PDAToDoItem.dayDone is of type Top
- Bad: PDAToDoItem.dayPosted is of type Top
- Bad: PDAToDoItem.priority is of type Top
- Bad: IRCChannelInfo.name is of type Top
- Bad: IRCChannelInfo.topic is of type Top
- Good: IRCChannelInfo.subscribers is of type { IdentitySet UndefinedObject }
- Good: IRCChannelInfo.members is of type { Set UndefinedObject }
- Good: IRCChannelInfo.connection is of type { IRCConnection UndefinedObject }
- Good: IRCChannelListBrowser.channelIndex is of type { UndefinedObject SmallInteger }
- Good: IRCChannelListBrowser.channelList is of type { Array UndefinedObject SortedCollection }
- Good: IRCChannelListBrowser.sortCriterion is of type { UndefinedObject #name }
- Good: IRCChannelListBrowser.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCChannelObserver.chatText is of type Top
- Good: IRCChannelObserver.channelName is of type UndefinedObject
- Bad: IRCChannelObserver.channel is of type Top
- Good: IRCChannelObserver.connection is of type { IRCConnection UndefinedObject }

- Bad: IRCChannelSummary.name is of type Top
- Bad: IRCChannelSummary.topic is of type Top
- Bad: IRCChannelSummary.numUsers is of type Top
- Good: IRCChannelUsersBrowser.channel is of type { UndefinedObject IRCChannelInfo }
- Good: IRCChannelUsersBrowser.userList is of type { UndefinedObject Array }
- Bad: IRCChannelUsersBrowser.userIndex is of type Top
- Good: IRCConnection.directMessageSubscribers is of type { IdentitySet UndefinedObject }
- Good: IRCConnection.channelListBeingBuilt is of type { UndefinedObject OrderedCollection }
- Good: IRCConnection.protocolMessagesToSend is of type { UndefinedObject OrderedCollection }
- Bad: IRCConnection.sendBuffer is of type Top
- Bad: IRCConnection.server is of type Top
- Good: IRCConnection.motdBeingBuilt is of type { UndefinedObject WriteStream }
- Good: IRCConnection.protocolMessageSubscribers is of type { IdentitySet UndefinedObject }
- Bad: IRCConnection.motd is of type Top
- Bad: IRCConnection.port is of type Top
- Good: IRCConnection.recieveBuffer is of type { String UndefinedObject }
- Good: IRCConnection.socket is of type { Socket UndefinedObject }
- Bad: IRCConnection.userName is of type Top
- Bad: IRCConnection.nick is of type Top
- Good: IRCConnection.channelList is of type { UndefinedObject Array }
- Good: IRCConnection.subscribedChannels is of type { UndefinedObject Dictionary }
- Bad: IRCConnection.fullName is of type Top

- Good: IRCConnection.messagesProcessed is of type { UndefinedObject SmallInteger }
- Bad: IRCConnection.consoleText is of type Top
- Bad: IRCDirectMessagesObserver.chatText is of type Top
- Bad: IRCDirectMessagesObserver.talkingTo is of type Top
- Good: IRCDirectMessagesObserver.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCMessage.text is of type Top
- Bad: IRCMessage.sender is of type Top
- Bad: IRCMessage.recipient is of type Top
- Good: IRCMessagePattern.sender is of type UndefinedObject
- Good: IRCMessagePattern.recipient is of type UndefinedObject
- Good: IRCMessageSet.messages is of type UndefinedObject
- Bad: IRCMorph.userName is of type Top
- Bad: IRCMorph.nick is of type Top
- Bad: IRCMorph.server is of type Top
- Good: IRCMorph.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCMorph.fullName is of type Top
- Good: IRCMorph.messageCollections is of type UndefinedObject
- Bad: IRCMorph.consoleText is of type Top
- Bad: IRCMorph.port is of type Top
- Bad: IRCProtocolMessage.arguments is of type Top
- Good: IRCProtocolMessage.command is of type { UndefinedObject String Character }
- Bad: IRCProtocolMessage.prefix is of type Top
- Good: IRCRecipientFilter.recipient is of type UndefinedObject
- Good: CategoriesFile.categories is of type { UndefinedObject Dictionary }
- Bad: Celeste.currentMessages is of type Top

- Good: Celeste.customFilterBlock is of type { UndefinedObject Compiler }
- Bad: Celeste.status is of type Top
- Bad: Celeste.userPassword is of type Top
- Bad: Celeste.currentMsgID is of type Top
- Bad: Celeste.mailDB is of type Top
- Bad: Celeste.currentCategory is of type Top
- Bad: Celeste.lastCategory is of type Top
- Good: Celeste.lastCategoryList is of type UndefinedObject
- Good: Celeste.dateFilter is of type UndefinedObject
- Bad: Celeste.currentTOC is of type Top
- Bad: Celeste.fromFilter is of type Top
- Good: Celeste.formatMessages is of type UndefinedObject
- Good: Celeste.lastCategoryMenu is of type UndefinedObject
- Bad: Celeste.messageTextView is of type { PluggableListMorph++ SimpleHierarchicalListMorph++ PluggableListView++ PluggableTextMorph++ PluggableTextView UndefinedObject }
- Bad: Celeste.subjectFilter is of type Top
- Bad: CelesteComposition.textEditor is of type Top
- Bad: CelesteComposition.celeste is of type Top
- Bad: CelesteComposition.messageText is of type Top
- Good: CelesteComposition.morphicWindow is of type { AlignmentMorphBob1 UndefinedObject SystemWindow }
- Good: CelesteComposition.mvcWindow is of type { StandardSystemView UndefinedObject }
- Good: CelesteComposition.attachmentSeparator is of type UndefinedObject
- Good: FancyCelesteComposition.theLinkToInclude is of type UndefinedObject
- Bad: FancyCelesteComposition.to is of type Top
- Bad: FancyCelesteComposition.subject is of type Top

- Good: FancyCelesteComposition.textFields is of type { UndefinedObject Array }
- Good: IndexFile.msgDictionary is of type { PluggableDictionary UndefinedObject }
- Good: IndexFile.logfile is of type { UndefinedObject StandardFileStream }
- Good: IndexFile.timeSortedEntries is of type { UndefinedObject SortedCollection }
- Bad: IndexFileEntry.time is of type Top
- Bad: IndexFileEntry.msgID is of type Top
- Bad: IndexFileEntry.messageFile is of type Top
- Bad: IndexFileEntry.cc is of type Top
- Bad: IndexFileEntry.tocLineCache is of type Top
- Bad: IndexFileEntry.location is of type Top
- Bad: IndexFileEntry.to is of type Top
- Bad: IndexFileEntry.textLength is of type Top
- Bad: IndexFileEntry.subject is of type Top
- Bad: IndexFileEntry.from is of type Top
- Good: MIMEHeaderValue.mainValue is of type { UndefinedObject String Character }
- Good: MIMEHeaderValue.parameters is of type { UndefinedObject Dictionary }
- Bad: MIMEPart.content is of type { SequenceableCollection++ Integer++ UndefinedObject B3DIndexedQuad B3DPrimitiveRasterizerData B3DIndexedTriangle }
- Good: MIMEPart.parts is of type { Array UndefinedObject OrderedCollection }
- Bad: MIMEPart.separator is of type Top
- Bad: MIMEPart.text is of type Top
- Good: MIMEPart.fields is of type { UndefinedObject Dictionary }
- Bad: MailDB.rootFilename is of type Top

- Bad: MailDB.indexFile is of type Top
- Bad: MailDB.messageFile is of type Top
- Bad: MailDB.categoriesFile is of type Top
- Bad: MailDBFile.filename is of type Top
- Bad: MailMessage.time is of type Top
- Bad: MailMessage.separator is of type Top
- Bad: MailMessage.cc is of type Top
- Good: MailMessage.body is of type { UndefinedObject MIMEDocument }
- Bad: MailMessage.to is of type Top
- Bad: MailMessage.text is of type Top
- Good: MailMessage.subject is of type { String UndefinedObject }
- Good: MailMessage.fields is of type { UndefinedObject Dictionary }
- Good: MailMessage.from is of type { String UndefinedObject }
- Good: MailMessage.parts is of type { Array UndefinedObject OrderedCollection }
- Bad: MailNotifier.lastConnectTime is of type Top
- Bad: MailNotifier.messageCount is of type Top
- Good: MailNotifier.password is of type UndefinedObject
- Good: MailNotifier.socket is of type { UndefinedObject POPSocket }
- Good: MessageFile.file is of type UndefinedObject
- Bad: ReadNewsInboxFile.currentNewsgroup is of type Top
- Good: ReadNewsInboxFile.msgBuffer is of type { UndefinedObject WriteStream }
- Bad: TextMessageLink.message is of type Top
- Bad: RBAssignmentNode.variable is of type Top
- Bad: RBAssignmentNode.assignment is of type Top
- Bad: RBAssignmentNode.value is of type Top
- Good: RBBlockNode.colons is of type { UndefinedObject OrderedCollection }

- Bad: RBBlockNode.bar is of type Top
- Bad: RBBlockNode.right is of type Top
- Bad: RBBlockNode.left is of type Top
- Bad: RBBlockNode.body is of type Top
- Bad: RBBlockNode.arguments is of type Top
- Bad: RBCascadeNode.messages is of type Top
- Good: RBCascadeNode.semicolons is of type { UndefinedObject OrderedCollection }
- Good: RBFormatter.codeStream is of type { UndefinedObject WriteStream }
- Bad: RBFormatter.lineStart is of type Top
- Bad: RBFormatter.firstLineLength is of type Top
- Bad: RBFormatter.tabs is of type Top
- Bad: RBLiteralNode.token is of type Top
- Bad: RBMessageNode.arguments is of type Top
- Bad: RBMessageNode.receiver is of type Top
- Bad: RBMessageNode.selector is of type Top
- Bad: RBMessageNode.selectorParts is of type Top
- Bad: RBMethodNode.tags is of type Object++
- Bad: RBMethodNode.selector is of type Top
- Bad: RBMethodNode.selectorParts is of type Top
- Bad: RBMethodNode.body is of type Top
- Bad: RBMethodNode.source is of type Top
- Bad: RBMethodNode.arguments is of type Top
- Bad: RBOptimizedNode.body is of type Top
- Bad: RBOptimizedNode.right is of type Top
- Bad: RBOptimizedNode.left is of type Top
- Good: RBParser.scanner is of type { RBScanner UndefinedObject }
- Good: RBParser.tags is of type { UndefinedObject OrderedCollection }

- Bad: RBParser.source is of type Top
- Good: RBParser.emptyStatements is of type { True UndefinedObject False }
- Bad: RBParser.currentToken is of type Top
- Good: RBParser.negatedNumbers is of type { True UndefinedObject False }
- Bad: RBParser.errorBlock is of type Top
- Bad: RBParser.nextToken is of type Top
- Good: RBPatternMessageNode.isCascadeList is of type { True UndefinedObject False }
- Good: RBPatternMessageNode.isList is of type { True UndefinedObject False }
- Good: RBPatternMethodNode.isList is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.recurseInto is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isLiteral is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isStatement is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isAnything is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isList is of type { True UndefinedObject False }
- Bad: RBProgramNode.parent is of type Top
- Bad: RBProgramNode.comments is of type { OrderedCollection++ Array UndefinedObject Heap }
- Bad: RBReturnNode.return is of type Top
- Bad: RBReturnNode.value is of type Top
- Bad: RBSequenceNode.rightBar is of type Top
- Good: RBSequenceNode.periods is of type { UndefinedObject OrderedCollection }
- Bad: RBSequenceNode.temporaries is of type Top

- Bad: RBSequenceNode.statements is of type Top
- Bad: RBSequenceNode.leftBar is of type Top
- Good: RBValueNode.parentheses is of type { UndefinedObject OrderedCollection }
- Good: RBVariableNode.token is of type { RBIdentifierToken UndefinedObject }
- Bad: ADPCMCodec.index is of type Top
- Good: ADPCMCodec.indexTable is of type { Array UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.deltaSignMask is of type Top
- Bad: ADPCMCodec.bitPosition is of type Top
- Bad: ADPCMCodec.encodedBytes is of type Top
- Good: ADPCMCodec.stepSizeTable is of type { Array UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.sampleIndex is of type Top
- Good: ADPCMCodec.rightSamples is of type { UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.byteIndex is of type Top
- Bad: ADPCMCodec.frameSizeMask is of type Top
- Bad: ADPCMCodec.bitsPerSample is of type Top
- Bad: ADPCMCodec.predicted is of type Top
- Bad: ADPCMCodec.deltaValueHighBit is of type Top
- Bad: ADPCMCodec.deltaValueMask is of type Top
- Bad: ADPCMCodec.currentByte is of type Top
- Bad: ADPCMCodec.samples is of type Top
- Bad: AIFFFileReader.channelData is of type Top
- Bad: AIFFFileReader.frameCount is of type Top
- Bad: AIFFFileReader.isLooped is of type Top
- Good: AIFFFileReader.gain is of type { SmallInteger UndefinedObject Float }

- Bad: AIFFFileReader.in is of type Top
- Bad: AIFFFileReader.fileType is of type Top
- Bad: AIFFFileReader.pitch is of type Top
- Good: AIFFFileReader.markers is of type { UndefinedObject Array }
- Good: AIFFFileReader.channelCount is of type { UndefinedObject SmallInteger }
- Good: AIFFFileReader.bitsPerSample is of type { UndefinedObject SmallInteger }
- Good: AIFFFileReader.mergeIfStereo is of type { True UndefinedObject False }
- Good: AIFFFileReader.skipDataChunk is of type { True UndefinedObject False }
- Bad: AIFFFileReader.samplingRate is of type Top
- Bad: AbstractSound.envelopes is of type Top
- Bad: AbstractSound.mSecsSinceStart is of type Top
- Bad: AbstractSound.scaledVolLimit is of type Top
- Bad: AbstractSound.scaledVol is of type Top
- Bad: AbstractSound.samplesUntilNextControl is of type Top
- Bad: AbstractSound.scaledVolIncr is of type Top
- Bad: CompressedSoundData.perceivedPitch is of type Top
- Bad: CompressedSoundData.codecName is of type Top
- Good: CompressedSoundData.channels is of type { UndefinedObject Array }
- Bad: CompressedSoundData.gain is of type Top
- Bad: CompressedSoundData.firstSample is of type Top
- Good: CompressedSoundData.soundClassName is of type { UndefinedObject Symbol }
- Bad: CompressedSoundData.cachedSound is of type { WaveletCodec MuLawCodec ADPCMCodec SoundCodec UndefinedObject LoopedSampledSound GSMCodec SampledSound }
- Bad: CompressedSoundData.loopLength is of type Top

- Bad: CompressedSoundData.samplingRate is of type Top
- Bad: CompressedSoundData.loopEnd is of type Top
- Bad: Envelope.target is of type Top
- Bad: Envelope.scale is of type Top
- Good: Envelope.updateSelector is of type { UndefinedObject #pitch: #modulation: #ratio: }
- Bad: Envelope.loopEndMSecs is of type { Magnitude++ UndefinedObject }
- Bad: Envelope.endMSecs is of type Top
- Bad: Envelope.currValue is of type Top
- Bad: Envelope.loopStartIndex is of type Top
- Bad: Envelope.valueIncr is of type Top
- Good: Envelope.noChangesDuringLoop is of type { True UndefinedObject False }
- Bad: Envelope.nextRecomputeTime is of type Top
- Bad: Envelope.loopEndIndex is of type Top
- Bad: Envelope.loopMSecs is of type Top
- Bad: Envelope.loopStartMSecs is of type Top
- Bad: Envelope.decayScale is of type Top
- Bad: Envelope.points is of type Top
- Bad: Envelope.lastValue is of type Top
- Bad: FFT.permTable is of type Top
- Bad: FFT.nu is of type Top
- Bad: FFT.n is of type Top
- Good: FFT.sinTable is of type { Array UndefinedObject FloatArray }
- Good: FFT.imagData is of type { Array UndefinedObject FloatArray }
- Good: FFT.window is of type { UndefinedObject FloatArray }
- Bad: FFT.realData is of type Top
- Bad: FMSound.initialCount is of type Top

- Bad: FMSound.multiplier is of type Top
- Bad: FMSound.scaledOffsetIndex is of type Top
- Bad: FMSound.waveTable is of type Top
- Bad: FMSound.scaledWaveTableSize is of type Top
- Bad: FMSound.scaledIndex is of type Top
- Bad: FMSound.normalizedModulation is of type Top
- Bad: FMSound.scaledOffsetIndexIncr is of type Top
- Bad: FMSound.modulation is of type Top
- Bad: FMSound.scaledIndexIncr is of type Top
- Bad: FMSound.count is of type Top
- Good: FWT.transform is of type { UndefinedObject Array }
- Bad: FWT.beta is of type Top
- Good: FWT.gTilde is of type { UndefinedObject Array }
- Good: FWT.coeffs is of type { UndefinedObject Array }
- Good: FWT.g is of type { UndefinedObject Array }
- Bad: FWT.nSamples is of type Top
- Bad: FWT.nLevels is of type Top
- Bad: FWT.alpha is of type Top
- Good: FWT.h is of type { UndefinedObject Array }
- Good: FWT.samples is of type { UndefinedObject Array }
- Good: FWT.hTilde is of type { UndefinedObject Array }
- Bad: GSMCodec.encodeState is of type Top
- Bad: GSMCodec.decodeState is of type Top
- Bad: LoopedSampledSound.initialCount is of type Top
- Bad: LoopedSampledSound.perceivedPitch is of type Top
- Bad: LoopedSampledSound.scaledLoopLength is of type Top
- Bad: LoopedSampledSound.lastSample is of type Top
- Bad: LoopedSampledSound.gain is of type Top

- Bad: LoopedSampledSound.scaledIndexIncr is of type Top
- Bad: LoopedSampledSound.releaseCount is of type Top
- Bad: LoopedSampledSound.firstSample is of type Top
- Bad: LoopedSampledSound.sampleCountForRelease is of type Top
- Bad: LoopedSampledSound.rightSamples is of type Top
- Bad: LoopedSampledSound.leftSamples is of type Top
- Bad: LoopedSampledSound.scaledIndex is of type Top
- Bad: LoopedSampledSound.originalSamplingRate is of type Top
- Bad: LoopedSampledSound.count is of type Top
- Bad: LoopedSampledSound.loopEnd is of type Top
- Good: MixedSound.soundDone is of type { UndefinedObject Array }
- Good: MixedSound.sounds is of type { UndefinedObject Array }
- Good: MixedSound.leftVols is of type { UndefinedObject Array }
- Good: MixedSound.rightVols is of type { UndefinedObject Array }
- Bad: PitchEnvelope.centerPitch is of type Top
- Bad: PluckedSound.initialCount is of type Top
- Good: PluckedSound.ring is of type { UndefinedObject SoundBuffer }
- Bad: PluckedSound.scaledIndexLimit is of type { Number++ UndefinedObject }
- Bad: PluckedSound.scaledIndex is of type Top
- Bad: PluckedSound.scaledIndexIncr is of type Top
- Bad: PluckedSound.count is of type Top
- Good: RandomEnvelope.rand is of type { Random UndefinedObject }
- Good: RandomEnvelope.highLimit is of type { UndefinedObject Float }
- Good: RandomEnvelope.lowLimit is of type { UndefinedObject Float }
- Good: RandomEnvelope.delta is of type { UndefinedObject Float }
- Bad: RepeatingSound.iteration is of type Top
- Bad: RepeatingSound.iterationCount is of type Top

- Bad: RepeatingSound.sound is of type Top
- Bad: RepeatingSound.samplesPerIteration is of type Top
- Bad: RestSound.initialCount is of type Top
- Bad: RestSound.count is of type Top
- Good: ReverbSound.tapGains is of type { UndefinedObject Bitmap }
- Good: ReverbSound.bufferSize is of type { Bitmap LargeNegativeInteger LargePositiveInteger UndefinedObject SmallInteger }
- Good: ReverbSound.rightBuffer is of type { UndefinedObject SoundBuffer }
- Good: ReverbSound.leftBuffer is of type { UndefinedObject SoundBuffer }
- Good: ReverbSound.tapCount is of type { UndefinedObject SmallInteger }
- Good: ReverbSound.tapDelays is of type { UndefinedObject Bitmap }
- Bad: ReverbSound.bufferIndex is of type Top
- Good: ReverbSound.sound is of type UndefinedObject
- Good: SampledInstrument.sustainedSoft is of type { UndefinedObject Array }
- Good: SampledInstrument.staccatoSoft is of type { UndefinedObject Array }
- Good: SampledInstrument.staccatoLoud is of type { UndefinedObject Array }
- Good: SampledInstrument.sustainedThreshold is of type { UndefinedObject Float }
- Good: SampledInstrument.sustainedLoud is of type { UndefinedObject Array }
- Good: SampledInstrument.loudThreshold is of type { UndefinedObject Float }
- Bad: SampledSound.initialCount is of type Top
- Bad: SampledSound.samples is of type Top
- Bad: SampledSound.scaledIncrement is of type Top
- Bad: SampledSound.scaledIndex is of type Top

- Bad: SampledSound.indexHighBits is of type Top
- Bad: SampledSound.samplesSize is of type Top
- Bad: SampledSound.originalSamplingRate is of type Top
- Bad: SampledSound.count is of type Top
- Good: SequentialSound.sounds is of type { UndefinedObject Array }
- Bad: SequentialSound.currentIndex is of type Top
- Bad: Sonogram.lastX is of type Top
- Good: Sonogram.pixValMap is of type { UndefinedObject Bitmap }
- Good: Sonogram.maxVal is of type { UndefinedObject Float }
- Good: Sonogram.minVal is of type { UndefinedObject Float }
- Good: Sonogram.scrollDelta is of type { UndefinedObject SmallInteger }
- Good: Sonogram.columnForm is of type { Form UndefinedObject }
- Bad: SoundInputStream.mutex is of type Top
- Bad: SoundInputStream.bufferSize is of type Top
- Good: SoundRecorder.currentBuffer is of type { UndefinedObject SoundBuffer }
- Bad: SoundRecorder.recordProcess is of type Top
- Good: SoundRecorder.codec is of type { GSMCodec UndefinedObject }
- Good: SoundRecorder.desiredSampleRate is of type { UndefinedObject Float }
- Bad: SoundRecorder.nextIndex is of type Top
- Good: SoundRecorder.meteringBuffer is of type { UndefinedObject SoundBuffer }
- Bad: SoundRecorder.meterLevel is of type Top
- Good: SoundRecorder.stereo is of type { False UndefinedObject }
- Good: SoundRecorder.recordLevel is of type { UndefinedObject Float }
- Good: SoundRecorder.soundPlaying is of type { SampledSound SequentialSound UndefinedObject ChatRecorder SoundInputStream SoundRecorder }

- Good: SoundRecorder.recordedBuffers is of type { Array UndefinedObject OrderedCollection }
- Good: SoundRecorder.paused is of type { True UndefinedObject False }
- Bad: SoundRecorder.samplingRate is of type Top
- Good: SoundRecorder.recordedSound is of type { SampledSound SequentialSound UndefinedObject ChatRecorder SoundInputStream SoundRecorder }
- Good: SoundRecorder.bufferAvailableSema is of type { Semaphore UndefinedObject }
- Bad: VolumeEnvelope.mSecsForChange is of type Top
- Bad: VolumeEnvelope.targetVol is of type Top
- Good: VolumeEnvelope.currentVol is of type UndefinedObject
- Bad: WaveletCodec.alpha is of type Top
- Bad: WaveletCodec.beta is of type Top
- Good: WaveletCodec.fwt is of type { FWT UndefinedObject }
- Bad: WaveletCodec.samplesPerFrame is of type Top
- Good: WaveletCodec.nLevels is of type { UndefinedObject SmallInteger }
- Bad: TestInterfaceBase.duration is of type Top
- Bad: TestInterfaceBase.classPattern is of type { Boolean++ String UndefinedObject }
- Bad: TestInterfaceBase.result is of type Top
- Bad: TestInterfaceBase.selectorPattern is of type Top
- Bad: TestModel.failureList is of type { OrderedCollection++ Heap UndefinedObject }
- Bad: TestModel.patternHistory is of type Top
- Good: TestModel.errorList is of type { UndefinedObject OrderedCollection }
- Bad: TestModel.summaryText is of type { Boolean++ String UndefinedObject }
- Bad: TestModel.summaryTextM is of type { PluggableTextMorph++ PluggableTextView UndefinedObject }

- Good: TestModel.summaryTextV is of type { PluggableTextView UndefinedObject }
- Good: TestModel.updateColorSelector is of type { UndefinedObject #updateColorM #updateColorV }
- Good: TestModel.patternTextV is of type { PluggableTextView UndefinedObject }
- Bad: TestModel.patternTextM is of type { PluggableTextMorph++ PluggableTextView UndefinedObject }
- Bad: TestModel.detailsText is of type Top
- Bad: Browser.classOrganizer is of type Top
- Bad: Browser.systemOrganizer is of type Top
- Bad: Browser.messageListIndex is of type Top
- Bad: Browser.messageCategoryListIndex is of type Top
- Good: Browser.editSelection is of type { Boolean++ UndefinedObject #hierarchy #editClass #editComment #none #editMessageCategories #newClass #editMessage #newMessage #editSystemCategories #byteCodes }
- Bad: Browser.metaClassOrganizer is of type Top
- Bad: Browser.systemCategoryListIndex is of type Top
- Bad: Browser.metaClassIndicated is of type Top
- Bad: Browser.classListIndex is of type Top
- Bad: ChangedMessageSet.changeSet is of type Top
- Bad: HierarchyBrowser.centralClass is of type Top
- Bad: HierarchyBrowser.classList is of type Top
- Bad: MessageSet.messageList is of type Top
- Bad: MessageSet.autoSelectString is of type Top
- Bad: PackageBrowser.package is of type Top
- Bad: PackageBrowser.packageListIndex is of type Top
- Good: PackageBrowser.packageList is of type UndefinedObject
- Good: ProtocolBrowser.selectedClass is of type UndefinedObject
- Bad: ProtocolBrowser.selectedSelector is of type Top

- Bad: SelectorBrowser.classListIndex is of type Top
- Bad: SelectorBrowser.classList is of type Top
- Bad: SelectorBrowser.selectorIndex is of type Top
- Bad: SelectorBrowser.selectorList is of type Top
- Bad: BitBltSimulation.sy is of type Top
- Bad: BitBltSimulation.halftoneBase is of type Top
- Bad: BitBltSimulation.cmBlueShift is of type Top
- Bad: BitBltSimulation.destWidth is of type Top
- Bad: BitBltSimulation.destX is of type Top
- Bad: BitBltSimulation.width is of type Top
- Bad: BitBltSimulation.scanString is of type Top
- Bad: BitBltSimulation.sourceBits is of type Top
- Bad: BitBltSimulation.scanStop is of type Top
- Bad: BitBltSimulation.dy is of type Top
- Good: BitBltSimulation.warpBitShiftTable is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.destPixSize is of type Top
- Bad: BitBltSimulation.pixPerWord is of type Top
- Good: BitBltSimulation.ditherValues16 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.cmRedMask is of type Top
- Bad: BitBltSimulation.warpSrcMask is of type Top
- Bad: BitBltSimulation.dstBitShift is of type Top
- Bad: BitBltSimulation.destIndex is of type Top
- Bad: BitBltSimulation.sourceIndex is of type Top
- Bad: BitBltSimulation.clipX is of type Top
- Good: BitBltSimulation.hDir is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.nWords is of type Top

- Bad: BitBltSimulation.clipHeight is of type Top
- Bad: BitBltSimulation.bitBltOop is of type Top
- Bad: BitBltSimulation.preload is of type Top
- Bad: BitBltSimulation.opTable is of type Top
- Bad: BitBltSimulation.sourceForm is of type Top
- Bad: BitBltSimulation.warpAlignMask is of type Top
- Bad: BitBltSimulation.skew is of type Top
- Bad: BitBltSimulation.cmDeltaBits is of type Top
- Good: BitBltSimulation.ditherMatrix4x4 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.sourceY is of type Top
- Bad: BitBltSimulation.scanStart is of type Top
- Bad: BitBltSimulation.cmGreenShift is of type Top
- Bad: BitBltSimulation.destBits is of type Top
- Bad: BitBltSimulation.destPitch is of type Top
- Bad: BitBltSimulation.height is of type Top
- Bad: BitBltSimulation.sourcePitch is of type Top
- Bad: BitBltSimulation.destY is of type Top
- Bad: BitBltSimulation.affectedL is of type Top
- Good: BitBltSimulation.maskTable is of type { UndefinedObject Array }
- Good: BitBltSimulation.scanDisplayFlag is of type { True UndefinedObject False }
- Bad: BitBltSimulation.mask1 is of type Top
- Bad: BitBltSimulation.destDelta is of type Top
- Good: BitBltSimulation.noHalftone is of type { True UndefinedObject False }
- Bad: BitBltSimulation.clipWidth is of type Top
- Bad: BitBltSimulation.destForm is of type Top
- Bad: BitBltSimulation.sx is of type Top

- Bad: BitBltSimulation.clipY is of type Top
- Bad: BitBltSimulation.scanRightX is of type Top
- Bad: BitBltSimulation.cmBlueMask is of type Top
- Bad: BitBltSimulation.halftoneHeight is of type Top
- Bad: BitBltSimulation.affectedT is of type Top
- Bad: BitBltSimulation.sourcePixSize is of type Top
- Bad: BitBltSimulation.cmRedShift is of type Top
- Good: BitBltSimulation.noSource is of type { True UndefinedObject False }
- Bad: BitBltSimulation.dx is of type Top
- Bad: BitBltSimulation.destMask is of type Top
- Bad: BitBltSimulation.affectedB is of type Top
- Bad: BitBltSimulation.cmGreenMask is of type Top
- Good: BitBltSimulation.hasSurfaceLock is of type { True UndefinedObject False }
- Bad: BitBltSimulation.stopCode is of type Top
- Bad: BitBltSimulation.combinationRule is of type Top
- Bad: BitBltSimulation.bitCount is of type Top
- Good: BitBltSimulation.vDir is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.destHeight is of type Top
- Good: BitBltSimulation.cmBitsPerColor is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.bbH is of type Top
- Bad: BitBltSimulation.bbW is of type Top
- Bad: BitBltSimulation.srcWidth is of type Top
- Bad: BitBltSimulation.affectedR is of type Top
- Good: BitBltSimulation.ditherThresholds16 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.sourceDelta is of type Top

- Bad: BitBltSimulation.warpSrcShift is of type Top
- Bad: BitBltSimulation.halftoneForm is of type Top
- Bad: BitBltSimulation.mask2 is of type Top
- Bad: BitBltSimulation.scanXTable is of type Top
- Bad: BitBltSimulation.scanStopArray is of type Top
- Bad: BitBltSimulation.sourceAlpha is of type Top
- Bad: BitBltSimulation.colorMap is of type Top
- Bad: BitBltSimulation.warpAlignShift is of type Top
- Bad: BitBltSimulation.sourceX is of type Top
- Bad: BitBltSimulation.srcBitShift is of type Top
- Bad: BitBltSimulation.srcHeight is of type Top
- Bad: Interpreter.activeContext is of type Top
- Bad: Interpreter.nextWakeupTick is of type Top
- Bad: Interpreter.localIP is of type Top
- Bad: Interpreter.localHomeContext is of type Top
- Good: Interpreter.methodCache is of type { UndefinedObject Array }
- Bad: Interpreter.interruptKeycode is of type Top
- Bad: Interpreter.semaphoresToSignalCountA is of type Top
- Bad: Interpreter.interruptCheckCounterFeedBackReset is of type Top
- Good: Interpreter.interpreterVersion is of type UndefinedObject
- Good: Interpreter.obsoleteNamedPrimitiveTable is of type { CArrayAccessor UndefinedObject }
- Good: Interpreter.interpreterProxy is of type { UndefinedObject InterpreterSimulator InterpreterSimulatorMSB InterpreterSimulatorLSB }
- Bad: Interpreter.receiver is of type { UndefinedObject InterpreterSimulatorMSB Bitmap InterpreterSimulator Interpreter LargeNegativeInteger InterpreterSimulatorLSB SmallInteger LargePositiveInteger }
- Bad: Interpreter.stackPointer is of type Top

- Bad: Interpreter.receiverClass is of type Top
- Good: Interpreter.obsoleteIndexedPrimitiveTable is of type { CArrayAccessor UndefinedObject }
- Bad: Interpreter.successFlag is of type Top
- Good: Interpreter.compilerHooks is of type UndefinedObject
- Bad: Interpreter.fullScreenFlag is of type { Interpreter InterpreterSimulator InterpreterSimulatorLSB UndefinedObject InterpreterSimulatorMSB }
- Bad: Interpreter.primitiveIndex is of type Top
- Good: Interpreter.semaphoresToSignalB is of type { UndefinedObject Array }
- Bad: Interpreter.compilerInitialized is of type Top
- Bad: Interpreter.localSP is of type Top
- Bad: Interpreter.instructionPointer is of type Top
- Good: Interpreter.semaphoresUseBufferA is of type { True UndefinedObject False }
- Good: Interpreter.deferDisplayUpdates is of type { True UndefinedObject False }
- Bad: Interpreter.theHomeContext is of type Top
- Bad: Interpreter.extraVMMemory is of type Top
- Bad: Interpreter.method is of type { LargePositiveInteger InterpreterSimulatorMSB Bitmap InterpreterSimulator Interpreter LargeNegativeInteger InterpreterSimulatorLSB SmallInteger UndefinedObject }
- Bad: Interpreter.pendingFinalizationSignals is of type Top
- Bad: Interpreter.newMethod is of type Top
- Good: Interpreter.semaphoresToSignalA is of type { UndefinedObject Array }
- Bad: Interpreter.methodClass is of type Top
- Bad: Interpreter.newNativeMethod is of type Top
- Good: Interpreter.atCache is of type { UndefinedObject Array }
- Bad: Interpreter.argumentCount is of type Top

- Bad: Interpreter.currentBytecode is of type Top
- Good: Interpreter.interruptPending is of type { False UndefinedObject }
- Good: Interpreter.interruptChecksEveryNms is of type { UndefinedObject SmallInteger }
- Bad: Interpreter.nextPollTick is of type Top
- Bad: Interpreter.lkupClass is of type Top
- Bad: Interpreter.reclaimableContextCount is of type Top
- Bad: Interpreter.savedWindowSize is of type Top
- Bad: Interpreter.lastTick is of type Top
- Bad: Interpreter.semaphoresToSignalCountB is of type Top
- Bad: Interpreter.messageSelector is of type Top
- Bad: Interpreter.showSurfaceFn is of type Top
- Good: InterpreterSimulator.myBitBlt is of type { False UndefinedObject BitBltSimulator }
- Good: InterpreterSimulator.traceOn is of type { UndefinedObject True }
- Bad: InterpreterSimulator.imageName is of type Top
- Bad: InterpreterSimulator.pluginList is of type Top
- Bad: InterpreterSimulator.sendCount is of type Top
- Good: InterpreterSimulator.displayForm is of type { Form UndefinedObject }
- Good: InterpreterSimulator.mappedPluginEntries is of type { UndefinedObject Array }
- Good: InterpreterSimulator.filesOpen is of type { UndefinedObject OrderedCollection }
- Bad: InterpreterSimulator.byteCount is of type Top
- Good: ObjectMemory.signalLowSpace is of type { True UndefinedObject False }
- Bad: ObjectMemory.tenuringThreshold is of type Top
- Bad: ObjectMemory.lastHash is of type Top
- Bad: ObjectMemory.statIncrGCMSecs is of type Top

- Good: ObjectMemory.remapBuffer is of type { UndefinedObject Array }
- Bad: ObjectMemory.trueObj is of type { UndefinedObject InterpreterSimulatorMSB Bitmap InterpreterSimulator Interpreter LargeNegativeInteger InterpreterSimulatorLSB SmallInteger LargePositiveInteger }
- Bad: ObjectMemory.statFullGCMSecs is of type Top
- Bad: ObjectMemory.freeLargeContexts is of type Top
- Bad: ObjectMemory.lowSpaceThreshold is of type Top
- Bad: ObjectMemory.allocationsBetweenGCs is of type Top
- Bad: ObjectMemory.interruptCheckCounter is of type Top
- Bad: ObjectMemory.freeContexts is of type Top
- Bad: ObjectMemory.compStart is of type Top
- Bad: ObjectMemory.youngStart is of type Top
- Bad: ObjectMemory.compEnd is of type Top
- Bad: ObjectMemory.totalObjectFoundAtStartup is of type Top
- Bad: ObjectMemory.memoryLimit is of type Top
- Bad: ObjectMemory.endOfMemory is of type Top
- Bad: ObjectMemory.specialObjectsOop is of type Top
- Bad: ObjectMemory.statFullGCs is of type Top
- Bad: ObjectMemory.statTenures is of type Top
- Bad: ObjectMemory.nilObj is of type Top
- Bad: ObjectMemory.child is of type Top
- Bad: ObjectMemory.fwdTableLast is of type Top
- Bad: ObjectMemory.fwdTableNext is of type Top
- Bad: ObjectMemory.rootTableCount is of type Top
- Bad: ObjectMemory.allocationCount is of type Top
- Bad: ObjectMemory.falseObj is of type Top
- Bad: ObjectMemory.remapBufferCount is of type Top
- Bad: ObjectMemory.parentField is of type Top

- Bad: ObjectMemory.field is of type Top
- Good: ObjectMemory.memory is of type { Interpreter UndefinedObject InterpreterSimulatorMSB InterpreterSimulatorLSB Bitmap InterpreterSimulator }
- Bad: ObjectMemory.freeBlock is of type Top
- Bad: ObjectMemory.statRootTableOverflows is of type Top
- Good: ObjectMemory.rootTable is of type { UndefinedObject Array }
- Bad: ObjectMemory.statIncrGCs is of type Top
- Good: ObjectMemory.displayBits is of type { UndefinedObject SmallInteger }
- Bad: SystemMonitor.vmParameters is of type Top
- Bad: SystemMonitor.gcHighWaterMark is of type Top
- Bad: SystemMonitor.baselineSkip is of type Top
- Bad: SystemMonitor.prevAllocCount is of type Top
- Bad: SystemMonitor.prevDeltaIncrGC is of type Top
- Bad: SystemMonitor.prevMcMiss is of type Top
- Bad: SystemMonitor.window is of type Top
- Bad: SystemMonitor.prevDeltaFullGC is of type Top
- Bad: SystemMonitor.prevFullGC is of type Top
- Good: SystemMonitor.valSelectors is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevIncrGC is of type Top
- Bad: SystemMonitor.prevMsClock is of type Top
- Good: SystemMonitor.maxValues is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevAllocRate is of type Top
- Bad: SystemMonitor.gcLowWaterMark is of type Top
- Good: SystemMonitor.labels is of type { UndefinedObject Array }
- Good: SystemMonitor.minValues is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevIcHit is of type Top
- Bad: SystemMonitor.prevMcHit is of type Top

- Good: SystemTracer.hashGenerator is of type { Random UndefinedObject }
- Bad: SystemTracer.maxOop is of type Top
- Good: SystemTracer.map is of type UndefinedObject
- Good: SystemTracer.initialProcess is of type UndefinedObject
- Good: SystemTracer.oopMap is of type { UndefinedObject Array }
- Bad: SystemTracer.specialObjects is of type Top
- Good: SystemTracer.file is of type { CrLfFileStream UndefinedObject }
- Good: SystemTracer.cleaningUp is of type { False UndefinedObject }
- Good: SystemTracer.writeDict is of type { UndefinedObject Dictionary }
- Good: SystemTracer.imageHeaderSize is of type { UndefinedObject SmallInteger }
- Good: SystemTracer.compactClasses is of type { UndefinedObject Array }
- Good: SystemTracer.replacementClasses is of type { UndefinedObject Dictionary }
- Good: ChineseCheckerPiece.myBoard is of type { ChineseCheckers UndefinedObject }
- Bad: ChineseCheckerPiece.boardLoc is of type Top
- Bad: ChineseCheckers.movePhase is of type Top
- Good: ChineseCheckers.board is of type { UndefinedObject Array }
- Good: ChineseCheckers.plannedMovePhase is of type UndefinedObject
- Good: ChineseCheckers.sixDeltas is of type { UndefinedObject Array }
- Bad: ChineseCheckers.plannedMove is of type Top
- Bad: ChineseCheckers.whoseMove is of type Top
- Good: ChineseCheckers.teams is of type { UndefinedObject Array }
- Good: ChineseCheckers.colors is of type { UndefinedObject Array }
- Good: ChineseCheckers.homes is of type { UndefinedObject Array }
- Good: ChineseCheckers.animateMoves is of type { True UndefinedObject False }

- Good: ChineseCheckers.pathMorphs is of type { UndefinedObject OrderedCollection }
- Good: ChineseCheckers.autoPlay is of type { UndefinedObject Array }
- Good: CipherPanel.originalMorphs is of type { UndefinedObject Array }
- Good: CipherPanel.decodingMorphs is of type { UndefinedObject Array }
- Good: CipherPanel.quote is of type { UndefinedObject String Character }
- Good: CipherPanel.originalText is of type UndefinedObject
- Good: CrosticPanel.crosticPanel is of type UndefinedObject
- Good: CrosticPanel.cluesCol2 is of type { AlignmentMorph UndefinedObject }
- Bad: CrosticPanel.quote is of type Top
- Good: CrosticPanel.answers is of type { UndefinedObject OrderedCollection }
- Good: CrosticPanel.clues is of type { UndefinedObject OrderedCollection }
- Good: CrosticPanel.cluesPanel is of type { AlignmentMorph UndefinedObject }
- Good: CrosticPanel.quotePanel is of type { CrosticQuotePanel UndefinedObject }
- Good: CrosticQuotePanel.cluesPanel is of type { CrosticPanel UndefinedObject }
- Good: FreeCell.lastGameLost is of type UndefinedObject
- Good: FreeCell.cardsRemainingDisplay is of type { LedMorph UndefinedObject }
- Good: FreeCell.gameNumberDisplay is of type { LedMorph UndefinedObject }
- Good: FreeCell.state is of type { UndefinedObject #sameGame #pickGame #won #newGame #lost }
- Good: FreeCell.myFillStyle is of type { UndefinedObject GradientFillStyle }
- Good: FreeCell.elapsedTimeDisplay is of type { UndefinedObject LedTimerMorph }

- Good: FreeCell.board is of type { FreeCellBoard UndefinedObject }
- Bad: FreeCell.autoMoveRecursionCount is of type Top
- Bad: FreeCellBoard.target is of type Top
- Bad: FreeCellBoard.actionSelector is of type Top
- Good: FreeCellBoard.stacks is of type { UndefinedObject Array }
- Good: FreeCellBoard.freeCells is of type { UndefinedObject Array }
- Good: FreeCellBoard.homeCells is of type { UndefinedObject Array }
- Good: FreeCellBoard.cardDeck is of type { PlayingCardDeck UndefinedObject }
- Good: FreeCellBoard.lastCardDeck is of type UndefinedObject
- Bad: FreeCellStatistics.streakLosses is of type Top
- Bad: FreeCellStatistics.lastGameWon is of type Top
- Bad: FreeCellStatistics.lastGameLost is of type Top
- Bad: FreeCellStatistics.currentCount is of type Top
- Good: FreeCellStatistics.currentType is of type { UndefinedObject #losses #wins }
- Good: FreeCellStatistics.statsMorph is of type { TextMorph UndefinedObject }
- Good: FreeCellStatistics.window is of type UndefinedObject
- Bad: FreeCellStatistics.sessionLosses is of type Top
- Bad: FreeCellStatistics.lossesWithReplay is of type Top
- Bad: FreeCellStatistics.sessionWins is of type Top
- Bad: FreeCellStatistics.totalWins is of type Top
- Bad: FreeCellStatistics.streakWins is of type Top
- Bad: FreeCellStatistics.totalLosses is of type Top
- Bad: FreeCellStatistics.winsWithReplay is of type Top
- Bad: LedDigitMorph.digit is of type Top
- Good: LedDigitMorph.highlighted is of type { True UndefinedObject False }
- Good: LedMorph.digits is of type { UndefinedObject SmallInteger }

- Bad: LedMorph.flash is of type Top
- Good: LedMorph.flashing is of type { True UndefinedObject False }
- Bad: LedMorph.value is of type Top
- Good: LedTimerMorph.counting is of type { True UndefinedObject False }
- Bad: LedTimerMorph.startSeconds is of type Top
- Bad: PlayingCard.cardNo is of type Top
- Bad: PlayingCard.suitNo is of type Top
- Good: PlayingCard.suit is of type UndefinedObject
- Good: PlayingCard.cardForm is of type { Form UndefinedObject }
- Bad: PlayingCardDeck.target is of type Top
- Bad: PlayingCardDeck.seed is of type Top
- Good: PlayingCardDeck.acceptCardSelector is of type { PlayingCardDeck UndefinedObject #acceptCard:onStack: #acceptSingleCard:on: }
- Good: PlayingCardDeck.cardDraggedSelector is of type { PlayingCardDeck UndefinedObject #dragCard:fromHome: #dragCard:fromStack: }
- Good: PlayingCardDeck.stackingOrder is of type { UndefinedObject #descending #ascending }
- Good: PlayingCardDeck.cardDroppedSelector is of type { PlayingCardDeck UndefinedObject #cardMoved #cardMovedHome }
- Good: PlayingCardDeck.cardDoubleClickSelector is of type { PlayingCardDeck UndefinedObject #doubleClickInStack:OnCard: }
- Good: PlayingCardDeck.stackingPolicy is of type { UndefinedObject #stagger #straight #altStraight #single }
- Good: PlayingCardDeck.emptyDropPolicy is of type { UndefinedObject #inOrder #any }
- Good: PlayingCardDeck.layout is of type { UndefinedObject #stagger #pile #grid }
- Good: PlayingCardMorph.suitNumber is of type { UndefinedObject SmallInteger }
- Bad: PlayingCardMorph.cardNumber is of type Top

- Good: SameGame.scoreDisplay is of type { LedMorph UndefinedObject }
- Good: SameGame.board is of type { UndefinedObject SameGameBoard }
- Good: SameGame.selectionDisplay is of type { LedMorph UndefinedObject }
- Bad: SameGame.helpText is of type { PluggableTextMorph++ StringHolderView++ UndefinedObject }
- Good: SameGameBoard.palette is of type { UndefinedObject OrderedCollection }
- Bad: SameGameBoard.target is of type Top
- Bad: SameGameBoard.columns is of type Top
- Bad: SameGameBoard.actionSelector is of type Top
- Good: SameGameBoard.selectionColor is of type UndefinedObject
- Good: SameGameBoard.flash is of type { True UndefinedObject False }
- Good: SameGameBoard.arguments is of type { UndefinedObject Array }
- Bad: SameGameBoard.rows is of type Top
- Bad: SameGameBoard.protoTile is of type Top
- Bad: SameGameBoard.flashColor is of type Top
- Good: SameGameBoard.selection is of type UndefinedObject
- Bad: SameGameTile.oldSwitchState is of type Top
- Bad: SameGameTile.switchState is of type Top
- Good: SameGameTile.disabled is of type { True UndefinedObject False }
- Good: Tetris.scoreDisplay is of type { LedMorph UndefinedObject }
- Good: Tetris.board is of type { UndefinedObject TetrisBoard }
- Bad: TetrisBlock.shapeInfo is of type Top
- Good: TetrisBlock.board is of type { UndefinedObject TetrisBoard }
- Bad: TetrisBlock.angle is of type Top
- Bad: TetrisBlock.baseCellNumber is of type Top
- Good: TetrisBoard.game is of type { UndefinedObject Tetris }

- Good: TetrisBoard.gameOver is of type { True UndefinedObject False }
- Bad: TetrisBoard.score is of type Top
- Good: TetrisBoard.paused is of type { True UndefinedObject False }
- Bad: TetrisBoard.delay is of type { Magnitude++ UndefinedObject }
- Good: TetrisBoard.currentBlock is of type { TetrisBlock UndefinedObject }
- Good: WordGameLetterMorph.predecessor is of type { WordGameLetterMorph UndefinedObject }
- Good: WordGameLetterMorph.lineMorph is of type { UndefinedObject PolygonMorph }
- Good: WordGameLetterMorph.style is of type { UndefinedObject #underlined #boxed #plain }
- Good: WordGameLetterMorph.letterMorph is of type { StringMorph UndefinedObject }
- Bad: WordGameLetterMorph.letter is of type Top
- Good: WordGameLetterMorph.originalLetter is of type UndefinedObject
- Good: WordGameLetterMorph.successor is of type { WordGameLetterMorph UndefinedObject }
- Bad: WordGameLetterMorph.indexInQuote is of type Top
- Good: WordGameLetterMorph.linkedLetters is of type UndefinedObject
- Good: WordGamePanelMorph.letterMorphs is of type { Array UndefinedObject OrderedCollection }
- Good: WordGamePanelMorph.haveTypedHere is of type { True UndefinedObject False }

4.5 Threshold of 1500

- Bad: PDA.recurringEvents is of type Top
- Good: PDA.peopleList is of type { ArrayedCollection++ UndefinedObject }
- Bad: PDA.date is of type Top
- Good: PDA.dateButtonPressed is of type UndefinedObject
- Bad: PDA.allEvents is of type Top

- Bad: PDA.category is of type Top
- Bad: PDA.currentItem is of type Top
- Good: PDA.scheduleList is of type { ArrayedCollection++ UndefinedObject }
- Good: PDA.categoryListIndex is of type UndefinedObject
- Bad: PDA.allPeople is of type Top
- Bad: PDA.scheduleListIndex is of type Top
- Bad: PDA.allToDoItems is of type Top
- Bad: PDA.allNotes is of type Top
- Bad: PDA.notesListIndex is of type Top
- Good: PDA.currentItemSelection is of type UndefinedObject
- Good: PDA.categoryList is of type UndefinedObject
- Good: PDA.toDoList is of type { ArrayedCollection++ UndefinedObject }
- Bad: PDA.toDoListIndex is of type Top
- Bad: PDA.peopleListIndex is of type Top
- Good: PDA.notesList is of type { ArrayedCollection++ UndefinedObject }
- Good: PDA.currentItemText is of type UndefinedObject
- Bad: PDA.userCategories is of type Top
- Good: PDA.viewDescriptionOnly is of type { True UndefinedObject False }
- Bad: PDAChoiceMorph.backgroundColor is of type Top
- Bad: PDAClockMorph.backgroundColor is of type Top
- Bad: PDAEvent.time is of type Top
- Bad: PDAEvent.date is of type Top
- Bad: PDAEvent.duration is of type Top
- Good: PDAEvent.alarm is of type UndefinedObject
- Bad: PDAPerson.name is of type Top
- Bad: PDAPerson.address is of type Top

- Good: PDAPerson.phone is of type { String UndefinedObject }
- Good: PDAPerson.email is of type { String UndefinedObject }
- Bad: PDARecord.description is of type Top
- Bad: PDARecord.key is of type Top
- Good: PDARecord.otherFields is of type { UndefinedObject Dictionary }
- Good: PDARecurringEvent.recurrence is of type { UndefinedObject #nthWeekdayOfMonthEachYear #dayOfWeek #dayOfMonth #dateOfYear }
- Bad: PDARecurringEvent.firstDate is of type Top
- Bad: PDARecurringEvent.lastDate is of type Top
- Good: PDAToDoItem.deadline is of type UndefinedObject
- Bad: PDAToDoItem.result is of type Top
- Bad: PDAToDoItem.dayDone is of type Top
- Bad: PDAToDoItem.dayPosted is of type Top
- Bad: PDAToDoItem.priority is of type Top
- Bad: IRCChannelInfo.name is of type Top
- Bad: IRCChannelInfo.topic is of type Top
- Good: IRCChannelInfo.subscribers is of type { IdentitySet UndefinedObject }
- Good: IRCChannelInfo.members is of type { Set UndefinedObject }
- Good: IRCChannelInfo.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCChannelListBrowser.channelIndex is of type Top
- Bad: IRCChannelListBrowser.channelList is of type Top
- Good: IRCChannelListBrowser.sortCriterion is of type { UndefinedObject #name }
- Good: IRCChannelListBrowser.connection is of type { IRCConnection UndefinedObject }
- Good: IRCChannelObserver.chatText is of type { Text UndefinedObject }
- Good: IRCChannelObserver.channelName is of type UndefinedObject

- Bad: IRCChannelObserver.channel is of type Top
- Good: IRCChannelObserver.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCChannelSummary.name is of type Top
- Bad: IRCChannelSummary.topic is of type Top
- Bad: IRCChannelSummary.numUsers is of type Top
- Good: IRCChannelUsersBrowser.channel is of type { UndefinedObject IRCChannelInfo }
- Good: IRCChannelUsersBrowser.userList is of type { UndefinedObject Array }
- Bad: IRCChannelUsersBrowser.userIndex is of type Top
- Good: IRCConnection.directMessageSubscribers is of type { IdentitySet UndefinedObject }
- Good: IRCConnection.channelListBeingBuilt is of type { UndefinedObject OrderedCollection }
- Good: IRCConnection.protocolMessagesToSend is of type { UndefinedObject OrderedCollection }
- Bad: IRCConnection.sendBuffer is of type Top
- Bad: IRCConnection.server is of type Top
- Good: IRCConnection.motdBeingBuilt is of type { UndefinedObject WriteStream }
- Good: IRCConnection.protocolMessageSubscribers is of type { IdentitySet UndefinedObject }
- Bad: IRCConnection.motd is of type Top
- Bad: IRCConnection.port is of type Top
- Good: IRCConnection.recieveBuffer is of type { String UndefinedObject }
- Good: IRCConnection.socket is of type { Socket UndefinedObject }
- Bad: IRCConnection.userName is of type Top
- Bad: IRCConnection.nick is of type Top
- Good: IRCConnection.channelList is of type { UndefinedObject Array }

- Good: IRCConnection.subscribedChannels is of type { UndefinedObject Dictionary }
- Bad: IRCConnection.fullName is of type Top
- Good: IRCConnection.messagesProcessed is of type { UndefinedObject SmallInteger }
- Bad: IRCConnection.consoleText is of type Top
- Bad: IRCDirectMessagesObserver.chatText is of type Top
- Bad: IRCDirectMessagesObserver.talkingTo is of type Top
- Good: IRCDirectMessagesObserver.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCMessage.text is of type Top
- Bad: IRCMessage.sender is of type Top
- Bad: IRCMessage.recipient is of type Top
- Good: IRCMessagePattern.sender is of type UndefinedObject
- Good: IRCMessagePattern.recipient is of type UndefinedObject
- Good: IRCMessageSet.messages is of type UndefinedObject
- Bad: IRCMorph.userName is of type Top
- Bad: IRCMorph.nick is of type Top
- Bad: IRCMorph.server is of type Top
- Good: IRCMorph.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCMorph.fullName is of type Top
- Good: IRCMorph.messageCollections is of type UndefinedObject
- Good: IRCMorph.consoleText is of type { Text UndefinedObject }
- Bad: IRCMorph.port is of type Top
- Bad: IRCProtocolMessage.arguments is of type Top
- Good: IRCProtocolMessage.command is of type { UndefinedObject String Character }
- Bad: IRCProtocolMessage.prefix is of type Top
- Good: IRCRecipientFilter.recipient is of type UndefinedObject

- Good: CategoriesFile.categories is of type { UndefinedObject Dictionary }
- Bad: Celeste.currentMessages is of type Top
- Good: Celeste.customFilterBlock is of type UndefinedObject
- Bad: Celeste.status is of type Top
- Bad: Celeste.userPassword is of type Top
- Bad: Celeste.currentMsgID is of type Top
- Bad: Celeste.mailDB is of type Top
- Bad: Celeste.currentCategory is of type Top
- Bad: Celeste.lastCategory is of type Top
- Good: Celeste.lastCategoryList is of type UndefinedObject
- Good: Celeste.dateFilter is of type UndefinedObject
- Bad: Celeste.currentTOC is of type Top
- Bad: Celeste.fromFilter is of type Top
- Good: Celeste.formatMessages is of type UndefinedObject
- Good: Celeste.lastCategoryMenu is of type UndefinedObject
- Bad: Celeste.messageTextView is of type { PluggableTextMorph++ PluggableListMorph++ PluggableListView++ SimpleHierarchicalListMorph++ PluggableTextView UndefinedObject }
- Bad: Celeste.subjectFilter is of type Top
- Bad: CelesteComposition.textEditor is of type { PluggableTextMorph++ FormMenuController PluggableButtonController Controller ProjectController UndefinedObject FormEditor PluggableListControllerOfMany PluggableTextView PluggableListController FillInTheBlankController StandardSystemController ListController MorphWorldController NoController BitEditor ParagraphEditor ScreenController ReadOnlyTextController ModalController StringHolderController DeferredActionStandardSystemController PluggableTextController }
- Bad: CelesteComposition.celeste is of type Top
- Bad: CelesteComposition.messageText is of type Top
- Good: CelesteComposition.morphicWindow is of type { AlignmentMorphBob1 UndefinedObject SystemWindow }

- Good: CelesteComposition.mvcWindow is of type { StandardSystemView UndefinedObject }
- Good: CelesteComposition.attachmentSeparator is of type UndefinedObject
- Good: FancyCelesteComposition.theLinkToInclude is of type UndefinedObject
- Bad: FancyCelesteComposition.to is of type Top
- Bad: FancyCelesteComposition.subject is of type Top
- Good: FancyCelesteComposition.textFields is of type { UndefinedObject Array }
- Good: IndexFile.msgDictionary is of type { PluggableDictionary UndefinedObject }
- Good: IndexFile.logfile is of type { UndefinedObject StandardFileStream }
- Good: IndexFile.timeSortedEntries is of type { UndefinedObject SortedCollection }
- Bad: IndexFileEntry.time is of type Top
- Bad: IndexFileEntry.msgID is of type Top
- Bad: IndexFileEntry.messageFile is of type Top
- Bad: IndexFileEntry.cc is of type Top
- Bad: IndexFileEntry.tocLineCache is of type Top
- Bad: IndexFileEntry.location is of type Top
- Bad: IndexFileEntry.to is of type Top
- Bad: IndexFileEntry.textLength is of type Top
- Bad: IndexFileEntry.subject is of type Top
- Bad: IndexFileEntry.from is of type Top
- Good: MIMEHeaderValue.mainValue is of type { UndefinedObject String Character }
- Bad: MIMEHeaderValue.parameters is of type { Set++ UndefinedObject SystemTracer SharedQueue }
- Bad: MIMEPart.content is of type { SequenceableCollection++ Integer++ B3DIndexedQuad UndefinedObject B3DPrimitiveRasterizerData B3DIndexedTriangle }

- Good: MIMEPart.parts is of type { Array UndefinedObject OrderedCollection }
- Bad: MIMEPart.separator is of type Top
- Bad: MIMEPart.text is of type Top
- Good: MIMEPart.fields is of type { UndefinedObject Dictionary }
- Bad: MailDB.rootFilename is of type Top
- Bad: MailDB.indexFile is of type Top
- Bad: MailDB.messageFile is of type Top
- Bad: MailDB.categoriesFile is of type Top
- Bad: MailDBFile.filename is of type Top
- Good: MailMessage.time is of type { UndefinedObject SmallInteger }
- Bad: MailMessage.separator is of type Top
- Bad: MailMessage.cc is of type Top
- Good: MailMessage.body is of type { UndefinedObject MIMEDocument }
- Good: MailMessage.to is of type { String UndefinedObject }
- Bad: MailMessage.text is of type Top
- Good: MailMessage.subject is of type { String UndefinedObject }
- Good: MailMessage.fields is of type { UndefinedObject Dictionary }
- Good: MailMessage.from is of type { String UndefinedObject }
- Good: MailMessage.parts is of type { Array UndefinedObject OrderedCollection }
- Bad: MailNotifier.lastConnectTime is of type Top
- Bad: MailNotifier.messageCount is of type Top
- Good: MailNotifier.password is of type UndefinedObject
- Good: MailNotifier.socket is of type { UndefinedObject POPSocket }
- Good: MessageFile.file is of type { CrLfFileStream UndefinedObject }
- Bad: ReadNewsInboxFile.currentNewsgroup is of type Top
- Good: ReadNewsInboxFile.msgBuffer is of type { UndefinedObject WriteStream }

- Bad: TextMessageLink.message is of type Top
- Bad: RBAssignmentNode.variable is of type Top
- Bad: RBAssignmentNode.assignment is of type Top
- Bad: RBAssignmentNode.value is of type Top
- Good: RBBlockNode.colons is of type { UndefinedObject OrderedCollection }
- Bad: RBBlockNode.bar is of type Top
- Bad: RBBlockNode.right is of type Top
- Bad: RBBlockNode.left is of type Top
- Bad: RBBlockNode.body is of type Top
- Bad: RBBlockNode.arguments is of type Top
- Bad: RBCascadeNode.messages is of type Top
- Good: RBCascadeNode.semicolons is of type { UndefinedObject OrderedCollection }
- Good: RBFormatter.codeStream is of type { UndefinedObject WriteStream }
- Bad: RBFormatter.lineStart is of type Top
- Bad: RBFormatter.firstLineLength is of type Top
- Bad: RBFormatter.tabs is of type Top
- Bad: RBLiteralNode.token is of type Top
- Bad: RBMessageNode.arguments is of type Top
- Bad: RBMessageNode.receiver is of type Top
- Bad: RBMessageNode.selector is of type Top
- Bad: RBMessageNode.selectorParts is of type Top
- Bad: RBMethodNode.tags is of type Object++
- Bad: RBMethodNode.selector is of type Top
- Bad: RBMethodNode.selectorParts is of type Top
- Bad: RBMethodNode.body is of type Top
- Bad: RBMethodNode.source is of type Top

- Bad: RBMethodNode.arguments is of type Top
- Bad: RBOptimizedNode.body is of type Top
- Bad: RBOptimizedNode.right is of type Top
- Bad: RBOptimizedNode.left is of type Top
- Good: RBParser.scanner is of type { RBScanner UndefinedObject }
- Good: RBParser.tags is of type { UndefinedObject OrderedCollection }
- Bad: RBParser.source is of type Top
- Good: RBParser.emptyStatements is of type { True UndefinedObject False }
- Bad: RBParser.currentToken is of type Top
- Good: RBParser.negatedNumbers is of type { True UndefinedObject False }
- Good: RBParser.errorBlock is of type { UndefinedObject a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType }
- Bad: RBParser.nextToken is of type Top
- Good: RBPatternMessageNode.isCascadeList is of type { True UndefinedObject False }
- Good: RBPatternMessageNode.isList is of type { True UndefinedObject False }
- Good: RBPatternMethodNode.isList is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.recurseInto is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isLiteral is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isStatement is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isAnything is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isList is of type { True UndefinedObject False }

- Bad: RBProgramNode.parent is of type Top
- Bad: RBProgramNode.comments is of type Top
- Bad: RBReturnNode.return is of type Top
- Bad: RBReturnNode.value is of type Top
- Bad: RBSequenceNode.rightBar is of type Top
- Good: RBSequenceNode.periods is of type { UndefinedObject OrderedCollection }
- Bad: RBSequenceNode.temporaries is of type Top
- Bad: RBSequenceNode.statements is of type Top
- Bad: RBSequenceNode.leftBar is of type Top
- Good: RBValueNode.parentheses is of type { UndefinedObject OrderedCollection }
- Good: RBVariableNode.token is of type { RBIdentifierToken UndefinedObject }
- Bad: ADPCMCodec.index is of type Top
- Good: ADPCMCodec.indexTable is of type { Array UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.deltaSignMask is of type Top
- Bad: ADPCMCodec.bitPosition is of type Top
- Bad: ADPCMCodec.encodedBytes is of type Top
- Good: ADPCMCodec.stepSizeTable is of type { Array UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.sampleIndex is of type Top
- Good: ADPCMCodec.rightSamples is of type { UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.byteIndex is of type Top
- Bad: ADPCMCodec.frameSizeMask is of type Top
- Bad: ADPCMCodec.bitsPerSample is of type Top
- Bad: ADPCMCodec.predicted is of type Top
- Good: ADPCMCodec.deltaValueHighBit is of type { SmallInteger UndefinedObject Float }

- Bad: ADPCMCodec.deltaValueMask is of type Top
- Bad: ADPCMCodec.currentByte is of type Top
- Bad: ADPCMCodec.samples is of type Top
- Bad: AIFFFileReader.channelData is of type Top
- Bad: AIFFFileReader.frameCount is of type Top
- Good: AIFFFileReader.isLooped is of type { True UndefinedObject False }
- Good: AIFFFileReader.gain is of type { SmallInteger UndefinedObject Float }
- Bad: AIFFFileReader.in is of type Top
- Bad: AIFFFileReader.fileType is of type Top
- Bad: AIFFFileReader.pitch is of type Top
- Bad: AIFFFileReader.markers is of type Top
- Good: AIFFFileReader.channelCount is of type { Integer++ ScrollingToolHolder UndefinedObject B3DRotation B3DVector3 }
- Good: AIFFFileReader.bitsPerSample is of type { UndefinedObject SmallInteger }
- Good: AIFFFileReader.mergeIfStereo is of type { True UndefinedObject False }
- Good: AIFFFileReader.skipDataChunk is of type { True UndefinedObject False }
- Bad: AIFFFileReader.samplingRate is of type Top
- Bad: AbstractSound.envelopes is of type Top
- Bad: AbstractSound.mSecsSinceStart is of type Top
- Bad: AbstractSound.scaledVolLimit is of type Top
- Bad: AbstractSound.scaledVol is of type Top
- Bad: AbstractSound.samplesUntilNextControl is of type Top
- Bad: AbstractSound.scaledVolIncr is of type Top
- Good: CompressedSoundData.perceivedPitch is of type { UndefinedObject Float }
- Bad: CompressedSoundData.codecName is of type Top

- Good: CompressedSoundData.channels is of type { UndefinedObject Array }
- Bad: CompressedSoundData.gain is of type Top
- Bad: CompressedSoundData.firstSample is of type Top
- Bad: CompressedSoundData.soundClassName is of type Top
- Bad: CompressedSoundData.cachedSound is of type { WaveletCodec MuLawCodec ADPCMCodec SoundCodec UndefinedObject LoopedSampledSound GSMCodec SampledSound }
- Bad: CompressedSoundData.loopLength is of type Top
- Bad: CompressedSoundData.samplingRate is of type Top
- Bad: CompressedSoundData.loopEnd is of type Top
- Bad: Envelope.target is of type Top
- Bad: Envelope.scale is of type Top
- Good: Envelope.updateSelector is of type { UndefinedObject #pitch: #modulation: #ratio: }
- Bad: Envelope.loopEndMSecs is of type { Magnitude++ UndefinedObject }
- Bad: Envelope.endMSecs is of type Top
- Bad: Envelope.currValue is of type Top
- Bad: Envelope.loopStartIndex is of type Top
- Bad: Envelope.valueIncr is of type Top
- Good: Envelope.noChangesDuringLoop is of type { True UndefinedObject False }
- Bad: Envelope.nextRecomputeTime is of type Top
- Bad: Envelope.loopEndIndex is of type Top
- Bad: Envelope.loopMSecs is of type Top
- Bad: Envelope.loopStartMSecs is of type Top
- Bad: Envelope.decayScale is of type Top
- Bad: Envelope.points is of type Top
- Bad: Envelope.lastValue is of type Top

- Bad: FFT.permTable is of type Top
- Bad: FFT.nu is of type Top
- Bad: FFT.n is of type Top
- Good: FFT.sinTable is of type UndefinedObject
- Good: FFT.imagData is of type { Array UndefinedObject FloatArray }
- Good: FFT.window is of type { UndefinedObject FloatArray }
- Good: FFT.realData is of type { Array UndefinedObject FloatArray }
- Bad: FMSound.initialCount is of type Top
- Bad: FMSound.multiplier is of type Top
- Bad: FMSound.scaledOffsetIndex is of type Top
- Bad: FMSound.waveTable is of type Top
- Bad: FMSound.scaledWaveTableSize is of type Top
- Bad: FMSound.scaledIndex is of type Top
- Bad: FMSound.normalizedModulation is of type Top
- Bad: FMSound.scaledOffsetIndexIncr is of type Top
- Bad: FMSound.modulation is of type Top
- Bad: FMSound.scaledIndexIncr is of type Top
- Bad: FMSound.count is of type Top
- Good: FWT.transform is of type { UndefinedObject Array }
- Bad: FWT.beta is of type Top
- Good: FWT.gTilde is of type { UndefinedObject Array }
- Good: FWT.coeffs is of type { UndefinedObject Array }
- Good: FWT.g is of type { UndefinedObject Array }
- Bad: FWT.nSamples is of type Top
- Bad: FWT.nLevels is of type Top
- Bad: FWT.alpha is of type Top
- Good: FWT.h is of type { UndefinedObject Array }
- Good: FWT.samples is of type { UndefinedObject Array }

- Good: FWT.hTilde is of type { UndefinedObject Array }
- Bad: GSMCodec.encodeState is of type Top
- Bad: GSMCodec.decodeState is of type Top
- Bad: LoopedSampledSound.initialCount is of type Top
- Bad: LoopedSampledSound.perceivedPitch is of type Top
- Bad: LoopedSampledSound.scaledLoopLength is of type Top
- Bad: LoopedSampledSound.lastSample is of type Top
- Bad: LoopedSampledSound.gain is of type Top
- Bad: LoopedSampledSound.scaledIndexIncr is of type Top
- Bad: LoopedSampledSound.releaseCount is of type Top
- Bad: LoopedSampledSound.firstSample is of type Top
- Bad: LoopedSampledSound.sampleCountForRelease is of type Top
- Bad: LoopedSampledSound.rightSamples is of type Top
- Bad: LoopedSampledSound.leftSamples is of type Top
- Bad: LoopedSampledSound.scaledIndex is of type Top
- Bad: LoopedSampledSound.originalSamplingRate is of type Top
- Bad: LoopedSampledSound.count is of type Top
- Bad: LoopedSampledSound.loopEnd is of type Top
- Good: MixedSound.soundDone is of type { UndefinedObject Array }
- Good: MixedSound.sounds is of type { UndefinedObject Array }
- Good: MixedSound.leftVols is of type { UndefinedObject Array }
- Good: MixedSound.rightVols is of type { UndefinedObject Array }
- Bad: PitchEnvelope.centerPitch is of type Top
- Bad: PluckedSound.initialCount is of type Top
- Bad: PluckedSound.ring is of type Top
- Bad: PluckedSound.scaledIndexLimit is of type Top
- Bad: PluckedSound.scaledIndex is of type Top
- Bad: PluckedSound.scaledIndexIncr is of type Top

- Bad: PluckedSound.count is of type Top
- Good: RandomEnvelope.rand is of type { Random UndefinedObject }
- Good: RandomEnvelope.highLimit is of type { UndefinedObject Float }
- Good: RandomEnvelope.lowLimit is of type { UndefinedObject Float }
- Good: RandomEnvelope.delta is of type { UndefinedObject Float }
- Bad: RepeatingSound.iteration is of type Top
- Bad: RepeatingSound.iterationCount is of type Top
- Bad: RepeatingSound.sound is of type Top
- Bad: RepeatingSound.samplesPerIteration is of type Top
- Bad: RestSound.initialCount is of type Top
- Bad: RestSound.count is of type Top
- Good: ReverbSound.tapGains is of type { UndefinedObject Bitmap }
- Good: ReverbSound.bufferSize is of type { Bitmap LargeNegativeInteger LargePositiveInteger UndefinedObject SmallInteger }
- Good: ReverbSound.rightBuffer is of type { UndefinedObject SoundBuffer }
- Good: ReverbSound.leftBuffer is of type { UndefinedObject SoundBuffer }
- Good: ReverbSound.tapCount is of type { UndefinedObject SmallInteger }
- Good: ReverbSound.tapDelays is of type { UndefinedObject Bitmap }
- Bad: ReverbSound.bufferIndex is of type Top
- Good: ReverbSound.sound is of type UndefinedObject
- Good: SampledInstrument.sustainedSoft is of type { UndefinedObject Array }
- Good: SampledInstrument.staccatoSoft is of type { UndefinedObject Array }
- Good: SampledInstrument.staccatoLoud is of type { UndefinedObject Array }
- Good: SampledInstrument.sustainedThreshold is of type { UndefinedObject Float }

- Good: SampledInstrument.sustainedLoud is of type { UndefinedObject Array }
- Good: SampledInstrument.loudThreshold is of type { UndefinedObject Float }
- Bad: SampledSound.initialCount is of type Top
- Bad: SampledSound.samples is of type Top
- Bad: SampledSound.scaledIncrement is of type Top
- Bad: SampledSound.scaledIndex is of type Top
- Bad: SampledSound.indexHighBits is of type Top
- Bad: SampledSound.samplesSize is of type Top
- Bad: SampledSound.originalSamplingRate is of type Top
- Bad: SampledSound.count is of type Top
- Good: SequentialSound.sounds is of type { UndefinedObject Array }
- Bad: SequentialSound.currentIndex is of type Top
- Bad: Sonogram.lastX is of type Top
- Good: Sonogram.pixValMap is of type { UndefinedObject Bitmap }
- Good: Sonogram.maxVal is of type { UndefinedObject Float }
- Good: Sonogram.minVal is of type { UndefinedObject Float }
- Good: Sonogram.scrollDelta is of type { UndefinedObject SmallInteger }
- Good: Sonogram.columnForm is of type { Form UndefinedObject }
- Bad: SoundInputStream.mutex is of type Top
- Bad: SoundInputStream.bufferSize is of type Top
- Good: SoundRecorder.currentBuffer is of type { UndefinedObject SoundBuffer }
- Bad: SoundRecorder.recordProcess is of type Top
- Good: SoundRecorder.codec is of type { GSMCodec UndefinedObject }
- Good: SoundRecorder.desiredSampleRate is of type { UndefinedObject Float }
- Bad: SoundRecorder.nextIndex is of type Top

- Good: SoundRecorder.meteringBuffer is of type { UndefinedObject SoundBuffer }
- Bad: SoundRecorder.meterLevel is of type Top
- Good: SoundRecorder.stereo is of type { False UndefinedObject }
- Good: SoundRecorder.recordLevel is of type { UndefinedObject Float }
- Good: SoundRecorder.soundPlaying is of type { SampledSound SequentialSound UndefinedObject ChatRecorder SoundInputStream SoundRecorder }
- Good: SoundRecorder.recordedBuffers is of type { Array UndefinedObject OrderedCollection }
- Good: SoundRecorder.paused is of type { True UndefinedObject False }
- Bad: SoundRecorder.samplingRate is of type Top
- Good: SoundRecorder.recordedSound is of type { SampledSound SequentialSound UndefinedObject ChatRecorder SoundInputStream SoundRecorder }
- Good: SoundRecorder.bufferAvailableSema is of type { Semaphore UndefinedObject }
- Bad: VolumeEnvelope.mSecsForChange is of type { Magnitude++ UndefinedObject }
- Bad: VolumeEnvelope.targetVol is of type Top
- Good: VolumeEnvelope.currentVol is of type UndefinedObject
- Bad: WaveletCodec.alpha is of type Top
- Bad: WaveletCodec.beta is of type Top
- Good: WaveletCodec.fwt is of type { FWT UndefinedObject }
- Good: WaveletCodec.samplesPerFrame is of type { UndefinedObject SmallInteger }
- Bad: WaveletCodec.nLevels is of type Top
- Bad: TestInterfaceBase.duration is of type Top
- Bad: TestInterfaceBase.classPattern is of type Top
- Bad: TestInterfaceBase.result is of type Top
- Bad: TestInterfaceBase.selectorPattern is of type Top

- Good: TestModel.failureList is of type { UndefinedObject OrderedCollection }
- Bad: TestModel.patternHistory is of type Top
- Bad: TestModel.errorList is of type Top
- Bad: TestModel.summaryText is of type { Boolean++ String UndefinedObject }
- Bad: TestModel.summaryTextM is of type { PluggableTextMorph++ PluggableTextView UndefinedObject }
- Good: TestModel.summaryTextV is of type { PluggableTextView UndefinedObject }
- Good: TestModel.updateColorSelector is of type { UndefinedObject #updateColorM #updateColorV }
- Good: TestModel.patternTextV is of type { PluggableTextView UndefinedObject }
- Bad: TestModel.patternTextM is of type { PluggableTextMorph++ PluggableTextView UndefinedObject }
- Bad: TestModel.detailsText is of type Top
- Bad: Browser.classOrganizer is of type Top
- Bad: Browser.systemOrganizer is of type Top
- Bad: Browser.messageListIndex is of type Top
- Bad: Browser.messageCategoryListIndex is of type Top
- Good: Browser.editSelection is of type { Boolean++ UndefinedObject #hierarchy #editClass #editComment #none #editMessageCategories #newClass #editMessage #newMessage #editSystemCategories #byteCodes }
- Bad: Browser.metaClassOrganizer is of type Top
- Bad: Browser.systemCategoryListIndex is of type Top
- Bad: Browser.metaClassIndicated is of type Top
- Bad: Browser.classListIndex is of type Top
- Bad: ChangedMessageSet.changeSet is of type Top
- Bad: HierarchyBrowser.centralClass is of type Top
- Bad: HierarchyBrowser.classList is of type Top

- Bad: MessageSet.messageList is of type Top
- Bad: MessageSet.autoSelectString is of type Top
- Bad: PackageBrowser.package is of type Top
- Bad: PackageBrowser.packageListIndex is of type Top
- Good: PackageBrowser.packageList is of type UndefinedObject
- Good: ProtocolBrowser.selectedClass is of type UndefinedObject
- Bad: ProtocolBrowser.selectedSelector is of type Top
- Bad: SelectorBrowser.classListIndex is of type Top
- Bad: SelectorBrowser.classList is of type Top
- Bad: SelectorBrowser.selectorIndex is of type Top
- Bad: SelectorBrowser.selectorList is of type Top
- Bad: BitBltSimulation.sy is of type Top
- Bad: BitBltSimulation.halftoneBase is of type Top
- Bad: BitBltSimulation.cmBlueShift is of type Top
- Bad: BitBltSimulation.destWidth is of type Top
- Bad: BitBltSimulation.destX is of type Top
- Bad: BitBltSimulation.width is of type Top
- Bad: BitBltSimulation.scanString is of type Top
- Bad: BitBltSimulation.sourceBits is of type Top
- Bad: BitBltSimulation.scanStop is of type Top
- Bad: BitBltSimulation.dy is of type Top
- Good: BitBltSimulation.warpBitShiftTable is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.destPixSize is of type Top
- Bad: BitBltSimulation.pixPerWord is of type Top
- Good: BitBltSimulation.ditherValues16 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.cmRedMask is of type Top
- Bad: BitBltSimulation.warpSrcMask is of type Top

- Bad: BitBltSimulation.dstBitShift is of type Top
- Bad: BitBltSimulation.destIndex is of type Top
- Bad: BitBltSimulation.sourceIndex is of type Top
- Bad: BitBltSimulation.clipX is of type Top
- Good: BitBltSimulation.hDir is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.nWords is of type Top
- Bad: BitBltSimulation.clipHeight is of type Top
- Bad: BitBltSimulation.bitBltOop is of type Top
- Bad: BitBltSimulation.preload is of type Top
- Bad: BitBltSimulation.opTable is of type Top
- Bad: BitBltSimulation.sourceForm is of type Top
- Bad: BitBltSimulation.warpAlignMask is of type Top
- Bad: BitBltSimulation.skew is of type Top
- Bad: BitBltSimulation.cmDeltaBits is of type Top
- Good: BitBltSimulation.ditherMatrix4x4 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.sourceY is of type Top
- Bad: BitBltSimulation.scanStart is of type Top
- Bad: BitBltSimulation.cmGreenShift is of type Top
- Bad: BitBltSimulation.destBits is of type Top
- Bad: BitBltSimulation.destPitch is of type Top
- Bad: BitBltSimulation.height is of type Top
- Bad: BitBltSimulation.sourcePitch is of type Top
- Bad: BitBltSimulation.destY is of type Top
- Bad: BitBltSimulation.affectedL is of type Top
- Good: BitBltSimulation.maskTable is of type { UndefinedObject Array }
- Good: BitBltSimulation.scanDisplayFlag is of type { True UndefinedObject False }

- Bad: BitBltSimulation.mask1 is of type Top
- Bad: BitBltSimulation.destDelta is of type Top
- Good: BitBltSimulation.noHalftone is of type { True UndefinedObject False }
- Bad: BitBltSimulation.clipWidth is of type Top
- Bad: BitBltSimulation.destForm is of type Top
- Bad: BitBltSimulation.sx is of type Top
- Bad: BitBltSimulation.clipY is of type Top
- Bad: BitBltSimulation.scanRightX is of type Top
- Bad: BitBltSimulation.cmBlueMask is of type Top
- Bad: BitBltSimulation.halftoneHeight is of type Top
- Bad: BitBltSimulation.affectedT is of type Top
- Bad: BitBltSimulation.sourcePixSize is of type Top
- Bad: BitBltSimulation.cmRedShift is of type Top
- Good: BitBltSimulation.noSource is of type { True UndefinedObject False }
- Bad: BitBltSimulation.dx is of type Top
- Bad: BitBltSimulation.destMask is of type Top
- Bad: BitBltSimulation.affectedB is of type Top
- Bad: BitBltSimulation.cmGreenMask is of type Top
- Good: BitBltSimulation.hasSurfaceLock is of type { True UndefinedObject False }
- Bad: BitBltSimulation.stopCode is of type Top
- Bad: BitBltSimulation.combinationRule is of type Top
- Bad: BitBltSimulation.bitCount is of type Top
- Good: BitBltSimulation.vDir is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.destHeight is of type Top
- Good: BitBltSimulation.cmBitsPerColor is of type { UndefinedObject SmallInteger }

- Bad: BitBltSimulation.bbH is of type Top
- Bad: BitBltSimulation.bbW is of type Top
- Bad: BitBltSimulation.srcWidth is of type Top
- Bad: BitBltSimulation.affectedR is of type Top
- Good: BitBltSimulation.ditherThresholds16 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.sourceDelta is of type Top
- Bad: BitBltSimulation.warpSrcShift is of type Top
- Bad: BitBltSimulation.halftoneForm is of type Top
- Bad: BitBltSimulation.mask2 is of type Top
- Bad: BitBltSimulation.scanXTable is of type Top
- Bad: BitBltSimulation.scanStopArray is of type Top
- Bad: BitBltSimulation.sourceAlpha is of type Top
- Bad: BitBltSimulation.colorMap is of type Top
- Bad: BitBltSimulation.warpAlignShift is of type Top
- Bad: BitBltSimulation.sourceX is of type Top
- Bad: BitBltSimulation.srcBitShift is of type Top
- Bad: BitBltSimulation.srcHeight is of type Top
- Bad: Interpreter.activeContext is of type Top
- Bad: Interpreter.nextWakeupTick is of type Top
- Bad: Interpreter.localIP is of type Top
- Bad: Interpreter.localHomeContext is of type Top
- Good: Interpreter.methodCache is of type { UndefinedObject Array }
- Bad: Interpreter.interruptKeycode is of type Top
- Bad: Interpreter.semaphoresToSignalCountA is of type Top
- Bad: Interpreter.interruptCheckCounterFeedBackReset is of type Top
- Good: Interpreter.interpreterVersion is of type UndefinedObject
- Good: Interpreter.obsoleteNamedPrimitiveTable is of type { CArrayAccessor UndefinedObject }

- Good: Interpreter.interpreterProxy is of type { UndefinedObject InterpreterSimulator InterpreterSimulatorMSB InterpreterSimulatorLSB }
- Bad: Interpreter.receiver is of type Top
- Bad: Interpreter.stackPointer is of type Top
- Bad: Interpreter.receiverClass is of type Top
- Good: Interpreter.obsoleteIndexedPrimitiveTable is of type { CArrayAccessor UndefinedObject }
- Bad: Interpreter.successFlag is of type Top
- Good: Interpreter.compilerHooks is of type UndefinedObject
- Bad: Interpreter.fullScreenFlag is of type { Interpreter InterpreterSimulator InterpreterSimulatorLSB UndefinedObject InterpreterSimulatorMSB }
- Bad: Interpreter.primitiveIndex is of type Top
- Good: Interpreter.semaphoresToSignalB is of type { UndefinedObject Array }
- Bad: Interpreter.compilerInitialized is of type Top
- Bad: Interpreter.localSP is of type Top
- Bad: Interpreter.instructionPointer is of type Top
- Good: Interpreter.semaphoresUseBufferA is of type { True UndefinedObject False }
- Good: Interpreter.deferDisplayUpdates is of type { True UndefinedObject False }
- Bad: Interpreter.theHomeContext is of type Top
- Bad: Interpreter.extraVMMemory is of type Top
- Bad: Interpreter.method is of type Top
- Bad: Interpreter.pendingFinalizationSignals is of type Top
- Bad: Interpreter.newMethod is of type Top
- Good: Interpreter.semaphoresToSignalA is of type { UndefinedObject Array }
- Bad: Interpreter.methodClass is of type Top

- Bad: Interpreter.newNativeMethod is of type Top
- Good: Interpreter.atCache is of type { UndefinedObject Array }
- Bad: Interpreter.argumentCount is of type Top
- Bad: Interpreter.currentBytecode is of type Top
- Good: Interpreter.interruptPending is of type { False UndefinedObject }
- Good: Interpreter.interruptChecksEveryNms is of type { UndefinedObject SmallInteger }
- Bad: Interpreter.nextPollTick is of type Top
- Bad: Interpreter.lkupClass is of type Top
- Bad: Interpreter.reclaimableContextCount is of type Top
- Bad: Interpreter.savedWindowSize is of type Top
- Bad: Interpreter.lastTick is of type Top
- Bad: Interpreter.semaphoresToSignalCountB is of type Top
- Bad: Interpreter.messageSelector is of type Top
- Bad: Interpreter.showSurfaceFn is of type Top
- Good: InterpreterSimulator.myBitBlt is of type { False UndefinedObject BitBltSimulator }
- Good: InterpreterSimulator.traceOn is of type { UndefinedObject True }
- Bad: InterpreterSimulator.imageName is of type Top
- Bad: InterpreterSimulator.pluginList is of type Top
- Bad: InterpreterSimulator.sendCount is of type Top
- Good: InterpreterSimulator.displayForm is of type { Form UndefinedObject }
- Good: InterpreterSimulator.mappedPluginEntries is of type { UndefinedObject Array }
- Good: InterpreterSimulator.filesOpen is of type { UndefinedObject OrderedCollection }
- Bad: InterpreterSimulator.byteCount is of type Top
- Good: ObjectMemory.signalLowSpace is of type { True UndefinedObject False }

- Bad: ObjectMemory.tenuringThreshold is of type Top
- Bad: ObjectMemory.lastHash is of type Top
- Bad: ObjectMemory.statIncrGCMSecs is of type Top
- Good: ObjectMemory.remapBuffer is of type { UndefinedObject Array }
- Bad: ObjectMemory.trueObj is of type Top
- Bad: ObjectMemory.statFullGCMSecs is of type Top
- Bad: ObjectMemory.freeLargeContexts is of type Top
- Bad: ObjectMemory.lowSpaceThreshold is of type Top
- Bad: ObjectMemory.allocationsBetweenGCs is of type Top
- Bad: ObjectMemory.interruptCheckCounter is of type Top
- Bad: ObjectMemory.freeContexts is of type Top
- Bad: ObjectMemory.compStart is of type Top
- Bad: ObjectMemory.youngStart is of type Top
- Bad: ObjectMemory.compEnd is of type Top
- Bad: ObjectMemory.totalObjectFoundAtStartup is of type Top
- Bad: ObjectMemory.memoryLimit is of type Top
- Bad: ObjectMemory.endOfMemory is of type Top
- Bad: ObjectMemory.specialObjectsOop is of type Top
- Bad: ObjectMemory.statFullGCs is of type Top
- Bad: ObjectMemory.statTenures is of type Top
- Good: ObjectMemory.nilObj is of type UndefinedObject
- Bad: ObjectMemory.child is of type Top
- Bad: ObjectMemory.fwdTableLast is of type Top
- Bad: ObjectMemory.fwdTableNext is of type Top
- Bad: ObjectMemory.rootTableCount is of type Top
- Bad: ObjectMemory.allocationCount is of type Top
- Bad: ObjectMemory.falseObj is of type Top
- Bad: ObjectMemory.remapBufferCount is of type Top

- Bad: ObjectMemory.parentField is of type Top
- Bad: ObjectMemory.field is of type Top
- Good: ObjectMemory.memory is of type { Interpreter UndefinedObject InterpreterSimulatorMSB InterpreterSimulatorLSB Bitmap InterpreterSimulator }
- Bad: ObjectMemory.freeBlock is of type Top
- Bad: ObjectMemory.statRootTableOverflows is of type Top
- Good: ObjectMemory.rootTable is of type { UndefinedObject Array }
- Bad: ObjectMemory.statIncrGCs is of type Top
- Good: ObjectMemory.displayBits is of type { UndefinedObject SmallInteger }
- Bad: SystemMonitor.vmParameters is of type Top
- Bad: SystemMonitor.gcHighWaterMark is of type Top
- Bad: SystemMonitor.baselineSkip is of type Top
- Bad: SystemMonitor.prevAllocCount is of type Top
- Bad: SystemMonitor.prevDeltaIncrGC is of type Top
- Bad: SystemMonitor.prevMcMiss is of type Top
- Good: SystemMonitor.window is of type { UndefinedObject Rectangle }
- Bad: SystemMonitor.prevDeltaFullGC is of type Top
- Bad: SystemMonitor.prevFullGC is of type Top
- Good: SystemMonitor.valSelectors is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevIncrGC is of type Top
- Bad: SystemMonitor.prevMsClock is of type Top
- Good: SystemMonitor.maxValues is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevAllocRate is of type Top
- Bad: SystemMonitor.gcLowWaterMark is of type Top
- Good: SystemMonitor.labels is of type { UndefinedObject Array }
- Good: SystemMonitor.minValues is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevIcHit is of type Top

- Bad: SystemMonitor.prevMcHit is of type Top
- Good: SystemTracer.hashGenerator is of type { Random UndefinedObject }
- Bad: SystemTracer.maxOop is of type Top
- Good: SystemTracer.map is of type UndefinedObject
- Good: SystemTracer.initialProcess is of type UndefinedObject
- Good: SystemTracer.oopMap is of type { UndefinedObject Array }
- Bad: SystemTracer.specialObjects is of type Top
- Good: SystemTracer.file is of type { CrLfFileStream UndefinedObject }
- Good: SystemTracer.cleaningUp is of type { False UndefinedObject }
- Good: SystemTracer.writeDict is of type { UndefinedObject Dictionary }
- Good: SystemTracer.imageHeaderSize is of type { UndefinedObject SmallInteger }
- Good: SystemTracer.compactClasses is of type { UndefinedObject Array }
- Good: SystemTracer.replacementClasses is of type { UndefinedObject Dictionary }
- Good: ChineseCheckerPiece.myBoard is of type { ChineseCheckers UndefinedObject }
- Bad: ChineseCheckerPiece.boardLoc is of type Top
- Bad: ChineseCheckers.movePhase is of type Top
- Good: ChineseCheckers.board is of type { UndefinedObject Array }
- Good: ChineseCheckers.plannedMovePhase is of type UndefinedObject
- Good: ChineseCheckers.sixDeltas is of type { UndefinedObject Array }
- Bad: ChineseCheckers.plannedMove is of type Top
- Bad: ChineseCheckers.whoseMove is of type Top
- Good: ChineseCheckers.teams is of type { UndefinedObject Array }
- Good: ChineseCheckers.colors is of type { UndefinedObject Array }
- Good: ChineseCheckers.homes is of type { UndefinedObject Array }

- Good: ChineseCheckers.animateMoves is of type { True UndefinedObject False }
- Good: ChineseCheckers.pathMorphs is of type { UndefinedObject OrderedCollection }
- Good: ChineseCheckers.autoPlay is of type { UndefinedObject Array }
- Good: CipherPanel.originalMorphs is of type { UndefinedObject Array }
- Good: CipherPanel.decodingMorphs is of type { UndefinedObject Array }
- Good: CipherPanel.quote is of type { UndefinedObject String Character }
- Good: CipherPanel.originalText is of type UndefinedObject
- Good: CrosticPanel.crosticPanel is of type UndefinedObject
- Good: CrosticPanel.cluesCol2 is of type { AlignmentMorph UndefinedObject }
- Bad: CrosticPanel.quote is of type Top
- Good: CrosticPanel.answers is of type { UndefinedObject OrderedCollection }
- Good: CrosticPanel.clues is of type { UndefinedObject OrderedCollection }
- Good: CrosticPanel.cluesPanel is of type { AlignmentMorph UndefinedObject }
- Good: CrosticPanel.quotePanel is of type { CrosticQuotePanel UndefinedObject }
- Good: CrosticQuotePanel.cluesPanel is of type { CrosticPanel UndefinedObject }
- Good: FreeCell.lastGameLost is of type UndefinedObject
- Good: FreeCell.cardsRemainingDisplay is of type { LedMorph UndefinedObject }
- Good: FreeCell.gameNumberDisplay is of type { LedMorph UndefinedObject }
- Good: FreeCell.state is of type { UndefinedObject #sameGame #pickGame #won #newGame #lost }
- Good: FreeCell.myFillStyle is of type { UndefinedObject GradientFillStyle }

- Good: FreeCell.elapsedTimeDisplay is of type { UndefinedObject LedTimerMorph }
- Good: FreeCell.board is of type { FreeCellBoard UndefinedObject }
- Bad: FreeCell.autoMoveRecursionCount is of type Top
- Bad: FreeCellBoard.target is of type Top
- Bad: FreeCellBoard.actionSelector is of type Top
- Good: FreeCellBoard.stacks is of type { UndefinedObject Array }
- Good: FreeCellBoard.freeCells is of type { UndefinedObject Array }
- Good: FreeCellBoard.homeCells is of type { UndefinedObject Array }
- Good: FreeCellBoard.cardDeck is of type { PlayingCardDeck UndefinedObject }
- Good: FreeCellBoard.lastCardDeck is of type UndefinedObject
- Bad: FreeCellStatistics.streakLosses is of type Top
- Bad: FreeCellStatistics.lastGameWon is of type Top
- Bad: FreeCellStatistics.lastGameLost is of type Top
- Bad: FreeCellStatistics.currentCount is of type Top
- Good: FreeCellStatistics.currentType is of type { UndefinedObject #wins #losses }
- Good: FreeCellStatistics.statsMorph is of type { TextMorph UndefinedObject }
- Good: FreeCellStatistics.window is of type UndefinedObject
- Bad: FreeCellStatistics.sessionLosses is of type Top
- Bad: FreeCellStatistics.lossesWithReplay is of type Top
- Bad: FreeCellStatistics.sessionWins is of type Top
- Bad: FreeCellStatistics.totalWins is of type Top
- Bad: FreeCellStatistics.streakWins is of type Top
- Bad: FreeCellStatistics.totalLosses is of type Top
- Bad: FreeCellStatistics.winsWithReplay is of type Top
- Bad: LedDigitMorph.digit is of type Top

- Good: LedDigitMorph.highlighted is of type { True UndefinedObject False }
- Good: LedMorph.digits is of type { UndefinedObject SmallInteger }
- Bad: LedMorph.flash is of type Top
- Good: LedMorph.flashing is of type { True UndefinedObject False }
- Bad: LedMorph.value is of type Top
- Good: LedTimerMorph.counting is of type { True UndefinedObject False }
- Bad: LedTimerMorph.startSeconds is of type Top
- Bad: PlayingCard.cardNo is of type Top
- Bad: PlayingCard.suitNo is of type Top
- Good: PlayingCard.suit is of type UndefinedObject
- Good: PlayingCard.cardForm is of type { Form UndefinedObject }
- Bad: PlayingCardDeck.target is of type Top
- Bad: PlayingCardDeck.seed is of type Top
- Good: PlayingCardDeck.acceptCardSelector is of type { PlayingCardDeck UndefinedObject #acceptCard:onStack: #acceptSingleCard:on: }
- Good: PlayingCardDeck.cardDraggedSelector is of type { PlayingCardDeck UndefinedObject #dragCard:fromHome: #dragCard:fromStack: }
- Good: PlayingCardDeck.stackingOrder is of type { UndefinedObject #descending #ascending }
- Good: PlayingCardDeck.cardDroppedSelector is of type { PlayingCardDeck UndefinedObject #cardMoved #cardMovedHome }
- Good: PlayingCardDeck.cardDoubleClickSelector is of type { PlayingCardDeck UndefinedObject #doubleClickInStack:OnCard: }
- Good: PlayingCardDeck.stackingPolicy is of type { UndefinedObject #stagger #straight #altStraight #single }
- Good: PlayingCardDeck.emptyDropPolicy is of type { UndefinedObject #inOrder #any }
- Good: PlayingCardDeck.layout is of type { UndefinedObject #stagger #pile #grid }

- Good: PlayingCardMorph.suitNumber is of type { UndefinedObject SmallInteger }
- Bad: PlayingCardMorph.cardNumber is of type Top
- Good: SameGame.scoreDisplay is of type { LedMorph UndefinedObject }
- Good: SameGame.board is of type { UndefinedObject SameGameBoard }
- Good: SameGame.selectionDisplay is of type { LedMorph UndefinedObject }
- Bad: SameGame.helpText is of type { StringHolderView++ PluggableTextMorph++ UndefinedObject }
- Good: SameGameBoard.palette is of type { UndefinedObject OrderedCollection }
- Bad: SameGameBoard.target is of type Top
- Bad: SameGameBoard.columns is of type Top
- Bad: SameGameBoard.actionSelector is of type Top
- Good: SameGameBoard.selectionColor is of type UndefinedObject
- Good: SameGameBoard.flash is of type { True UndefinedObject False }
- Good: SameGameBoard.arguments is of type { UndefinedObject Array }
- Bad: SameGameBoard.rows is of type Top
- Bad: SameGameBoard.protoTile is of type Top
- Bad: SameGameBoard.flashColor is of type Top
- Good: SameGameBoard.selection is of type UndefinedObject
- Bad: SameGameTile.oldSwitchState is of type Top
- Bad: SameGameTile.switchState is of type Top
- Good: SameGameTile.disabled is of type { True UndefinedObject False }
- Good: Tetris.scoreDisplay is of type { LedMorph UndefinedObject }
- Good: Tetris.board is of type { UndefinedObject TetrisBoard }
- Bad: TetrisBlock.shapeInfo is of type Top
- Good: TetrisBlock.board is of type { UndefinedObject TetrisBoard }

- Bad: TetrisBlock.angle is of type Top
- Bad: TetrisBlock.baseCellNumber is of type Top
- Good: TetrisBoard.game is of type { UndefinedObject Tetris }
- Good: TetrisBoard.gameOver is of type { True UndefinedObject False }
- Bad: TetrisBoard.score is of type Top
- Good: TetrisBoard.paused is of type { True UndefinedObject False }
- Bad: TetrisBoard.delay is of type { Magnitude++ UndefinedObject }
- Good: TetrisBoard.currentBlock is of type { TetrisBlock UndefinedObject }
- Good: WordGameLetterMorph.predecessor is of type { WordGameLetterMorph UndefinedObject }
- Good: WordGameLetterMorph.lineMorph is of type { UndefinedObject PolygonMorph }
- Good: WordGameLetterMorph.style is of type { UndefinedObject #underlined #boxed #plain }
- Good: WordGameLetterMorph.letterMorph is of type { StringMorph UndefinedObject }
- Bad: WordGameLetterMorph.letter is of type Top
- Good: WordGameLetterMorph.originalLetter is of type UndefinedObject
- Good: WordGameLetterMorph.successor is of type { WordGameLetterMorph UndefinedObject }
- Bad: WordGameLetterMorph.indexInQuote is of type Top
- Good: WordGameLetterMorph.linkedLetters is of type UndefinedObject
- Good: WordGamePanelMorph.letterMorphs is of type { Array UndefinedObject OrderedCollection }
- Good: WordGamePanelMorph.haveTypedHere is of type { True UndefinedObject False }

4.6 Threshold of 2000

- Bad: PDA.recurringEvents is of type Top
- Good: PDA.peopleList is of type { ArrayedCollection++ UndefinedObject }
- Bad: PDA.date is of type Top
- Good: PDA.dateButtonPressed is of type UndefinedObject
- Bad: PDA.allEvents is of type Top
- Bad: PDA.category is of type Top
- Bad: PDA.currentItem is of type Top
- Good: PDA.scheduleList is of type { ArrayedCollection++ UndefinedObject }
- Good: PDA.categoryListIndex is of type UndefinedObject
- Bad: PDA.allPeople is of type Top
- Bad: PDA.scheduleListIndex is of type Top
- Bad: PDA.allToDoItems is of type Top
- Bad: PDA.allNotes is of type Top
- Bad: PDA.notesListIndex is of type Top
- Good: PDA.currentItemSelection is of type UndefinedObject
- Good: PDA.categoryList is of type UndefinedObject
- Good: PDA.toDoList is of type { ArrayedCollection++ UndefinedObject }
- Bad: PDA.toDoListIndex is of type Top
- Bad: PDA.peopleListIndex is of type Top
- Good: PDA.notesList is of type { ArrayedCollection++ UndefinedObject }
- Good: PDA.currentItemText is of type UndefinedObject
- Bad: PDA.userCategories is of type Top
- Good: PDA.viewDescriptionOnly is of type { True UndefinedObject False }
- Bad: PDAChoiceMorph.backgroundColor is of type Top

- Bad: PDAClockMorph.backgroundColor is of type Top
- Bad: PDAEvent.time is of type Top
- Bad: PDAEvent.date is of type Top
- Bad: PDAEvent.duration is of type Top
- Good: PDAEvent.alarm is of type UndefinedObject
- Bad: PDAPerson.name is of type Top
- Good: PDAPerson.address is of type UndefinedObject
- Good: PDAPerson.phone is of type { String UndefinedObject }
- Good: PDAPerson.email is of type { String UndefinedObject }
- Bad: PDARecord.description is of type Top
- Bad: PDARecord.key is of type Top
- Good: PDARecord.otherFields is of type { UndefinedObject Dictionary }
- Good: PDARecurringEvent.recurrence is of type { UndefinedObject #nthWeekdayOfMonthEachYear #dayOfMonth #dayOfWeek #dateOfYear }
- Bad: PDARecurringEvent.firstDate is of type Top
- Bad: PDARecurringEvent.lastDate is of type Top
- Good: PDAToDoItem.deadline is of type UndefinedObject
- Bad: PDAToDoItem.result is of type Top
- Bad: PDAToDoItem.dayDone is of type Top
- Bad: PDAToDoItem.dayPosted is of type Top
- Bad: PDAToDoItem.priority is of type Top
- Bad: IRCChannelInfo.name is of type Top
- Bad: IRCChannelInfo.topic is of type Top
- Good: IRCChannelInfo.subscribers is of type { IdentitySet UndefinedObject }
- Good: IRCChannelInfo.members is of type { Set UndefinedObject }
- Good: IRCChannelInfo.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCChannelListBrowser.channelIndex is of type Top

- Bad: IRCChannelListBrowser.channelList is of type Top
- Good: IRCChannelListBrowser.sortCriterion is of type { UndefinedObject #name }
- Good: IRCChannelListBrowser.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCChannelObserver.chatText is of type Top
- Good: IRCChannelObserver.channelName is of type UndefinedObject
- Bad: IRCChannelObserver.channel is of type Top
- Good: IRCChannelObserver.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCChannelSummary.name is of type Top
- Bad: IRCChannelSummary.topic is of type Top
- Bad: IRCChannelSummary.numUsers is of type Top
- Good: IRCChannelUsersBrowser.channel is of type { UndefinedObject IRCChannelInfo }
- Good: IRCChannelUsersBrowser.userList is of type { UndefinedObject Array }
- Bad: IRCChannelUsersBrowser.userIndex is of type Top
- Good: IRCConnection.directMessageSubscribers is of type { IdentitySet UndefinedObject }
- Good: IRCConnection.channelListBeingBuilt is of type { UndefinedObject OrderedCollection }
- Good: IRCConnection.protocolMessagesToSend is of type { UndefinedObject OrderedCollection }
- Bad: IRCConnection.sendBuffer is of type Top
- Bad: IRCConnection.server is of type Top
- Good: IRCConnection.motdBeingBuilt is of type { UndefinedObject WriteStream }
- Good: IRCConnection.protocolMessageSubscribers is of type { IdentitySet UndefinedObject }
- Bad: IRCConnection.motd is of type { SequenceableCollection++ Integer++ UndefinedObject B3DIndexedQuad B3DPrimitiveRasterizerData B3DIndexedTriangle }

- Bad: IRCConnection.port is of type Top
- Good: IRCConnection.recieveBuffer is of type { String UndefinedObject }
- Good: IRCConnection.socket is of type { Socket UndefinedObject }
- Bad: IRCConnection.userName is of type Top
- Bad: IRCConnection.nick is of type Top
- Good: IRCConnection.channelList is of type { UndefinedObject Array }
- Good: IRCConnection.subscribedChannels is of type { UndefinedObject Dictionary }
- Bad: IRCConnection.fullName is of type Top
- Good: IRCConnection.messagesProcessed is of type { UndefinedObject SmallInteger }
- Good: IRCConnection.consoleText is of type { Text UndefinedObject }
- Bad: IRCDirectMessagesObserver.chatText is of type Top
- Bad: IRCDirectMessagesObserver.talkingTo is of type Top
- Good: IRCDirectMessagesObserver.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCMessage.text is of type Top
- Bad: IRCMessage.sender is of type Top
- Bad: IRCMessage.recipient is of type Top
- Good: IRCMessagePattern.sender is of type UndefinedObject
- Good: IRCMessagePattern.recipient is of type UndefinedObject
- Good: IRCMessageSet.messages is of type UndefinedObject
- Bad: IRCMorph.userName is of type Top
- Bad: IRCMorph.nick is of type Top
- Bad: IRCMorph.server is of type Top
- Good: IRCMorph.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCMorph.fullName is of type Top
- Good: IRCMorph.messageCollections is of type UndefinedObject

- Bad: IRCMorph.consoleText is of type Top
- Bad: IRCMorph.port is of type Top
- Bad: IRCProtocolMessage.arguments is of type Top
- Good: IRCProtocolMessage.command is of type { String++ UndefinedObject Character }
- Bad: IRCProtocolMessage.prefix is of type { SequenceableCollection++ Integer++ UndefinedObject B3DIndexedQuad B3DPrimitiveRasterizerData B3DIndexedTriangle }
- Good: IRCRecipientFilter.recipient is of type UndefinedObject
- Good: CategoriesFile.categories is of type { UndefinedObject Dictionary }
- Bad: Celeste.currentMessages is of type Top
- Good: Celeste.customFilterBlock is of type { UndefinedObject Compiler }
- Bad: Celeste.status is of type Top
- Bad: Celeste.userPassword is of type Top
- Bad: Celeste.currentMsgID is of type Top
- Bad: Celeste.mailDB is of type Top
- Bad: Celeste.currentCategory is of type Top
- Bad: Celeste.lastCategory is of type Top
- Good: Celeste.lastCategoryList is of type UndefinedObject
- Good: Celeste.dateFilter is of type UndefinedObject
- Good: Celeste.currentTOC is of type { Array UndefinedObject OrderedCollection }
- Bad: Celeste.fromFilter is of type Top
- Good: Celeste.formatMessages is of type UndefinedObject
- Good: Celeste.lastCategoryMenu is of type { CustomMenu UndefinedObject }
- Bad: Celeste.messageTextView is of type { PluggableListView++ PluggableListMorph++ SimpleHierarchicalListMorph++ PluggableTextMorph++ PluggableTextView UndefinedObject }

- Bad: Celeste.subjectFilter is of type Top
- Bad: CelesteComposition.textEditor is of type Top
- Bad: CelesteComposition.celeste is of type Top
- Bad: CelesteComposition.messageText is of type Top
- Good: CelesteComposition.morphicWindow is of type { AlignmentMorphBob1 UndefinedObject SystemWindow }
- Good: CelesteComposition.mvcWindow is of type { StandardSystemView UndefinedObject }
- Good: CelesteComposition.attachmentSeparator is of type UndefinedObject
- Good: FancyCelesteComposition.theLinkToInclude is of type { String UndefinedObject }
- Bad: FancyCelesteComposition.to is of type Top
- Bad: FancyCelesteComposition.subject is of type Top
- Good: FancyCelesteComposition.textFields is of type { UndefinedObject Array }
- Good: IndexFile.msgDictionary is of type { PluggableDictionary UndefinedObject }
- Good: IndexFile.logfile is of type { UndefinedObject StandardFileStream }
- Good: IndexFile.timeSortedEntries is of type { UndefinedObject SortedCollection }
- Bad: IndexFileEntry.time is of type Top
- Bad: IndexFileEntry.msgID is of type Top
- Bad: IndexFileEntry.messageFile is of type Top
- Bad: IndexFileEntry.cc is of type Top
- Bad: IndexFileEntry.tocLineCache is of type Top
- Bad: IndexFileEntry.location is of type Top
- Bad: IndexFileEntry.to is of type Top
- Bad: IndexFileEntry.textLength is of type Top
- Bad: IndexFileEntry.subject is of type Top

- Bad: IndexFileEntry.from is of type Top
- Good: MIMEHeaderValue.mainValue is of type { UndefinedObject String Character }
- Good: MIMEHeaderValue.parameters is of type UndefinedObject
- Bad: MIMEPart.content is of type { FloatArray++ String++ LargePositiveInteger++ ByteArray++ OnceOnlyOrderedCollection UndefinedObject Interval SequenceableCollection IntegerArray DescType Bitmap SortedCollection WordArrayForSegment WeakArray ArrayedCollection SoundBuffer StandardSourceFileArray B3DIndexedTriangle Integer GraphicSymbol ShortPointArray ComponentInstance FlippyArray2 UrlArgumentList WordArray TranslatedMethod B3DPrimitiveVertexArray TextLineInterval PointArray DirectoryEntry ShortIntegerArray MacExternalData ShortRunArray Semaphore SmallInteger Array LinkedList Array2D RunArray MappedCollection SourceFileArray Pixmap Text AEDesc B3DPrimitiveRasterizerData B3DIndexedQuad OrderedCollection OSAID ApplescriptInstance Heap }
- Good: MIMEPart.parts is of type { Array UndefinedObject OrderedCollection }
- Bad: MIMEPart.separator is of type Top
- Bad: MIMEPart.text is of type Top
- Good: MIMEPart.fields is of type { UndefinedObject Dictionary }
- Bad: MailDB.rootFilename is of type Top
- Bad: MailDB.indexFile is of type Top
- Bad: MailDB.messageFile is of type Top
- Bad: MailDB.categoriesFile is of type Top
- Bad: MailDBFile.filename is of type Top
- Bad: MailMessage.time is of type Top
- Bad: MailMessage.separator is of type Top
- Bad: MailMessage.cc is of type Top
- Good: MailMessage.body is of type { UndefinedObject MIMEDocument }
- Bad: MailMessage.to is of type Top
- Bad: MailMessage.text is of type Top

- Good: MailMessage.subject is of type { String UndefinedObject }
- Good: MailMessage.fields is of type { UndefinedObject Dictionary }
- Bad: MailMessage.from is of type Top
- Good: MailMessage.parts is of type { Array UndefinedObject OrderedCollection }
- Bad: MailNotifier.lastConnectTime is of type Top
- Bad: MailNotifier.messageCount is of type Top
- Good: MailNotifier.password is of type UndefinedObject
- Good: MailNotifier.socket is of type { UndefinedObject POPSocket }
- Good: MessageFile.file is of type { CrLfFileStream UndefinedObject }
- Bad: ReadNewsInboxFile.currentNewsgroup is of type Top
- Good: ReadNewsInboxFile.msgBuffer is of type { UndefinedObject WriteStream }
- Bad: TextMessageLink.message is of type Top
- Bad: RBAssignmentNode.variable is of type Top
- Bad: RBAssignmentNode.assignment is of type Top
- Bad: RBAssignmentNode.value is of type Top
- Good: RBBlockNode.colons is of type { UndefinedObject OrderedCollection }
- Bad: RBBlockNode.bar is of type Top
- Bad: RBBlockNode.right is of type Top
- Bad: RBBlockNode.left is of type Top
- Bad: RBBlockNode.body is of type Top
- Bad: RBBlockNode.arguments is of type Top
- Bad: RBCascadeNode.messages is of type Top
- Good: RBCascadeNode.semicolons is of type { UndefinedObject OrderedCollection }
- Good: RBFormatter.codeStream is of type { UndefinedObject WriteStream }
- Bad: RBFormatter.lineStart is of type Top

- Bad: RBFormatter.firstLineLength is of type Top
- Good: RBFormatter.tabs is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: RBLiteralNode.token is of type Top
- Bad: RBMessageNode.arguments is of type Top
- Bad: RBMessageNode.receiver is of type Top
- Bad: RBMessageNode.selector is of type Top
- Bad: RBMessageNode.selectorParts is of type Top
- Bad: RBMethodNode.tags is of type Object++
- Bad: RBMethodNode.selector is of type Top
- Bad: RBMethodNode.selectorParts is of type Top
- Bad: RBMethodNode.body is of type Top
- Bad: RBMethodNode.source is of type Top
- Bad: RBMethodNode.arguments is of type Top
- Bad: RBOptimizedNode.body is of type Top
- Bad: RBOptimizedNode.right is of type Top
- Bad: RBOptimizedNode.left is of type Top
- Good: RBParser.scanner is of type { RBScanner UndefinedObject }
- Good: RBParser.tags is of type { UndefinedObject OrderedCollection }
- Bad: RBParser.source is of type Top
- Good: RBParser.emptyStatements is of type { True UndefinedObject False }
- Bad: RBParser.currentToken is of type Top
- Good: RBParser.negatedNumbers is of type { True UndefinedObject False }
- Good: RBParser.errorBlock is of type { UndefinedObject a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType }
- Bad: RBParser.nextToken is of type Top

- Good: RBPatternMessageNode.isCascadeList is of type { True UndefinedObject False }
- Good: RBPatternMessageNode.isList is of type { True UndefinedObject False }
- Good: RBPatternMethodNode.isList is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.recurseInto is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isLiteral is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isStatement is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isAnything is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isList is of type { True UndefinedObject False }
- Good: RBProgramNode.parent is of type { RBMessageNode++ RBBlockNode++ RBMethodNode++ RBSequenceNode ZipEncoderNode RBOptimizedNode RBAssignmentNode RBCascadeNode UndefinedObject RBArrayNode RBReturnNode }
- Bad: RBProgramNode.comments is of type Top
- Bad: RBReturnNode.return is of type Top
- Bad: RBReturnNode.value is of type Top
- Bad: RBSequenceNode.rightBar is of type Top
- Good: RBSequenceNode.periods is of type { UndefinedObject OrderedCollection }
- Bad: RBSequenceNode.temporaries is of type Top
- Bad: RBSequenceNode.statements is of type Top
- Bad: RBSequenceNode.leftBar is of type Top
- Good: RBValueNode.parentheses is of type { UndefinedObject OrderedCollection }
- Bad: RBVariableNode.token is of type Top
- Bad: ADPCMCodec.index is of type Top

- Good: ADPCMCodec.indexTable is of type { Array UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.deltaSignMask is of type Top
- Bad: ADPCMCodec.bitPosition is of type Top
- Bad: ADPCMCodec.encodedBytes is of type Top
- Good: ADPCMCodec.stepSizeTable is of type { Array UndefinedObject SoundBuffer }
- Good: ADPCMCodec.sampleIndex is of type { SmallInteger LargeNegativeInteger LargePositiveInteger UndefinedObject Array }
- Good: ADPCMCodec.rightSamples is of type { UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.byteIndex is of type Top
- Good: ADPCMCodec.frameSizeMask is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: ADPCMCodec.bitsPerSample is of type Top
- Bad: ADPCMCodec.predicted is of type Top
- Bad: ADPCMCodec.deltaValueHighBit is of type Top
- Bad: ADPCMCodec.deltaValueMask is of type Top
- Bad: ADPCMCodec.currentByte is of type Top
- Bad: ADPCMCodec.samples is of type Top
- Good: AIFFFileReader.channelData is of type { UndefinedObject Array }
- Good: AIFFFileReader.frameCount is of type { UndefinedObject SmallInteger }
- Bad: AIFFFileReader.isLooped is of type Top
- Bad: AIFFFileReader.gain is of type Top
- Bad: AIFFFileReader.in is of type { ReadStream++ RWBinaryOrTextStream++ FileStream++ UndefinedObject GZipSurrogateStream DummyStream }
- Bad: AIFFFileReader.fileType is of type Top
- Bad: AIFFFileReader.pitch is of type Top

- Good: AIFFFileReader.markers is of type { UndefinedObject Array }
- Bad: AIFFFileReader.channelCount is of type Top
- Bad: AIFFFileReader.bitsPerSample is of type Top
- Good: AIFFFileReader.mergeIfStereo is of type { True UndefinedObject False }
- Good: AIFFFileReader.skipDataChunk is of type { True UndefinedObject False }
- Bad: AIFFFileReader.samplingRate is of type Top
- Bad: AbstractSound.envelopes is of type Top
- Bad: AbstractSound.mSecsSinceStart is of type Top
- Bad: AbstractSound.scaledVolLimit is of type Top
- Bad: AbstractSound.scaledVol is of type Top
- Bad: AbstractSound.samplesUntilNextControl is of type Top
- Bad: AbstractSound.scaledVolIncr is of type Top
- Good: CompressedSoundData.perceivedPitch is of type { UndefinedObject Float }
- Good: CompressedSoundData.codecName is of type { UndefinedObject Symbol }
- Good: CompressedSoundData.channels is of type { UndefinedObject Array }
- Bad: CompressedSoundData.gain is of type Top
- Bad: CompressedSoundData.firstSample is of type Top
- Bad: CompressedSoundData.soundClassName is of type Top
- Bad: CompressedSoundData.cachedSound is of type { WaveletCodec MuLawCodec ADPCMCodec SoundCodec UndefinedObject LoopedSampledSound GSMCodec SampledSound }
- Bad: CompressedSoundData.loopLength is of type Top
- Good: CompressedSoundData.samplingRate is of type UndefinedObject
- Bad: CompressedSoundData.loopEnd is of type Top
- Bad: Envelope.target is of type Top
- Bad: Envelope.scale is of type Top

- Good: Envelope.updateSelector is of type { UndefinedObject #pitch: #modulation: #ratio: }
- Bad: Envelope.loopEndMSecs is of type { Magnitude++ UndefinedObject }
- Bad: Envelope.endMSecs is of type Top
- Bad: Envelope.currValue is of type Top
- Bad: Envelope.loopStartIndex is of type Top
- Bad: Envelope.valueIncr is of type Top
- Good: Envelope.noChangesDuringLoop is of type { True UndefinedObject False }
- Bad: Envelope.nextRecomputeTime is of type Top
- Bad: Envelope.loopEndIndex is of type Top
- Bad: Envelope.loopMSecs is of type Top
- Bad: Envelope.loopStartMSecs is of type Top
- Bad: Envelope.decayScale is of type Top
- Bad: Envelope.points is of type Top
- Bad: Envelope.lastValue is of type Top
- Bad: FFT.permTable is of type Top
- Bad: FFT.nu is of type Top
- Bad: FFT.n is of type Top
- Bad: FFT.sinTable is of type Top
- Bad: FFT.imagData is of type Top
- Good: FFT.window is of type { UndefinedObject FloatArray }
- Good: FFT.realData is of type { Array UndefinedObject FloatArray }
- Bad: FMSound.initialCount is of type Top
- Bad: FMSound.multiplier is of type Top
- Bad: FMSound.scaledOffsetIndex is of type Top
- Bad: FMSound.waveTable is of type Top
- Bad: FMSound.scaledWaveTableSize is of type Top

- Bad: FMSound.scaledIndex is of type Top
- Bad: FMSound.normalizedModulation is of type Top
- Bad: FMSound.scaledOffsetIndexIncr is of type Top
- Bad: FMSound.modulation is of type Top
- Bad: FMSound.scaledIndexIncr is of type Top
- Bad: FMSound.count is of type Top
- Good: FWT.transform is of type { UndefinedObject Array }
- Bad: FWT.beta is of type Top
- Good: FWT.gTilde is of type { UndefinedObject Array }
- Bad: FWT.coeffs is of type Top
- Good: FWT.g is of type { UndefinedObject Array }
- Bad: FWT.nSamples is of type Top
- Bad: FWT.nLevels is of type Top
- Bad: FWT.alpha is of type Top
- Good: FWT.h is of type { UndefinedObject Array }
- Good: FWT.samples is of type { UndefinedObject Array }
- Good: FWT.hTilde is of type { UndefinedObject Array }
- Bad: GSMCodec.encodeState is of type Top
- Bad: GSMCodec.decodeState is of type Top
- Bad: LoopedSampledSound.initialCount is of type Top
- Bad: LoopedSampledSound.perceivedPitch is of type Top
- Bad: LoopedSampledSound.scaledLoopLength is of type Top
- Bad: LoopedSampledSound.lastSample is of type Top
- Bad: LoopedSampledSound.gain is of type Top
- Bad: LoopedSampledSound.scaledIndexIncr is of type Top
- Bad: LoopedSampledSound.releaseCount is of type Top
- Bad: LoopedSampledSound.firstSample is of type Top
- Bad: LoopedSampledSound.sampleCountForRelease is of type Top

- Bad: LoopedSampledSound.rightSamples is of type Top
- Bad: LoopedSampledSound.leftSamples is of type Top
- Bad: LoopedSampledSound.scaledIndex is of type Top
- Bad: LoopedSampledSound.originalSamplingRate is of type Top
- Bad: LoopedSampledSound.count is of type Top
- Bad: LoopedSampledSound.loopEnd is of type Top
- Good: MixedSound.soundDone is of type { UndefinedObject Array }
- Good: MixedSound.sounds is of type { UndefinedObject Array }
- Good: MixedSound.leftVols is of type { UndefinedObject Array }
- Good: MixedSound.rightVols is of type { UndefinedObject Array }
- Bad: PitchEnvelope.centerPitch is of type Top
- Bad: PluckedSound.initialCount is of type Top
- Good: PluckedSound.ring is of type { UndefinedObject SoundBuffer }
- Bad: PluckedSound.scaledIndexLimit is of type Top
- Bad: PluckedSound.scaledIndex is of type Top
- Bad: PluckedSound.scaledIndexIncr is of type Top
- Bad: PluckedSound.count is of type Top
- Good: RandomEnvelope.rand is of type { Random UndefinedObject }
- Good: RandomEnvelope.highLimit is of type { UndefinedObject Float }
- Good: RandomEnvelope.lowLimit is of type { UndefinedObject Float }
- Good: RandomEnvelope.delta is of type { UndefinedObject Float }
- Bad: RepeatingSound.iteration is of type Top
- Bad: RepeatingSound.iterationCount is of type Top
- Bad: RepeatingSound.sound is of type Top
- Bad: RepeatingSound.samplesPerIteration is of type Top
- Bad: RestSound.initialCount is of type Top
- Bad: RestSound.count is of type Top
- Good: ReverbSound.tapGains is of type { UndefinedObject Bitmap }

- Good: ReverbSound.bufferSize is of type { Bitmap LargeNegativeInteger LargePositiveInteger UndefinedObject SmallInteger }
- Good: ReverbSound.rightBuffer is of type { UndefinedObject SoundBuffer }
- Good: ReverbSound.leftBuffer is of type { UndefinedObject SoundBuffer }
- Good: ReverbSound.tapCount is of type { UndefinedObject SmallInteger }
- Good: ReverbSound.tapDelays is of type { UndefinedObject Bitmap }
- Bad: ReverbSound.bufferIndex is of type Top
- Good: ReverbSound.sound is of type UndefinedObject
- Good: SampledInstrument.sustainedSoft is of type { UndefinedObject Array }
- Good: SampledInstrument.staccatoSoft is of type { UndefinedObject Array }
- Good: SampledInstrument.staccatoLoud is of type { UndefinedObject Array }
- Good: SampledInstrument.sustainedThreshold is of type { UndefinedObject Float }
- Bad: SampledInstrument.sustainedLoud is of type Top
- Good: SampledInstrument.loudThreshold is of type { UndefinedObject Float }
- Bad: SampledSound.initialCount is of type Top
- Bad: SampledSound.samples is of type Top
- Bad: SampledSound.scaledIncrement is of type Top
- Bad: SampledSound.scaledIndex is of type Top
- Bad: SampledSound.indexHighBits is of type Top
- Bad: SampledSound.samplesSize is of type Top
- Bad: SampledSound.originalSamplingRate is of type Top
- Bad: SampledSound.count is of type Top
- Good: SequentialSound.sounds is of type { UndefinedObject Array }

- Good: SequentialSound.currentIndex is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: Sonogram.lastX is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: Sonogram.pixValMap is of type { UndefinedObject Bitmap }
- Good: Sonogram.maxVal is of type { UndefinedObject Float }
- Good: Sonogram.minVal is of type { UndefinedObject Float }
- Good: Sonogram.scrollDelta is of type { UndefinedObject SmallInteger }
- Good: Sonogram.columnForm is of type { Form UndefinedObject }
- Bad: SoundInputStream.mutex is of type Top
- Bad: SoundInputStream.bufferSize is of type Top
- Good: SoundRecorder.currentBuffer is of type { UndefinedObject SoundBuffer }
- Bad: SoundRecorder.recordProcess is of type Top
- Good: SoundRecorder.codec is of type { GSMCodec UndefinedObject }
- Good: SoundRecorder.desiredSampleRate is of type { UndefinedObject Float }
- Bad: SoundRecorder.nextIndex is of type Top
- Good: SoundRecorder.meteringBuffer is of type { UndefinedObject SoundBuffer }
- Bad: SoundRecorder.meterLevel is of type Top
- Good: SoundRecorder.stereo is of type { False UndefinedObject }
- Good: SoundRecorder.recordLevel is of type { UndefinedObject Float }
- Good: SoundRecorder.soundPlaying is of type { SampledSound SequentialSound UndefinedObject ChatRecorder SoundInputStream SoundRecorder }
- Good: SoundRecorder.recordedBuffers is of type { Array UndefinedObject OrderedCollection }
- Good: SoundRecorder.paused is of type { True UndefinedObject False }
- Bad: SoundRecorder.samplingRate is of type Top

- Good: SoundRecorder.recordedSound is of type { SampledSound SequentialSound UndefinedObject ChatRecorder SoundInputStream SoundRecorder }
- Good: SoundRecorder.bufferAvailableSema is of type { Semaphore UndefinedObject }
- Bad: VolumeEnvelope.mSecsForChange is of type { Magnitude++ UndefinedObject }
- Bad: VolumeEnvelope.targetVol is of type Top
- Good: VolumeEnvelope.currentVol is of type UndefinedObject
- Bad: WaveletCodec.alpha is of type Top
- Bad: WaveletCodec.beta is of type Top
- Good: WaveletCodec.fwt is of type { FWT UndefinedObject }
- Bad: WaveletCodec.samplesPerFrame is of type Top
- Bad: WaveletCodec.nLevels is of type Top
- Bad: TestInterfaceBase.duration is of type Top
- Bad: TestInterfaceBase.classPattern is of type Top
- Bad: TestInterfaceBase.result is of type Top
- Bad: TestInterfaceBase.selectorPattern is of type Top
- Good: TestModel.failureList is of type { UndefinedObject OrderedCollection }
- Good: TestModel.patternHistory is of type { UndefinedObject OrderedCollection }
- Good: TestModel.errorList is of type { UndefinedObject OrderedCollection }
- Bad: TestModel.summaryText is of type { Boolean++ B3DPrimitiveRasterizerData B3DTexture2Array Integer PointArray ByteArray CompiledApplescript ArrayedCollection SoundBuffer ExternalAddress ShortIntegerArray KlattFrame B3DMaterialColor GraphicSymbol B3DVector3 FlippyArray2 WeakArray Pixmap WordArray B3DVector2Array B3DIndexedQuad B3DVector3Array DescType B3DPrimitiveVertexArray B3DRotation B3DIndexedTriangleArray WordArrayForSegment B3DIndexedQuadArray String B3DPrimitiveLight LargePositiveInteger ComponentInstance StandardSourceFileArray B3DIndexedTriangle FloatArray B3DColor4 OnceOnlyOrderedCollection TranslatedMethod

DirectoryEntry Array2D B3DFloatArray AEDesc Symbol RunArray B3DInplaceArray Text Array B3DMaterial B3DRotationArray ApplescriptInstance MappedCollection B3DColor4Array Interval Heap UrlArgumentList SourceFileArray B3DLightAttenuation ShortPointArray B3DVector4 B3DVector2 SequenceableCollection MacExternalData OrderedCollection B3DExponentTable B3DViewingFrustum IntegerArray ShortRunArray SortedCollection Bitmap LinkedList B3DMatrix4x4 Semaphore TextLineInterval LargeNegativeInteger CompiledMethod OSAID UndefinedObject SmallInteger }

- Bad: TestModel.summaryTextM is of type { PluggableTextMorph++ PluggableTextView UndefinedObject }
- Good: TestModel.summaryTextV is of type { PluggableTextView UndefinedObject }
- Good: TestModel.updateColorSelector is of type { UndefinedObject #updateColorM #updateColorV }
- Good: TestModel.patternTextV is of type { PluggableTextView UndefinedObject }
- Bad: TestModel.patternTextM is of type { PluggableTextMorph++ PluggableTextView UndefinedObject }
- Bad: TestModel.detailsText is of type Top
- Bad: BitBltSimulation.sy is of type Top
- Bad: BitBltSimulation.halftoneBase is of type Top
- Good: BitBltSimulation.cmBlueShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: BitBltSimulation.destWidth is of type Top
- Bad: BitBltSimulation.destX is of type Top
- Bad: BitBltSimulation.width is of type Top
- Bad: BitBltSimulation.scanString is of type Top
- Bad: BitBltSimulation.sourceBits is of type Top
- Bad: BitBltSimulation.scanStop is of type Top
- Bad: BitBltSimulation.dy is of type Top
- Good: BitBltSimulation.warpBitShiftTable is of type { CArrayAccessor UndefinedObject }

- Bad: BitBltSimulation.destPixSize is of type Top
- Bad: BitBltSimulation.pixPerWord is of type Top
- Good: BitBltSimulation.ditherValues16 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.cmRedMask is of type Top
- Bad: BitBltSimulation.warpSrcMask is of type Top
- Bad: BitBltSimulation.dstBitShift is of type Top
- Bad: BitBltSimulation.destIndex is of type Top
- Bad: BitBltSimulation.sourceIndex is of type Top
- Bad: BitBltSimulation.clipX is of type Top
- Good: BitBltSimulation.hDir is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.nWords is of type Top
- Bad: BitBltSimulation.clipHeight is of type Top
- Bad: BitBltSimulation.bitBltOop is of type Top
- Bad: BitBltSimulation.preload is of type Top
- Bad: BitBltSimulation.opTable is of type Top
- Bad: BitBltSimulation.sourceForm is of type Top
- Bad: BitBltSimulation.warpAlignMask is of type Top
- Bad: BitBltSimulation.skew is of type Top
- Good: BitBltSimulation.cmDeltaBits is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: BitBltSimulation.ditherMatrix4x4 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.sourceY is of type Top
- Bad: BitBltSimulation.scanStart is of type Top
- Good: BitBltSimulation.cmGreenShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: BitBltSimulation.destBits is of type Top
- Bad: BitBltSimulation.destPitch is of type Top

- Bad: BitBltSimulation.height is of type Top
- Bad: BitBltSimulation.sourcePitch is of type Top
- Bad: BitBltSimulation.destY is of type Top
- Bad: BitBltSimulation.affectedL is of type Top
- Good: BitBltSimulation.maskTable is of type { UndefinedObject Array }
- Good: BitBltSimulation.scanDisplayFlag is of type { True UndefinedObject False }
- Bad: BitBltSimulation.mask1 is of type Top
- Bad: BitBltSimulation.destDelta is of type Top
- Good: BitBltSimulation.noHalftone is of type { True UndefinedObject False }
- Bad: BitBltSimulation.clipWidth is of type Top
- Bad: BitBltSimulation.destForm is of type Top
- Bad: BitBltSimulation.sx is of type Top
- Bad: BitBltSimulation.clipY is of type Top
- Bad: BitBltSimulation.scanRightX is of type Top
- Bad: BitBltSimulation.cmBlueMask is of type Top
- Bad: BitBltSimulation.halftoneHeight is of type Top
- Bad: BitBltSimulation.affectedT is of type Top
- Bad: BitBltSimulation.sourcePixSize is of type Top
- Good: BitBltSimulation.cmRedShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: BitBltSimulation.noSource is of type { True UndefinedObject False }
- Bad: BitBltSimulation.dx is of type Top
- Bad: BitBltSimulation.destMask is of type Top
- Bad: BitBltSimulation.affectedB is of type Top
- Bad: BitBltSimulation.cmGreenMask is of type Top
- Good: BitBltSimulation.hasSurfaceLock is of type { True UndefinedObject False }

- Bad: BitBltSimulation.stopCode is of type Top
- Bad: BitBltSimulation.combinationRule is of type Top
- Bad: BitBltSimulation.bitCount is of type Top
- Good: BitBltSimulation.vDir is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.destHeight is of type Top
- Good: BitBltSimulation.cmBitsPerColor is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.bbH is of type Top
- Bad: BitBltSimulation.bbW is of type Top
- Bad: BitBltSimulation.srcWidth is of type Top
- Bad: BitBltSimulation.affectedR is of type Top
- Good: BitBltSimulation.ditherThresholds16 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.sourceDelta is of type Top
- Good: BitBltSimulation.warpSrcShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: BitBltSimulation.halftoneForm is of type Top
- Bad: BitBltSimulation.mask2 is of type Top
- Bad: BitBltSimulation.scanXTable is of type Top
- Bad: BitBltSimulation.scanStopArray is of type Top
- Bad: BitBltSimulation.sourceAlpha is of type Top
- Bad: BitBltSimulation.colorMap is of type Top
- Good: BitBltSimulation.warpAlignShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: BitBltSimulation.sourceX is of type Top
- Bad: BitBltSimulation.srcBitShift is of type Top
- Bad: BitBltSimulation.srcHeight is of type Top
- Bad: Interpreter.activeContext is of type Top
- Bad: Interpreter.nextWakeupTick is of type Top

- Bad: Interpreter.localIP is of type Top
- Bad: Interpreter.localHomeContext is of type Top
- Good: Interpreter.methodCache is of type { UndefinedObject Array }
- Bad: Interpreter.interruptKeycode is of type Top
- Good: Interpreter.semaphoresToSignalCountA is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: Interpreter.interruptCheckCounterFeedBackReset is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: Interpreter.interpreterVersion is of type UndefinedObject
- Good: Interpreter.obsoleteNamedPrimitiveTable is of type { CArrayAccessor UndefinedObject }
- Good: Interpreter.interpreterProxy is of type { UndefinedObject InterpreterSimulator InterpreterSimulatorMSB InterpreterSimulatorLSB }
- Bad: Interpreter.receiver is of type Top
- Bad: Interpreter.stackPointer is of type Top
- Bad: Interpreter.receiverClass is of type Top
- Good: Interpreter.obsoleteIndexedPrimitiveTable is of type { CArrayAccessor UndefinedObject }
- Bad: Interpreter.successFlag is of type Top
- Good: Interpreter.compilerHooks is of type UndefinedObject
- Bad: Interpreter.fullScreenFlag is of type { Interpreter InterpreterSimulator InterpreterSimulatorLSB UndefinedObject InterpreterSimulatorMSB }
- Bad: Interpreter.primitiveIndex is of type Top
- Good: Interpreter.semaphoresToSignalB is of type { UndefinedObject Array }
- Bad: Interpreter.compilerInitialized is of type Top
- Bad: Interpreter.localSP is of type Top
- Bad: Interpreter.instructionPointer is of type Top

- Good: Interpreter.semaphoresUseBufferA is of type { True UndefinedObject False }
- Good: Interpreter.deferDisplayUpdates is of type { True UndefinedObject False }
- Bad: Interpreter.theHomeContext is of type Top
- Bad: Interpreter.extraVMMemory is of type Top
- Bad: Interpreter.method is of type Top
- Good: Interpreter.pendingFinalizationSignals is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: Interpreter.newMethod is of type Top
- Good: Interpreter.semaphoresToSignalA is of type { UndefinedObject Array }
- Bad: Interpreter.methodClass is of type Top
- Bad: Interpreter.newNativeMethod is of type Top
- Good: Interpreter.atCache is of type { UndefinedObject Array }
- Bad: Interpreter.argumentCount is of type Top
- Bad: Interpreter.currentBytecode is of type Top
- Good: Interpreter.interruptPending is of type { False UndefinedObject }
- Good: Interpreter.interruptChecksEveryNms is of type { UndefinedObject SmallInteger }
- Bad: Interpreter.nextPollTick is of type Top
- Bad: Interpreter.lkupClass is of type Top
- Good: Interpreter.reclaimableContextCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: Interpreter.savedWindowSize is of type Top
- Bad: Interpreter.lastTick is of type Top
- Good: Interpreter.semaphoresToSignalCountB is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: Interpreter.messageSelector is of type Top

- Bad: Interpreter.showSurfaceFn is of type Top
- Good: InterpreterSimulator.myBitBlt is of type { False UndefinedObject BitBltSimulator }
- Good: InterpreterSimulator.traceOn is of type { UndefinedObject True }
- Bad: InterpreterSimulator.imageName is of type Top
- Good: InterpreterSimulator.pluginList is of type { UndefinedObject Array }
- Good: InterpreterSimulator.sendCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: InterpreterSimulator.displayForm is of type { Form UndefinedObject }
- Good: InterpreterSimulator.mappedPluginEntries is of type { UndefinedObject Array }
- Good: InterpreterSimulator.filesOpen is of type { UndefinedObject OrderedCollection }
- Good: InterpreterSimulator.byteCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.signalLowSpace is of type { True UndefinedObject False }
- Bad: ObjectMemory.tenuringThreshold is of type Top
- Bad: ObjectMemory.lastHash is of type Top
- Bad: ObjectMemory.statIncrGCMSecs is of type Top
- Good: ObjectMemory.remapBuffer is of type { UndefinedObject Array }
- Bad: ObjectMemory.trueObj is of type Top
- Bad: ObjectMemory.statFullGCMSecs is of type Top
- Bad: ObjectMemory.freeLargeContexts is of type Top
- Bad: ObjectMemory.lowSpaceThreshold is of type Top
- Bad: ObjectMemory.allocationsBetweenGCs is of type Top
- Good: ObjectMemory.interruptCheckCounter is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: ObjectMemory.freeContexts is of type Top

- Bad: ObjectMemory.compStart is of type Top
- Bad: ObjectMemory.youngStart is of type Top
- Bad: ObjectMemory.compEnd is of type Top
- Bad: ObjectMemory.totalObjectFoundAtStartup is of type Top
- Bad: ObjectMemory.memoryLimit is of type Top
- Bad: ObjectMemory.endOfMemory is of type Top
- Bad: ObjectMemory.specialObjectsOop is of type Top
- Good: ObjectMemory.statFullGCs is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.statTenures is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: ObjectMemory.nilObj is of type Top
- Bad: ObjectMemory.child is of type Top
- Bad: ObjectMemory.fwdTableLast is of type Top
- Bad: ObjectMemory.fwdTableNext is of type Top
- Good: ObjectMemory.rootTableCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.allocationCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: ObjectMemory.falseObj is of type Top
- Good: ObjectMemory.remapBufferCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: ObjectMemory.parentField is of type Top
- Bad: ObjectMemory.field is of type Top
- Good: ObjectMemory.memory is of type { Interpreter UndefinedObject InterpreterSimulatorMSB InterpreterSimulatorLSB Bitmap InterpreterSimulator }
- Bad: ObjectMemory.freeBlock is of type Top
- Good: ObjectMemory.statRootTableOverflows is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }

- Good: ObjectMemory.rootTable is of type { UndefinedObject Array }
- Good: ObjectMemory.statIncrGCs is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.displayBits is of type { UndefinedObject SmallInteger }
- Bad: SystemMonitor.vmParameters is of type Top
- Bad: SystemMonitor.gcHighWaterMark is of type Top
- Bad: SystemMonitor.baselineSkip is of type Top
- Bad: SystemMonitor.prevAllocCount is of type Top
- Bad: SystemMonitor.prevDeltaIncrGC is of type Top
- Bad: SystemMonitor.prevMcMiss is of type Top
- Good: SystemMonitor.window is of type { UndefinedObject Rectangle }
- Bad: SystemMonitor.prevDeltaFullGC is of type Top
- Bad: SystemMonitor.prevFullGC is of type Top
- Good: SystemMonitor.valSelectors is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevIncrGC is of type Top
- Bad: SystemMonitor.prevMsClock is of type Top
- Good: SystemMonitor.maxValues is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevAllocRate is of type Top
- Bad: SystemMonitor.gcLowWaterMark is of type Top
- Good: SystemMonitor.labels is of type { UndefinedObject Array }
- Good: SystemMonitor.minValues is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevIcHit is of type Top
- Bad: SystemMonitor.prevMcHit is of type Top
- Good: SystemTracer.hashGenerator is of type { Random UndefinedObject }
- Bad: SystemTracer.maxOop is of type Top
- Good: SystemTracer.map is of type UndefinedObject
- Good: SystemTracer.initialProcess is of type UndefinedObject

- Good: SystemTracer.oopMap is of type { UndefinedObject Array }
- Bad: SystemTracer.specialObjects is of type Top
- Good: SystemTracer.file is of type { CrLfFileStream UndefinedObject }
- Good: SystemTracer.cleaningUp is of type { False UndefinedObject }
- Good: SystemTracer.writeDict is of type { UndefinedObject Dictionary }
- Good: SystemTracer.imageHeaderSize is of type { UndefinedObject SmallInteger }
- Good: SystemTracer.compactClasses is of type { UndefinedObject Array }
- Good: SystemTracer.replacementClasses is of type { UndefinedObject Dictionary }
- Good: ChineseCheckerPiece.myBoard is of type { ChineseCheckers UndefinedObject }
- Bad: ChineseCheckerPiece.boardLoc is of type Top
- Good: ChineseCheckers.movePhase is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ChineseCheckers.board is of type { UndefinedObject Array }
- Good: ChineseCheckers.plannedMovePhase is of type UndefinedObject
- Good: ChineseCheckers.sixDeltas is of type { UndefinedObject Array }
- Bad: ChineseCheckers.plannedMove is of type Top
- Bad: ChineseCheckers.whoseMove is of type Top
- Good: ChineseCheckers.teams is of type { UndefinedObject Array }
- Good: ChineseCheckers.colors is of type { UndefinedObject Array }
- Good: ChineseCheckers.homes is of type { UndefinedObject Array }
- Good: ChineseCheckers.animateMoves is of type { True UndefinedObject False }
- Good: ChineseCheckers.pathMorphs is of type { UndefinedObject OrderedCollection }
- Good: ChineseCheckers.autoPlay is of type { UndefinedObject Array }
- Good: CipherPanel.originalMorphs is of type { UndefinedObject Array }

- Good: CipherPanel.decodingMorphs is of type { UndefinedObject Array }
- Good: CipherPanel.quote is of type { UndefinedObject String Character }
- Good: CipherPanel.originalText is of type UndefinedObject
- Good: CrosticPanel.crosticPanel is of type UndefinedObject
- Good: CrosticPanel.cluesCol2 is of type { AlignmentMorph UndefinedObject }
- Bad: CrosticPanel.quote is of type Top
- Good: CrosticPanel.answers is of type { UndefinedObject OrderedCollection }
- Good: CrosticPanel.clues is of type { UndefinedObject OrderedCollection }
- Good: CrosticPanel.cluesPanel is of type { AlignmentMorph UndefinedObject }
- Good: CrosticPanel.quotePanel is of type { CrosticQuotePanel UndefinedObject }
- Good: CrosticQuotePanel.cluesPanel is of type { CrosticPanel UndefinedObject }
- Good: FreeCell.lastGameLost is of type UndefinedObject
- Good: FreeCell.cardsRemainingDisplay is of type { LedMorph UndefinedObject }
- Good: FreeCell.gameNumberDisplay is of type { LedMorph UndefinedObject }
- Good: FreeCell.state is of type { UndefinedObject #sameGame #pickGame #won #newGame #lost }
- Good: FreeCell.myFillStyle is of type { UndefinedObject GradientFillStyle }
- Good: FreeCell.elapsedTimeDisplay is of type { UndefinedObject LedTimerMorph }
- Good: FreeCell.board is of type { FreeCellBoard UndefinedObject }
- Good: FreeCell.autoMoveRecursionCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }

- Bad: FreeCellBoard.target is of type Top
- Bad: FreeCellBoard.actionSelector is of type Top
- Good: FreeCellBoard.stacks is of type { UndefinedObject Array }
- Good: FreeCellBoard.freeCells is of type { UndefinedObject Array }
- Good: FreeCellBoard.homeCells is of type { UndefinedObject Array }
- Good: FreeCellBoard.cardDeck is of type { PlayingCardDeck UndefinedObject }
- Good: FreeCellBoard.lastCardDeck is of type UndefinedObject
- Good: FreeCellStatistics.streakLosses is of type { UndefinedObject LargeNegativeInteger SmallInteger LargePositiveInteger }
- Bad: FreeCellStatistics.lastGameWon is of type Top
- Bad: FreeCellStatistics.lastGameLost is of type Top
- Good: FreeCellStatistics.currentCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.currentType is of type { UndefinedObject #wins #losses }
- Good: FreeCellStatistics.statsMorph is of type { TextMorph UndefinedObject }
- Good: FreeCellStatistics.window is of type UndefinedObject
- Good: FreeCellStatistics.sessionLosses is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.lossesWithReplay is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.sessionWins is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.totalWins is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.streakWins is of type { UndefinedObject LargeNegativeInteger SmallInteger LargePositiveInteger }
- Good: FreeCellStatistics.totalLosses is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.winsWithReplay is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }

- Bad: LedDigitMorph.digit is of type Top
- Good: LedDigitMorph.highlighted is of type { True UndefinedObject False }
- Good: LedMorph.digits is of type { UndefinedObject SmallInteger }
- Bad: LedMorph.flash is of type Top
- Good: LedMorph.flashing is of type { True UndefinedObject False }
- Bad: LedMorph.value is of type Top
- Good: LedTimerMorph.counting is of type { True UndefinedObject False }
- Bad: LedTimerMorph.startSeconds is of type Top
- Good: PlayingCard.cardNo is of type { UndefinedObject LargeNegativeInteger SmallInteger LargePositiveInteger }
- Bad: PlayingCard.suitNo is of type Top
- Good: PlayingCard.suit is of type UndefinedObject
- Good: PlayingCard.cardForm is of type { Form UndefinedObject }
- Bad: PlayingCardDeck.target is of type Top
- Bad: PlayingCardDeck.seed is of type Top
- Good: PlayingCardDeck.acceptCardSelector is of type { PlayingCardDeck UndefinedObject #acceptCard:onStack: #acceptSingleCard:on: }
- Good: PlayingCardDeck.cardDraggedSelector is of type { PlayingCardDeck UndefinedObject #dragCard:fromHome: #dragCard:fromStack: }
- Good: PlayingCardDeck.stackingOrder is of type { UndefinedObject #descending #ascending }
- Good: PlayingCardDeck.cardDroppedSelector is of type { PlayingCardDeck UndefinedObject #cardMoved #cardMovedHome }
- Good: PlayingCardDeck.cardDoubleClickSelector is of type { PlayingCardDeck UndefinedObject #doubleClickInStack:OnCard: }
- Good: PlayingCardDeck.stackingPolicy is of type { UndefinedObject #stagger #single #altStraight #straight }
- Good: PlayingCardDeck.emptyDropPolicy is of type { UndefinedObject #inOrder #any }

- Good: PlayingCardDeck.layout is of type { UndefinedObject #stagger #pile #grid }
- Good: PlayingCardMorph.suitNumber is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: PlayingCardMorph.cardNumber is of type { UndefinedObject LargeNegativeInteger SmallInteger LargePositiveInteger }
- Good: SameGame.scoreDisplay is of type { LedMorph UndefinedObject }
- Good: SameGame.board is of type { UndefinedObject SameGameBoard }
- Good: SameGame.selectionDisplay is of type { LedMorph UndefinedObject }
- Bad: SameGame.helpText is of type { PluggableTextMorph++ StringHolderView++ UndefinedObject }
- Good: SameGameBoard.palette is of type { UndefinedObject OrderedCollection }
- Bad: SameGameBoard.target is of type Top
- Bad: SameGameBoard.columns is of type Top
- Bad: SameGameBoard.actionSelector is of type Top
- Good: SameGameBoard.selectionColor is of type UndefinedObject
- Good: SameGameBoard.flash is of type { True UndefinedObject False }
- Good: SameGameBoard.arguments is of type { UndefinedObject Array }
- Bad: SameGameBoard.rows is of type Top
- Bad: SameGameBoard.protoTile is of type Top
- Bad: SameGameBoard.flashColor is of type Top
- Good: SameGameBoard.selection is of type UndefinedObject
- Bad: SameGameTile.oldSwitchState is of type Top
- Bad: SameGameTile.switchState is of type Top
- Good: SameGameTile.disabled is of type { True UndefinedObject False }
- Good: Tetris.scoreDisplay is of type { LedMorph UndefinedObject }
- Good: Tetris.board is of type { UndefinedObject TetrisBoard }

- Bad: TetrisBlock.shapeInfo is of type Top
- Good: TetrisBlock.board is of type { UndefinedObject TetrisBoard }
- Bad: TetrisBlock.angle is of type Top
- Bad: TetrisBlock.baseCellNumber is of type Top
- Good: TetrisBoard.game is of type { UndefinedObject Tetris }
- Good: TetrisBoard.gameOver is of type { True UndefinedObject False }
- Bad: TetrisBoard.score is of type Top
- Good: TetrisBoard.paused is of type { True UndefinedObject False }
- Good: TetrisBoard.delay is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: TetrisBoard.currentBlock is of type { TetrisBlock UndefinedObject }
- Good: WordGameLetterMorph.predecessor is of type { WordGameLetterMorph UndefinedObject }
- Good: WordGameLetterMorph.lineMorph is of type { UndefinedObject PolygonMorph }
- Good: WordGameLetterMorph.style is of type { UndefinedObject #underlined #boxed #plain }
- Good: WordGameLetterMorph.letterMorph is of type { StringMorph UndefinedObject }
- Bad: WordGameLetterMorph.letter is of type Top
- Good: WordGameLetterMorph.originalLetter is of type UndefinedObject
- Good: WordGameLetterMorph.successor is of type { WordGameLetterMorph UndefinedObject }
- Bad: WordGameLetterMorph.indexInQuote is of type Top
- Good: WordGameLetterMorph.linkedLetters is of type UndefinedObject
- Good: WordGamePanelMorph.letterMorphs is of type { Array UndefinedObject OrderedCollection }
- Good: WordGamePanelMorph.haveTypedHere is of type { True UndefinedObject False }
- Bad: Browser.classOrganizer is of type Top

- Bad: Browser.systemOrganizer is of type Top
- Bad: Browser.messageListIndex is of type Top
- Bad: Browser.messageCategoryListIndex is of type Top
- Bad: Browser.editSelection is of type Top
- Bad: Browser.metaClassOrganizer is of type Top
- Bad: Browser.systemCategoryListIndex is of type Top
- Bad: Browser.metaClassIndicated is of type Top
- Bad: Browser.classListIndex is of type Top
- Bad: ChangedMessageSet.changeSet is of type Top
- Bad: HierarchyBrowser.centralClass is of type Top
- Bad: HierarchyBrowser.classList is of type Top
- Bad: MessageSet.messageList is of type Top
- Bad: MessageSet.autoSelectString is of type Top
- Bad: PackageBrowser.package is of type Top
- Bad: PackageBrowser.packageListIndex is of type Top
- Good: PackageBrowser.packageList is of type UndefinedObject
- Good: ProtocolBrowser.selectedClass is of type UndefinedObject
- Bad: ProtocolBrowser.selectedSelector is of type Top
- Bad: SelectorBrowser.classListIndex is of type Top
- Bad: SelectorBrowser.classList is of type Top
- Bad: SelectorBrowser.selectorIndex is of type Top
- Bad: SelectorBrowser.selectorList is of type Top

4.7 Threshold of 2500

- Bad: PDA.recurringEvents is of type Top
- Good: PDA.peopleList is of type { ArrayedCollection++ UndefinedObject }
- Bad: PDA.date is of type Top
- Good: PDA.dateButtonPressed is of type UndefinedObject

- Bad: PDA.allEvents is of type Top
- Bad: PDA.category is of type Top
- Bad: PDA.currentItem is of type Top
- Good: PDA.scheduleList is of type { ArrayedCollection++ UndefinedObject }
- Good: PDA.categoryListIndex is of type UndefinedObject
- Bad: PDA.allPeople is of type Top
- Bad: PDA.scheduleListIndex is of type Top
- Bad: PDA.allToDoItems is of type Top
- Bad: PDA.allNotes is of type Top
- Bad: PDA.notesListIndex is of type Top
- Good: PDA.currentItemSelection is of type UndefinedObject
- Good: PDA.categoryList is of type UndefinedObject
- Good: PDA.toDoList is of type { ArrayedCollection++ UndefinedObject }
- Bad: PDA.toDoListIndex is of type Top
- Bad: PDA.peopleListIndex is of type Top
- Good: PDA.notesList is of type { CompiledMethod WordArrayForSegment KlattFrame OSAID FloatArray PointArray B3DRotationArray ComponentInstance TranslatedMethod Array2D ShortRunArray ShortPointArray ShortIntegerArray B3DVector2 B3DMatrix4x4 Pixmap Array B3DViewingFrustum ExternalAddress B3DIndexedTriangleArray WeakArray B3DInplaceArray B3DVector3 B3DColor4 B3DPrimitiveLight RunArray Symbol MacExternalData FlippyArray2 CompiledApplescript ByteArray AEDesc UndefinedObject IntegerArray B3DTexture2Array B3DRotation SoundBuffer String B3DFloatArray B3DColor4Array Text B3DMaterialColor ApplescriptInstance WordArray DescType B3DPrimitiveVertexArray B3DExponentTable B3DLightAttenuation B3DVector2Array ArrayedCollection B3DVector3Array DirectoryEntry B3DMaterial B3DIndexedQuadArray Bitmap B3DVector4 }
- Good: PDA.currentItemText is of type UndefinedObject
- Bad: PDA.userCategories is of type Top

- Good: PDA.viewDescriptionOnly is of type { True UndefinedObject False }
- Bad: PDAChoiceMorph.backgroundColor is of type Top
- Bad: PDAClockMorph.backgroundColor is of type Top
- Bad: PDAEvent.time is of type Top
- Bad: PDAEvent.date is of type Top
- Bad: PDAEvent.duration is of type Top
- Good: PDAEvent.alarm is of type UndefinedObject
- Bad: PDAPerson.name is of type Top
- Good: PDAPerson.address is of type UndefinedObject
- Good: PDAPerson.phone is of type { String UndefinedObject }
- Good: PDAPerson.email is of type { String UndefinedObject }
- Bad: PDARecord.description is of type Top
- Bad: PDARecord.key is of type Top
- Good: PDARecord.otherFields is of type { UndefinedObject Dictionary }
- Good: PDARecurringEvent.recurrence is of type { UndefinedObject #nthWeekdayOfMonthEachYear #dayOfMonth #dayOfWeek #dateOfYear }
- Bad: PDARecurringEvent.firstDate is of type Top
- Bad: PDARecurringEvent.lastDate is of type Top
- Good: PDAToDoItem.deadline is of type UndefinedObject
- Bad: PDAToDoItem.result is of type Top
- Bad: PDAToDoItem.dayDone is of type Top
- Bad: PDAToDoItem.dayPosted is of type Top
- Bad: PDAToDoItem.priority is of type Top
- Bad: IRCChannelInfo.name is of type Top
- Bad: IRCChannelInfo.topic is of type Top
- Good: IRCChannelInfo.subscribers is of type { IdentitySet UndefinedObject }
- Good: IRCChannelInfo.members is of type { Set UndefinedObject }

- Good: IRCChannelInfo.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCChannelListBrowser.channelIndex is of type Top
- Bad: IRCChannelListBrowser.channelList is of type Top
- Good: IRCChannelListBrowser.sortCriterion is of type { UndefinedObject #name }
- Good: IRCChannelListBrowser.connection is of type { IRCConnection UndefinedObject }
- Good: IRCChannelObserver.chatText is of type { Text UndefinedObject }
- Good: IRCChannelObserver.channelName is of type UndefinedObject
- Bad: IRCChannelObserver.channel is of type Top
- Good: IRCChannelObserver.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCChannelSummary.name is of type Top
- Bad: IRCChannelSummary.topic is of type Top
- Bad: IRCChannelSummary.numUsers is of type Top
- Good: IRCChannelUsersBrowser.channel is of type { UndefinedObject IRCChannelInfo }
- Good: IRCChannelUsersBrowser.userList is of type { UndefinedObject Array }
- Bad: IRCChannelUsersBrowser.userIndex is of type Top
- Good: IRCConnection.directMessageSubscribers is of type { IdentitySet UndefinedObject }
- Good: IRCConnection.channelListBeingBuilt is of type { UndefinedObject OrderedCollection }
- Good: IRCConnection.protocolMessagesToSend is of type { UndefinedObject OrderedCollection }
- Bad: IRCConnection.sendBuffer is of type Top
- Bad: IRCConnection.server is of type Top
- Good: IRCConnection.motdBeingBuilt is of type { UndefinedObject WriteStream }

- Good: IRCConnection.protocolMessageSubscribers is of type { IdentitySet UndefinedObject }
- Bad: IRCConnection.motd is of type Top
- Bad: IRCConnection.port is of type Top
- Good: IRCConnection.recieveBuffer is of type { String UndefinedObject }
- Good: IRCConnection.socket is of type { Socket UndefinedObject }
- Bad: IRCConnection.userName is of type Top
- Bad: IRCConnection.nick is of type Top
- Good: IRCConnection.channelList is of type { UndefinedObject Array }
- Good: IRCConnection.subscribedChannels is of type { UndefinedObject Dictionary }
- Bad: IRCConnection.fullName is of type Top
- Good: IRCConnection.messagesProcessed is of type { UndefinedObject SmallInteger }
- Good: IRCConnection.consoleText is of type { Text UndefinedObject }
- Good: IRCDirectMessagesObserver.chatText is of type { Text UndefinedObject }
- Bad: IRCDirectMessagesObserver.talkingTo is of type Top
- Good: IRCDirectMessagesObserver.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCMessage.text is of type Top
- Bad: IRCMessage.sender is of type { B3DTexture2Array B3DPrimitiveRasterizerData Integer PointArray CompiledApplescript ByteArray ArrayedCollection SoundBuffer ExternalAddress ShortIntegerArray KlattFrame B3DMaterialColor GraphicSymbol B3DVector3 FlippyArray2 WeakArray Pixmap WordArray B3DVector2Array B3DIndexedQuad B3DVector3Array DescType B3DPrimitiveVertexArray B3DRotation B3DIndexedTriangleArray WordArrayForSegment B3DIndexedQuadArray String B3DPrimitiveLight LargePositiveInteger ComponentInstance StandardSourceFileArray B3DIndexedTriangle FloatArray B3DColor4 OnceOnlyOrderedCollection TranslatedMethod DirectoryEntry Array2D B3DFloatArray AEDesc Symbol RunArray B3DInplaceArray Text Array B3DMaterial B3DRotationArray ApplescriptInstance MappedCollection

B3DColor4Array Interval Heap UrlArgumentList SourceFileArray B3DLightAttenuation ShortPointArray B3DVector4 B3DVector2 SequenceableCollection MacExternalData OrderedCollection B3DExponentTable B3DViewingFrustum IntegerArray ShortRunArray SortedCollection Bitmap LinkedList B3DMatrix4x4 Semaphore TextLineInterval LargeNegativeInteger CompiledMethod OSAID UndefinedObject SmallInteger }

- Bad: IRCMessage.recipient is of type Top
- Good: IRCMessagePattern.sender is of type UndefinedObject
- Good: IRCMessagePattern.recipient is of type UndefinedObject
- Good: IRCMessageSet.messages is of type UndefinedObject
- Bad: IRCMorph.userName is of type Top
- Bad: IRCMorph.nick is of type Top
- Bad: IRCMorph.server is of type Top
- Good: IRCMorph.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCMorph.fullName is of type Top
- Good: IRCMorph.messageCollections is of type UndefinedObject
- Bad: IRCMorph.consoleText is of type Top
- Bad: IRCMorph.port is of type Top
- Bad: IRCProtocolMessage.arguments is of type Top
- Good: IRCProtocolMessage.command is of type { UndefinedObject String Character }
- Bad: IRCProtocolMessage.prefix is of type Top
- Good: IRCRecipientFilter.recipient is of type UndefinedObject
- Good: CategoriesFile.categories is of type { UndefinedObject Dictionary }
- Bad: Celeste.currentMessages is of type Top
- Good: Celeste.customFilterBlock is of type { UndefinedObject Compiler }
- Bad: Celeste.status is of type Top
- Bad: Celeste.userPassword is of type Top

- Bad: Celeste.currentMsgID is of type Top
- Bad: Celeste.mailDB is of type Top
- Bad: Celeste.currentCategory is of type Top
- Bad: Celeste.lastCategory is of type Top
- Good: Celeste.lastCategoryList is of type UndefinedObject
- Good: Celeste.dateFilter is of type UndefinedObject
- Good: Celeste.currentTOC is of type { Array UndefinedObject OrderedCollection }
- Bad: Celeste.fromFilter is of type Top
- Good: Celeste.formatMessages is of type UndefinedObject
- Good: Celeste.lastCategoryMenu is of type UndefinedObject
- Bad: Celeste.messageTextView is of type { PluggableTextMorph++ PluggableListMorph++ PluggableListView++ SimpleHierarchicalListMorph++ PluggableTextView UndefinedObject }
- Bad: Celeste.subjectFilter is of type Top
- Bad: CelesteComposition.textEditor is of type { PluggableTextMorph++ FormMenuController PluggableButtonController Controller ProjectController UndefinedObject FormEditor PluggableListControllerOfMany PluggableTextView PluggableListController FillInTheBlankController StandardSystemController ListController MorphWorldController NoController BitEditor ParagraphEditor ScreenController ReadOnlyTextController ModalController StringHolderController DeferredActionStandardSystemController PluggableTextController }
- Bad: CelesteComposition.celeste is of type Top
- Bad: CelesteComposition.messageText is of type Top
- Good: CelesteComposition.morphicWindow is of type { AlignmentMorphBob1 UndefinedObject SystemWindow }
- Good: CelesteComposition.mvcWindow is of type { StandardSystemView UndefinedObject }
- Good: CelesteComposition.attachmentSeparator is of type UndefinedObject
- Good: FancyCelesteComposition.theLinkToInclude is of type UndefinedObject

- Bad: FancyCelesteComposition.to is of type Top
- Good: FancyCelesteComposition.subject is of type { String UndefinedObject }
- Good: FancyCelesteComposition.textFields is of type { UndefinedObject Array }
- Good: IndexFile.msgDictionary is of type { PluggableDictionary UndefinedObject }
- Good: IndexFile.logfile is of type { UndefinedObject StandardFileStream }
- Good: IndexFile.timeSortedEntries is of type { UndefinedObject SortedCollection }
- Bad: IndexFileEntry.time is of type Top
- Bad: IndexFileEntry.msgID is of type Top
- Bad: IndexFileEntry.messageFile is of type Top
- Bad: IndexFileEntry.cc is of type Top
- Bad: IndexFileEntry.tocLineCache is of type Top
- Bad: IndexFileEntry.location is of type Top
- Bad: IndexFileEntry.to is of type Top
- Bad: IndexFileEntry.textLength is of type Top
- Bad: IndexFileEntry.subject is of type Top
- Bad: IndexFileEntry.from is of type Top
- Good: MIMEHeaderValue.mainValue is of type { UndefinedObject String Character }
- Good: MIMEHeaderValue.parameters is of type { UndefinedObject Dictionary }
- Bad: MIMEPart.content is of type { SequenceableCollection++ Integer++ UndefinedObject B3DIndexedQuad B3DPrimitiveRasterizerData B3DIndexedTriangle }
- Good: MIMEPart.parts is of type { Array UndefinedObject OrderedCollection }
- Bad: MIMEPart.separator is of type Top
- Bad: MIMEPart.text is of type Top

- Good: MIMEPart.fields is of type { UndefinedObject Dictionary }
- Bad: MailDB.rootFilename is of type Top
- Bad: MailDB.indexFile is of type Top
- Bad: MailDB.messageFile is of type Top
- Bad: MailDB.categoriesFile is of type Top
- Bad: MailDBFile.filename is of type Top
- Bad: MailMessage.time is of type Top
- Bad: MailMessage.separator is of type Top
- Bad: MailMessage.cc is of type Top
- Good: MailMessage.body is of type { UndefinedObject MIMEDocument }
- Bad: MailMessage.to is of type Top
- Bad: MailMessage.text is of type Top
- Good: MailMessage.subject is of type { String UndefinedObject }
- Good: MailMessage.fields is of type { UndefinedObject Dictionary }
- Good: MailMessage.from is of type { String UndefinedObject }
- Good: MailMessage.parts is of type { Array UndefinedObject OrderedCollection }
- Bad: MailNotifier.lastConnectTime is of type Top
- Bad: MailNotifier.messageCount is of type { Integer++ Point++ Rectangle++ UndefinedObject Float }
- Good: MailNotifier.password is of type UndefinedObject
- Good: MailNotifier.socket is of type { UndefinedObject POPSocket }
- Good: MessageFile.file is of type { CrLfFileStream UndefinedObject }
- Bad: ReadNewsInboxFile.currentNewsgroup is of type Top
- Good: ReadNewsInboxFile.msgBuffer is of type { UndefinedObject WriteStream }
- Bad: TextMessageLink.message is of type Top
- Bad: RBAssignmentNode.variable is of type Top
- Bad: RBAssignmentNode.assignment is of type Top

- Bad: RBAssignmentNode.value is of type Top
- Good: RBBlockNode.colons is of type { UndefinedObject OrderedCollection }
- Bad: RBBlockNode.bar is of type Top
- Bad: RBBlockNode.right is of type Top
- Bad: RBBlockNode.left is of type Top
- Bad: RBBlockNode.body is of type Top
- Bad: RBBlockNode.arguments is of type Top
- Bad: RBCascadeNode.messages is of type Top
- Good: RBCascadeNode.semicolons is of type { UndefinedObject OrderedCollection }
- Good: RBFormatter.codeStream is of type { UndefinedObject WriteStream }
- Bad: RBFormatter.lineStart is of type Top
- Bad: RBFormatter.firstLineLength is of type Top
- Good: RBFormatter.tabs is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: RBLiteralNode.token is of type Top
- Bad: RBMessageNode.arguments is of type Top
- Bad: RBMessageNode.receiver is of type Top
- Bad: RBMessageNode.selector is of type Top
- Bad: RBMessageNode.selectorParts is of type Top
- Good: RBMethodNode.tags is of type { UndefinedObject OrderedCollection }
- Bad: RBMethodNode.selector is of type Top
- Bad: RBMethodNode.selectorParts is of type Top
- Bad: RBMethodNode.body is of type Top
- Bad: RBMethodNode.source is of type Top
- Bad: RBMethodNode.arguments is of type Top
- Bad: RBOptimizedNode.body is of type Top

- Bad: RBOptimizedNode.right is of type Top
- Bad: RBOptimizedNode.left is of type Top
- Good: RBParser.scanner is of type { RBScanner UndefinedObject }
- Bad: RBParser.tags is of type Object++
- Bad: RBParser.source is of type Top
- Good: RBParser.emptyStatements is of type { True UndefinedObject False }
- Good: RBParser.currentToken is of type { RBShortAssignmentToken RBOptimizedToken UndefinedObject RBToken RBPatternBlockToken RBScanner RBLiteralToken RBAssignmentToken RBKeywordToken RBBinarySelectorToken RBIdentifierToken RBSpecialCharacterToken }
- Good: RBParser.negatedNumbers is of type { True UndefinedObject False }
- Good: RBParser.errorBlock is of type { UndefinedObject a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType }
- Good: RBParser.nextToken is of type { Boolean++ RBShortAssignmentToken RBOptimizedToken UndefinedObject RBToken RBPatternBlockToken RBScanner RBLiteralToken RBAssignmentToken RBKeywordToken RBBinarySelectorToken RBIdentifierToken RBSpecialCharacterToken }
- Good: RBPatternMessageNode.isCascadeList is of type { True UndefinedObject False }
- Good: RBPatternMessageNode.isList is of type { True UndefinedObject False }
- Good: RBPatternMethodNode.isList is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.recurseInto is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isLiteral is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isStatement is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isAnything is of type { True UndefinedObject False }

- Good: RBPatternVariableNode.isList is of type { True UndefinedObject False }
- Bad: RBProgramNode.parent is of type Top
- Good: RBProgramNode.comments is of type { UndefinedObject Array OrderedCollection SortedCollection }
- Bad: RBReturnNode.return is of type Top
- Bad: RBReturnNode.value is of type Top
- Bad: RBSequenceNode.rightBar is of type Top
- Good: RBSequenceNode.periods is of type { UndefinedObject OrderedCollection }
- Bad: RBSequenceNode.temporaries is of type Top
- Bad: RBSequenceNode.statements is of type Top
- Bad: RBSequenceNode.leftBar is of type Top
- Good: RBValueNode.parentheses is of type { UndefinedObject OrderedCollection }
- Bad: RBVariableNode.token is of type Top
- Bad: ADPCMCodec.index is of type Top
- Good: ADPCMCodec.indexTable is of type { Array UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.deltaSignMask is of type Top
- Bad: ADPCMCodec.bitPosition is of type Top
- Bad: ADPCMCodec.encodedBytes is of type Top
- Good: ADPCMCodec.stepSizeTable is of type { Array UndefinedObject SoundBuffer }
- Good: ADPCMCodec.sampleIndex is of type { SmallInteger LargeNegativeInteger LargePositiveInteger UndefinedObject Array }
- Good: ADPCMCodec.rightSamples is of type { UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.byteIndex is of type Top
- Good: ADPCMCodec.frameSizeMask is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }

- Bad: ADPCMCodec.bitsPerSample is of type Top
- Bad: ADPCMCodec.predicted is of type Top
- Bad: ADPCMCodec.deltaValueHighBit is of type Top
- Bad: ADPCMCodec.deltaValueMask is of type Top
- Bad: ADPCMCodec.currentByte is of type Top
- Bad: ADPCMCodec.samples is of type Top
- Good: AIFFFileReader.channelData is of type { UndefinedObject Array }
- Bad: AIFFFileReader.frameCount is of type Top
- Bad: AIFFFileReader.isLooped is of type Top
- Bad: AIFFFileReader.gain is of type Top
- Good: AIFFFileReader.in is of type { UndefinedObject ReadStream CrLfFileStream }
- Bad: AIFFFileReader.fileType is of type Top
- Bad: AIFFFileReader.pitch is of type Top
- Bad: AIFFFileReader.markers is of type Top
- Good: AIFFFileReader.channelCount is of type { UndefinedObject SmallInteger }
- Bad: AIFFFileReader.bitsPerSample is of type Top
- Good: AIFFFileReader.mergeIfStereo is of type { True UndefinedObject False }
- Good: AIFFFileReader.skipDataChunk is of type { True UndefinedObject False }
- Bad: AIFFFileReader.samplingRate is of type Top
- Bad: AbstractSound.envelopes is of type Top
- Bad: AbstractSound.mSecsSinceStart is of type Top
- Bad: AbstractSound.scaledVolLimit is of type Top
- Bad: AbstractSound.scaledVol is of type Top
- Bad: AbstractSound.samplesUntilNextControl is of type Top
- Bad: AbstractSound.scaledVolIncr is of type Top

- Bad: CompressedSoundData.perceivedPitch is of type Top
- Bad: CompressedSoundData.codecName is of type Top
- Good: CompressedSoundData.channels is of type { UndefinedObject Array }
- Bad: CompressedSoundData.gain is of type Top
- Bad: CompressedSoundData.firstSample is of type Top
- Bad: CompressedSoundData.soundClassName is of type Top
- Bad: CompressedSoundData.cachedSound is of type { WaveletCodec MuLawCodec ADPCMCodec SoundCodec UndefinedObject LoopedSampledSound GSMCodec SampledSound }
- Bad: CompressedSoundData.loopLength is of type Top
- Bad: CompressedSoundData.samplingRate is of type Top
- Bad: CompressedSoundData.loopEnd is of type Top
- Bad: Envelope.target is of type Top
- Bad: Envelope.scale is of type Top
- Good: Envelope.updateSelector is of type { UndefinedObject #pitch: #modulation: #ratio: }
- Bad: Envelope.loopEndMSecs is of type { Magnitude++ UndefinedObject }
- Bad: Envelope.endMSecs is of type Top
- Bad: Envelope.currValue is of type Top
- Bad: Envelope.loopStartIndex is of type Top
- Bad: Envelope.valueIncr is of type Top
- Good: Envelope.noChangesDuringLoop is of type { True UndefinedObject False }
- Bad: Envelope.nextRecomputeTime is of type Top
- Bad: Envelope.loopEndIndex is of type Top
- Bad: Envelope.loopMSecs is of type Top
- Bad: Envelope.loopStartMSecs is of type Top
- Bad: Envelope.decayScale is of type Top

- Bad: Envelope.points is of type Top
- Bad: Envelope.lastValue is of type Top
- Bad: FFT.permTable is of type { SequenceableCollection++ Integer++ UndefinedObject B3DIndexedQuad B3DPrimitiveRasterizerData B3DIndexedTriangle }
- Bad: FFT.nu is of type Top
- Bad: FFT.n is of type Top
- Bad: FFT.sinTable is of type Top
- Good: FFT.imagData is of type { Array UndefinedObject FloatArray }
- Good: FFT.window is of type { UndefinedObject FloatArray }
- Bad: FFT.realData is of type Top
- Bad: FMSound.initialCount is of type Top
- Bad: FMSound.multiplier is of type Top
- Bad: FMSound.scaledOffsetIndex is of type Top
- Bad: FMSound.waveTable is of type Top
- Bad: FMSound.scaledWaveTableSize is of type Top
- Bad: FMSound.scaledIndex is of type Top
- Bad: FMSound.normalizedModulation is of type Top
- Bad: FMSound.scaledOffsetIndexIncr is of type Top
- Bad: FMSound.modulation is of type Top
- Good: FMSound.scaledIndexIncr is of type UndefinedObject
- Bad: FMSound.count is of type Top
- Good: FWT.transform is of type { UndefinedObject Array }
- Bad: FWT.beta is of type Top
- Good: FWT.gTilde is of type { UndefinedObject Array }
- Good: FWT.coeffs is of type { UndefinedObject Array }
- Good: FWT.g is of type { UndefinedObject Array }
- Bad: FWT.nSamples is of type Top
- Bad: FWT.nLevels is of type Top

- Bad: FWT.alpha is of type Top
- Good: FWT.h is of type { UndefinedObject Array }
- Good: FWT.samples is of type { UndefinedObject Array }
- Good: FWT.hTilde is of type { UndefinedObject Array }
- Bad: GSMCodec.encodeState is of type Top
- Bad: GSMCodec.decodeState is of type Top
- Bad: LoopedSampledSound.initialCount is of type Top
- Bad: LoopedSampledSound.perceivedPitch is of type Top
- Bad: LoopedSampledSound.scaledLoopLength is of type Top
- Bad: LoopedSampledSound.lastSample is of type Top
- Good: LoopedSampledSound.gain is of type { UndefinedObject Float }
- Bad: LoopedSampledSound.scaledIndexIncr is of type Top
- Bad: LoopedSampledSound.releaseCount is of type Top
- Bad: LoopedSampledSound.firstSample is of type Top
- Bad: LoopedSampledSound.sampleCountForRelease is of type Top
- Bad: LoopedSampledSound.rightSamples is of type Top
- Bad: LoopedSampledSound.leftSamples is of type Top
- Bad: LoopedSampledSound.scaledIndex is of type Top
- Bad: LoopedSampledSound.originalSamplingRate is of type Top
- Bad: LoopedSampledSound.count is of type Top
- Bad: LoopedSampledSound.loopEnd is of type Top
- Good: MixedSound.soundDone is of type { UndefinedObject Array }
- Good: MixedSound.sounds is of type { UndefinedObject Array }
- Good: MixedSound.leftVols is of type { UndefinedObject Array }
- Bad: MixedSound.rightVols is of type Top
- Bad: PitchEnvelope.centerPitch is of type Top
- Bad: PluckedSound.initialCount is of type Top
- Bad: PluckedSound.ring is of type Top

- Bad: PluckedSound.scaledIndexLimit is of type { Number++ UndefinedObject }
- Bad: PluckedSound.scaledIndex is of type Top
- Bad: PluckedSound.scaledIndexIncr is of type Top
- Bad: PluckedSound.count is of type Top
- Good: RandomEnvelope.rand is of type { Random UndefinedObject }
- Good: RandomEnvelope.highLimit is of type { UndefinedObject Float }
- Good: RandomEnvelope.lowLimit is of type { UndefinedObject Float }
- Good: RandomEnvelope.delta is of type { UndefinedObject Float }
- Bad: RepeatingSound.iteration is of type Top
- Bad: RepeatingSound.iterationCount is of type Top
- Bad: RepeatingSound.sound is of type Top
- Bad: RepeatingSound.samplesPerIteration is of type Top
- Bad: RestSound.initialCount is of type Top
- Bad: RestSound.count is of type Top
- Good: ReverbSound.tapGains is of type { UndefinedObject Bitmap }
- Good: ReverbSound.bufferSize is of type { Bitmap LargeNegativeInteger LargePositiveInteger UndefinedObject SmallInteger }
- Good: ReverbSound.rightBuffer is of type { UndefinedObject SoundBuffer }
- Good: ReverbSound.leftBuffer is of type { UndefinedObject SoundBuffer }
- Good: ReverbSound.tapCount is of type { UndefinedObject SmallInteger }
- Good: ReverbSound.tapDelays is of type { UndefinedObject Bitmap }
- Bad: ReverbSound.bufferIndex is of type Top
- Good: ReverbSound.sound is of type UndefinedObject
- Good: SampledInstrument.sustainedSoft is of type { UndefinedObject Array }
- Good: SampledInstrument.staccatoSoft is of type { UndefinedObject Array }

- Good: SampledInstrument.staccatoLoud is of type { UndefinedObject Array }
- Good: SampledInstrument.sustainedThreshold is of type { UndefinedObject Float }
- Good: SampledInstrument.sustainedLoud is of type { UndefinedObject Array }
- Good: SampledInstrument.loudThreshold is of type { UndefinedObject Float }
- Bad: SampledSound.initialCount is of type Top
- Bad: SampledSound.samples is of type Top
- Bad: SampledSound.scaledIncrement is of type Top
- Bad: SampledSound.scaledIndex is of type Top
- Bad: SampledSound.indexHighBits is of type Top
- Bad: SampledSound.samplesSize is of type Top
- Bad: SampledSound.originalSamplingRate is of type Top
- Bad: SampledSound.count is of type Top
- Good: SequentialSound.sounds is of type { UndefinedObject Array }
- Good: SequentialSound.currentIndex is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: Sonogram.lastX is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: Sonogram.pixValMap is of type { UndefinedObject Bitmap }
- Good: Sonogram.maxVal is of type { UndefinedObject Float }
- Good: Sonogram.minVal is of type { UndefinedObject Float }
- Good: Sonogram.scrollDelta is of type { UndefinedObject SmallInteger }
- Good: Sonogram.columnForm is of type { Form UndefinedObject }
- Bad: SoundInputStream.mutex is of type Top
- Bad: SoundInputStream.bufferSize is of type Top
- Good: SoundRecorder.currentBuffer is of type { UndefinedObject SoundBuffer }
- Bad: SoundRecorder.recordProcess is of type Top

- Good: SoundRecorder.codec is of type { GSMCodec UndefinedObject }
- Good: SoundRecorder.desiredSampleRate is of type { UndefinedObject Float }
- Bad: SoundRecorder.nextIndex is of type Top
- Good: SoundRecorder.meteringBuffer is of type { UndefinedObject SoundBuffer }
- Bad: SoundRecorder.meterLevel is of type Top
- Good: SoundRecorder.stereo is of type { False UndefinedObject }
- Good: SoundRecorder.recordLevel is of type { UndefinedObject Float }
- Good: SoundRecorder.soundPlaying is of type { SampledSound SequentialSound UndefinedObject ChatRecorder SoundInputStream SoundRecorder }
- Good: SoundRecorder.recordedBuffers is of type { Array UndefinedObject OrderedCollection }
- Good: SoundRecorder.paused is of type { True UndefinedObject False }
- Bad: SoundRecorder.samplingRate is of type Top
- Good: SoundRecorder.recordedSound is of type { SampledSound SequentialSound UndefinedObject ChatRecorder SoundInputStream SoundRecorder }
- Good: SoundRecorder.bufferAvailableSema is of type { Semaphore UndefinedObject }
- Bad: VolumeEnvelope.mSecsForChange is of type { Magnitude++ UndefinedObject }
- Bad: VolumeEnvelope.targetVol is of type Top
- Good: VolumeEnvelope.currentVol is of type UndefinedObject
- Bad: WaveletCodec.alpha is of type Top
- Bad: WaveletCodec.beta is of type Top
- Good: WaveletCodec.fwt is of type { FWT UndefinedObject }
- Bad: WaveletCodec.samplesPerFrame is of type Top
- Bad: WaveletCodec.nLevels is of type { Integer++ SequenceableCollection++ B3DIndexedQuad B3DPrimitiveRasterizerData B3DIndexedTriangle ScrollingToolHolder UndefinedObject }

- Bad: TestInterfaceBase.duration is of type Top
- Bad: TestInterfaceBase.classPattern is of type Top
- Bad: TestInterfaceBase.result is of type Top
- Bad: TestInterfaceBase.selectorPattern is of type Top
- Good: TestModel.failureList is of type { UndefinedObject OrderedCollection }
- Good: TestModel.patternHistory is of type { UndefinedObject OrderedCollection }
- Good: TestModel.errorList is of type { UndefinedObject OrderedCollection }
- Bad: TestModel.summaryText is of type { Boolean++ String UndefinedObject }
- Bad: TestModel.summaryTextM is of type { PluggableTextMorph++ PluggableTextView UndefinedObject }
- Good: TestModel.summaryTextV is of type { PluggableTextView UndefinedObject }
- Good: TestModel.updateColorSelector is of type { UndefinedObject #updateColorM #updateColorV }
- Good: TestModel.patternTextV is of type { PluggableTextView UndefinedObject }
- Bad: TestModel.patternTextM is of type { PluggableTextMorph++ PluggableTextView UndefinedObject }
- Bad: TestModel.detailsText is of type Top
- Bad: Browser.classOrganizer is of type Top
- Bad: Browser.systemOrganizer is of type Top
- Bad: Browser.messageListIndex is of type Top
- Bad: Browser.messageCategoryListIndex is of type Top
- Good: Browser.editSelection is of type { Boolean++ UndefinedObject #hierarchy #editClass #editComment #none #editMessageCategories #newClass #editMessage #newMessage #editSystemCategories #byteCodes }
- Bad: Browser.metaClassOrganizer is of type Top
- Bad: Browser.systemCategoryListIndex is of type Top

- Bad: Browser.metaClassIndicated is of type Top
- Bad: Browser.classListIndex is of type Top
- Bad: ChangedMessageSet.changeSet is of type Top
- Bad: HierarchyBrowser.centralClass is of type Top
- Bad: HierarchyBrowser.classList is of type Top
- Bad: MessageSet.messageList is of type Top
- Bad: MessageSet.autoSelectString is of type Top
- Bad: PackageBrowser.package is of type Top
- Bad: PackageBrowser.packageListIndex is of type Top
- Good: PackageBrowser.packageList is of type UndefinedObject
- Good: ProtocolBrowser.selectedClass is of type UndefinedObject
- Bad: ProtocolBrowser.selectedSelector is of type Top
- Bad: SelectorBrowser.classListIndex is of type Top
- Bad: SelectorBrowser.classList is of type Top
- Bad: SelectorBrowser.selectorIndex is of type Top
- Bad: SelectorBrowser.selectorList is of type Top
- Good: ChineseCheckerPiece.myBoard is of type { ChineseCheckers UndefinedObject }
- Bad: ChineseCheckerPiece.boardLoc is of type Top
- Good: ChineseCheckers.movePhase is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ChineseCheckers.board is of type { UndefinedObject Array }
- Good: ChineseCheckers.plannedMovePhase is of type UndefinedObject
- Good: ChineseCheckers.sixDeltas is of type { UndefinedObject Array }
- Bad: ChineseCheckers.plannedMove is of type Top
- Bad: ChineseCheckers.whoseMove is of type Top
- Good: ChineseCheckers.teams is of type { UndefinedObject Array }
- Good: ChineseCheckers.colors is of type { UndefinedObject Array }
- Good: ChineseCheckers.homes is of type { UndefinedObject Array }

- Good: ChineseCheckers.animateMoves is of type { True UndefinedObject False }
- Good: ChineseCheckers.pathMorphs is of type { UndefinedObject OrderedCollection }
- Good: ChineseCheckers.autoPlay is of type { UndefinedObject Array }
- Good: CipherPanel.originalMorphs is of type { UndefinedObject Array }
- Good: CipherPanel.decodingMorphs is of type { UndefinedObject Array }
- Good: CipherPanel.quote is of type { UndefinedObject String Character }
- Good: CipherPanel.originalText is of type UndefinedObject
- Good: CrosticPanel.crosticPanel is of type UndefinedObject
- Good: CrosticPanel.cluesCol2 is of type { AlignmentMorph UndefinedObject }
- Bad: CrosticPanel.quote is of type Top
- Good: CrosticPanel.answers is of type { UndefinedObject OrderedCollection }
- Good: CrosticPanel.clues is of type { UndefinedObject OrderedCollection }
- Good: CrosticPanel.cluesPanel is of type { AlignmentMorph UndefinedObject }
- Good: CrosticPanel.quotePanel is of type { CrosticQuotePanel UndefinedObject }
- Good: CrosticQuotePanel.cluesPanel is of type { CrosticPanel UndefinedObject }
- Good: FreeCell.lastGameLost is of type UndefinedObject
- Good: FreeCell.cardsRemainingDisplay is of type { LedMorph UndefinedObject }
- Good: FreeCell.gameNumberDisplay is of type { LedMorph UndefinedObject }
- Good: FreeCell.state is of type { UndefinedObject #sameGame #pickGame #won #newGame #lost }
- Good: FreeCell.myFillStyle is of type { UndefinedObject GradientFillStyle }

- Good: FreeCell.elapsedTimeDisplay is of type { UndefinedObject LedTimerMorph }
- Good: FreeCell.board is of type { FreeCellBoard UndefinedObject }
- Good: FreeCell.autoMoveRecursionCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: FreeCellBoard.target is of type Top
- Bad: FreeCellBoard.actionSelector is of type Top
- Good: FreeCellBoard.stacks is of type { UndefinedObject Array }
- Good: FreeCellBoard.freeCells is of type { UndefinedObject Array }
- Good: FreeCellBoard.homeCells is of type { UndefinedObject Array }
- Good: FreeCellBoard.cardDeck is of type { PlayingCardDeck UndefinedObject }
- Good: FreeCellBoard.lastCardDeck is of type UndefinedObject
- Good: FreeCellStatistics.streakLosses is of type { UndefinedObject LargeNegativeInteger SmallInteger LargePositiveInteger }
- Bad: FreeCellStatistics.lastGameWon is of type Top
- Bad: FreeCellStatistics.lastGameLost is of type Top
- Good: FreeCellStatistics.currentCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.currentType is of type { UndefinedObject #losses #wins }
- Good: FreeCellStatistics.statsMorph is of type { TextMorph UndefinedObject }
- Good: FreeCellStatistics.window is of type UndefinedObject
- Good: FreeCellStatistics.sessionLosses is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.lossesWithReplay is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.sessionWins is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.totalWins is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }

- Good: FreeCellStatistics.streakWins is of type { UndefinedObject LargeNegativeInteger SmallInteger LargePositiveInteger }
- Good: FreeCellStatistics.totalLosses is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.winsWithReplay is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: LedDigitMorph.digit is of type Top
- Good: LedDigitMorph.highlighted is of type { True UndefinedObject False }
- Good: LedMorph.digits is of type { UndefinedObject SmallInteger }
- Bad: LedMorph.flash is of type Top
- Good: LedMorph.flashing is of type { True UndefinedObject False }
- Bad: LedMorph.value is of type Top
- Good: LedTimerMorph.counting is of type { True UndefinedObject False }
- Bad: LedTimerMorph.startSeconds is of type Top
- Good: PlayingCard.cardNo is of type { UndefinedObject LargeNegativeInteger SmallInteger LargePositiveInteger }
- Bad: PlayingCard.suitNo is of type Top
- Good: PlayingCard.suit is of type UndefinedObject
- Good: PlayingCard.cardForm is of type { Form UndefinedObject }
- Bad: PlayingCardDeck.target is of type Top
- Bad: PlayingCardDeck.seed is of type Top
- Good: PlayingCardDeck.acceptCardSelector is of type { PlayingCardDeck UndefinedObject #acceptCard:onStack: #acceptSingleCard:on: }
- Good: PlayingCardDeck.cardDraggedSelector is of type { PlayingCardDeck UndefinedObject #dragCard:fromHome: #dragCard:fromStack: }
- Good: PlayingCardDeck.stackingOrder is of type { UndefinedObject #descending #ascending }
- Good: PlayingCardDeck.cardDroppedSelector is of type { PlayingCardDeck UndefinedObject #cardMoved #cardMovedHome }

- Good: PlayingCardDeck.cardDoubleClickSelector is of type { PlayingCardDeck UndefinedObject #doubleClickInStack:OnCard: }
- Good: PlayingCardDeck.stackingPolicy is of type { UndefinedObject #stagger #single #altStraight #straight }
- Good: PlayingCardDeck.emptyDropPolicy is of type { UndefinedObject #inOrder #any }
- Good: PlayingCardDeck.layout is of type { UndefinedObject #stagger #pile #grid }
- Good: PlayingCardMorph.suitNumber is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: PlayingCardMorph.cardNumber is of type { UndefinedObject LargeNegativeInteger SmallInteger LargePositiveInteger }
- Good: SameGame.scoreDisplay is of type { LedMorph UndefinedObject }
- Good: SameGame.board is of type { UndefinedObject SameGameBoard }
- Good: SameGame.selectionDisplay is of type { LedMorph UndefinedObject }
- Bad: SameGame.helpText is of type { PluggableTextMorph++ StringHolderView++ UndefinedObject }
- Good: SameGameBoard.palette is of type { UndefinedObject OrderedCollection }
- Bad: SameGameBoard.target is of type Top
- Bad: SameGameBoard.columns is of type Top
- Bad: SameGameBoard.actionSelector is of type Top
- Good: SameGameBoard.selectionColor is of type UndefinedObject
- Good: SameGameBoard.flash is of type { True UndefinedObject False }
- Good: SameGameBoard.arguments is of type { UndefinedObject Array }
- Bad: SameGameBoard.rows is of type Top
- Bad: SameGameBoard.protoTile is of type Top
- Bad: SameGameBoard.flashColor is of type Top
- Good: SameGameBoard.selection is of type UndefinedObject

- Bad: SameGameTile.oldSwitchState is of type Top
- Bad: SameGameTile.switchState is of type Top
- Good: SameGameTile.disabled is of type { True UndefinedObject False }
- Good: Tetris.scoreDisplay is of type { LedMorph UndefinedObject }
- Good: Tetris.board is of type { UndefinedObject TetrisBoard }
- Bad: TetrisBlock.shapeInfo is of type Top
- Good: TetrisBlock.board is of type { UndefinedObject TetrisBoard }
- Bad: TetrisBlock.angle is of type Top
- Bad: TetrisBlock.baseCellNumber is of type Top
- Good: TetrisBoard.game is of type { UndefinedObject Tetris }
- Good: TetrisBoard.gameOver is of type { True UndefinedObject False }
- Bad: TetrisBoard.score is of type Top
- Good: TetrisBoard.paused is of type { True UndefinedObject False }
- Good: TetrisBoard.delay is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: TetrisBoard.currentBlock is of type { TetrisBlock UndefinedObject }
- Good: WordGameLetterMorph.predecessor is of type { WordGameLetterMorph UndefinedObject }
- Good: WordGameLetterMorph.lineMorph is of type { UndefinedObject PolygonMorph }
- Good: WordGameLetterMorph.style is of type { UndefinedObject #underlined #boxed #plain }
- Good: WordGameLetterMorph.letterMorph is of type { StringMorph UndefinedObject }
- Bad: WordGameLetterMorph.letter is of type Top
- Good: WordGameLetterMorph.originalLetter is of type UndefinedObject
- Good: WordGameLetterMorph.successor is of type { WordGameLetterMorph UndefinedObject }
- Bad: WordGameLetterMorph.indexInQuote is of type Top
- Good: WordGameLetterMorph.linkedLetters is of type UndefinedObject

- Good: WordGamePanelMorph.letterMorphs is of type { Array UndefinedObject OrderedCollection }
- Good: WordGamePanelMorph.haveTypedHere is of type { True UndefinedObject False }
- Bad: BitBltSimulation.sy is of type Top
- Bad: BitBltSimulation.halftoneBase is of type Top
- Good: BitBltSimulation.cmBlueShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: BitBltSimulation.destWidth is of type Top
- Bad: BitBltSimulation.destX is of type Top
- Bad: BitBltSimulation.width is of type Top
- Bad: BitBltSimulation.scanString is of type Top
- Bad: BitBltSimulation.sourceBits is of type Top
- Bad: BitBltSimulation.scanStop is of type Top
- Bad: BitBltSimulation.dy is of type Top
- Good: BitBltSimulation.warpBitShiftTable is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.destPixSize is of type Top
- Bad: BitBltSimulation.pixPerWord is of type Top
- Good: BitBltSimulation.ditherValues16 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.cmRedMask is of type Top
- Bad: BitBltSimulation.warpSrcMask is of type Top
- Bad: BitBltSimulation.dstBitShift is of type Top
- Bad: BitBltSimulation.destIndex is of type Top
- Bad: BitBltSimulation.sourceIndex is of type Top
- Bad: BitBltSimulation.clipX is of type Top
- Good: BitBltSimulation.hDir is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.nWords is of type Top

- Bad: BitBltSimulation.clipHeight is of type Top
- Bad: BitBltSimulation.bitBltOop is of type Top
- Bad: BitBltSimulation.preload is of type Top
- Bad: BitBltSimulation.opTable is of type Top
- Bad: BitBltSimulation.sourceForm is of type Top
- Bad: BitBltSimulation.warpAlignMask is of type Top
- Bad: BitBltSimulation.skew is of type Top
- Good: BitBltSimulation.cmDeltaBits is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: BitBltSimulation.ditherMatrix4x4 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.sourceY is of type Top
- Bad: BitBltSimulation.scanStart is of type Top
- Good: BitBltSimulation.cmGreenShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: BitBltSimulation.destBits is of type Top
- Bad: BitBltSimulation.destPitch is of type Top
- Bad: BitBltSimulation.height is of type Top
- Bad: BitBltSimulation.sourcePitch is of type Top
- Bad: BitBltSimulation.destY is of type Top
- Bad: BitBltSimulation.affectedL is of type Top
- Good: BitBltSimulation.maskTable is of type { UndefinedObject Array }
- Good: BitBltSimulation.scanDisplayFlag is of type { True UndefinedObject False }
- Bad: BitBltSimulation.mask1 is of type Top
- Bad: BitBltSimulation.destDelta is of type Top
- Good: BitBltSimulation.noHalftone is of type { True UndefinedObject False }
- Bad: BitBltSimulation.clipWidth is of type Top
- Bad: BitBltSimulation.destForm is of type Top

- Bad: BitBltSimulation.sx is of type Top
- Bad: BitBltSimulation.clipY is of type Top
- Bad: BitBltSimulation.scanRightX is of type Top
- Bad: BitBltSimulation.cmBlueMask is of type Top
- Bad: BitBltSimulation.halftoneHeight is of type Top
- Bad: BitBltSimulation.affectedT is of type Top
- Bad: BitBltSimulation.sourcePixSize is of type Top
- Good: BitBltSimulation.cmRedShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: BitBltSimulation.noSource is of type { True UndefinedObject False }
- Bad: BitBltSimulation.dx is of type Top
- Bad: BitBltSimulation.destMask is of type Top
- Bad: BitBltSimulation.affectedB is of type Top
- Bad: BitBltSimulation.cmGreenMask is of type Top
- Good: BitBltSimulation.hasSurfaceLock is of type { True UndefinedObject False }
- Bad: BitBltSimulation.stopCode is of type Top
- Bad: BitBltSimulation.combinationRule is of type Top
- Bad: BitBltSimulation.bitCount is of type Top
- Good: BitBltSimulation.vDir is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.destHeight is of type Top
- Good: BitBltSimulation.cmBitsPerColor is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.bbH is of type Top
- Bad: BitBltSimulation.bbW is of type Top
- Bad: BitBltSimulation.srcWidth is of type Top
- Bad: BitBltSimulation.affectedR is of type Top

- Good: BitBltSimulation.ditherThresholds16 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.sourceDelta is of type Top
- Good: BitBltSimulation.warpSrcShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: BitBltSimulation.halftoneForm is of type Top
- Bad: BitBltSimulation.mask2 is of type Top
- Bad: BitBltSimulation.scanXTable is of type Top
- Bad: BitBltSimulation.scanStopArray is of type Top
- Bad: BitBltSimulation.sourceAlpha is of type Top
- Bad: BitBltSimulation.colorMap is of type Top
- Good: BitBltSimulation.warpAlignShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: BitBltSimulation.sourceX is of type Top
- Bad: BitBltSimulation.srcBitShift is of type Top
- Bad: BitBltSimulation.srcHeight is of type Top
- Bad: Interpreter.activeContext is of type Top
- Bad: Interpreter.nextWakeupTick is of type Top
- Bad: Interpreter.localIP is of type Top
- Bad: Interpreter.localHomeContext is of type Top
- Good: Interpreter.methodCache is of type { UndefinedObject Array }
- Bad: Interpreter.interruptKeycode is of type Top
- Good: Interpreter.semaphoresToSignalCountA is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: Interpreter.interruptCheckCounterFeedBackReset is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: Interpreter.interpreterVersion is of type UndefinedObject
- Good: Interpreter.obsoleteNamedPrimitiveTable is of type { CArrayAccessor UndefinedObject }

- Good: Interpreter.interpreterProxy is of type { UndefinedObject InterpreterSimulator InterpreterSimulatorMSB InterpreterSimulatorLSB }
- Bad: Interpreter.receiver is of type Top
- Bad: Interpreter.stackPointer is of type Top
- Bad: Interpreter.receiverClass is of type Top
- Good: Interpreter.obsoleteIndexedPrimitiveTable is of type { CArrayAccessor UndefinedObject }
- Bad: Interpreter.successFlag is of type Top
- Good: Interpreter.compilerHooks is of type UndefinedObject
- Bad: Interpreter.fullScreenFlag is of type { Interpreter InterpreterSimulator InterpreterSimulatorLSB UndefinedObject InterpreterSimulatorMSB }
- Bad: Interpreter.primitiveIndex is of type Top
- Good: Interpreter.semaphoresToSignalB is of type { UndefinedObject Array }
- Bad: Interpreter.compilerInitialized is of type Top
- Bad: Interpreter.localSP is of type Top
- Bad: Interpreter.instructionPointer is of type Top
- Good: Interpreter.semaphoresUseBufferA is of type { True UndefinedObject False }
- Good: Interpreter.deferDisplayUpdates is of type { True UndefinedObject False }
- Bad: Interpreter.theHomeContext is of type Top
- Bad: Interpreter.extraVMMemory is of type Top
- Bad: Interpreter.method is of type { UndefinedObject InterpreterSimulatorMSB Bitmap InterpreterSimulator Interpreter LargeNegativeInteger InterpreterSimulatorLSB SmallInteger LargePositiveInteger }
- Good: Interpreter.pendingFinalizationSignals is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: Interpreter.newMethod is of type Top

- Good: Interpreter.semaphoresToSignalA is of type { UndefinedObject Array }
- Bad: Interpreter.methodClass is of type Top
- Bad: Interpreter.newNativeMethod is of type Top
- Good: Interpreter.atCache is of type { UndefinedObject Array }
- Bad: Interpreter.argumentCount is of type Top
- Bad: Interpreter.currentBytecode is of type Top
- Good: Interpreter.interruptPending is of type { False UndefinedObject }
- Good: Interpreter.interruptChecksEveryNms is of type { UndefinedObject SmallInteger }
- Bad: Interpreter.nextPollTick is of type Top
- Bad: Interpreter.lkupClass is of type Top
- Good: Interpreter.reclaimableContextCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: Interpreter.savedWindowSize is of type Top
- Bad: Interpreter.lastTick is of type Top
- Good: Interpreter.semaphoresToSignalCountB is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: Interpreter.messageSelector is of type Top
- Bad: Interpreter.showSurfaceFn is of type Top
- Good: InterpreterSimulator.myBitBlt is of type { False UndefinedObject BitBltSimulator }
- Good: InterpreterSimulator.traceOn is of type { UndefinedObject True }
- Bad: InterpreterSimulator.imageName is of type Top
- Bad: InterpreterSimulator.pluginList is of type Top
- Good: InterpreterSimulator.sendCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: InterpreterSimulator.displayForm is of type { Form UndefinedObject }

- Good: InterpreterSimulator.mappedPluginEntries is of type { UndefinedObject Array }
- Good: InterpreterSimulator.filesOpen is of type { UndefinedObject OrderedCollection }
- Good: InterpreterSimulator.byteCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.signalLowSpace is of type { True UndefinedObject False }
- Bad: ObjectMemory.tenuringThreshold is of type Top
- Bad: ObjectMemory.lastHash is of type Top
- Bad: ObjectMemory.statIncrGCMSecs is of type Top
- Good: ObjectMemory.remapBuffer is of type { UndefinedObject Array }
- Bad: ObjectMemory.trueObj is of type Top
- Bad: ObjectMemory.statFullGCMSecs is of type Top
- Bad: ObjectMemory.freeLargeContexts is of type Top
- Bad: ObjectMemory.lowSpaceThreshold is of type Top
- Bad: ObjectMemory.allocationsBetweenGCs is of type Top
- Good: ObjectMemory.interruptCheckCounter is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: ObjectMemory.freeContexts is of type Top
- Bad: ObjectMemory.compStart is of type Top
- Bad: ObjectMemory.youngStart is of type Top
- Bad: ObjectMemory.compEnd is of type Top
- Bad: ObjectMemory.totalObjectFoundAtStartup is of type Top
- Bad: ObjectMemory.memoryLimit is of type Top
- Bad: ObjectMemory.endOfMemory is of type Top
- Bad: ObjectMemory.specialObjectsOop is of type Top
- Good: ObjectMemory.statFullGCs is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }

- Good: ObjectMemory.statTenures is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.nilObj is of type UndefinedObject
- Bad: ObjectMemory.child is of type Top
- Bad: ObjectMemory.fwdTableLast is of type Top
- Bad: ObjectMemory.fwdTableNext is of type Top
- Good: ObjectMemory.rootTableCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.allocationCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.falseObj is of type UndefinedObject
- Good: ObjectMemory.remapBufferCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: ObjectMemory.parentField is of type Top
- Bad: ObjectMemory.field is of type Top
- Good: ObjectMemory.memory is of type { Interpreter UndefinedObject InterpreterSimulatorMSB InterpreterSimulatorLSB Bitmap InterpreterSimulator }
- Bad: ObjectMemory.freeBlock is of type Top
- Good: ObjectMemory.statRootTableOverflows is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.rootTable is of type { UndefinedObject Array }
- Good: ObjectMemory.statIncrGCs is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.displayBits is of type { UndefinedObject SmallInteger }
- Bad: SystemMonitor.vmParameters is of type Top
- Bad: SystemMonitor.gcHighWaterMark is of type Top
- Bad: SystemMonitor.baselineSkip is of type Top
- Bad: SystemMonitor.prevAllocCount is of type Top
- Bad: SystemMonitor.prevDeltaIncrGC is of type Top

- Bad: SystemMonitor.prevMcMiss is of type Top
- Good: SystemMonitor.window is of type { UndefinedObject Rectangle }
- Bad: SystemMonitor.prevDeltaFullGC is of type Top
- Bad: SystemMonitor.prevFullGC is of type Top
- Good: SystemMonitor.valSelectors is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevIncrGC is of type Top
- Bad: SystemMonitor.prevMsClock is of type Top
- Good: SystemMonitor.maxValues is of type { UndefinedObject Array }
- Good: SystemMonitor.prevAllocRate is of type { UndefinedObject SmallInteger }
- Bad: SystemMonitor.gcLowWaterMark is of type Top
- Good: SystemMonitor.labels is of type { UndefinedObject Array }
- Good: SystemMonitor.minValues is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevIcHit is of type Top
- Bad: SystemMonitor.prevMcHit is of type Top
- Good: SystemTracer.hashGenerator is of type { Random UndefinedObject }
- Bad: SystemTracer.maxOop is of type Top
- Good: SystemTracer.map is of type UndefinedObject
- Good: SystemTracer.initialProcess is of type UndefinedObject
- Good: SystemTracer.oopMap is of type { UndefinedObject Array }
- Bad: SystemTracer.specialObjects is of type Top
- Good: SystemTracer.file is of type { CrLfFileStream UndefinedObject }
- Good: SystemTracer.cleaningUp is of type { False UndefinedObject }
- Good: SystemTracer.writeDict is of type { UndefinedObject Dictionary }
- Good: SystemTracer.imageHeaderSize is of type { UndefinedObject SmallInteger }
- Good: SystemTracer.compactClasses is of type { UndefinedObject Array }
- Good: SystemTracer.replacementClasses is of type { UndefinedObject Dictionary }

4.8 Threshold of 3000

- Good: ChineseCheckerPiece.myBoard is of type { ChineseCheckers UndefinedObject }
- Bad: ChineseCheckerPiece.boardLoc is of type Top
- Good: ChineseCheckers.movePhase is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: ChineseCheckers.board is of type Top
- Good: ChineseCheckers.plannedMovePhase is of type UndefinedObject
- Good: ChineseCheckers.sixDeltas is of type { UndefinedObject Array }
- Bad: ChineseCheckers.plannedMove is of type Top
- Bad: ChineseCheckers.whoseMove is of type Top
- Good: ChineseCheckers.teams is of type { UndefinedObject Array }
- Good: ChineseCheckers.colors is of type { UndefinedObject Array }
- Good: ChineseCheckers.homes is of type { UndefinedObject Array }
- Good: ChineseCheckers.animateMoves is of type { True UndefinedObject False }
- Good: ChineseCheckers.pathMorphs is of type { UndefinedObject OrderedCollection }
- Good: ChineseCheckers.autoPlay is of type { UndefinedObject Array }
- Good: CipherPanel.originalMorphs is of type { UndefinedObject Array }
- Good: CipherPanel.decodingMorphs is of type { UndefinedObject Array }
- Good: CipherPanel.quote is of type { UndefinedObject String Character }
- Good: CipherPanel.originalText is of type UndefinedObject
- Good: CrosticPanel.crosticPanel is of type UndefinedObject
- Good: CrosticPanel.cluesCol2 is of type { AlignmentMorph UndefinedObject }
- Bad: CrosticPanel.quote is of type Top
- Good: CrosticPanel.answers is of type { UndefinedObject OrderedCollection }

- Good: CrosticPanel.clues is of type { UndefinedObject OrderedCollection }
- Good: CrosticPanel.cluesPanel is of type { AlignmentMorph UndefinedObject }
- Good: CrosticPanel.quotePanel is of type { CrosticQuotePanel UndefinedObject }
- Good: CrosticQuotePanel.cluesPanel is of type { CrosticPanel UndefinedObject }
- Good: FreeCell.lastGameLost is of type UndefinedObject
- Good: FreeCell.cardsRemainingDisplay is of type { LedMorph UndefinedObject }
- Good: FreeCell.gameNumberDisplay is of type { LedMorph UndefinedObject }
- Good: FreeCell.state is of type { UndefinedObject #sameGame #pickGame #won #newGame #lost }
- Good: FreeCell.myFillStyle is of type { UndefinedObject GradientFillStyle }
- Good: FreeCell.elapsedTimeDisplay is of type { UndefinedObject LedTimerMorph }
- Good: FreeCell.board is of type { FreeCellBoard UndefinedObject }
- Good: FreeCell.autoMoveRecursionCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: FreeCellBoard.target is of type Top
- Bad: FreeCellBoard.actionSelector is of type Top
- Good: FreeCellBoard.stacks is of type { UndefinedObject Array }
- Good: FreeCellBoard.freeCells is of type { UndefinedObject Array }
- Good: FreeCellBoard.homeCells is of type { UndefinedObject Array }
- Good: FreeCellBoard.cardDeck is of type { PlayingCardDeck UndefinedObject }
- Good: FreeCellBoard.lastCardDeck is of type UndefinedObject
- Good: FreeCellStatistics.streakLosses is of type { UndefinedObject LargeNegativeInteger SmallInteger LargePositiveInteger }
- Bad: FreeCellStatistics.lastGameWon is of type Top

- Bad: FreeCellStatistics.lastGameLost is of type Top
- Good: FreeCellStatistics.currentCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.currentType is of type { UndefinedObject #wins #losses }
- Good: FreeCellStatistics.statsMorph is of type { TextMorph UndefinedObject }
- Good: FreeCellStatistics.window is of type UndefinedObject
- Good: FreeCellStatistics.sessionLosses is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.lossesWithReplay is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.sessionWins is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.totalWins is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.streakWins is of type { UndefinedObject LargeNegativeInteger SmallInteger LargePositiveInteger }
- Good: FreeCellStatistics.totalLosses is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.winsWithReplay is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: LedDigitMorph.digit is of type Top
- Good: LedDigitMorph.highlighted is of type { True UndefinedObject False }
- Good: LedMorph.digits is of type { UndefinedObject SmallInteger }
- Bad: LedMorph.flash is of type Top
- Good: LedMorph.flashing is of type { True UndefinedObject False }
- Bad: LedMorph.value is of type Top
- Good: LedTimerMorph.counting is of type { True UndefinedObject False }
- Bad: LedTimerMorph.startSeconds is of type Top

- Good: PlayingCard.cardNo is of type { UndefinedObject LargeNegativeInteger SmallInteger LargePositiveInteger }
- Bad: PlayingCard.suitNo is of type Top
- Good: PlayingCard.suit is of type UndefinedObject
- Good: PlayingCard.cardForm is of type { Form UndefinedObject }
- Bad: PlayingCardDeck.target is of type Top
- Bad: PlayingCardDeck.seed is of type Top
- Good: PlayingCardDeck.acceptCardSelector is of type { PlayingCardDeck UndefinedObject #acceptCard:onStack: #acceptSingleCard:on: }
- Good: PlayingCardDeck.cardDraggedSelector is of type { PlayingCardDeck UndefinedObject #dragCard:fromHome: #dragCard:fromStack: }
- Good: PlayingCardDeck.stackingOrder is of type { UndefinedObject #descending #ascending }
- Good: PlayingCardDeck.cardDroppedSelector is of type { PlayingCardDeck UndefinedObject #cardMoved #cardMovedHome }
- Good: PlayingCardDeck.cardDoubleClickSelector is of type { PlayingCardDeck UndefinedObject #doubleClickInStack:OnCard: }
- Good: PlayingCardDeck.stackingPolicy is of type { UndefinedObject #stagger #straight #altStraight #single }
- Good: PlayingCardDeck.emptyDropPolicy is of type { UndefinedObject #inOrder #any }
- Good: PlayingCardDeck.layout is of type { UndefinedObject #stagger #pile #grid }
- Good: PlayingCardMorph.suitNumber is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: PlayingCardMorph.cardNumber is of type { UndefinedObject LargeNegativeInteger SmallInteger LargePositiveInteger }
- Good: SameGame.scoreDisplay is of type { LedMorph UndefinedObject }
- Good: SameGame.board is of type { UndefinedObject SameGameBoard }

- Good: SameGame.selectionDisplay is of type { LedMorph UndefinedObject }
- Bad: SameGame.helpText is of type { PluggableTextMorph++ StringHolderView++ UndefinedObject }
- Good: SameGameBoard.palette is of type { UndefinedObject OrderedCollection }
- Bad: SameGameBoard.target is of type Top
- Bad: SameGameBoard.columns is of type Top
- Bad: SameGameBoard.actionSelector is of type Top
- Good: SameGameBoard.selectionColor is of type UndefinedObject
- Good: SameGameBoard.flash is of type { True UndefinedObject False }
- Good: SameGameBoard.arguments is of type { UndefinedObject Array }
- Bad: SameGameBoard.rows is of type Top
- Bad: SameGameBoard.protoTile is of type Top
- Bad: SameGameBoard.flashColor is of type Top
- Good: SameGameBoard.selection is of type UndefinedObject
- Bad: SameGameTile.oldSwitchState is of type Top
- Bad: SameGameTile.switchState is of type Top
- Good: SameGameTile.disabled is of type { True UndefinedObject False }
- Good: Tetris.scoreDisplay is of type { LedMorph UndefinedObject }
- Good: Tetris.board is of type { UndefinedObject TetrisBoard }
- Bad: TetrisBlock.shapeInfo is of type Top
- Good: TetrisBlock.board is of type { UndefinedObject TetrisBoard }
- Bad: TetrisBlock.angle is of type Top
- Bad: TetrisBlock.baseCellNumber is of type Top
- Good: TetrisBoard.game is of type { UndefinedObject Tetris }
- Good: TetrisBoard.gameOver is of type { True UndefinedObject False }
- Bad: TetrisBoard.score is of type Top
- Good: TetrisBoard.paused is of type { True UndefinedObject False }

- Good: TetrisBoard.delay is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: TetrisBoard.currentBlock is of type { TetrisBlock UndefinedObject }
- Good: WordGameLetterMorph.predecessor is of type { WordGameLetterMorph UndefinedObject }
- Good: WordGameLetterMorph.lineMorph is of type { UndefinedObject PolygonMorph }
- Good: WordGameLetterMorph.style is of type { UndefinedObject #underlined #boxed #plain }
- Good: WordGameLetterMorph.letterMorph is of type { StringMorph UndefinedObject }
- Bad: WordGameLetterMorph.letter is of type Top
- Good: WordGameLetterMorph.originalLetter is of type UndefinedObject
- Good: WordGameLetterMorph.successor is of type { WordGameLetterMorph UndefinedObject }
- Bad: WordGameLetterMorph.indexInQuote is of type Top
- Good: WordGameLetterMorph.linkedLetters is of type UndefinedObject
- Good: WordGamePanelMorph.letterMorphs is of type { Array UndefinedObject OrderedCollection }
- Good: WordGamePanelMorph.haveTypedHere is of type { True UndefinedObject False }
- Bad: PDA.recurringEvents is of type Top
- Good: PDA.peopleList is of type { ArrayedCollection++ UndefinedObject }
- Bad: PDA.date is of type Top
- Good: PDA.dateButtonPressed is of type UndefinedObject
- Bad: PDA.allEvents is of type Top
- Bad: PDA.category is of type Top
- Bad: PDA.currentItem is of type Top
- Good: PDA.scheduleList is of type { ArrayedCollection++ UndefinedObject }

- Good: PDA.categoryListIndex is of type UndefinedObject
- Bad: PDA.allPeople is of type Top
- Bad: PDA.scheduleListIndex is of type Top
- Bad: PDA.allToDoItems is of type Top
- Bad: PDA.allNotes is of type Top
- Bad: PDA.notesListIndex is of type Top
- Good: PDA.currentItemSelection is of type UndefinedObject
- Good: PDA.categoryList is of type UndefinedObject
- Good: PDA.toDoList is of type { ArrayedCollection++ UndefinedObject }
- Bad: PDA.toDoListIndex is of type Top
- Bad: PDA.peopleListIndex is of type Top
- Good: PDA.notesList is of type { ArrayedCollection++ UndefinedObject }
- Good: PDA.currentItemText is of type UndefinedObject
- Bad: PDA.userCategories is of type Top
- Good: PDA.viewDescriptionOnly is of type { True UndefinedObject False }
- Bad: PDAChoiceMorph.backgroundColor is of type Top
- Bad: PDAClockMorph.backgroundColor is of type Top
- Bad: PDAEvent.time is of type Top
- Bad: PDAEvent.date is of type Top
- Bad: PDAEvent.duration is of type Top
- Good: PDAEvent.alarm is of type UndefinedObject
- Bad: PDAPerson.name is of type Top
- Good: PDAPerson.address is of type UndefinedObject
- Good: PDAPerson.phone is of type { String UndefinedObject }
- Good: PDAPerson.email is of type { String UndefinedObject }
- Bad: PDARecord.description is of type Top

- Bad: PDARecord.key is of type Top
- Good: PDARecord.otherFields is of type { UndefinedObject Dictionary }
- Good: PDARecurringEvent.recurrence is of type { UndefinedObject #nthWeekdayOfMonthEachYear #dayOfWeek #dayOfMonth #dateOfYear }
- Bad: PDARecurringEvent.firstDate is of type Top
- Bad: PDARecurringEvent.lastDate is of type Top
- Good: PDAToDoItem.deadline is of type UndefinedObject
- Bad: PDAToDoItem.result is of type Top
- Bad: PDAToDoItem.dayDone is of type Top
- Bad: PDAToDoItem.dayPosted is of type Top
- Bad: PDAToDoItem.priority is of type Top
- Bad: IRCChannelInfo.name is of type Top
- Bad: IRCChannelInfo.topic is of type Top
- Good: IRCChannelInfo.subscribers is of type { IdentitySet UndefinedObject }
- Good: IRCChannelInfo.members is of type { Set UndefinedObject }
- Good: IRCChannelInfo.connection is of type { IRCConnection UndefinedObject }
- Good: IRCChannelListBrowser.channelIndex is of type { UndefinedObject SmallInteger }
- Good: IRCChannelListBrowser.channelList is of type { Array UndefinedObject SortedCollection }
- Good: IRCChannelListBrowser.sortCriterion is of type { UndefinedObject #name }
- Good: IRCChannelListBrowser.connection is of type { IRCConnection UndefinedObject }
- Good: IRCChannelObserver.chatText is of type { Text UndefinedObject }
- Good: IRCChannelObserver.channelName is of type UndefinedObject
- Good: IRCChannelObserver.channel is of type UndefinedObject

- Good: IRCChannelObserver.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCChannelSummary.name is of type Top
- Bad: IRCChannelSummary.topic is of type Top
- Bad: IRCChannelSummary.numUsers is of type Top
- Good: IRCChannelUsersBrowser.channel is of type { UndefinedObject IRCChannelInfo }
- Good: IRCChannelUsersBrowser.userList is of type { UndefinedObject Array }
- Bad: IRCChannelUsersBrowser.userIndex is of type Top
- Good: IRCConnection.directMessageSubscribers is of type { IdentitySet UndefinedObject }
- Good: IRCConnection.channelListBeingBuilt is of type { UndefinedObject OrderedCollection }
- Good: IRCConnection.protocolMessagesToSend is of type { UndefinedObject OrderedCollection }
- Bad: IRCConnection.sendBuffer is of type Top
- Bad: IRCConnection.server is of type Top
- Good: IRCConnection.motdBeingBuilt is of type { UndefinedObject WriteStream }
- Good: IRCConnection.protocolMessageSubscribers is of type { IdentitySet UndefinedObject }
- Bad: IRCConnection.motd is of type { SequenceableCollection++ Integer++ UndefinedObject B3DIndexedQuad B3DPrimitiveRasterizerData B3DIndexedTriangle }
- Bad: IRCConnection.port is of type Top
- Good: IRCConnection.recieveBuffer is of type { String UndefinedObject }
- Good: IRCConnection.socket is of type { Socket UndefinedObject }
- Bad: IRCConnection.userName is of type Top
- Bad: IRCConnection.nick is of type Top
- Good: IRCConnection.channelList is of type { UndefinedObject Array }

- Good: IRCConnection.subscribedChannels is of type { UndefinedObject Dictionary }
- Bad: IRCConnection.fullName is of type Top
- Good: IRCConnection.messagesProcessed is of type { UndefinedObject SmallInteger }
- Good: IRCConnection.consoleText is of type { Text UndefinedObject }
- Bad: IRCDirectMessagesObserver.chatText is of type Top
- Bad: IRCDirectMessagesObserver.talkingTo is of type Top
- Good: IRCDirectMessagesObserver.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCMessage.text is of type Top
- Bad: IRCMessage.sender is of type { B3DTexture2Array B3DPrimitiveRasterizerData Integer PointArray CompiledApplescript ByteArray ArrayedCollection SoundBuffer ExternalAddress ShortIntegerArray KlattFrame B3DMaterialColor GraphicSymbol B3DVector3 FlippyArray2 WeakArray Pixmap WordArray B3DVector2Array B3DIndexedQuad B3DVector3Array DescType B3DPrimitiveVertexArray B3DRotation B3DIndexedTriangleArray WordArrayForSegment B3DIndexedQuadArray String B3DPrimitiveLight LargePositiveInteger ComponentInstance StandardSourceFileArray B3DIndexedTriangle FloatArray B3DColor4 OnceOnlyOrderedCollection TranslatedMethod DirectoryEntry Array2D B3DFloatArray AEDesc RunArray Symbol B3DInplaceArray Text Array B3DMaterial B3DRotationArray ApplescriptInstance MappedCollection B3DColor4Array Interval Heap UrlArgumentList SourceFileArray B3DLightAttenuation ShortPointArray B3DVector4 B3DVector2 SequenceableCollection MacExternalData OrderedCollection B3DExponentTable B3DViewingFrustum IntegerArray ShortRunArray SortedCollection Bitmap LinkedList B3DMatrix4x4 Semaphore TextLineInterval LargeNegativeInteger CompiledMethod OSAID UndefinedObject SmallInteger }
- Bad: IRCMessage.recipient is of type Top
- Good: IRCMessagePattern.sender is of type UndefinedObject
- Good: IRCMessagePattern.recipient is of type UndefinedObject
- Good: IRCMessageSet.messages is of type UndefinedObject
- Bad: IRCMorph.userName is of type Top
- Bad: IRCMorph.nick is of type Top

- Bad: IRCMorph.server is of type Top
- Good: IRCMorph.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCMorph.fullName is of type Top
- Good: IRCMorph.messageCollections is of type UndefinedObject
- Good: IRCMorph.consoleText is of type { Text UndefinedObject }
- Bad: IRCMorph.port is of type Top
- Bad: IRCProtocolMessage.arguments is of type Top
- Good: IRCProtocolMessage.command is of type { UndefinedObject String Character }
- Bad: IRCProtocolMessage.prefix is of type { B3DTexture2Array B3DPrimitiveRasterizerData Integer PointArray CompiledApplescript ByteArray ArrayedCollection SoundBuffer ExternalAddress ShortIntegerArray KlattFrame B3DMaterialColor GraphicSymbol B3DVector3 FlippyArray2 WeakArray Pixmap WordArray B3DVector2Array B3DIndexedQuad B3DVector3Array DescType B3DPrimitiveVertexArray B3DRotation B3DIndexedTriangleArray WordArrayForSegment B3DIndexedQuadArray String B3DPrimitiveLight LargePositiveInteger ComponentInstance StandardSourceFileArray B3DIndexedTriangle FloatArray B3DColor4 OnceOnlyOrderedCollection TranslatedMethod DirectoryEntry Array2D B3DFloatArray AEDesc Symbol RunArray B3DInplaceArray Text Array B3DMaterial B3DRotationArray ApplescriptInstance MappedCollection B3DColor4Array Interval Heap UrlArgumentList SourceFileArray B3DLightAttenuation ShortPointArray B3DVector4 B3DVector2 SequenceableCollection MacExternalData OrderedCollection B3DExponentTable B3DViewingFrustum IntegerArray ShortRunArray SortedCollection Bitmap LinkedList B3DMatrix4x4 Semaphore TextLineInterval LargeNegativeInteger CompiledMethod OSAID UndefinedObject SmallInteger }
- Good: IRCRecipientFilter.recipient is of type UndefinedObject
- Good: CategoriesFile.categories is of type { UndefinedObject Dictionary }
- Bad: Celeste.currentMessages is of type Top
- Good: Celeste.customFilterBlock is of type { UndefinedObject Compiler }
- Bad: Celeste.status is of type Top

- Bad: Celeste.userPassword is of type Top
- Bad: Celeste.currentMsgID is of type Top
- Bad: Celeste.mailDB is of type Top
- Bad: Celeste.currentCategory is of type Top
- Bad: Celeste.lastCategory is of type Top
- Bad: Celeste.lastCategoryList is of type Top
- Good: Celeste.dateFilter is of type UndefinedObject
- Good: Celeste.currentTOC is of type { Array UndefinedObject OrderedCollection }
- Bad: Celeste.fromFilter is of type Top
- Good: Celeste.formatMessages is of type UndefinedObject
- Good: Celeste.lastCategoryMenu is of type { CustomMenu UndefinedObject }
- Bad: Celeste.messageTextView is of type { PluggableTextMorph++ PluggableListMorph++ PluggableListView++ SimpleHierarchicalListMorph++ PluggableTextView UndefinedObject }
- Bad: Celeste.subjectFilter is of type Top
- Bad: CelesteComposition.textEditor is of type Top
- Bad: CelesteComposition.celeste is of type Top
- Bad: CelesteComposition.messageText is of type Top
- Good: CelesteComposition.morphicWindow is of type { AlignmentMorphBob1 UndefinedObject SystemWindow }
- Good: CelesteComposition.mvcWindow is of type { StandardSystemView UndefinedObject }
- Good: CelesteComposition.attachmentSeparator is of type UndefinedObject
- Good: FancyCelesteComposition.theLinkToInclude is of type { String UndefinedObject }
- Bad: FancyCelesteComposition.to is of type Top
- Bad: FancyCelesteComposition.subject is of type Top
- Good: FancyCelesteComposition.textFields is of type { UndefinedObject Array }

- Good: IndexFile.msgDictionary is of type { PluggableDictionary UndefinedObject }
- Good: IndexFile.logfile is of type { UndefinedObject StandardFileStream }
- Good: IndexFile.timeSortedEntries is of type { UndefinedObject SortedCollection }
- Bad: IndexFileEntry.time is of type Top
- Bad: IndexFileEntry.msgID is of type Top
- Bad: IndexFileEntry.messageFile is of type Top
- Bad: IndexFileEntry.cc is of type Top
- Bad: IndexFileEntry.tocLineCache is of type Top
- Bad: IndexFileEntry.location is of type Top
- Bad: IndexFileEntry.to is of type Top
- Bad: IndexFileEntry.textLength is of type Top
- Bad: IndexFileEntry.subject is of type Top
- Bad: IndexFileEntry.from is of type Top
- Good: MIMEHeaderValue.mainValue is of type { UndefinedObject String Character }
- Good: MIMEHeaderValue.parameters is of type { UndefinedObject Dictionary }
- Bad: MIMEPart.content is of type Top
- Good: MIMEPart.parts is of type { Array UndefinedObject OrderedCollection }
- Bad: MIMEPart.separator is of type Top
- Bad: MIMEPart.text is of type Top
- Good: MIMEPart.fields is of type { UndefinedObject Dictionary }
- Good: MailDB.rootFilename is of type { String UndefinedObject }
- Bad: MailDB.indexFile is of type Top
- Bad: MailDB.messageFile is of type Top
- Bad: MailDB.categoriesFile is of type Top

- Bad: MailDBFile.filename is of type Top
- Bad: MailMessage.time is of type Top
- Bad: MailMessage.separator is of type Top
- Bad: MailMessage.cc is of type Top
- Bad: MailMessage.body is of type Top
- Bad: MailMessage.to is of type Top
- Bad: MailMessage.text is of type Top
- Bad: MailMessage.subject is of type Top
- Good: MailMessage.fields is of type { UndefinedObject Dictionary }
- Bad: MailMessage.from is of type Top
- Good: MailMessage.parts is of type { Array UndefinedObject OrderedCollection }
- Bad: MailNotifier.lastConnectTime is of type Top
- Bad: MailNotifier.messageCount is of type Top
- Good: MailNotifier.password is of type UndefinedObject
- Good: MailNotifier.socket is of type { UndefinedObject POPSocket }
- Good: MessageFile.file is of type { CrLfFileStream UndefinedObject }
- Bad: ReadNewsInboxFile.currentNewsgroup is of type Top
- Good: ReadNewsInboxFile.msgBuffer is of type { UndefinedObject WriteStream }
- Bad: TextMessageLink.message is of type Top
- Bad: RBAssignmentNode.variable is of type Top
- Bad: RBAssignmentNode.assignment is of type Top
- Bad: RBAssignmentNode.value is of type Top
- Good: RBBlockNode.colons is of type { UndefinedObject OrderedCollection }
- Bad: RBBlockNode.bar is of type Top
- Bad: RBBlockNode.right is of type Top
- Bad: RBBlockNode.left is of type Top

- Bad: RBBlockNode.body is of type Top
- Bad: RBBlockNode.arguments is of type Top
- Bad: RBCascadeNode.messages is of type Top
- Good: RBCascadeNode.semicolons is of type { UndefinedObject OrderedCollection }
- Good: RBFormatter.codeStream is of type { UndefinedObject WriteStream }
- Bad: RBFormatter.lineStart is of type Top
- Bad: RBFormatter.firstLineLength is of type Top
- Good: RBFormatter.tabs is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: RBLiteralNode.token is of type Top
- Bad: RBMessageNode.arguments is of type Top
- Bad: RBMessageNode.receiver is of type Top
- Bad: RBMessageNode.selector is of type Top
- Bad: RBMessageNode.selectorParts is of type Top
- Bad: RBMethodNode.tags is of type Top
- Bad: RBMethodNode.selector is of type Top
- Bad: RBMethodNode.selectorParts is of type Top
- Bad: RBMethodNode.body is of type Top
- Bad: RBMethodNode.source is of type Top
- Bad: RBMethodNode.arguments is of type Top
- Bad: RBOptimizedNode.body is of type Top
- Bad: RBOptimizedNode.right is of type Top
- Bad: RBOptimizedNode.left is of type Top
- Good: RBParser.scanner is of type { RBScanner UndefinedObject }
- Bad: RBParser.tags is of type Object++
- Bad: RBParser.source is of type Top
- Good: RBParser.emptyStatements is of type { True UndefinedObject False }

- Good: RBParser.currentToken is of type { RBShortAssignmentToken RBOptimizedToken UndefinedObject RBToken RBPatternBlockToken RBScanner RBLiteralToken RBAssignmentToken RBKeywordToken RBBinarySelectorToken RBIdentifierToken RBSpecialCharacterToken }
- Good: RBParser.negatedNumbers is of type { True UndefinedObject False }
- Good: RBParser.errorBlock is of type { UndefinedObject a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType }
- Bad: RBParser.nextToken is of type Top
- Good: RBPatternMessageNode.isCascadeList is of type { True UndefinedObject False }
- Good: RBPatternMessageNode.isList is of type { True UndefinedObject False }
- Good: RBPatternMethodNode.isList is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.recurseInto is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isLiteral is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isStatement is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isAnything is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isList is of type { True UndefinedObject False }
- Bad: RBProgramNode.parent is of type Top
- Bad: RBProgramNode.comments is of type Top
- Bad: RBReturnNode.return is of type Top
- Bad: RBReturnNode.value is of type Top
- Bad: RBSequenceNode.rightBar is of type Top
- Good: RBSequenceNode.periods is of type { UndefinedObject OrderedCollection }

- Bad: RBSequenceNode.temporaries is of type Top
- Bad: RBSequenceNode.statements is of type Top
- Bad: RBSequenceNode.leftBar is of type Top
- Good: RBValueNode.parentheses is of type { UndefinedObject OrderedCollection }
- Bad: RBVariableNode.token is of type Top
- Bad: ADPCMCodec.index is of type Top
- Good: ADPCMCodec.indexTable is of type { Array UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.deltaSignMask is of type Top
- Bad: ADPCMCodec.bitPosition is of type Top
- Bad: ADPCMCodec.encodedBytes is of type Top
- Good: ADPCMCodec.stepSizeTable is of type { Array UndefinedObject SoundBuffer }
- Good: ADPCMCodec.sampleIndex is of type { SmallInteger LargeNegativeInteger LargePositiveInteger UndefinedObject Array }
- Good: ADPCMCodec.rightSamples is of type { UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.byteIndex is of type Top
- Good: ADPCMCodec.frameSizeMask is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: ADPCMCodec.bitsPerSample is of type Top
- Bad: ADPCMCodec.predicted is of type Top
- Bad: ADPCMCodec.deltaValueHighBit is of type Top
- Bad: ADPCMCodec.deltaValueMask is of type Top
- Bad: ADPCMCodec.currentByte is of type Top
- Bad: ADPCMCodec.samples is of type Top
- Good: AIFFFileReader.channelData is of type { UndefinedObject Array }
- Bad: AIFFFileReader.frameCount is of type Top
- Bad: AIFFFileReader.isLooped is of type Top

- Bad: AIFFFileReader.gain is of type Top
- Bad: AIFFFileReader.in is of type { StandardFileStream HtmlFileStream SwikiPseudoFileStream RemoteFileStream ReadStream CrLfFileStream UndefinedObject }
- Bad: AIFFFileReader.fileType is of type Top
- Bad: AIFFFileReader.pitch is of type Top
- Good: AIFFFileReader.markers is of type { UndefinedObject Array }
- Bad: AIFFFileReader.channelCount is of type Top
- Bad: AIFFFileReader.bitsPerSample is of type Top
- Good: AIFFFileReader.mergeIfStereo is of type { True UndefinedObject False }
- Good: AIFFFileReader.skipDataChunk is of type { True UndefinedObject False }
- Bad: AIFFFileReader.samplingRate is of type { Number++ UndefinedObject }
- Bad: AbstractSound.envelopes is of type Top
- Bad: AbstractSound.mSecsSinceStart is of type Top
- Bad: AbstractSound.scaledVolLimit is of type Top
- Bad: AbstractSound.scaledVol is of type Top
- Bad: AbstractSound.samplesUntilNextControl is of type Top
- Bad: AbstractSound.scaledVolIncr is of type Top
- Good: CompressedSoundData.perceivedPitch is of type { UndefinedObject Float }
- Bad: CompressedSoundData.codecName is of type Top
- Good: CompressedSoundData.channels is of type { UndefinedObject Array }
- Bad: CompressedSoundData.gain is of type Top
- Bad: CompressedSoundData.firstSample is of type Top
- Bad: CompressedSoundData.soundClassName is of type Top
- Bad: CompressedSoundData.cachedSound is of type { WaveletCodec MuLawCodec ADPCMCodec SoundCodec UndefinedObject LoopedSampledSound GSMCodec SampledSound }

- Bad: CompressedSoundData.loopLength is of type Top
- Bad: CompressedSoundData.samplingRate is of type Top
- Bad: CompressedSoundData.loopEnd is of type Top
- Bad: Envelope.target is of type Top
- Bad: Envelope.scale is of type Top
- Good: Envelope.updateSelector is of type { UndefinedObject #pitch: #modulation: #ratio: }
- Bad: Envelope.loopEndMSecs is of type { Magnitude++ UndefinedObject }
- Bad: Envelope.endMSecs is of type Top
- Bad: Envelope.currValue is of type Top
- Bad: Envelope.loopStartIndex is of type Top
- Bad: Envelope.valueIncr is of type Top
- Good: Envelope.noChangesDuringLoop is of type { True UndefinedObject False }
- Bad: Envelope.nextRecomputeTime is of type Top
- Bad: Envelope.loopEndIndex is of type Top
- Bad: Envelope.loopMSecs is of type Top
- Bad: Envelope.loopStartMSecs is of type Top
- Bad: Envelope.decayScale is of type Top
- Bad: Envelope.points is of type Top
- Bad: Envelope.lastValue is of type Top
- Bad: FFT.permTable is of type { SequenceableCollection++ Integer++ UndefinedObject B3DIndexedQuad B3DPrimitiveRasterizerData B3DIndexedTriangle }
- Bad: FFT.nu is of type Top
- Bad: FFT.n is of type Top
- Good: FFT.sinTable is of type { Array UndefinedObject FloatArray }
- Good: FFT.imagData is of type { Array UndefinedObject FloatArray }
- Good: FFT.window is of type { UndefinedObject FloatArray }

- Good: FFT.realData is of type { Array UndefinedObject FloatArray }
- Bad: FMSound.initialCount is of type Top
- Bad: FMSound.multiplier is of type Top
- Bad: FMSound.scaledOffsetIndex is of type Top
- Bad: FMSound.waveTable is of type Top
- Bad: FMSound.scaledWaveTableSize is of type Top
- Bad: FMSound.scaledIndex is of type Top
- Bad: FMSound.normalizedModulation is of type Top
- Bad: FMSound.scaledOffsetIndexIncr is of type Top
- Bad: FMSound.modulation is of type Top
- Bad: FMSound.scaledIndexIncr is of type Top
- Bad: FMSound.count is of type Top
- Good: FWT.transform is of type { UndefinedObject Array }
- Bad: FWT.beta is of type Top
- Good: FWT.gTilde is of type { UndefinedObject Array }
- Good: FWT.coeffs is of type { UndefinedObject Array }
- Good: FWT.g is of type { UndefinedObject Array }
- Bad: FWT.nSamples is of type Top
- Bad: FWT.nLevels is of type Top
- Bad: FWT.alpha is of type Top
- Good: FWT.h is of type { UndefinedObject Array }
- Good: FWT.samples is of type { UndefinedObject Array }
- Good: FWT.hTilde is of type { UndefinedObject Array }
- Bad: GSMCodec.encodeState is of type Top
- Bad: GSMCodec.decodeState is of type Top
- Bad: LoopedSampledSound.initialCount is of type Top
- Bad: LoopedSampledSound.perceivedPitch is of type Top
- Bad: LoopedSampledSound.scaledLoopLength is of type Top

- Bad: LoopedSampledSound.lastSample is of type Top
- Bad: LoopedSampledSound.gain is of type Top
- Bad: LoopedSampledSound.scaledIndexIncr is of type Top
- Bad: LoopedSampledSound.releaseCount is of type Top
- Bad: LoopedSampledSound.firstSample is of type Top
- Bad: LoopedSampledSound.sampleCountForRelease is of type Top
- Bad: LoopedSampledSound.rightSamples is of type Top
- Bad: LoopedSampledSound.leftSamples is of type Top
- Bad: LoopedSampledSound.scaledIndex is of type Top
- Bad: LoopedSampledSound.originalSamplingRate is of type Top
- Bad: LoopedSampledSound.count is of type Top
- Bad: LoopedSampledSound.loopEnd is of type Top
- Good: MixedSound.soundDone is of type { UndefinedObject Array }
- Good: MixedSound.sounds is of type { UndefinedObject Array }
- Good: MixedSound.leftVols is of type { UndefinedObject Array }
- Good: MixedSound.rightVols is of type { UndefinedObject Array }
- Bad: PitchEnvelope.centerPitch is of type Top
- Bad: PluckedSound.initialCount is of type Top
- Good: PluckedSound.ring is of type { UndefinedObject SoundBuffer }
- Bad: PluckedSound.scaledIndexLimit is of type Top
- Bad: PluckedSound.scaledIndex is of type Top
- Bad: PluckedSound.scaledIndexIncr is of type Top
- Bad: PluckedSound.count is of type Top
- Good: RandomEnvelope.rand is of type { Random UndefinedObject }
- Good: RandomEnvelope.highLimit is of type { UndefinedObject Float }
- Good: RandomEnvelope.lowLimit is of type { UndefinedObject Float }
- Good: RandomEnvelope.delta is of type { UndefinedObject Float }
- Bad: RepeatingSound.iteration is of type Top

- Bad: RepeatingSound.iterationCount is of type Top
- Bad: RepeatingSound.sound is of type Top
- Bad: RepeatingSound.samplesPerIteration is of type Top
- Bad: RestSound.initialCount is of type Top
- Bad: RestSound.count is of type Top
- Good: ReverbSound.tapGains is of type { UndefinedObject Bitmap }
- Good: ReverbSound.bufferSize is of type { Bitmap LargeNegativeInteger LargePositiveInteger UndefinedObject SmallInteger }
- Good: ReverbSound.rightBuffer is of type { UndefinedObject SoundBuffer }
- Good: ReverbSound.leftBuffer is of type { UndefinedObject SoundBuffer }
- Good: ReverbSound.tapCount is of type { UndefinedObject SmallInteger }
- Good: ReverbSound.tapDelays is of type { UndefinedObject Bitmap }
- Bad: ReverbSound.bufferIndex is of type Top
- Good: ReverbSound.sound is of type UndefinedObject
- Good: SampledInstrument.sustainedSoft is of type { UndefinedObject Array }
- Good: SampledInstrument.staccatoSoft is of type { UndefinedObject Array }
- Good: SampledInstrument.staccatoLoud is of type { UndefinedObject Array }
- Good: SampledInstrument.sustainedThreshold is of type { UndefinedObject Float }
- Bad: SampledInstrument.sustainedLoud is of type Top
- Good: SampledInstrument.loudThreshold is of type { UndefinedObject Float }
- Bad: SampledSound.initialCount is of type Top
- Bad: SampledSound.samples is of type Top
- Bad: SampledSound.scaledIncrement is of type Top

- Bad: SampledSound.scaledIndex is of type Top
- Bad: SampledSound.indexHighBits is of type Top
- Bad: SampledSound.samplesSize is of type Top
- Bad: SampledSound.originalSamplingRate is of type Top
- Bad: SampledSound.count is of type Top
- Good: SequentialSound.sounds is of type { UndefinedObject Array }
- Good: SequentialSound.currentIndex is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: Sonogram.lastX is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: Sonogram.pixValMap is of type { UndefinedObject Bitmap }
- Good: Sonogram.maxVal is of type { UndefinedObject Float }
- Good: Sonogram.minVal is of type { UndefinedObject Float }
- Good: Sonogram.scrollDelta is of type { UndefinedObject SmallInteger }
- Good: Sonogram.columnForm is of type { Form UndefinedObject }
- Bad: SoundInputStream.mutex is of type Top
- Bad: SoundInputStream.bufferSize is of type Top
- Good: SoundRecorder.currentBuffer is of type { UndefinedObject SoundBuffer }
- Bad: SoundRecorder.recordProcess is of type Top
- Good: SoundRecorder.codec is of type { GSMCodec UndefinedObject }
- Good: SoundRecorder.desiredSampleRate is of type { UndefinedObject Float }
- Bad: SoundRecorder.nextIndex is of type Top
- Good: SoundRecorder.meteringBuffer is of type { UndefinedObject SoundBuffer }
- Bad: SoundRecorder.meterLevel is of type Top
- Good: SoundRecorder.stereo is of type { False UndefinedObject }
- Good: SoundRecorder.recordLevel is of type { UndefinedObject Float }

- Good: SoundRecorder.soundPlaying is of type { SampledSound SequentialSound UndefinedObject ChatRecorder SoundInputStream SoundRecorder }
- Bad: SoundRecorder.recordedBuffers is of type Top
- Good: SoundRecorder.paused is of type { True UndefinedObject False }
- Bad: SoundRecorder.samplingRate is of type Top
- Good: SoundRecorder.recordedSound is of type { SampledSound SequentialSound UndefinedObject ChatRecorder SoundInputStream SoundRecorder }
- Good: SoundRecorder.bufferAvailableSema is of type { Semaphore UndefinedObject }
- Bad: VolumeEnvelope.mSecsForChange is of type { Magnitude++ UndefinedObject }
- Bad: VolumeEnvelope.targetVol is of type Top
- Good: VolumeEnvelope.currentVol is of type UndefinedObject
- Bad: WaveletCodec.alpha is of type Top
- Bad: WaveletCodec.beta is of type Top
- Good: WaveletCodec.fwt is of type { FWT UndefinedObject }
- Bad: WaveletCodec.samplesPerFrame is of type Top
- Bad: WaveletCodec.nLevels is of type Top
- Bad: TestInterfaceBase.duration is of type Top
- Bad: TestInterfaceBase.classPattern is of type Top
- Bad: TestInterfaceBase.result is of type Top
- Bad: TestInterfaceBase.selectorPattern is of type Top
- Good: TestModel.failureList is of type { UndefinedObject OrderedCollection }
- Good: TestModel.patternHistory is of type { UndefinedObject OrderedCollection }
- Good: TestModel.errorList is of type { UndefinedObject OrderedCollection }
- Good: TestModel.summaryText is of type { String UndefinedObject }

- Bad: TestModel.summaryTextM is of type { PluggableTextMorph++ PluggableTextView UndefinedObject }
- Good: TestModel.summaryTextV is of type { PluggableTextView UndefinedObject }
- Good: TestModel.updateColorSelector is of type { UndefinedObject #updateColorM #updateColorV }
- Good: TestModel.patternTextV is of type { PluggableTextView UndefinedObject }
- Bad: TestModel.patternTextM is of type { PluggableTextMorph++ PluggableTextView UndefinedObject }
- Bad: TestModel.detailsText is of type Top
- Bad: Browser.classOrganizer is of type Top
- Bad: Browser.systemOrganizer is of type Top
- Bad: Browser.messageListIndex is of type Top
- Bad: Browser.messageCategoryListIndex is of type Top
- Good: Browser.editSelection is of type { Boolean++ UndefinedObject #hierarchy #editClass #editComment #none #editMessageCategories #newClass #editMessage #newMessage #editSystemCategories #byteCodes }
- Bad: Browser.metaClassOrganizer is of type Top
- Bad: Browser.systemCategoryListIndex is of type Top
- Bad: Browser.metaClassIndicated is of type Top
- Bad: Browser.classListIndex is of type Top
- Bad: ChangedMessageSet.changeSet is of type Top
- Bad: HierarchyBrowser.centralClass is of type Top
- Bad: HierarchyBrowser.classList is of type Top
- Bad: MessageSet.messageList is of type Top
- Bad: MessageSet.autoSelectString is of type Top
- Bad: PackageBrowser.package is of type Top
- Bad: PackageBrowser.packageListIndex is of type Top
- Good: PackageBrowser.packageList is of type UndefinedObject

- Good: ProtocolBrowser.selectedClass is of type UndefinedObject
- Bad: ProtocolBrowser.selectedSelector is of type Top
- Bad: SelectorBrowser.classListIndex is of type Top
- Bad: SelectorBrowser.classList is of type Top
- Bad: SelectorBrowser.selectorIndex is of type Top
- Bad: SelectorBrowser.selectorList is of type Top
- Bad: BitBltSimulation.sy is of type Top
- Bad: BitBltSimulation.halftoneBase is of type Top
- Good: BitBltSimulation.cmBlueShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: BitBltSimulation.destWidth is of type Top
- Bad: BitBltSimulation.destX is of type Top
- Bad: BitBltSimulation.width is of type Top
- Bad: BitBltSimulation.scanString is of type Top
- Bad: BitBltSimulation.sourceBits is of type Top
- Bad: BitBltSimulation.scanStop is of type Top
- Bad: BitBltSimulation.dy is of type Top
- Good: BitBltSimulation.warpBitShiftTable is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.destPixSize is of type Top
- Bad: BitBltSimulation.pixPerWord is of type Top
- Good: BitBltSimulation.ditherValues16 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.cmRedMask is of type Top
- Bad: BitBltSimulation.warpSrcMask is of type Top
- Bad: BitBltSimulation.dstBitShift is of type Top
- Bad: BitBltSimulation.destIndex is of type Top
- Bad: BitBltSimulation.sourceIndex is of type Top
- Bad: BitBltSimulation.clipX is of type Top

- Good: BitBltSimulation.hDir is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.nWords is of type Top
- Bad: BitBltSimulation.clipHeight is of type Top
- Bad: BitBltSimulation.bitBltOop is of type Top
- Bad: BitBltSimulation.preload is of type Top
- Bad: BitBltSimulation.opTable is of type Top
- Bad: BitBltSimulation.sourceForm is of type Top
- Bad: BitBltSimulation.warpAlignMask is of type Top
- Bad: BitBltSimulation.skew is of type Top
- Good: BitBltSimulation.cmDeltaBits is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: BitBltSimulation.ditherMatrix4x4 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.sourceY is of type Top
- Bad: BitBltSimulation.scanStart is of type Top
- Good: BitBltSimulation.cmGreenShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: BitBltSimulation.destBits is of type Top
- Bad: BitBltSimulation.destPitch is of type Top
- Bad: BitBltSimulation.height is of type Top
- Bad: BitBltSimulation.sourcePitch is of type Top
- Bad: BitBltSimulation.destY is of type Top
- Bad: BitBltSimulation.affectedL is of type Top
- Good: BitBltSimulation.maskTable is of type { UndefinedObject Array }
- Good: BitBltSimulation.scanDisplayFlag is of type { True UndefinedObject False }
- Bad: BitBltSimulation.mask1 is of type Top
- Bad: BitBltSimulation.destDelta is of type Top

- Good: BitBltSimulation.noHalftone is of type { True UndefinedObject False }
- Bad: BitBltSimulation.clipWidth is of type Top
- Bad: BitBltSimulation.destForm is of type Top
- Bad: BitBltSimulation.sx is of type Top
- Bad: BitBltSimulation.clipY is of type Top
- Bad: BitBltSimulation.scanRightX is of type Top
- Bad: BitBltSimulation.cmBlueMask is of type Top
- Bad: BitBltSimulation.halftoneHeight is of type Top
- Bad: BitBltSimulation.affectedT is of type Top
- Bad: BitBltSimulation.sourcePixSize is of type Top
- Good: BitBltSimulation.cmRedShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: BitBltSimulation.noSource is of type { True UndefinedObject False }
- Bad: BitBltSimulation.dx is of type Top
- Bad: BitBltSimulation.destMask is of type Top
- Bad: BitBltSimulation.affectedB is of type Top
- Bad: BitBltSimulation.cmGreenMask is of type Top
- Good: BitBltSimulation.hasSurfaceLock is of type { True UndefinedObject False }
- Bad: BitBltSimulation.stopCode is of type Top
- Bad: BitBltSimulation.combinationRule is of type Top
- Bad: BitBltSimulation.bitCount is of type Top
- Good: BitBltSimulation.vDir is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.destHeight is of type Top
- Good: BitBltSimulation.cmBitsPerColor is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.bbH is of type Top

- Bad: BitBltSimulation.bbW is of type Top
- Bad: BitBltSimulation.srcWidth is of type Top
- Bad: BitBltSimulation.affectedR is of type Top
- Good: BitBltSimulation.ditherThresholds16 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.sourceDelta is of type Top
- Good: BitBltSimulation.warpSrcShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: BitBltSimulation.halftoneForm is of type Top
- Bad: BitBltSimulation.mask2 is of type Top
- Bad: BitBltSimulation.scanXTable is of type Top
- Bad: BitBltSimulation.scanStopArray is of type Top
- Bad: BitBltSimulation.sourceAlpha is of type Top
- Bad: BitBltSimulation.colorMap is of type Top
- Good: BitBltSimulation.warpAlignShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: BitBltSimulation.sourceX is of type Top
- Bad: BitBltSimulation.srcBitShift is of type Top
- Bad: BitBltSimulation.srcHeight is of type Top
- Bad: Interpreter.activeContext is of type Top
- Bad: Interpreter.nextWakeupTick is of type Top
- Bad: Interpreter.localIP is of type Top
- Bad: Interpreter.localHomeContext is of type Top
- Good: Interpreter.methodCache is of type { UndefinedObject Array }
- Bad: Interpreter.interruptKeycode is of type Top
- Good: Interpreter.semaphoresToSignalCountA is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: Interpreter.interruptCheckCounterFeedBackReset is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }

- Good: Interpreter.interpreterVersion is of type UndefinedObject
- Good: Interpreter.obsoleteNamedPrimitiveTable is of type { CArrayAccessor UndefinedObject }
- Good: Interpreter.interpreterProxy is of type { UndefinedObject InterpreterSimulator InterpreterSimulatorMSB InterpreterSimulatorLSB }
- Bad: Interpreter.receiver is of type { UndefinedObject InterpreterSimulatorMSB Bitmap InterpreterSimulator Interpreter LargeNegativeInteger InterpreterSimulatorLSB SmallInteger LargePositiveInteger }
- Bad: Interpreter.stackPointer is of type Top
- Bad: Interpreter.receiverClass is of type Top
- Good: Interpreter.obsoleteIndexedPrimitiveTable is of type { CArrayAccessor UndefinedObject }
- Bad: Interpreter.successFlag is of type { BrowserEnvironment++ Boolean++ RBConjunctiveCondition UndefinedObject }
- Good: Interpreter.compilerHooks is of type UndefinedObject
- Bad: Interpreter.fullScreenFlag is of type { Interpreter InterpreterSimulator InterpreterSimulatorLSB UndefinedObject InterpreterSimulatorMSB }
- Bad: Interpreter.primitiveIndex is of type Top
- Good: Interpreter.semaphoresToSignalB is of type { UndefinedObject Array }
- Bad: Interpreter.compilerInitialized is of type Top
- Bad: Interpreter.localSP is of type Top
- Bad: Interpreter.instructionPointer is of type Top
- Good: Interpreter.semaphoresUseBufferA is of type { True UndefinedObject False }
- Good: Interpreter.deferDisplayUpdates is of type { True UndefinedObject False }
- Bad: Interpreter.theHomeContext is of type Top
- Bad: Interpreter.extraVMMemory is of type Top

- Bad: Interpreter.method is of type { UndefinedObject InterpreterSimulatorMSB Bitmap InterpreterSimulator Interpreter LargeNegativeInteger InterpreterSimulatorLSB SmallInteger LargePositiveInteger }
- Good: Interpreter.pendingFinalizationSignals is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: Interpreter.newMethod is of type Top
- Good: Interpreter.semaphoresToSignalA is of type { UndefinedObject Array }
- Bad: Interpreter.methodClass is of type Top
- Bad: Interpreter.newNativeMethod is of type Top
- Good: Interpreter.atCache is of type { UndefinedObject Array }
- Bad: Interpreter.argumentCount is of type Top
- Bad: Interpreter.currentBytecode is of type Top
- Good: Interpreter.interruptPending is of type { False UndefinedObject }
- Good: Interpreter.interruptChecksEveryNms is of type { UndefinedObject SmallInteger }
- Bad: Interpreter.nextPollTick is of type Top
- Bad: Interpreter.lkupClass is of type Top
- Good: Interpreter.reclaimableContextCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: Interpreter.savedWindowSize is of type Top
- Bad: Interpreter.lastTick is of type Top
- Good: Interpreter.semaphoresToSignalCountB is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: Interpreter.messageSelector is of type Top
- Bad: Interpreter.showSurfaceFn is of type Top
- Good: InterpreterSimulator.myBitBlt is of type { False UndefinedObject BitBltSimulator }
- Good: InterpreterSimulator.traceOn is of type { UndefinedObject True }

- Bad: InterpreterSimulator.imageName is of type Top
- Bad: InterpreterSimulator.pluginList is of type Top
- Good: InterpreterSimulator.sendCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: InterpreterSimulator.displayForm is of type { Form UndefinedObject }
- Good: InterpreterSimulator.mappedPluginEntries is of type { UndefinedObject Array }
- Good: InterpreterSimulator.filesOpen is of type { UndefinedObject OrderedCollection }
- Good: InterpreterSimulator.byteCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.signalLowSpace is of type { True UndefinedObject False }
- Bad: ObjectMemory.tenuringThreshold is of type Top
- Bad: ObjectMemory.lastHash is of type Top
- Bad: ObjectMemory.statIncrGCMSecs is of type Top
- Good: ObjectMemory.remapBuffer is of type { UndefinedObject Array }
- Bad: ObjectMemory.trueObj is of type Top
- Bad: ObjectMemory.statFullGCMSecs is of type Top
- Bad: ObjectMemory.freeLargeContexts is of type Top
- Bad: ObjectMemory.lowSpaceThreshold is of type Top
- Bad: ObjectMemory.allocationsBetweenGCs is of type Top
- Good: ObjectMemory.interruptCheckCounter is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: ObjectMemory.freeContexts is of type Top
- Bad: ObjectMemory.compStart is of type Top
- Bad: ObjectMemory.youngStart is of type Top
- Bad: ObjectMemory.compEnd is of type Top
- Bad: ObjectMemory.totalObjectFoundAtStartup is of type Top

- Bad: ObjectMemory.memoryLimit is of type Top
- Bad: ObjectMemory.endOfMemory is of type Top
- Bad: ObjectMemory.specialObjectsOop is of type Top
- Good: ObjectMemory.statFullGCs is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.statTenures is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: ObjectMemory.nilObj is of type Top
- Bad: ObjectMemory.child is of type Top
- Bad: ObjectMemory.fwdTableLast is of type Top
- Bad: ObjectMemory.fwdTableNext is of type Top
- Good: ObjectMemory.rootTableCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.allocationCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: ObjectMemory.falseObj is of type { UndefinedObject InterpreterSimulatorMSB Bitmap InterpreterSimulator Interpreter LargeNegativeInteger InterpreterSimulatorLSB SmallInteger LargePositiveInteger }
- Good: ObjectMemory.remapBufferCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: ObjectMemory.parentField is of type Top
- Bad: ObjectMemory.field is of type Top
- Good: ObjectMemory.memory is of type { Interpreter UndefinedObject InterpreterSimulatorMSB InterpreterSimulatorLSB Bitmap InterpreterSimulator }
- Bad: ObjectMemory.freeBlock is of type Top
- Good: ObjectMemory.statRootTableOverflows is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.rootTable is of type { UndefinedObject Array }
- Good: ObjectMemory.statIncrGCs is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }

- Good: ObjectMemory.displayBits is of type { UndefinedObject SmallInteger }
- Bad: SystemMonitor.vmParameters is of type Top
- Bad: SystemMonitor.gcHighWaterMark is of type Top
- Bad: SystemMonitor.baselineSkip is of type Top
- Bad: SystemMonitor.prevAllocCount is of type Top
- Bad: SystemMonitor.prevDeltaIncrGC is of type Top
- Bad: SystemMonitor.prevMcMiss is of type Top
- Good: SystemMonitor.window is of type { UndefinedObject Rectangle }
- Bad: SystemMonitor.prevDeltaFullGC is of type Top
- Bad: SystemMonitor.prevFullGC is of type Top
- Good: SystemMonitor.valSelectors is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevIncrGC is of type Top
- Bad: SystemMonitor.prevMsClock is of type Top
- Good: SystemMonitor.maxValues is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevAllocRate is of type Top
- Bad: SystemMonitor.gcLowWaterMark is of type Top
- Good: SystemMonitor.labels is of type { UndefinedObject Array }
- Good: SystemMonitor.minValues is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevIcHit is of type Top
- Bad: SystemMonitor.prevMcHit is of type Top
- Good: SystemTracer.hashGenerator is of type { Random UndefinedObject }
- Bad: SystemTracer.maxOop is of type Top
- Good: SystemTracer.map is of type UndefinedObject
- Good: SystemTracer.initialProcess is of type UndefinedObject
- Good: SystemTracer.oopMap is of type { UndefinedObject Array }
- Bad: SystemTracer.specialObjects is of type Top
- Good: SystemTracer.file is of type { CrLfFileStream UndefinedObject }

- Good: SystemTracer.cleaningUp is of type { False UndefinedObject }
- Good: SystemTracer.writeDict is of type { UndefinedObject Dictionary }
- Good: SystemTracer.imageHeaderSize is of type { UndefinedObject SmallInteger }
- Good: SystemTracer.compactClasses is of type { UndefinedObject Array }
- Good: SystemTracer.replacementClasses is of type { UndefinedObject Dictionary }

4.9 Threshold of 4000

- Bad: PDA.recurringEvents is of type Top
- Good: PDA.peopleList is of type { ArrayedCollection++ UndefinedObject }
- Bad: PDA.date is of type Top
- Good: PDA.dateButtonPressed is of type UndefinedObject
- Bad: PDA.allEvents is of type Top
- Bad: PDA.category is of type Top
- Bad: PDA.currentItem is of type Top
- Good: PDA.scheduleList is of type { ArrayedCollection++ UndefinedObject }
- Good: PDA.categoryListIndex is of type UndefinedObject
- Bad: PDA.allPeople is of type Top
- Bad: PDA.scheduleListIndex is of type Top
- Bad: PDA.allToDoItems is of type Top
- Bad: PDA.allNotes is of type Top
- Bad: PDA.notesListIndex is of type Top
- Good: PDA.currentItemSelection is of type UndefinedObject
- Good: PDA.categoryList is of type UndefinedObject
- Good: PDA.toDoList is of type { ArrayedCollection++ UndefinedObject }
- Bad: PDA.toDoListIndex is of type Top

- Bad: PDA.peopleListIndex is of type Top
- Good: PDA.notesList is of type { ArrayedCollection++ UndefinedObject }
- Good: PDA.currentItemText is of type UndefinedObject
- Bad: PDA.userCategories is of type Top
- Good: PDA.viewDescriptionOnly is of type { True UndefinedObject False }
- Bad: PDAChoiceMorph.backgroundColor is of type Top
- Bad: PDAClockMorph.backgroundColor is of type Top
- Bad: PDAEvent.time is of type Top
- Bad: PDAEvent.date is of type Top
- Bad: PDAEvent.duration is of type Top
- Good: PDAEvent.alarm is of type UndefinedObject
- Bad: PDAPerson.name is of type Top
- Good: PDAPerson.address is of type UndefinedObject
- Good: PDAPerson.phone is of type { String UndefinedObject }
- Good: PDAPerson.email is of type { String UndefinedObject }
- Bad: PDARecord.description is of type Top
- Bad: PDARecord.key is of type Top
- Good: PDARecord.otherFields is of type { UndefinedObject Dictionary }
- Good: PDARecurringEvent.recurrence is of type { UndefinedObject #dayOfMonth #dayOfWeek #nthWeekdayOfMonthEachYear #dateOfYear }
- Bad: PDARecurringEvent.firstDate is of type Top
- Bad: PDARecurringEvent.lastDate is of type Top
- Good: PDAToDoItem.deadline is of type UndefinedObject
- Bad: PDAToDoItem.result is of type Top
- Bad: PDAToDoItem.dayDone is of type Top
- Bad: PDAToDoItem.dayPosted is of type Top
- Bad: PDAToDoItem.priority is of type Top

- Bad: IRCChannelInfo.name is of type Top
- Bad: IRCChannelInfo.topic is of type Top
- Good: IRCChannelInfo.subscribers is of type { IdentitySet UndefinedObject }
- Good: IRCChannelInfo.members is of type { Set UndefinedObject }
- Good: IRCChannelInfo.connection is of type { IRCConnection UndefinedObject }
- Good: IRCChannelListBrowser.channelIndex is of type { UndefinedObject SmallInteger }
- Good: IRCChannelListBrowser.channelList is of type { Array UndefinedObject SortedCollection }
- Good: IRCChannelListBrowser.sortCriterion is of type { UndefinedObject #name }
- Good: IRCChannelListBrowser.connection is of type { IRCConnection UndefinedObject }
- Good: IRCChannelObserver.chatText is of type { Text UndefinedObject }
- Good: IRCChannelObserver.channelName is of type UndefinedObject
- Bad: IRCChannelObserver.channel is of type Top
- Good: IRCChannelObserver.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCChannelSummary.name is of type Top
- Bad: IRCChannelSummary.topic is of type Top
- Bad: IRCChannelSummary.numUsers is of type Top
- Good: IRCChannelUsersBrowser.channel is of type { UndefinedObject IRCChannelInfo }
- Good: IRCChannelUsersBrowser.userList is of type { UndefinedObject Array }
- Bad: IRCChannelUsersBrowser.userIndex is of type Top
- Good: IRCConnection.directMessageSubscribers is of type { IdentitySet UndefinedObject }
- Good: IRCConnection.channelListBeingBuilt is of type { UndefinedObject OrderedCollection }

- Good: IRCConnection.protocolMessagesToSend is of type { UndefinedObject OrderedCollection }
- Bad: IRCConnection.sendBuffer is of type Top
- Bad: IRCConnection.server is of type Top
- Good: IRCConnection.motdBeingBuilt is of type { UndefinedObject WriteStream }
- Good: IRCConnection.protocolMessageSubscribers is of type { IdentitySet UndefinedObject }
- Bad: IRCConnection.motd is of type Top
- Bad: IRCConnection.port is of type Top
- Good: IRCConnection.recieveBuffer is of type { String UndefinedObject }
- Good: IRCConnection.socket is of type { Socket UndefinedObject }
- Bad: IRCConnection.userName is of type Top
- Bad: IRCConnection.nick is of type Top
- Good: IRCConnection.channelList is of type { UndefinedObject Array }
- Good: IRCConnection.subscribedChannels is of type { UndefinedObject Dictionary }
- Bad: IRCConnection.fullName is of type Top
- Good: IRCConnection.messagesProcessed is of type { UndefinedObject SmallInteger }
- Good: IRCConnection.consoleText is of type { Text UndefinedObject }
- Bad: IRCDirectMessagesObserver.chatText is of type Top
- Bad: IRCDirectMessagesObserver.talkingTo is of type Top
- Good: IRCDirectMessagesObserver.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCMessage.text is of type Top
- Bad: IRCMessage.sender is of type { SequenceableCollection++ Integer++ UndefinedObject B3DIndexedQuad B3DPrimitiveRasterizerData B3DIndexedTriangle }
- Bad: IRCMessage.recipient is of type Top

- Good: IRCMessagePattern.sender is of type UndefinedObject
- Good: IRCMessagePattern.recipient is of type UndefinedObject
- Good: IRCMessageSet.messages is of type UndefinedObject
- Bad: IRCMorph.userName is of type Top
- Bad: IRCMorph.nick is of type Top
- Bad: IRCMorph.server is of type Top
- Good: IRCMorph.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCMorph.fullName is of type Top
- Good: IRCMorph.messageCollections is of type UndefinedObject
- Bad: IRCMorph.consoleText is of type Top
- Bad: IRCMorph.port is of type Top
- Bad: IRCProtocolMessage.arguments is of type Top
- Good: IRCProtocolMessage.command is of type { UndefinedObject String Character }
- Bad: IRCProtocolMessage.prefix is of type { B3DTexture2Array B3DPrimitiveRasterizerData Integer PointArray CompiledApplescript ByteArray ArrayedCollection SoundBuffer ExternalAddress ShortIntegerArray KlattFrame B3DMaterialColor GraphicSymbol B3DVector3 FlippyArray2 WeakArray Pixmap WordArray B3DVector2Array B3DIndexedQuad B3DVector3Array DescType B3DPrimitiveVertexArray B3DRotation B3DIndexedTriangleArray WordArrayForSegment B3DIndexedQuadArray String B3DPrimitiveLight LargePositiveInteger ComponentInstance StandardSourceFileArray B3DIndexedTriangle FloatArray B3DColor4 OnceOnlyOrderedCollection TranslatedMethod DirectoryEntry Array2D B3DFloatArray AEDesc RunArray Symbol B3DInplaceArray Text Array B3DMaterial B3DRotationArray ApplescriptInstance MappedCollection B3DColor4Array Interval Heap UrlArgumentList SourceFileArray B3DLightAttenuation ShortPointArray B3DVector4 B3DVector2 SequenceableCollection MacExternalData OrderedCollection B3DExponentTable B3DViewingFrustum IntegerArray ShortRunArray SortedCollection Bitmap LinkedList B3DMatrix4x4 Semaphore TextLineInterval LargeNegativeInteger CompiledMethod OSAID UndefinedObject SmallInteger }
- Good: IRCRecipientFilter.recipient is of type UndefinedObject

- Good: CategoriesFile.categories is of type { UndefinedObject Dictionary }
- Bad: Celeste.currentMessages is of type Top
- Good: Celeste.customFilterBlock is of type { UndefinedObject Compiler }
- Bad: Celeste.status is of type Top
- Bad: Celeste.userPassword is of type Top
- Bad: Celeste.currentMsgID is of type Top
- Bad: Celeste.mailDB is of type Top
- Bad: Celeste.currentCategory is of type Top
- Bad: Celeste.lastCategory is of type Top
- Good: Celeste.lastCategoryList is of type UndefinedObject
- Good: Celeste.dateFilter is of type UndefinedObject
- Good: Celeste.currentTOC is of type { Array UndefinedObject OrderedCollection }
- Bad: Celeste.fromFilter is of type Top
- Good: Celeste.formatMessages is of type UndefinedObject
- Good: Celeste.lastCategoryMenu is of type UndefinedObject
- Bad: Celeste.messageTextView is of type { PluggableTextMorph++ PluggableListMorph++ PluggableListView++ SimpleHierarchicalListMorph++ PluggableTextView UndefinedObject }
- Bad: Celeste.subjectFilter is of type Top
- Bad: CelesteComposition.textEditor is of type Top
- Bad: CelesteComposition.celeste is of type Top
- Bad: CelesteComposition.messageText is of type Top
- Good: CelesteComposition.morphicWindow is of type { AlignmentMorphBob1 UndefinedObject SystemWindow }
- Good: CelesteComposition.mvcWindow is of type { StandardSystemView UndefinedObject }
- Good: CelesteComposition.attachmentSeparator is of type UndefinedObject

- Good: FancyCelesteComposition.theLinkToInclude is of type { String UndefinedObject }
- Bad: FancyCelesteComposition.to is of type Top
- Bad: FancyCelesteComposition.subject is of type Top
- Good: FancyCelesteComposition.textFields is of type { UndefinedObject Array }
- Good: IndexFile.msgDictionary is of type { PluggableDictionary UndefinedObject }
- Good: IndexFile.logfile is of type { UndefinedObject StandardFileStream }
- Good: IndexFile.timeSortedEntries is of type { UndefinedObject SortedCollection }
- Bad: IndexFileEntry.time is of type Top
- Bad: IndexFileEntry.msgID is of type Top
- Bad: IndexFileEntry.messageFile is of type Top
- Bad: IndexFileEntry.cc is of type Top
- Bad: IndexFileEntry.tocLineCache is of type { B3DTexture2Array B3DPrimitiveRasterizerData Integer PointArray CompiledApplescript ByteArray ArrayedCollection SoundBuffer ExternalAddress ShortIntegerArray KlattFrame B3DMaterialColor GraphicSymbol B3DVector3 FlippyArray2 WeakArray Pixmap WordArray B3DVector2Array B3DIndexedQuad B3DVector3Array DescType B3DPrimitiveVertexArray B3DRotation B3DIndexedTriangleArray WordArrayForSegment B3DIndexedQuadArray String B3DPrimitiveLight LargePositiveInteger ComponentInstance StandardSourceFileArray B3DIndexedTriangle FloatArray B3DColor4 OnceOnlyOrderedCollection TranslatedMethod DirectoryEntry Array2D B3DFloatArray AEDesc RunArray Symbol B3DInplaceArray Text Array B3DMaterial B3DRotationArray ApplescriptInstance MappedCollection B3DColor4Array Interval Heap UrlArgumentList SourceFileArray B3DLightAttenuation ShortPointArray B3DVector4 B3DVector2 SequenceableCollection MacExternalData OrderedCollection B3DExponentTable B3DViewingFrustum IntegerArray ShortRunArray SortedCollection Bitmap LinkedList B3DMatrix4x4 Semaphore TextLineInterval LargeNegativeInteger CompiledMethod OSAID UndefinedObject SmallInteger }
- Bad: IndexFileEntry.location is of type Top

- Bad: IndexFileEntry.to is of type Top
- Bad: IndexFileEntry.textLength is of type Top
- Bad: IndexFileEntry.subject is of type Top
- Bad: IndexFileEntry.from is of type Top
- Good: MIMEHeaderValue.mainValue is of type { UndefinedObject String Character }
- Good: MIMEHeaderValue.parameters is of type UndefinedObject
- Bad: MIMEPart.content is of type Top
- Good: MIMEPart.parts is of type { Array UndefinedObject OrderedCollection }
- Bad: MIMEPart.separator is of type Top
- Bad: MIMEPart.text is of type Top
- Good: MIMEPart.fields is of type { UndefinedObject Dictionary }
- Bad: MailDB.rootFilename is of type Top
- Bad: MailDB.indexFile is of type Top
- Bad: MailDB.messageFile is of type Top
- Bad: MailDB.categoriesFile is of type Top
- Bad: MailDBFile.filename is of type Top
- Good: MailMessage.time is of type { UndefinedObject SmallInteger }
- Bad: MailMessage.separator is of type Top
- Bad: MailMessage.cc is of type Top
- Good: MailMessage.body is of type { UndefinedObject MIMEDocument }
- Bad: MailMessage.to is of type Top
- Bad: MailMessage.text is of type Top
- Bad: MailMessage.subject is of type Top
- Good: MailMessage.fields is of type { UndefinedObject Dictionary }
- Bad: MailMessage.from is of type Top
- Good: MailMessage.parts is of type { Array UndefinedObject OrderedCollection }

- Bad: MailNotifier.lastConnectTime is of type Top
- Bad: MailNotifier.messageCount is of type Top
- Good: MailNotifier.password is of type UndefinedObject
- Good: MailNotifier.socket is of type { UndefinedObject POPSocket }
- Good: MessageFile.file is of type UndefinedObject
- Bad: ReadNewsInboxFile.currentNewsgroup is of type Top
- Good: ReadNewsInboxFile.msgBuffer is of type { UndefinedObject WriteStream }
- Bad: TextMessageLink.message is of type Top
- Bad: RBAssignmentNode.variable is of type Top
- Bad: RBAssignmentNode.assignment is of type Top
- Bad: RBAssignmentNode.value is of type Top
- Good: RBBlockNode.colons is of type { UndefinedObject OrderedCollection }
- Bad: RBBlockNode.bar is of type Top
- Bad: RBBlockNode.right is of type Top
- Bad: RBBlockNode.left is of type Top
- Bad: RBBlockNode.body is of type Top
- Bad: RBBlockNode.arguments is of type Top
- Bad: RBCascadeNode.messages is of type Top
- Good: RBCascadeNode.semicolons is of type { UndefinedObject OrderedCollection }
- Good: RBFormatter.codeStream is of type { UndefinedObject WriteStream }
- Bad: RBFormatter.lineStart is of type Top
- Bad: RBFormatter.firstLineLength is of type Top
- Good: RBFormatter.tabs is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: RBLiteralNode.token is of type Top
- Bad: RBMessageNode.arguments is of type Top

- Bad: RBMessageNode.receiver is of type Top
- Bad: RBMessageNode.selector is of type Top
- Bad: RBMessageNode.selectorParts is of type Top
- Bad: RBMethodNode.tags is of type Object++
- Bad: RBMethodNode.selector is of type Top
- Bad: RBMethodNode.selectorParts is of type Top
- Bad: RBMethodNode.body is of type Top
- Bad: RBMethodNode.source is of type Top
- Bad: RBMethodNode.arguments is of type Top
- Bad: RBOptimizedNode.body is of type Top
- Bad: RBOptimizedNode.right is of type Top
- Bad: RBOptimizedNode.left is of type Top
- Good: RBParser.scanner is of type { RBScanner UndefinedObject }
- Bad: RBParser.tags is of type Object++
- Bad: RBParser.source is of type Top
- Good: RBParser.emptyStatements is of type { True UndefinedObject False }
- Good: RBParser.currentToken is of type { Boolean++ RBShortAssignmentToken RBOptimizedToken UndefinedObject RBToken RBPatternBlockToken RBScanner RBLiteralToken RBAssignmentToken RBKeywordToken RBBinarySelectorToken RBIdentifierToken RBSpecialCharacterToken }
- Good: RBParser.negatedNumbers is of type { True UndefinedObject False }
- Good: RBParser.errorBlock is of type { UndefinedObject a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType }
- Bad: RBParser.nextToken is of type Top
- Good: RBPatternMessageNode.isCascadeList is of type { True UndefinedObject False }
- Good: RBPatternMessageNode.isList is of type { True UndefinedObject False }

- Good: RBPatternMethodNode.isList is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.recurseInto is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isLiteral is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isStatement is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isAnything is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isList is of type { True UndefinedObject False }
- Bad: RBProgramNode.parent is of type Top
- Bad: RBProgramNode.comments is of type Top
- Bad: RBReturnNode.return is of type Top
- Bad: RBReturnNode.value is of type Top
- Bad: RBSequenceNode.rightBar is of type Top
- Good: RBSequenceNode.periods is of type { UndefinedObject OrderedCollection }
- Bad: RBSequenceNode.temporaries is of type Top
- Bad: RBSequenceNode.statements is of type Top
- Bad: RBSequenceNode.leftBar is of type Top
- Good: RBValueNode.parentheses is of type { UndefinedObject OrderedCollection }
- Good: RBVariableNode.token is of type { RBShortAssignmentToken RBOptimizedToken UndefinedObject RBToken RBPatternBlockToken RBScanner RBLiteralToken RBAssignmentToken RBKeywordToken RBBinarySelectorToken RBIdentifierToken RBSpecialCharacterToken }
- Bad: ADPCMCodec.index is of type Top
- Good: ADPCMCodec.indexTable is of type { Array UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.deltaSignMask is of type Top
- Bad: ADPCMCodec.bitPosition is of type Top

- Bad: ADPCMCodec.encodedBytes is of type Top
- Good: ADPCMCodec.stepSizeTable is of type { Array UndefinedObject SoundBuffer }
- Good: ADPCMCodec.sampleIndex is of type { SmallInteger LargeNegativeInteger LargePositiveInteger UndefinedObject Array }
- Good: ADPCMCodec.rightSamples is of type { UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.byteIndex is of type Top
- Good: ADPCMCodec.frameSizeMask is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: ADPCMCodec.bitsPerSample is of type Top
- Bad: ADPCMCodec.predicted is of type Top
- Bad: ADPCMCodec.deltaValueHighBit is of type Top
- Bad: ADPCMCodec.deltaValueMask is of type Top
- Bad: ADPCMCodec.currentByte is of type Top
- Bad: ADPCMCodec.samples is of type Top
- Good: AIFFFileReader.channelData is of type { UndefinedObject Array }
- Bad: AIFFFileReader.frameCount is of type Top
- Bad: AIFFFileReader.isLooped is of type Top
- Bad: AIFFFileReader.gain is of type Top
- Bad: AIFFFileReader.in is of type { RWBinaryOrTextStream++ FileStream++ ReadStream++ UndefinedObject GZipSurrogateStream DummyStream }
- Bad: AIFFFileReader.fileType is of type Top
- Bad: AIFFFileReader.pitch is of type Top
- Good: AIFFFileReader.markers is of type { UndefinedObject Array }
- Good: AIFFFileReader.channelCount is of type { UndefinedObject SmallInteger }
- Bad: AIFFFileReader.bitsPerSample is of type Top
- Good: AIFFFileReader.mergeIfStereo is of type { True UndefinedObject False }

- Good: AIFFFileReader.skipDataChunk is of type { True UndefinedObject False }
- Bad: AIFFFileReader.samplingRate is of type Top
- Bad: AbstractSound.envelopes is of type Top
- Bad: AbstractSound.mSecsSinceStart is of type Top
- Bad: AbstractSound.scaledVolLimit is of type Top
- Bad: AbstractSound.scaledVol is of type Top
- Bad: AbstractSound.samplesUntilNextControl is of type Top
- Bad: AbstractSound.scaledVolIncr is of type Top
- Bad: CompressedSoundData.perceivedPitch is of type Top
- Bad: CompressedSoundData.codecName is of type Top
- Good: CompressedSoundData.channels is of type { UndefinedObject Array }
- Bad: CompressedSoundData.gain is of type Top
- Bad: CompressedSoundData.firstSample is of type Top
- Bad: CompressedSoundData.soundClassName is of type Top
- Bad: CompressedSoundData.cachedSound is of type { WaveletCodec MuLawCodec ADPCMCodec SoundCodec UndefinedObject LoopedSampledSound GSMCodec SampledSound }
- Bad: CompressedSoundData.loopLength is of type Top
- Bad: CompressedSoundData.samplingRate is of type Top
- Bad: CompressedSoundData.loopEnd is of type Top
- Bad: Envelope.target is of type Top
- Bad: Envelope.scale is of type Top
- Good: Envelope.updateSelector is of type { UndefinedObject #pitch: #modulation: #ratio: }
- Bad: Envelope.loopEndMSecs is of type Top
- Bad: Envelope.endMSecs is of type Top
- Bad: Envelope.currValue is of type Top
- Bad: Envelope.loopStartIndex is of type Top

- Bad: Envelope.valueIncr is of type Top
- Good: Envelope.noChangesDuringLoop is of type { True UndefinedObject False }
- Bad: Envelope.nextRecomputeTime is of type Top
- Bad: Envelope.loopEndIndex is of type Top
- Bad: Envelope.loopMSecs is of type Top
- Bad: Envelope.loopStartMSecs is of type Top
- Bad: Envelope.decayScale is of type Top
- Bad: Envelope.points is of type Top
- Bad: Envelope.lastValue is of type Top
- Bad: FFT.permTable is of type Top
- Bad: FFT.nu is of type Top
- Bad: FFT.n is of type Top
- Good: FFT.sinTable is of type UndefinedObject
- Bad: FFT.imagData is of type Top
- Good: FFT.window is of type { UndefinedObject FloatArray }
- Good: FFT.realData is of type { Array UndefinedObject FloatArray }
- Bad: FMSound.initialCount is of type Top
- Bad: FMSound.multiplier is of type Top
- Bad: FMSound.scaledOffsetIndex is of type Top
- Bad: FMSound.waveTable is of type Top
- Bad: FMSound.scaledWaveTableSize is of type Top
- Bad: FMSound.scaledIndex is of type Top
- Bad: FMSound.normalizedModulation is of type Top
- Bad: FMSound.scaledOffsetIndexIncr is of type Top
- Bad: FMSound.modulation is of type Top
- Bad: FMSound.scaledIndexIncr is of type Top
- Bad: FMSound.count is of type Top

- Good: FWT.transform is of type { UndefinedObject Array }
- Bad: FWT.beta is of type Top
- Good: FWT.gTilde is of type { UndefinedObject Array }
- Good: FWT.coeffs is of type { UndefinedObject Array }
- Good: FWT.g is of type { UndefinedObject Array }
- Bad: FWT.nSamples is of type Top
- Bad: FWT.nLevels is of type Top
- Bad: FWT.alpha is of type Top
- Good: FWT.h is of type { UndefinedObject Array }
- Good: FWT.samples is of type { UndefinedObject Array }
- Good: FWT.hTilde is of type { UndefinedObject Array }
- Bad: GSMCodec.encodeState is of type Top
- Bad: GSMCodec.decodeState is of type Top
- Bad: LoopedSampledSound.initialCount is of type Top
- Good: LoopedSampledSound.perceivedPitch is of type { UndefinedObject Float }
- Bad: LoopedSampledSound.scaledLoopLength is of type Top
- Bad: LoopedSampledSound.lastSample is of type Top
- Bad: LoopedSampledSound.gain is of type Top
- Bad: LoopedSampledSound.scaledIndexIncr is of type Top
- Bad: LoopedSampledSound.releaseCount is of type Top
- Bad: LoopedSampledSound.firstSample is of type Top
- Bad: LoopedSampledSound.sampleCountForRelease is of type Top
- Bad: LoopedSampledSound.rightSamples is of type Top
- Bad: LoopedSampledSound.leftSamples is of type Top
- Bad: LoopedSampledSound.scaledIndex is of type Top
- Bad: LoopedSampledSound.originalSamplingRate is of type Top
- Bad: LoopedSampledSound.count is of type Top

- Bad: LoopedSampledSound.loopEnd is of type Top
- Good: MixedSound.soundDone is of type { UndefinedObject Array }
- Good: MixedSound.sounds is of type { UndefinedObject Array }
- Good: MixedSound.leftVols is of type { UndefinedObject Array }
- Good: MixedSound.rightVols is of type { UndefinedObject Array }
- Bad: PitchEnvelope.centerPitch is of type Top
- Bad: PluckedSound.initialCount is of type Top
- Good: PluckedSound.ring is of type { UndefinedObject SoundBuffer }
- Good: PluckedSound.scaledIndexLimit is of type UndefinedObject
- Bad: PluckedSound.scaledIndex is of type Top
- Bad: PluckedSound.scaledIndexIncr is of type Top
- Bad: PluckedSound.count is of type Top
- Good: RandomEnvelope.rand is of type { Random UndefinedObject }
- Good: RandomEnvelope.highLimit is of type { UndefinedObject Float }
- Good: RandomEnvelope.lowLimit is of type { UndefinedObject Float }
- Good: RandomEnvelope.delta is of type { UndefinedObject Float }
- Bad: RepeatingSound.iteration is of type Top
- Bad: RepeatingSound.iterationCount is of type Top
- Bad: RepeatingSound.sound is of type Top
- Bad: RepeatingSound.samplesPerIteration is of type Top
- Bad: RestSound.initialCount is of type Top
- Bad: RestSound.count is of type Top
- Good: ReverbSound.tapGains is of type { UndefinedObject Bitmap }
- Good: ReverbSound.bufferSize is of type { Bitmap LargeNegativeInteger LargePositiveInteger UndefinedObject SmallInteger }
- Good: ReverbSound.rightBuffer is of type { UndefinedObject SoundBuffer }
- Good: ReverbSound.leftBuffer is of type { UndefinedObject SoundBuffer }

- Good: ReverbSound.tapCount is of type { UndefinedObject SmallInteger }
- Good: ReverbSound.tapDelays is of type { UndefinedObject Bitmap }
- Bad: ReverbSound.bufferIndex is of type Top
- Good: ReverbSound.sound is of type UndefinedObject
- Good: SampledInstrument.sustainedSoft is of type { UndefinedObject Array }
- Good: SampledInstrument.staccatoSoft is of type { UndefinedObject Array }
- Good: SampledInstrument.staccatoLoud is of type { UndefinedObject Array }
- Good: SampledInstrument.sustainedThreshold is of type { UndefinedObject Float }
- Good: SampledInstrument.sustainedLoud is of type { UndefinedObject Array }
- Good: SampledInstrument.loudThreshold is of type { UndefinedObject Float }
- Bad: SampledSound.initialCount is of type Top
- Bad: SampledSound.samples is of type Top
- Bad: SampledSound.scaledIncrement is of type Top
- Bad: SampledSound.scaledIndex is of type Top
- Bad: SampledSound.indexHighBits is of type Top
- Bad: SampledSound.samplesSize is of type Top
- Bad: SampledSound.originalSamplingRate is of type Top
- Bad: SampledSound.count is of type Top
- Good: SequentialSound.sounds is of type { UndefinedObject Array }
- Good: SequentialSound.currentIndex is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: Sonogram.lastX is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: Sonogram.pixValMap is of type { UndefinedObject Bitmap }

- Good: Sonogram.maxVal is of type { UndefinedObject Float }
- Good: Sonogram.minVal is of type { UndefinedObject Float }
- Good: Sonogram.scrollDelta is of type { UndefinedObject SmallInteger }
- Good: Sonogram.columnForm is of type { Form UndefinedObject }
- Bad: SoundInputStream.mutex is of type Top
- Bad: SoundInputStream.bufferSize is of type Top
- Good: SoundRecorder.currentBuffer is of type { UndefinedObject SoundBuffer }
- Bad: SoundRecorder.recordProcess is of type Top
- Good: SoundRecorder.codec is of type { GSMCodec UndefinedObject }
- Good: SoundRecorder.desiredSampleRate is of type { UndefinedObject Float }
- Bad: SoundRecorder.nextIndex is of type Top
- Good: SoundRecorder.meteringBuffer is of type { UndefinedObject SoundBuffer }
- Bad: SoundRecorder.meterLevel is of type Top
- Good: SoundRecorder.stereo is of type { False UndefinedObject }
- Good: SoundRecorder.recordLevel is of type { UndefinedObject Float }
- Good: SoundRecorder.soundPlaying is of type { SampledSound SequentialSound UndefinedObject ChatRecorder SoundInputStream SoundRecorder }
- Bad: SoundRecorder.recordedBuffers is of type Top
- Good: SoundRecorder.paused is of type { True UndefinedObject False }
- Bad: SoundRecorder.samplingRate is of type Top
- Good: SoundRecorder.recordedSound is of type { SampledSound SequentialSound UndefinedObject ChatRecorder SoundInputStream SoundRecorder }
- Good: SoundRecorder.bufferAvailableSema is of type { Semaphore UndefinedObject }
- Bad: VolumeEnvelope.mSecsForChange is of type Top
- Bad: VolumeEnvelope.targetVol is of type Top

- Good: VolumeEnvelope.currentVol is of type UndefinedObject
- Bad: WaveletCodec.alpha is of type Top
- Bad: WaveletCodec.beta is of type Top
- Good: WaveletCodec.fwt is of type { FWT UndefinedObject }
- Bad: WaveletCodec.samplesPerFrame is of type Top
- Bad: WaveletCodec.nLevels is of type Top
- Bad: TestInterfaceBase.duration is of type Top
- Bad: TestInterfaceBase.classPattern is of type Top
- Bad: TestInterfaceBase.result is of type Top
- Bad: TestInterfaceBase.selectorPattern is of type Top
- Good: TestModel.failureList is of type { UndefinedObject OrderedCollection }
- Good: TestModel.patternHistory is of type { UndefinedObject OrderedCollection }
- Good: TestModel.errorList is of type { UndefinedObject OrderedCollection }
- Good: TestModel.summaryText is of type { String UndefinedObject }
- Bad: TestModel.summaryTextM is of type { PluggableTextMorph++ PluggableTextView UndefinedObject }
- Good: TestModel.summaryTextV is of type { PluggableTextView UndefinedObject }
- Good: TestModel.updateColorSelector is of type { UndefinedObject #updateColorM #updateColorV }
- Good: TestModel.patternTextV is of type { PluggableTextView UndefinedObject }
- Bad: TestModel.patternTextM is of type { PluggableTextMorph++ PluggableTextView UndefinedObject }
- Bad: TestModel.detailsText is of type Top
- Bad: Browser.classOrganizer is of type Top
- Bad: Browser.systemOrganizer is of type Top
- Bad: Browser.messageListIndex is of type Top

- Bad: Browser.messageCategoryListIndex is of type Top
- Good: Browser.editSelection is of type { Boolean++ UndefinedObject #hierarchy #editClass #editComment #none #editMessageCategories #newClass #editMessage #newMessage #editSystemCategories #byteCodes }
- Bad: Browser.metaClassOrganizer is of type Top
- Bad: Browser.systemCategoryListIndex is of type Top
- Bad: Browser.metaClassIndicated is of type Top
- Bad: Browser.classListIndex is of type Top
- Bad: ChangedMessageSet.changeSet is of type Top
- Bad: HierarchyBrowser.centralClass is of type Top
- Bad: HierarchyBrowser.classList is of type Top
- Bad: MessageSet.messageList is of type Top
- Bad: MessageSet.autoSelectString is of type Top
- Bad: PackageBrowser.package is of type Top
- Bad: PackageBrowser.packageListIndex is of type Top
- Good: PackageBrowser.packageList is of type UndefinedObject
- Good: ProtocolBrowser.selectedClass is of type UndefinedObject
- Bad: ProtocolBrowser.selectedSelector is of type Top
- Bad: SelectorBrowser.classListIndex is of type Top
- Bad: SelectorBrowser.classList is of type Top
- Bad: SelectorBrowser.selectorIndex is of type Top
- Bad: SelectorBrowser.selectorList is of type Top
- Bad: BitBltSimulation.sy is of type Top
- Bad: BitBltSimulation.halftoneBase is of type Top
- Good: BitBltSimulation.cmBlueShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: BitBltSimulation.destWidth is of type Top
- Bad: BitBltSimulation.destX is of type Top
- Bad: BitBltSimulation.width is of type Top

- Bad: BitBltSimulation.scanString is of type Top
- Bad: BitBltSimulation.sourceBits is of type Top
- Bad: BitBltSimulation.scanStop is of type Top
- Bad: BitBltSimulation.dy is of type Top
- Good: BitBltSimulation.warpBitShiftTable is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.destPixSize is of type Top
- Bad: BitBltSimulation.pixPerWord is of type Top
- Good: BitBltSimulation.ditherValues16 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.cmRedMask is of type Top
- Bad: BitBltSimulation.warpSrcMask is of type Top
- Bad: BitBltSimulation.dstBitShift is of type Top
- Bad: BitBltSimulation.destIndex is of type Top
- Bad: BitBltSimulation.sourceIndex is of type Top
- Bad: BitBltSimulation.clipX is of type Top
- Good: BitBltSimulation.hDir is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.nWords is of type Top
- Bad: BitBltSimulation.clipHeight is of type Top
- Bad: BitBltSimulation.bitBltOop is of type Top
- Bad: BitBltSimulation.preload is of type Top
- Bad: BitBltSimulation.opTable is of type Top
- Bad: BitBltSimulation.sourceForm is of type Top
- Bad: BitBltSimulation.warpAlignMask is of type Top
- Bad: BitBltSimulation.skew is of type Top
- Good: BitBltSimulation.cmDeltaBits is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: BitBltSimulation.ditherMatrix4x4 is of type { CArrayAccessor UndefinedObject }

- Bad: BitBltSimulation.sourceY is of type Top
- Bad: BitBltSimulation.scanStart is of type Top
- Good: BitBltSimulation.cmGreenShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: BitBltSimulation.destBits is of type Top
- Bad: BitBltSimulation.destPitch is of type Top
- Bad: BitBltSimulation.height is of type Top
- Bad: BitBltSimulation.sourcePitch is of type Top
- Bad: BitBltSimulation.destY is of type Top
- Bad: BitBltSimulation.affectedL is of type Top
- Good: BitBltSimulation.maskTable is of type { UndefinedObject Array }
- Good: BitBltSimulation.scanDisplayFlag is of type { True UndefinedObject False }
- Bad: BitBltSimulation.mask1 is of type Top
- Bad: BitBltSimulation.destDelta is of type Top
- Good: BitBltSimulation.noHalftone is of type { True UndefinedObject False }
- Bad: BitBltSimulation.clipWidth is of type Top
- Bad: BitBltSimulation.destForm is of type Top
- Bad: BitBltSimulation.sx is of type Top
- Bad: BitBltSimulation.clipY is of type Top
- Bad: BitBltSimulation.scanRightX is of type Top
- Bad: BitBltSimulation.cmBlueMask is of type Top
- Bad: BitBltSimulation.halftoneHeight is of type Top
- Bad: BitBltSimulation.affectedT is of type Top
- Bad: BitBltSimulation.sourcePixSize is of type Top
- Good: BitBltSimulation.cmRedShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: BitBltSimulation.noSource is of type { True UndefinedObject False }

- Bad: BitBltSimulation.dx is of type Top
- Bad: BitBltSimulation.destMask is of type Top
- Bad: BitBltSimulation.affectedB is of type Top
- Bad: BitBltSimulation.cmGreenMask is of type Top
- Good: BitBltSimulation.hasSurfaceLock is of type { True UndefinedObject False }
- Bad: BitBltSimulation.stopCode is of type Top
- Bad: BitBltSimulation.combinationRule is of type Top
- Bad: BitBltSimulation.bitCount is of type Top
- Good: BitBltSimulation.vDir is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.destHeight is of type Top
- Good: BitBltSimulation.cmBitsPerColor is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.bbH is of type Top
- Bad: BitBltSimulation.bbW is of type Top
- Bad: BitBltSimulation.srcWidth is of type Top
- Bad: BitBltSimulation.affectedR is of type Top
- Good: BitBltSimulation.ditherThresholds16 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.sourceDelta is of type Top
- Good: BitBltSimulation.warpSrcShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: BitBltSimulation.halftoneForm is of type Top
- Bad: BitBltSimulation.mask2 is of type Top
- Bad: BitBltSimulation.scanXTable is of type Top
- Bad: BitBltSimulation.scanStopArray is of type Top
- Bad: BitBltSimulation.sourceAlpha is of type Top
- Bad: BitBltSimulation.colorMap is of type Top

- Good: BitBltSimulation.warpAlignShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: BitBltSimulation.sourceX is of type Top
- Bad: BitBltSimulation.srcBitShift is of type Top
- Bad: BitBltSimulation.srcHeight is of type Top
- Bad: Interpreter.activeContext is of type Top
- Bad: Interpreter.nextWakeupTick is of type Top
- Bad: Interpreter.localIP is of type Top
- Bad: Interpreter.localHomeContext is of type Top
- Good: Interpreter.methodCache is of type { UndefinedObject Array }
- Bad: Interpreter.interruptKeycode is of type Top
- Good: Interpreter.semaphoresToSignalCountA is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: Interpreter.interruptCheckCounterFeedBackReset is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: Interpreter.interpreterVersion is of type UndefinedObject
- Good: Interpreter.obsoleteNamedPrimitiveTable is of type { CArrayAccessor UndefinedObject }
- Good: Interpreter.interpreterProxy is of type { UndefinedObject InterpreterSimulator InterpreterSimulatorMSB InterpreterSimulatorLSB }
- Bad: Interpreter.receiver is of type { UndefinedObject InterpreterSimulatorMSB Bitmap InterpreterSimulator Interpreter LargeNegativeInteger InterpreterSimulatorLSB SmallInteger LargePositiveInteger }
- Bad: Interpreter.stackPointer is of type Top
- Bad: Interpreter.receiverClass is of type Top
- Good: Interpreter.obsoleteIndexedPrimitiveTable is of type { CArrayAccessor UndefinedObject }
- Bad: Interpreter.successFlag is of type Top
- Good: Interpreter.compilerHooks is of type UndefinedObject

- Bad: Interpreter.fullScreenFlag is of type { Interpreter InterpreterSimulator InterpreterSimulatorLSB UndefinedObject InterpreterSimulatorMSB }
- Bad: Interpreter.primitiveIndex is of type Top
- Good: Interpreter.semaphoresToSignalB is of type { UndefinedObject Array }
- Bad: Interpreter.compilerInitialized is of type Top
- Bad: Interpreter.localSP is of type Top
- Bad: Interpreter.instructionPointer is of type Top
- Good: Interpreter.semaphoresUseBufferA is of type { True UndefinedObject False }
- Good: Interpreter.deferDisplayUpdates is of type { True UndefinedObject False }
- Bad: Interpreter.theHomeContext is of type Top
- Bad: Interpreter.extraVMMemory is of type Top
- Bad: Interpreter.method is of type Top
- Good: Interpreter.pendingFinalizationSignals is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: Interpreter.newMethod is of type Top
- Good: Interpreter.semaphoresToSignalA is of type { UndefinedObject Array }
- Bad: Interpreter.methodClass is of type Top
- Bad: Interpreter.newNativeMethod is of type Top
- Good: Interpreter.atCache is of type { UndefinedObject Array }
- Bad: Interpreter.argumentCount is of type Top
- Bad: Interpreter.currentBytecode is of type Top
- Good: Interpreter.interruptPending is of type { False UndefinedObject }
- Good: Interpreter.interruptChecksEveryNms is of type { UndefinedObject SmallInteger }
- Bad: Interpreter.nextPollTick is of type Top

- Bad: Interpreter.lkupClass is of type Top
- Good: Interpreter.reclaimableContextCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: Interpreter.savedWindowSize is of type Top
- Bad: Interpreter.lastTick is of type Top
- Good: Interpreter.semaphoresToSignalCountB is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: Interpreter.messageSelector is of type Top
- Bad: Interpreter.showSurfaceFn is of type Top
- Good: InterpreterSimulator.myBitBlt is of type { False UndefinedObject BitBltSimulator }
- Good: InterpreterSimulator.traceOn is of type { UndefinedObject True }
- Bad: InterpreterSimulator.imageName is of type Top
- Bad: InterpreterSimulator.pluginList is of type Top
- Good: InterpreterSimulator.sendCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: InterpreterSimulator.displayForm is of type { Form UndefinedObject }
- Good: InterpreterSimulator.mappedPluginEntries is of type { UndefinedObject Array }
- Good: InterpreterSimulator.filesOpen is of type { UndefinedObject OrderedCollection }
- Good: InterpreterSimulator.byteCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.signalLowSpace is of type { True UndefinedObject False }
- Bad: ObjectMemory.tenuringThreshold is of type Top
- Bad: ObjectMemory.lastHash is of type Top
- Bad: ObjectMemory.statIncrGCMSecs is of type Top
- Good: ObjectMemory.remapBuffer is of type { UndefinedObject Array }

- Bad: ObjectMemory.trueObj is of type Top
- Bad: ObjectMemory.statFullGCMSecs is of type Top
- Bad: ObjectMemory.freeLargeContexts is of type Top
- Bad: ObjectMemory.lowSpaceThreshold is of type Top
- Bad: ObjectMemory.allocationsBetweenGCs is of type Top
- Good: ObjectMemory.interruptCheckCounter is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: ObjectMemory.freeContexts is of type Top
- Bad: ObjectMemory.compStart is of type Top
- Bad: ObjectMemory.youngStart is of type Top
- Bad: ObjectMemory.compEnd is of type Top
- Bad: ObjectMemory.totalObjectFoundAtStartup is of type Top
- Bad: ObjectMemory.memoryLimit is of type Top
- Bad: ObjectMemory.endOfMemory is of type Top
- Bad: ObjectMemory.specialObjectsOop is of type Top
- Good: ObjectMemory.statFullGCs is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.statTenures is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.nilObj is of type UndefinedObject
- Bad: ObjectMemory.child is of type Top
- Bad: ObjectMemory.fwdTableLast is of type Top
- Bad: ObjectMemory.fwdTableNext is of type Top
- Good: ObjectMemory.rootTableCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.allocationCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: ObjectMemory.falseObj is of type Top
- Good: ObjectMemory.remapBufferCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }

- Bad: ObjectMemory.parentField is of type Top
- Bad: ObjectMemory.field is of type Top
- Good: ObjectMemory.memory is of type { Interpreter UndefinedObject InterpreterSimulatorMSB InterpreterSimulatorLSB Bitmap InterpreterSimulator }
- Bad: ObjectMemory.freeBlock is of type Top
- Good: ObjectMemory.statRootTableOverflows is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.rootTable is of type { UndefinedObject Array }
- Good: ObjectMemory.statIncrGCs is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.displayBits is of type { UndefinedObject SmallInteger }
- Bad: SystemMonitor.vmParameters is of type Top
- Bad: SystemMonitor.gcHighWaterMark is of type Top
- Bad: SystemMonitor.baselineSkip is of type Top
- Bad: SystemMonitor.prevAllocCount is of type Top
- Bad: SystemMonitor.prevDeltaIncrGC is of type Top
- Bad: SystemMonitor.prevMcMiss is of type Top
- Good: SystemMonitor.window is of type { UndefinedObject Rectangle }
- Bad: SystemMonitor.prevDeltaFullGC is of type Top
- Bad: SystemMonitor.prevFullGC is of type Top
- Good: SystemMonitor.valSelectors is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevIncrGC is of type Top
- Bad: SystemMonitor.prevMsClock is of type Top
- Good: SystemMonitor.maxValues is of type { UndefinedObject Array }
- Good: SystemMonitor.prevAllocRate is of type { UndefinedObject SmallInteger }
- Bad: SystemMonitor.gcLowWaterMark is of type Top
- Good: SystemMonitor.labels is of type { UndefinedObject Array }

- Good: SystemMonitor.minValues is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevIcHit is of type Top
- Bad: SystemMonitor.prevMcHit is of type Top
- Good: SystemTracer.hashGenerator is of type { Random UndefinedObject }
- Bad: SystemTracer.maxOop is of type Top
- Good: SystemTracer.map is of type UndefinedObject
- Good: SystemTracer.initialProcess is of type UndefinedObject
- Good: SystemTracer.oopMap is of type { UndefinedObject Array }
- Bad: SystemTracer.specialObjects is of type Top
- Good: SystemTracer.file is of type { CrLfFileStream UndefinedObject }
- Good: SystemTracer.cleaningUp is of type { False UndefinedObject }
- Good: SystemTracer.writeDict is of type { UndefinedObject Dictionary }
- Good: SystemTracer.imageHeaderSize is of type { UndefinedObject SmallInteger }
- Good: SystemTracer.compactClasses is of type { UndefinedObject Array }
- Good: SystemTracer.replacementClasses is of type { UndefinedObject Dictionary }
- Good: ChineseCheckerPiece.myBoard is of type { ChineseCheckers UndefinedObject }
- Bad: ChineseCheckerPiece.boardLoc is of type Top
- Good: ChineseCheckers.movePhase is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ChineseCheckers.board is of type { UndefinedObject Array }
- Good: ChineseCheckers.plannedMovePhase is of type UndefinedObject
- Good: ChineseCheckers.sixDeltas is of type { UndefinedObject Array }
- Bad: ChineseCheckers.plannedMove is of type Top
- Bad: ChineseCheckers.whoseMove is of type Top
- Bad: ChineseCheckers.teams is of type Top

- Good: ChineseCheckers.colors is of type { UndefinedObject Array }
- Good: ChineseCheckers.homes is of type { UndefinedObject Array }
- Good: ChineseCheckers.animateMoves is of type { True UndefinedObject False }
- Good: ChineseCheckers.pathMorphs is of type { UndefinedObject OrderedCollection }
- Good: ChineseCheckers.autoPlay is of type { UndefinedObject Array }
- Bad: CipherPanel.originalMorphs is of type { ContextPart class++ EPSCanvas ChangeSorter FlashBoundaryShape FormHolderView B3DColor4 NebraskaNavigationMorph TTSampleStringMorph Arc GIFReadWriter IRCChannelObserver ParameterTypeGoal FillInTheBlankView UnixFileDirectory CautiousModel HtmlInput LucidVariableExpression BasicButton UnionType FillStyle AbstractVariablesRefactoring MorphicTransform AddClassRefactoring NullEncoder MorphWorldView TempoEvent B3DLightAttenuation RemoveInstanceVariableChange InlineMethodRefactoring LineSegment RBLiteralNode TelnetMachine RBSpecialCharacterToken BooklikeMorph EToyCommunicatorMorph VRMLClassNode LucidMessage Matrix2x3Plugin MacFileDirectory RemoteFileStream ReadOnlyTextController LucidRegularClassCode WonderlandActor2 AbstractHierarchicalList Set MidiPrimTester PWS LucidLocalSymbolTable LucidVariable ScriptingDomain SmallIntegerArithmeticPrimitive B3DPrimitiveEdge SubclassOfClassToRename TransferMorph B3DFillList PlayerReferenceReadout HtmlOrderedList CodeServer FlashSpriteMorph UndoColorChange FontCache POEdgeList Bezier3Segment FooPlugin2 SimpleNeverFailingPrimitive ParagraphEditor HtmlNoEmbed LedTimerMorph B3DHardwareEngine SequentialSound SketchEditorMorph UnscriptedPlayer ShortRunArray WeakArray RecentMessageSet B3DDisplayScreen WonderlandWrapperMorph RemoveMethodRefactoring VariableEnvironmentTest SlotInformation B3DMatrix4x4 ProgressMorph RBAssignmentToken TabbedPalette MVCWiWPasteUpMorph VoiceEvent NebraskaServerMorph VeryPickyMorph RBAssignmentNode EToyChatOrBadgeMorph PluggableCodeGenerator GeePrinterPage CollapsedMorph Metaclass LucidClassCode Morph AbstractClassVariableRefactoring CanvasCharacterScanner KeyboardEvent FlashThumbnailMorph Viewer FlashColorTransform WeakValueDictionary FreeTranslation LucidRespondersGoal LTLiteral TabSorterMorph TextContainer StringMorph StringSocket StandardViewer AddPoolVariableChange B3DSimulRasterizer ClassCategoryReader PrettyTextDiffBuilder MixedSound RBToken FormView ExternalType B3DVector2 B3DPrimitiveTransformer CObjectAccessor LucidInverseTypeGoal

SampledInstrument PullUpInstanceVariableRefactoring B3DViewport ColorPatchCanvas B3DTexture ChatPage ScorePlayer B3DPickerEngine GesturalEvent PostscriptCanvas FuddyDudd Array2D LTSelf TalkGesturalEvent FileStream AttributedTextStream Hierarchical MoveVariableDefinitionTest AliceCamera FancyCelesteComposition WonderlandEditorTabs ByteEncoder HtmlForm CreateAccessorsForVariableRefactoring FlattenEncoder ExternalFunction Pen VRMLCompositeNode LTComment RadioButtonSetInput B3DVector3Array UndoParentChange BlockSimulation ProjectView B3DEnginePart LucidLiteralExpression MatrixTransformMorph MIDIPianoKeyboardMorph RemoteControlledHandMorph B3DSceneMorph LargePositiveInteger ChangeList VRMLProtoNode EToyMorphsWelcomeMorph MorphicAlarm AddClassChange HTMLformatter StringHolderView ComponentInstance MultiResolutionCanvas CodecDemoMorph ListItemWrapper FormEditor HtmlBoldEntity B3DSimpleMeshVertex WonderlandUndoStack CrosticPanel WordGameLetterMorph Win32Point POTriangle LucidExpression PluggableListView TextDoIt B3DInplaceArray MimeConverter IllegalResumeAttempt GesturalVoice TextLink DropDownChoiceMorph TemporaryToInstanceVariableTest PrimitiveTestCase RBNamespace ControlManager InterpreterProxy LiteralDictionary LimitingLineStreamWrapper TempVariableNode FFITester DamageRecorder ZipWriteStream InlineMethodTest RBFormatter FreeCellStatistics ArrayedCollection LucidSuperExpression HtmlStyle ScriptableButton MethodMorph FormMenuController RBVariableNode PhonemeSet MailInboxFile StoreEncoder SymbolTablePool HtmlAnchor PositionableStream IntegerPokerPlugin ThumbnailMorph MethodSimulation PluggableListMorph AuthorizedWriteSwiki BorderedMorph WriteStream AsyncFile EmphasizedMenu HtmlArea ColorSeerTile RefactoryVariableChange InflateStream ZLibWriteStream B3DVertexClipper Workspace ParseTreeLintRule IdentityDictionary KeyWordNode AliceNamespace B3DPrimitiveClipper RBPatternVariableNode Debugger Component1 MorphExtension AddInstanceVariableTest OSAID PluggableTextView Association ClassBuilder FillInTheBlank ReceiverAndSelector Decompiler EtoyUpdatingThreePhaseButtonMorph AddParameterTest SmalllintChecker SameGameTile SoundEventMorph AliceActor MIMEDocument HtmlFontEntity B3DFloatArray TTCompositeGlyph TextPlusJumpEnd TextFontReference UndoPositionChange RBParser HtmlParser EmbeddedServerAction GeeMailMorph B3DHardwareRasterizer HtmlBiggerFontEntity B3DMultiMesh MatrixTransform2x3 TransformationRule PinMorph MethodDictionary SmalltalkEnvironment WonderlandMesh AlansTextPlusMorph POObject UserInputEvent TGoToNode RenameInstanceVariableRefactoring ColorForm LucidSelfExpression MenuLineMorph EnvelopeEditorMorph SoundPlugin

RemoveClassRefactoring ClippingCanvas RBClassTest
MorphicEventEncoder Phoneme ObjectViewer CosineInterpolator
MultiuserTinyPaint B3DMaterial StrikeFont LucidKeywordMessage
PluggableMessageCategoryListMorph B3DRotationArray
InstantiationPrimitive LucidBlockReturnFlowGoal TextOnCurve
ColorMap ZoomAndScrollControllerMorph MessageSet
LucidBinaryMessage Time B3DCamera PluggableDictionary
StandardFileStream ActiveSwikiAction MorphicModel ServerAction
EyeMorph BackgroundMorph MouseOverMorph MorphicEvent
FlashShapeMorph EventRecorderMorph LargeIntegersPlugin
TextStream SelfOfMethodFlowPosition WonderlandActorViewer
ExternalScreen LimitedWriteStream AliceScheduler
TTFontTableDirEntry SimpleHierarchicalListMorph
StandardSystemView PushDownClassVariableTest RBBlockReplaceRule
DummyStream FilePluginSimulator Week FlashFileReader
SelectorEnvironmentBrowser SocketPlugin LTCloseBracket
ImageSegmentRootStub LTOpenBracket PianoKeyboardMorph Flipper
ClassConeType SmallIntegerComparisonPrimitive
ExtractMethodRefactoring RecordingControlsMorph
CompositeTransform TranslucentColor PlayWithMe1 RBParseTreeRule
AlwaysFailingPrimitive AcornFileDirectory RBKeywordToken DescType
SurfacePlugin MessageAsTempNode RemoveClassVariableTest
LiteralSimulation FunctionComponent SinglePlugServerAction LintRule
LucidCompiler SoundInputStream IndexTabs FTPSocket ZipEncoder
Preferences ObjectRepresentativeMorph Speaker AliceScript Notification
ConstantPoolTest RenameMethodTest AAATIREADME
StringReadoutTile IRCChannelUsersBrowser LucidClassVarSymbolTable
AddParameterRefactoring EUBlock ParallelAnimation PDA
SmartRefStream CurveMorph MouseActionIndicatorMorph
AliceUndoAnimation SwikiPage SampledSound InterpreterPlugin
Win32HGDIObj MoveVariableDefinitionRefactoring WonderlandActor12
Circle HtmlStrikeEntity MorphThumbnail HierarchicalUrl
FlashTextMorph B3DSceneObject ChineseCheckers
CreateAccessorsForVariableTest TTFontReader HtmlTableRow
HtmlUnderlineEntity CArrayAccessor TableLayoutProperties FMSound
DoCommandOnceMorph B3DAmbientLight IconicButton
WiWPasteUpMorph RBNamespaceTest IntegerArray LTThisContext
SorterTokenMorph ProgressNotification SoundReadoutTile
PoolVariableFlowPosition ParsedCodePoolTestCase Model FilePackage
InstanceVariableTypeSlot RefactoringBrowserTest HtmlBlockQuote
RandomEnvelope LintDialog SerialPlugin DECTalkReader
HtmlTableDataItem HtmlParagraph SwikiAction
ExtractToTemporaryTest PhonemeRecord HtmlBreak
SoundCodecPlugin LucidFlowGoal AutoStart RBMessageNode
PlayWithMe3 MethodNode TextPlusJumpStart LTColonWord
StackMorph CachingMorph RenameInstanceVariableChange

BalloonRectangleMorph WonderlandStyle WonderlandActor7 FtpUrl Month Symbol RunArray Button HtmlUnorderedList Canvas WonderlandActor10 TransferMorphLineAnimation ThreeDSChunkDescription LTSemicolon RenderingSwikiAction HTTPSocket GraphMorph ScrollPane TextMorphForEditView SequentialAnimation MarqueeMorph VRMLStandardNode PaintBoxColorPicker RBBlockNode SimpleSliderMorph B3DSimpleMesh ComponentLayout TransitionMorph ViewerFlapTab ObjectExplorerWrapper SimpleClientSocket TIContext ConnectionQueue B3DActiveEdgeTable ServerDirectory AddMethodRefactoring VRMLWriter SystemTracer MethodContext CompiledMethod Socket FWT RBCascadeNode TCaseStmtNode SendTypeSlot UndoAction B3DShaderPlugin HtmlOptionGroup HeadingMorph SpectrumAnalyzerMorph Float ExternalLibrary Phrase WonderlandPositionalLight EventModel ExtractMethodToComponentTest StandardSystemController LucidUnaryMessage ObjectExplorer LinearFit LoopbackStringSocket RenameVariableChange SymbolListTile Command UnaryFloatPrimitive GeeBookPageMorph InterpreterSupportCode HtmlEmbedded FormSetFont TextKern SameGameBoard BOBTransformationMorph Inspector WonderlandQuickReference BlockContext BinaryFloatPrimitive B3DPrimitiveLight IRCChannelSummary RemoveMethodTest InflatePlugin TSendNode LessHTMLformatter B3DPrimitiveEdgeList ComponentLikeModel ClassEnvironment RenameClassChange ReturnReceiverPrimitive LucidMethodReturnFlowGoal ChangeListForProjects X11Window SoundDemoMorph CharacterScanner PullUpClassVariableRefactoring PostscriptCharacterScanner PerformTypeSlot WeakSet MidiInputMorph FileDirectory DeepCopier SimpleButtonMorph ProtocolEnvironment EllipseMorph WonderlandActor9 PlayingCard WonderlandCameraMorph PluggableListViewOfMany BlockArgsNode LucidMessageExpression RulerMorph TestResult TextOnCurveContainer SmalltalkInterchangeSqueakFileInManager WorldWindow HtmlDefinitionDefinition TransformationB2Morph PNGReadWriter LocalVariableTypeSlot PseudoClassOrganizer LucidDeadEndFlowGoal MenuItemMorph ZipEncoderNode PrintableEncoder UndoShowHide WonderlandVerifier CompositeVoice ProjectController UndoSizeChange FlashPlayerModel RenderedSwikiAction MouseButtonEvent RemoveInstanceVariableRefactoring HtmlHorizontalRule HiddenInput KlattSegmentParameter Url TestOSAPlugin LucidMethodSpecification LucidSendersGoal EToyFridgeMorph BufferedCanvas Win32Handle FastInflateStream PSwikiAction LTSuper NebraskaDebug KlattSynthesizer CommandHistory PerfectTypeGoal ListComponent ExternalObject SimplerTextContainer Bag ZoomAndScrollMorph LucidMethodSpecificationTestCase ShortPointArray PitchEnvelope MoodGesturalEvent FloatTruncatedPrimitive TestCClass3

B3DPrimitiveObject NewParagraph ContextlessVariableFlowPosition HtmlTable MethodTypeGoal DisplayMedium ReadStream FillInTheBlankMorph PluggableListViewByItem RefactoringWarning VRMLUnhandledNode VRMLScene PluginCodeLoader SplitClassRefactoring PluginLauncher AliceRelativeAnimation AbsoluteAnimation Cursor B3DIndexedQuadMesh UnfailingSmallIntegerArithmeticPrimitive B3DVertexRasterizer HtmlText StepMessage IntonationVisitor EmptyFlowPosition RefactoryTestDataApp HtmlFileStream ProjectViewMorph ParserRemovedUnusedTemps UndoVisibilityChange GSMCodec PushDownInstanceVariableTest Word RBStringReplaceRule HtmlTextEntity AlignmentMorphBob1 SentNotImplementedTestCase SyntaxAttribute ProgressInitiationException BasicLintRule RBReplaceRule PDARecurringEvent EToyTextNodeWrapper CompositeLintRuleTest TMethod OrientedFillStyle FlashSoundEnvelope LucidEmptySymbolTable HtmlHeadEntity KeyboardMorphForInput ScreenshotAction DisplayText LucidHopelessFlowGoal RemoteCanvas ColorSwatch TTPoint Quadrangle WaveletCodec FilePlugin TiTestCode BlockType InstanceVariableFlowPosition RBArrayNode B3DVector2Array TextMorphEditor UpdatingRectangleMorph EToySenderMorph Date LargeNegativeInteger WarpBlt B3DDirectionalLight F0RenderingVisitor TransformationRuleTest BalloonState SketchMorph TestInterpreterPlugin TabMorph ProjectHistory FloatArithmeticPrimitive X11GC B3DAcceleratorPlugin MessageSendTypeGoal Boolean KlattSegmentSet LedDigitMorph AddClassVariableTest RenameClassVariableChange LucidSymbolTable CompositeEvent FileStreamException RemoveParameterRefactoring CompressedSoundData RemoveClassVariableRefactoring UpdatingSimpleButtonMorph ExternalStructure RBShortAssignmentToken MultiCanvas StickySketchMorph AliceHierarchical VariableRefactoring PluggableTextMorph StandardFileMenu AtomMorph PushDownMethodTest LucidSenderSet PushUpInstanceVariableTest MoveMethodTest PluggableButtonController LiteralNode HtmlTag AlignmentMorph UtteranceVisitor TAssignmentNode DataStream ReadNewsInboxFile PointerFinder RadioButtonInput TLabeledCommentNode LucidReturnExpression Win32HBrush DictionaryInspector LTCaret HtmlFrame WorldViewModel TetrisBoard VRMLNodeSpec Clause InlineParameterTest Primitive UpdatingThreePhaseButtonMorph ViewerRow Browser FlashLineStyle ChatNotes ChangeMethodNameRefactoring PreferencesPanel ChangeRecord TParseNode BitBlt LucidPerfectFlowGoal ExternalForm HtmlTextualEntity PointArray FFIPlugin QueueSound B3DColor4Array ListParagraph UndoTextureChange FreeCell MoveMethodRefactoring LeafNode PreDebugWindow Tetris AbstractInterpretation PrintComponent PluggableListMorphByItem RandomNumberTile

ProgressTargetRequestNotification InlineMethodFromComponentTest FloatingBookControlsMorph Sonogram BottomType WindowingTransformation Bitmap EToyProjectRenamerMorph TestModel ScriptStatusControl X11Drawable MouseMoveEvent PluggableTextController VariableDock Envelope PrintSpecifications TrashCanMorph WonderlandActor14 CartesianProductTestCase LargeIntegersTest AtPrimitive RefactoryChange VRMLGenericNode Message MailtoUrl BasicLintRuleTest ShortIntegerArray NoController B3DPrimitiveFace ReferenceMorph UpdatingMenuItemMorph HtmlDefinitionListElement URLMorph Utilities BalloonEnginePlugin ParseTreeEnvironment EToyGateKeeperMorph TransformationMorph GZipReadStream PerformPrimitive RemoteString FaceMorph AIFFFileReader FormCanvas AddInstanceVariableChange MacRect PasteUpMorph RenameClassVariableRefactoring Discussion PlayWithMe2 BlobMorph B3DVector4 B3DEnginePlugin LTOpenParen PDAChoiceMorph Warning ControlChangeEvent MorphWorldController ExpressionFlowPosition FlashMorph CPluggableAccessor JPEGHuffmanTable EToyPeerToPeer LucidScannerTestCase AudioChatGUI EToyProjectHistoryMorph AbstractFont ScrollBar MessageTally HtmlList FlowPositionTestCase POVertex TetrisBlock RectangleMorph VariableSimulation Win32Shell CanvasEncoder WordNet ClassOrganizer AuthorizedSwikiAction PostscriptEncoder TextComponent TextAction Animation ClassType NotEnvironment ExternalAddress Scanner InternalThreadNavigationMorph WonderlandActorData IRCProtocolMessage RBProgramNode DumberMenuMorph AddMethodChange ProgramChangeEvent B3DVector3 SelectorEnvironment ListController VariableTypeGoal ValueHolder FlippyArray2 FlashButtonMorph TextPlusPasteUpMorph RBAbstractCondition TranslucentProgessMorph DualChangeSorter ZASMCameraMarkMorph PluginHTTPRequest HtmlFixedWidthEntity InlineAllSendersRefactoring PCXReadWriter IRCChannelInfo LucidLocalVariable AliceTextOutputWindow B3DPrimitiveVertex WonderlandSpotLight MailAddressTokenizer CommandLineLauncherExample ActorState ColorTileMorph Scamper InterpreterSimulatorLSB LucidInstanceVariable LTPeriod BitmapFillStyle PushDownInstanceVariableRefactoring GeePrinter BlockLintRule RBMethodName IRCMorph UpdatingBooleanStringMorph HaloSpec RBMethod HtmlOption View Switch EnvelopeLineMorph LucidParser PolygonMorph PSwikiPage TableLayout GradientFillMorph ZipEncoderTree RenameClassVariableTest PluggableFileListView WordArray B3DClipperPlugin B3DPrimitiveVertexArray TestTMethod BlockValueMethodSimulation FlashDamageRecorder SuperedSendTypeSlot PseudoClass RemoveMethodChange CachingCanvas CompressedBoundaryShape MailAddressToken BalloonMorph LipsMorph SelectorNode UndescribedTile LinkedList

POHalfedge HtmlCommentEntity HtmlImage CategoryEnvironment PushDownMethodRefactoring HtmlButton WonderlandCamera LTAssignmentOp FXBltSimulator Color TemporaryToInstanceVariableRefactoring PostscriptDummyWarp MouseMenuController IndentingListItemMorph B3DIndexedMesh ScorePlayerMorph SmalltalkInterchangeFileInManager Point FloatTimesTwoPowerPrimitive UndoAnimation URLmap EToySystem TIPTestPlugin ComplexProgressIndicator RemoveClassTest Environment PianoRollNoteMorph B3DSTriangleMesh LTVertBar MovieFrameSyncMorph PaintInvokingMorph MultipleSelectionModel WordArrayForSegment TConstantNode SmalltalkInterchangeSqueakFileOutManager Win32HDC ZASMScriptMorph B3DMorph SoundLoopMorph MorphicUnknownEvent HtmlSelect TextURL PhoneticTranscriber TTFontDescription RBSmallDictionary ExtractMethodToComponentRefactoring BrowserUrl GraphicSymbolInstance UpdatingStringMorphWithArgument CodeLoader SoundTile GeeBookMorph RefactoringBrowser VRMLEnumerator UndoPOVChange RemoveParameterTest ReturnNode WeakRegistry FlashPlayerWindow LayoutFrame InlineTemporaryTest AssignmentSimulation FXBltSimulation LucidReceiverFlowGoal FishEyeMorph LucidToken RemoveClassChange ContextPart PluggableTest RefactoryClassChange ThirtyTwoBitRegister FlashJPEGDecoder HtmlAttributes RenamedClassSourceReader KlattFrame ScriptInstantiation AbstractClassVariableTest ExplicitSourceCodePool RequestAlternateSyntaxSetting Heap PropertyListEncoder MorphicModel4 ScrollingToolHolder InlineParameterRefactoring TextFieldMorph LucidAssignmentExpression ZLibReadStream ObjectScanner MacRGBColor WonderlandActor5 WonderlandActor13 SortedCollection RenameTemporaryRefactoring TextEmphasis ScriptEditorMorph SymbolTableTestCase VRMLUndefinedNode ReferenceFinderTest AddClassTest MswUrl B3DPrimitiveRasterizer BooleanTile LucidTypeGoal IRCConnection FlashMorphReader LucidParameter ClassDiffBuilder MovieClipStartMorph RefactoringManager AbstractSound ContextVariablesInspector PinSpec SwikiPseudoFileStream VRMLProtoClassNode BrowserEnvironment HtmlTextArea TransferMorphAnimation MuLawCodec VRMLUseNode AlertMorph FlashKeyframe CursorWithMask TReturnNode HtmlEntityInspector Oop CompositeRefactoryChange Text ExtractMethodTest Pixmap ImageSegment PluckedSound AlicePoolDefiner NebraskaClient RBPatternBlockToken HeadMorph LinkedMessageSet WonderlandMorph XBMReadWriter SimpleButtonDelayedMenuMorph ThisContextSimulation CommentNode NewHandleMorph SequenceableCollection LintRuleTest MailDBFile DisplayScreen SoundMorph CachedHTTPRequest

FormMenuView TestRunner ClassCommentReader Password
UnloadedSound InstructionStream WonderlandEditor
AliceAbstractAnimation AddClassVariableRefactoring
LucidPoolVariable Semaphore HtmlSubscript TextPlusMorph
LineMorph B3DVertexShader AbstractMediaEventMorph
GazeGesturalEvent LTWord ThreeDSParser GZipWriteStream
Component NameStringInHalo ScaleMorph VRMLDefNode
SuperSwikiServer PullUpClassVariableTest Line
SmalltalkInterchangeFileItem FontSet Win32Window
SmalllintResultEditor SoundPlayer FinderTool B3DVertexBuffer
ReturnBooleanPrimitive FileInput MailAddressParser
TestFailureErrorList NoteEvent LucidMetaClassCode
InterimSoundMorph X11Display InlineTemporaryRefactoring Presenter
NumericReadoutTile TestFailure WonderlandActorBrowser
FFITestPoint4 Player1 FlashGlyphMorph Random
RemovePoolVariableChange HttpUrl Exception ParsedCodePool
POTriangulation ParseStack Class ChooserMorph GraphicSymbol
SolidFillStyle MouseDownMorph BooleanScriptEditor
MIDISynthChannel CelesteComposition ScriptEvaluatorMorph
VariablePool WonderlandActor4 Number WonderlandScriptEditor
WonderlandActor21 MorphObjectOut WonderlandCameraControls
MethodNameEditor HtmlFormEntity RequestCurrentWorldNotification
WonderlandActor6 GZipSurrogateStream ScreeningMorph PDAEvent
TIParametersContext DialectMethodNode HtmlBody TilePadMorph
PianoRollScoreMorph DialectStream EToyGateKeeperEntry
B3DInterpolatedMesh B3DViewingFrustum TextFontChange
MonthMorph DigitalSignatureAlgorithm ConstantVariablePool
TransformMorph CompositeAnimation BrowserEnvironmentWrapper
GrafPort RBCondition RBMetaclass CompiledMethod class
FlashPlayerMorph ScriptActivationButton POSimplePolygon
WheelMorph AliceUpdateable HtmlFormatter UndefinedObject
ThreePhaseButtonMorph B3DTexture2Array NetworkTerminalMorph
WaveEditor LucidClassVariable MIDIControllerMorph Session
CanvasDecoder SmalltalkInterchangeFileManager InputSensor
WonderlandDirectionalLight B3DMaterialColor SoundRecorder
MethodParameterTypeSlot PaintBoxMorph DosFileDirectory
ParameterFlowPosition OneOnSwitch EquivalencePrimitive
FatBitsPaint RBLiteralToken HtmlTitle BraceNode WonderlandActor8
BitBltSimulator B3DPrimitiveFaceAttributes SymbolType
WeakKeyDictionary ParserTest FreeCellBoard TinyPaint
MacExternalData DeflateStream B3DRenderEngine MethodFinder
AdvancedB3DSceneMorph BalloonCanvas PackageBrowser
DSCPostscriptCanvas SecureHashAlgorithm ReadWriteStream
DefaultPrimitive Collection RWBinaryOrTextStream
PushUpMethodTest HtmlHead AliceLight B3DPrimitiveRasterizerData
FrameRateMorph TopType MethodTypeSlot PostscriptEncoderToDisk

TestSuite CompoundTileMorph CurrentProjectRefactoring TypeSlot
BalloonBuffer HandleMorph RestSound LoopedSampledSound
IRCChannelListBrowser NullTerminalMorph MessageSendSimulation
B3DPrimitiveRasterizerState B3DPickerPlugin
EToyProjectQueryMorph ExternalSemaphoreTable TStmtListNode
HopelessTypeGoal DSCPostscriptCanvasToDisk PopUpMenu ServerFile
DropEvent WordGamePanelMorph MagnifierMorph
ChineseCheckerPiece SpeakerMorph ObjectMemory MouseOverHandler
GraphicalMenu HtmlFrameSet AbstractLauncher MailDB TextLine
FlashFileWriter TileLikeMorph Magnitude TileMessageNode Parser
BlockCannotReturn SelectionMorph RenameInstanceVariableTest
HTTPRequest BookPageThumbnailMorph SimpleSwitchMorph
TTKernPair PDAClockMorph PluggableCanvas WorldState
BlockParameterTypeGoal FlexMorph CharacterBlockScanner
LucidSingleMessageExpression TIDefaultContext StringHolder
BalloonLineSimulation RBOptimizedNode ExceptionAboutToReturn
BalloonDebugEngine CharRecog TiTestSubSub Refactoring DSAPlugin
AEDesc ExpandReferencedPoolsRefactoring PseudoMetaclass
CardPlayer IRCMessagePattern DurationsVisitor
AliceAbsoluteAnimation DeflatePlugin RFC2047MimeConverter
LookupKey RBSearchRule RelativeAnimation IndexFile
TTContourConstruction HtmlComment Interpreter
VariableEnvironmentBrowser WonderlandScene TIContextTestCase
EventSensor RealEstateAgent PDAMorph PartsWindow
EToyHierarchicalTextGizmo CustomMenu RBPatternMethodNode
CommandTilesMorph VRMLDynamicAttribute
LucidTypeInferenceTestCase StretchyImageMorph ChatButtonMorph
LucidBraceExpression AddInstanceVariableRefactoring RefactoringTest
LucidGoalPool LayoutCell NetNameResolver TypePool
MethodTempsNode B3DIndexedTriangleMesh TextAnchor
FlashSorterMorph LucidUniversalSenderSet
ExtraParsingAndFormattingTests CrosticQuotePanel
PhraseWrapperMorph RBPatternBlockNode EndOfStream
Interpolateable Wonderland CharacterSet ClockMorph
ToggleButtonInput ObjectTracer HtmlMap B3DSpotLight InfiniteForm
FakeClassPool HtmlHeader NetworkTerminalBorderMorph TestCClass2
PluggableTextMorphWithModel MIMEHeaderValue
LucidArgumentFlowGoal AmbientEvent SystemSourceCodePool
VersionsBrowser FileExistsException WonderlandActor3 TVariableNode
SmalllintTest TypeTestCase ReturnSimulation
InteractiveAddMethodChange SyntaxError VRMLBaseNode
Transcripter RemoveClassVariableChange HtmlDocument
LucidConstantVariable FileDoesNotExistException KidNavigationMorph
LucidRegularSenderSet ChangeSet PluggableListControllerOfMany
BalloonEngineSimulation FMBassoonSound UndoChangeList
TextDiffBuilder Syllable DirectoryEntry LucidThisContextExpression

CompositeLintRule TextPrinter ApplescriptError ZoomMorph TestCase ProportionalLayout RBAbstractClass MappedCollection WonderlandStillCamera B3DCameraPerspective CipherPanel SourceFileArray ObjectSocket IdentityTransform HtmlToken RepeatingSound MessagePartNode CachedSwikiAction RNInboxFile FormInputSet B3DIndexedQuad SoundCodec FileUrl FlasherMorph LTBinaryOp StaticForm HtmlBlockEntity PluggableButtonView SimpleMIDIPort HtmlDefinitionList CCodeGenerator HtmlDefinitionTerm SquishedNameMorph EToyIncomingMessage PlayingCardDeck Authorizer MethodRefactoring Player3 UniversalFlowPosition ModalSystemWindowView LTOpenBrace SharedQueue StoryboardBookMorph MenuMorph Scheduler ToggleButtonMorph ParseTreeSearcher TextColor ExternalFormRegistry FlowPosition ChatRecorder Unsigned MoviePlayerMorph B3DRasterizerPlugin FlashProgressMorph MenuItem RBIdentifierToken SmallIntegerDividePrimitive MovieClipEndMorph B3DLightSource AbstractAnimation HtmlPreformattedRegion EToyMultiChatMorph DisplayScanner RenameMethodRefactoring SystemOrganizer ReferenceStream SmalltalkInterchangeFileOutManager CharacterBlock DoubleClickExample UrlArgumentList CrLfFileStream DrawErrorMorph MouseEvent AddClassVariableChange Win32Rectangle ClassRepresentativeMorph VRMLNodeAttribute ExceptionTester ListView SystemDictionary ImageMorphWithSpotlight RBClass AbstractInstanceVariableRefactoring ExecutionUnit ScrollController B3DSimpleMeshFace PhraseTileMorph ChangedMessageSet FMClarinetSound Comment MIDIScore TTGlyph MultiEnvironment RBMethodNode FlashCharacterMorph MorphicModel3 Rectangle RBPatternMessageNode MessageNode MIMEPart MIDIPlugin VariableTypeTest ImageMorph MIDISynth EToyListenerMorph MessageFile Action HandMorphForReplay TestCodeGenerator AsynchFilePlugin TiTestSub ProtocolBrowser Player2 PushDownClassVariableRefactoring TextAnchorPlus TextAttribute MIDIFileReader IRCMessageSet IntegerAsFloatPrimitive RBValueToken Stream MessageSend VRMLInterpolatorNode ApplescriptInstance RBSequenceNode Link EToyHierarchicalTextMorph SegmentScanner DHtmlFormatter TextSqkProjectLink GradientFillStyle PrintEncoder GenericUrl TextSqkPageLink BlockNode Error MessageNotUnderstood ExternalData CodeHolder EToyProjectDetailsMorph FlippyArrayPlugin2 TextLineInterval LucidMethod UpdatingStringMorph RBConjunctiveCondition StringHolderController Behavior PushUpMethodRefactoring Halt RemoveInstanceVariableTest SelfSimulation PDAToDoItem CornerRounder IRCDirectMessagesObserver CachingCodeLoader AssertionFailure ModalController B3DRotation EUMethod VRMLExternProtoClassNode HtmlListItem String RefactoryChangeManager HTTPLoader RefactoringError SystemQueryPhrase ClassRefactoring

BalloonEngineBase EventHandler MovieMorph HtmlEntity TranscriptStream RBScanner LucidClassSymbolTable ShadowDrawingCanvas JoystickMorph FormInput BookPageSorterMorph StringMorphEditor SoundSequencerMorph CompositionScanner OrderedCollection IndexFileEntry NullCanvas TwoWayScrollPane RBNegationCondition TestCClass1 PerfectTypeSlot FlashCodec RBReturnNode SoundBuffer InstVarRefLocator MailNotifier WonderlandControls ChildrenToSiblingsTest InterpreterSimulatorMSB B3DPositionalLight True FileList2 AbstractInstanceVariableTest FXBlt B3DIndexedQuadArray ProtectInstanceVariableTest BlockValueTypeGoal MorphicEventDecoder HopelessTypeSlot VariableTypeSlot MIDIInputParser B3DPrimitiveShader SqueakPageCache WebPageMorph MyTestNotification StandardScriptingSystem Foo2 RenameClassTest LiljencrantsFant MouseClickState WonderlandEvent OnceOnlyOrderedCollection DocLibrary FlashSoundInformation DisplayTextView HtmlItalicsEntity ParseNode WeakValueAssociation ProcessBrowser Alarm SqueakPage ProjectLoading AliceAlarm Dictionary LayoutProperties HierarchyBrowser B3DPoolDefiner FileContentsBrowser GraphicalDictionaryMenu RBProgramNodeVisitor LedMorph ProtectInstanceVariableRefactoring BitBltSimulation MVCMenuMorph FlashFileStream POPSocket InspectorBrowser Compiler NebraskaServer MailMessage PURLmap MyResumableTestError LucidPoolSymbolTable LucidScanner ClassChangeRecord ReturnSmallIntegerPrimitive BitEditor PenPointRecorder B3DIndexedTriangleArray PhoneticEvent BalloonEdgeData FFTPlugin LucidParserFromRB AbstractScoreEvent TextMorph SyntaxMorph Array2D class TestInterfaceBase FXGrafPort LTCloseParen B3DScene EllipseMidpointTracer WonderlandLightSource DialectParser ListViewLine FFITestPoint2 OrderedCollectionInspector DeferredActionStandardSystemController SystemMonitor PickAFileToWriteNotification JoystickTabletPlugin PDARecord BalloonBezierSimulation Path TTSampleFontMorph RendererSwikiAction VolumeEnvelope FileList ImageReadWriter Interval Type PluggableServerAction ExternalStructureInspector KlattFrameMorph RBValueNode MyTestError HtmlTokenizer FormEditorView ClassPrimitive VRMLStream LucidCascadedMessageExpression TextStyle B3DVertexTransformer Process HtmlMeta StringButtonMorph HtmlSmallerFontEntity AssignmentTileMorph IndentingListParagraphMorph LucidConstantSymbolTable IdentitySet BalloonEngine MenuTile AliceAction PhonemeRecognizerMorph LTCloseBrace VariableNode EUExpression EToyChatMorph InterpreterSimulator BinarySmallIntegerPrimitive ExtractToTemporaryRefactoring JPEGReadWriter MacPoint Encoder FFT Paragraph EToyGenericDialogMorph ObjectOut PerformMethodSimulation AbstractInstructionPrinter HaloMorph Character EUSimulation

DecompilerConstructor FlashStreamingSound ViewerEntry
EmbeddedWorldBorderMorph ADPCMCodec JPEGColorComponent
InstructionPrinter RemoteHandMorph DiskProxy DisplayObject
BalloonFillData FlashMorphingMorph IRCRecipientFilter EUVariable
PhoneticRule VRMLWonderlandBuilder PluggableFileList ProtoObject
B3DTransformerPlugin ZASMStepsMorph AddMethodTest
MouseSensorMorph StarMorph KeyboardBuffer EToyTextNode
PDAPerson SmalllintContext SystemWindowWithButton Voice
B3DExponentTable WonderlandStillCameraMorph DisplayTransform
QuotedPrintableMimeConverter FloatComparisonPrimitive Object
B3DScanner LucidBlockExpression HtmlSpecialEntity
InlineMethodFromComponentRefactoring FlapTab Celeste False
SameGame PitchBendEvent SMTPSocket
OnceOnlyOrderedCollectionTestCase BrowserEnvironmentTest
PluggableListController TileMorph LocalVariableFlowPosition
MethodHolder ScreenController WonderlandActor
Base64MimeConverter AuthorizedServerAction IRCMessage
FormInspectView MHMailInboxFile LucidParserTestCase
PluggableListMorphOfMany ProjectEntryNotification ExternalTexture
VRMLNamedNode StandardFileMenuResult Note TextOnCurvePS
WireMorph Fraction MethodChangeRecord SelectionMenu
ProjectViewOpenNotification PseudoContext HtmlTableHeader
TheWorldMenu RenameTemporaryTest AcceptableCleanTextMorph
WonderlandAmbientLight PopUpChoiceMorph HtmlSuperscript
B3DGeometry TimeProfileBrowser HtmlFontChangeEntity
UndoByStopping KlattVoice VariableEnvironment PHOReader
InterpolatingImageMorph RBOptimizedToken InfoStringMorph
ColorPickerMorph ExternalLibraryFunction Slider B3DPrimitiveEngine
ParseTreeRewriter ClassToRename UndoRotationChange
FileDirectoryWrapper LucidStackSimulation FlashKeyframes
InteractiveAddClassChange Controller NewWorldWindow
ColorSystemView PlayingCardMorph WatchMorph
KlattSynthesizerPlugin ClassDescription AssignmentNode UserScript
ChildrenToSiblingsRefactoring InlineAllMethodTest
PluggableButtonMorph WeakKeyAssociation FloatArrayPlugin
SmallInteger ByteArray CompiledApplescript FormButtonCache
BouncingAtomsMorph WeekMorph Form WonderlandActor1
CategoryViewer SelectorBrowser ReverbSound B3DVertexBufferPlugin
RenameClassRefactoring DownloadingImageMorph UnionFlowPosition
StandardSourceFileArray B3DIndexedTriangle FloatArray
ProjectNavigationMorph Spline AliceScene TranslatedMethod Project
FillInTheBlankController ClassEnvironmentBrowser TextIndent
Bezier2Segment MorphicModel2 BalloonSolidFillSimulation
LayoutPolicy PerformTypeGoal Array WonderlandActor11 AliceWorld
Player B3DBox AndEnvironment SystemWindow TextInput
CascadeNode ExceptionSet VRMLNodeParser TextMessageLink

MacPixPatPtr ProcessorScheduler RefactoryTyper ThreadNavigationMorph LucidSelfOfMethodFlowGoal LTWordColon CategoriesFile B3DNullRasterizer B3DSceneExplorerMorph Applescript RBReadBeforeWrittenTester ArbitraryObjectSocket Integer ReferenceFinder HandMorph MorphicEventDispatcher TestTest WonderlandReaction SourceCodePool LucidGoal RBBinarySelectorToken PortugueseLexiconServer PluggableSet ZeroDivide KlattSegment SelectionInput GeePrinterDialogMorph CurveFitter BookMorph Delay FooLintRuleTest SerialPort }

- Good: CipherPanel.decodingMorphs is of type { UndefinedObject Array }
- Good: CipherPanel.quote is of type { UndefinedObject String Character }
- Good: CipherPanel.originalText is of type UndefinedObject
- Good: CrosticPanel.crosticPanel is of type UndefinedObject
- Good: CrosticPanel.cluesCol2 is of type { AlignmentMorph UndefinedObject }
- Bad: CrosticPanel.quote is of type Top
- Good: CrosticPanel.answers is of type { UndefinedObject OrderedCollection }
- Good: CrosticPanel.clues is of type { UndefinedObject OrderedCollection }
- Good: CrosticPanel.cluesPanel is of type { AlignmentMorph UndefinedObject }
- Good: CrosticPanel.quotePanel is of type { CrosticQuotePanel UndefinedObject }
- Good: CrosticQuotePanel.cluesPanel is of type { CrosticPanel UndefinedObject }
- Good: FreeCell.lastGameLost is of type UndefinedObject
- Good: FreeCell.cardsRemainingDisplay is of type { LedMorph UndefinedObject }
- Good: FreeCell.gameNumberDisplay is of type { LedMorph UndefinedObject }
- Good: FreeCell.state is of type { UndefinedObject #sameGame #pickGame #won #newGame #lost }

- Good: FreeCell.myFillStyle is of type { UndefinedObject GradientFillStyle }
- Good: FreeCell.elapsedTimeDisplay is of type { UndefinedObject LedTimerMorph }
- Good: FreeCell.board is of type { FreeCellBoard UndefinedObject }
- Good: FreeCell.autoMoveRecursionCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: FreeCellBoard.target is of type Top
- Bad: FreeCellBoard.actionSelector is of type Top
- Good: FreeCellBoard.stacks is of type { UndefinedObject Array }
- Good: FreeCellBoard.freeCells is of type { UndefinedObject Array }
- Good: FreeCellBoard.homeCells is of type { UndefinedObject Array }
- Good: FreeCellBoard.cardDeck is of type { PlayingCardDeck UndefinedObject }
- Good: FreeCellBoard.lastCardDeck is of type UndefinedObject
- Good: FreeCellStatistics.streakLosses is of type { UndefinedObject LargeNegativeInteger SmallInteger LargePositiveInteger }
- Bad: FreeCellStatistics.lastGameWon is of type Top
- Bad: FreeCellStatistics.lastGameLost is of type Top
- Good: FreeCellStatistics.currentCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.currentType is of type { UndefinedObject #losses #wins }
- Good: FreeCellStatistics.statsMorph is of type { TextMorph UndefinedObject }
- Good: FreeCellStatistics.window is of type UndefinedObject
- Good: FreeCellStatistics.sessionLosses is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.lossesWithReplay is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.sessionWins is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }

- Good: FreeCellStatistics.totalWins is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.streakWins is of type { UndefinedObject LargeNegativeInteger SmallInteger LargePositiveInteger }
- Good: FreeCellStatistics.totalLosses is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.winsWithReplay is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: LedDigitMorph.digit is of type Top
- Good: LedDigitMorph.highlighted is of type { True UndefinedObject False }
- Good: LedMorph.digits is of type { UndefinedObject SmallInteger }
- Bad: LedMorph.flash is of type Top
- Good: LedMorph.flashing is of type { True UndefinedObject False }
- Bad: LedMorph.value is of type Top
- Good: LedTimerMorph.counting is of type { True UndefinedObject False }
- Bad: LedTimerMorph.startSeconds is of type Top
- Good: PlayingCard.cardNo is of type { UndefinedObject LargeNegativeInteger SmallInteger LargePositiveInteger }
- Bad: PlayingCard.suitNo is of type Top
- Good: PlayingCard.suit is of type UndefinedObject
- Good: PlayingCard.cardForm is of type { Form UndefinedObject }
- Bad: PlayingCardDeck.target is of type Top
- Bad: PlayingCardDeck.seed is of type Top
- Good: PlayingCardDeck.acceptCardSelector is of type { PlayingCardDeck UndefinedObject #acceptCard:onStack: #acceptSingleCard:on: }
- Good: PlayingCardDeck.cardDraggedSelector is of type { PlayingCardDeck UndefinedObject #dragCard:fromHome: #dragCard:fromStack: }
- Good: PlayingCardDeck.stackingOrder is of type { UndefinedObject #descending #ascending }

- Good: PlayingCardDeck.cardDroppedSelector is of type { PlayingCardDeck UndefinedObject #cardMoved #cardMovedHome }
- Good: PlayingCardDeck.cardDoubleClickSelector is of type { PlayingCardDeck UndefinedObject #doubleClickInStack:OnCard: }
- Good: PlayingCardDeck.stackingPolicy is of type { UndefinedObject #stagger #single #altStraight #straight }
- Good: PlayingCardDeck.emptyDropPolicy is of type { UndefinedObject #inOrder #any }
- Good: PlayingCardDeck.layout is of type { UndefinedObject #stagger #pile #grid }
- Good: PlayingCardMorph.suitNumber is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: PlayingCardMorph.cardNumber is of type { UndefinedObject LargeNegativeInteger SmallInteger LargePositiveInteger }
- Good: SameGame.scoreDisplay is of type { LedMorph UndefinedObject }
- Good: SameGame.board is of type { UndefinedObject SameGameBoard }
- Good: SameGame.selectionDisplay is of type { LedMorph UndefinedObject }
- Bad: SameGame.helpText is of type { StringHolderView++ PluggableTextMorph++ UndefinedObject }
- Good: SameGameBoard.palette is of type { UndefinedObject OrderedCollection }
- Bad: SameGameBoard.target is of type Top
- Bad: SameGameBoard.columns is of type Top
- Bad: SameGameBoard.actionSelector is of type Top
- Good: SameGameBoard.selectionColor is of type UndefinedObject
- Good: SameGameBoard.flash is of type { True UndefinedObject False }
- Good: SameGameBoard.arguments is of type { UndefinedObject Array }
- Bad: SameGameBoard.rows is of type Top
- Bad: SameGameBoard.protoTile is of type Top
- Bad: SameGameBoard.flashColor is of type Top

- Good: SameGameBoard.selection is of type UndefinedObject
- Bad: SameGameTile.oldSwitchState is of type Top
- Bad: SameGameTile.switchState is of type Top
- Good: SameGameTile.disabled is of type { True UndefinedObject False }
- Good: Tetris.scoreDisplay is of type { LedMorph UndefinedObject }
- Good: Tetris.board is of type { UndefinedObject TetrisBoard }
- Bad: TetrisBlock.shapeInfo is of type Top
- Good: TetrisBlock.board is of type { UndefinedObject TetrisBoard }
- Bad: TetrisBlock.angle is of type Top
- Bad: TetrisBlock.baseCellNumber is of type Top
- Good: TetrisBoard.game is of type { UndefinedObject Tetris }
- Good: TetrisBoard.gameOver is of type { True UndefinedObject False }
- Good: TetrisBoard.score is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: TetrisBoard.paused is of type { True UndefinedObject False }
- Good: TetrisBoard.delay is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: TetrisBoard.currentBlock is of type { TetrisBlock UndefinedObject }
- Good: WordGameLetterMorph.predecessor is of type { WordGameLetterMorph UndefinedObject }
- Good: WordGameLetterMorph.lineMorph is of type { UndefinedObject PolygonMorph }
- Good: WordGameLetterMorph.style is of type { UndefinedObject #underlined #boxed #plain }
- Good: WordGameLetterMorph.letterMorph is of type { StringMorph UndefinedObject }
- Bad: WordGameLetterMorph.letter is of type Top
- Good: WordGameLetterMorph.originalLetter is of type UndefinedObject
- Good: WordGameLetterMorph.successor is of type { WordGameLetterMorph UndefinedObject }

- Bad: WordGameLetterMorph.indexInQuote is of type Top
- Good: WordGameLetterMorph.linkedLetters is of type UndefinedObject
- Good: WordGamePanelMorph.letterMorphs is of type { Array UndefinedObject OrderedCollection }
- Good: WordGamePanelMorph.haveTypedHere is of type { True UndefinedObject False }

4.10 Threshold of 5000

- Good: ChineseCheckerPiece.myBoard is of type { ChineseCheckers UndefinedObject }
- Bad: ChineseCheckerPiece.boardLoc is of type Top
- Good: ChineseCheckers.movePhase is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ChineseCheckers.board is of type { UndefinedObject Array }
- Good: ChineseCheckers.plannedMovePhase is of type UndefinedObject
- Good: ChineseCheckers.sixDeltas is of type { UndefinedObject Array }
- Bad: ChineseCheckers.plannedMove is of type Top
- Bad: ChineseCheckers.whoseMove is of type Top
- Bad: ChineseCheckers.teams is of type Top
- Good: ChineseCheckers.colors is of type { UndefinedObject Array }
- Good: ChineseCheckers.homes is of type { UndefinedObject Array }
- Good: ChineseCheckers.animateMoves is of type { True UndefinedObject False }
- Good: ChineseCheckers.pathMorphs is of type { UndefinedObject OrderedCollection }
- Good: ChineseCheckers.autoPlay is of type { UndefinedObject Array }
- Good: CipherPanel.originalMorphs is of type { UndefinedObject Array }
- Good: CipherPanel.decodingMorphs is of type { UndefinedObject Array }
- Good: CipherPanel.quote is of type { UndefinedObject String Character }
- Good: CipherPanel.originalText is of type UndefinedObject

- Good: CrosticPanel.crosticPanel is of type UndefinedObject
- Good: CrosticPanel.cluesCol2 is of type { AlignmentMorph UndefinedObject }
- Bad: CrosticPanel.quote is of type Top
- Good: CrosticPanel.answers is of type { UndefinedObject OrderedCollection }
- Good: CrosticPanel.clues is of type { UndefinedObject OrderedCollection }
- Good: CrosticPanel.cluesPanel is of type { AlignmentMorph UndefinedObject }
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- Good: FreeCell.gameNumberDisplay is of type { LedMorph UndefinedObject }
- Good: FreeCell.state is of type { UndefinedObject #sameGame #pickGame #won #newGame #lost }
- Good: FreeCell.myFillStyle is of type { UndefinedObject GradientFillStyle }
- Good: FreeCell.elapsedTimeDisplay is of type { UndefinedObject LedTimerMorph }
- Good: FreeCell.board is of type { FreeCellBoard UndefinedObject }
- Good: FreeCell.autoMoveRecursionCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: FreeCellBoard.target is of type Top
- Bad: FreeCellBoard.actionSelector is of type { UndefinedObject #try #mutedForTrack:put: #rotateClockWise #stepStillDown:with: #goToPageMorph:fromBookmark: #selection #volumeForChannel:put: #quit #playV2 #chooseFrom:categoryItem: #destroyScript #nextProject #quitWonderland #boardAction: #makeTile #saveSession #quitSqueak #value #setLoopStart #startPlaying

#forward #debug #playLoop #closeBoxHit #doCancel #nextOwnerPage #trim #moreCommands #maybeEmptyTrash #infoFor:inViewer: #chooseTriggerFrom: #toggleWhetherShowingTiles #durMod:onOff: #emitRest #makePianoRoll #jump10 #acceptSort #back #startNebraskaClient #chooseAndRevertToVersion #runScript: #fullScreenOff #buildChord: #goToNextCardInStack #showMenu #atChannel:from:selectInstrument: #nextYear #toggleFlapsSuppressed #stepForward #togglePartsBinStatus #playNextMessage #stopUp:with: #browseRecentSubmissions #goToRelativePosition: #setLoopEnd #gotoAnother #tabSelected #playV1 #invokeMenu #editCustomHalos #goUp:with: #rotateY: #atTrack:from:selectInstrument: #deleteNotes #displayHistory #pausedUp:with: #pickGame #setLogRate: #acceptAnnotationsFrom: #writeTape #dismiss #visitStartPage #shrink #startAudioChat #previous #cancelSort #previousOwnerPage #newProject #stepBackward #tileClickedAt:newSelection: #overallVolume: #addPhoneme #makeSoundMorph #replaceToolsFlap #rewind #toggleStatus #explainFlaps #getNewerVersionIfAvailable #openPreferencesInspector #moveRight #returnToPreviousProject #addFovAngle: #doOK #toggleFullView #stopEverything #cancel #addYesNoToHand #jumpToProject #saySomething #start #playAll #upArrowHit #stopRecognizing #moveLeft #chooseFrom:soundItem: #rotateAntiClockWise #record #addDolly: #advanceToNextProject #duration:onOff: #toggleDiff #chooseFrom:envelopeItem: #newGame #drawNicest #editAnnotations #toggleDeferred #quitNebraska #rotateX: #stopSound #dropAllTheWay #play #offerScriptorMenu #playTestNote #button #panForTrack:put: #statistics #doPreview #forgetIt #mutedForChannel:put: #startTelemorphic #stopPlaying #volumeForTrack:put: #scrollTime: #toggleFull #updateFromServer #firstPage #undo #collapseOrExpand #lastPage #addCategoryViewer #downArrowHit #sendNow #toggle #rotateZ: #playAfterCursor #delete #drawFastest #ok #doExpand #tellAFriend #recordLevel: #goToPreviousCardInStack #tickingUp:with: #reset #submit #chooseTrigger #repeat: #sameGame #writeTape: #publishProject #togglePreference: #checkOnAFriend #resumePlaying #makeMovie #okay #installHaloTheme: #connect #readTape #previousYear #loopFrames: #panForChannel:put: #previousPage #show #playBeforeCursor #nextPage #exitTheSequence #brush:action:nib:evt: #startChat #saveInstrument #tryMe #playV3 #previousProject #shareThisWorld #proceed #accept #fullScreenOn #toggleShowDocumentation #setDate:fromButton:down: #fileOutChanges #disableReverb: #setOneCycle #drawMedium #next #newSliderValue: #tool:action:cursor:evt: #offerWindowMenu #pause #playTest #doNewPainting #positionInScore: #playback #findAProject #newHead #help #toggleOnOff #windowColorHelp #doPrint #articulation:onOff: #flash #bufferNebraska #stop

#toggleChoice: #hint #startRecognizing #chooseCategory #reload #help: }

- Good: FreeCellBoard.stacks is of type { UndefinedObject Array }
- Good: FreeCellBoard.freeCells is of type { UndefinedObject Array }
- Good: FreeCellBoard.homeCells is of type { UndefinedObject Array }
- Good: FreeCellBoard.cardDeck is of type { PlayingCardDeck UndefinedObject }
- Good: FreeCellBoard.lastCardDeck is of type UndefinedObject
- Good: FreeCellStatistics.streakLosses is of type { UndefinedObject LargeNegativeInteger SmallInteger LargePositiveInteger }
- Bad: FreeCellStatistics.lastGameWon is of type Top
- Bad: FreeCellStatistics.lastGameLost is of type Top
- Good: FreeCellStatistics.currentCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.currentType is of type { UndefinedObject #wins #losses }
- Good: FreeCellStatistics.statsMorph is of type { TextMorph UndefinedObject }
- Good: FreeCellStatistics.window is of type UndefinedObject
- Good: FreeCellStatistics.sessionLosses is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.lossesWithReplay is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.sessionWins is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.totalWins is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.streakWins is of type { UndefinedObject LargeNegativeInteger SmallInteger LargePositiveInteger }
- Good: FreeCellStatistics.totalLosses is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: FreeCellStatistics.winsWithReplay is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }

- Bad: LedDigitMorph.digit is of type Top
- Good: LedDigitMorph.highlighted is of type { True UndefinedObject False }
- Good: LedMorph.digits is of type { UndefinedObject SmallInteger }
- Bad: LedMorph.flash is of type Top
- Good: LedMorph.flashing is of type { True UndefinedObject False }
- Bad: LedMorph.value is of type Top
- Good: LedTimerMorph.counting is of type { True UndefinedObject False }
- Bad: LedTimerMorph.startSeconds is of type Top
- Good: PlayingCard.cardNo is of type { UndefinedObject LargeNegativeInteger SmallInteger LargePositiveInteger }
- Bad: PlayingCard.suitNo is of type Top
- Good: PlayingCard.suit is of type UndefinedObject
- Good: PlayingCard.cardForm is of type { Form UndefinedObject }
- Bad: PlayingCardDeck.target is of type Top
- Bad: PlayingCardDeck.seed is of type Top
- Good: PlayingCardDeck.acceptCardSelector is of type { PlayingCardDeck UndefinedObject #acceptCard:onStack: #acceptSingleCard:on: }
- Good: PlayingCardDeck.cardDraggedSelector is of type { PlayingCardDeck UndefinedObject #dragCard:fromHome: #dragCard:fromStack: }
- Good: PlayingCardDeck.stackingOrder is of type { UndefinedObject #descending #ascending }
- Good: PlayingCardDeck.cardDroppedSelector is of type { PlayingCardDeck UndefinedObject #cardMoved #cardMovedHome }
- Good: PlayingCardDeck.cardDoubleClickSelector is of type { PlayingCardDeck UndefinedObject #doubleClickInStack:OnCard: }
- Good: PlayingCardDeck.stackingPolicy is of type { UndefinedObject #stagger #straight #altStraight #single }
- Good: PlayingCardDeck.emptyDropPolicy is of type { UndefinedObject #inOrder #any }

- Good: PlayingCardDeck.layout is of type { UndefinedObject #stagger #pile #grid }
- Good: PlayingCardMorph.suitNumber is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: PlayingCardMorph.cardNumber is of type { UndefinedObject LargeNegativeInteger SmallInteger LargePositiveInteger }
- Good: SameGame.scoreDisplay is of type { LedMorph UndefinedObject }
- Good: SameGame.board is of type { UndefinedObject SameGameBoard }
- Good: SameGame.selectionDisplay is of type { LedMorph UndefinedObject }
- Bad: SameGame.helpText is of type { StringHolderView++ PluggableTextMorph++ UndefinedObject }
- Good: SameGameBoard.palette is of type { UndefinedObject OrderedCollection }
- Bad: SameGameBoard.target is of type Top
- Bad: SameGameBoard.columns is of type Top
- Good: SameGameBoard.actionSelector is of type { UndefinedObject Symbol }
- Good: SameGameBoard.selectionColor is of type UndefinedObject
- Good: SameGameBoard.flash is of type { True UndefinedObject False }
- Good: SameGameBoard.arguments is of type { UndefinedObject Array }
- Bad: SameGameBoard.rows is of type Top
- Bad: SameGameBoard.protoTile is of type Top
- Bad: SameGameBoard.flashColor is of type Top
- Good: SameGameBoard.selection is of type UndefinedObject
- Bad: SameGameTile.oldSwitchState is of type Top
- Bad: SameGameTile.switchState is of type Top
- Good: SameGameTile.disabled is of type { True UndefinedObject False }
- Good: Tetris.scoreDisplay is of type { LedMorph UndefinedObject }

- Good: Tetris.board is of type { UndefinedObject TetrisBoard }
- Bad: TetrisBlock.shapeInfo is of type Top
- Good: TetrisBlock.board is of type { UndefinedObject TetrisBoard }
- Bad: TetrisBlock.angle is of type Top
- Bad: TetrisBlock.baseCellNumber is of type Top
- Good: TetrisBoard.game is of type { UndefinedObject Tetris }
- Good: TetrisBoard.gameOver is of type { True UndefinedObject False }
- Bad: TetrisBoard.score is of type Top
- Good: TetrisBoard.paused is of type { True UndefinedObject False }
- Good: TetrisBoard.delay is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: TetrisBoard.currentBlock is of type { TetrisBlock UndefinedObject }
- Good: WordGameLetterMorph.predecessor is of type { WordGameLetterMorph UndefinedObject }
- Good: WordGameLetterMorph.lineMorph is of type { UndefinedObject PolygonMorph }
- Good: WordGameLetterMorph.style is of type { UndefinedObject #plain #boxed #underlined }
- Good: WordGameLetterMorph.letterMorph is of type { StringMorph UndefinedObject }
- Bad: WordGameLetterMorph.letter is of type Top
- Good: WordGameLetterMorph.originalLetter is of type UndefinedObject
- Good: WordGameLetterMorph.successor is of type { WordGameLetterMorph UndefinedObject }
- Bad: WordGameLetterMorph.indexInQuote is of type Top
- Good: WordGameLetterMorph.linkedLetters is of type UndefinedObject
- Good: WordGamePanelMorph.letterMorphs is of type { Array UndefinedObject OrderedCollection }
- Good: WordGamePanelMorph.haveTypedHere is of type { True UndefinedObject False }

- Bad: PDA.recurringEvents is of type Top
- Good: PDA.peopleList is of type { CompiledMethod WordArrayForSegment KlattFrame OSAID FloatArray PointArray B3DRotationArray ComponentInstance TranslatedMethod Array2D ShortRunArray ShortPointArray ShortIntegerArray B3DVector2 B3DMatrix4x4 Pixmap Array B3DViewingFrustum ExternalAddress B3DIndexedTriangleArray WeakArray B3DInplaceArray ByteArray B3DColor4 B3DPrimitiveLight Symbol RunArray MacExternalData FlippyArray2 CompiledApplescript B3DVector3 AEDesc UndefinedObject IntegerArray B3DTexture2Array B3DRotation SoundBuffer String B3DFloatArray B3DColor4Array Text B3DMaterialColor WordArray ApplescriptInstance DescType B3DPrimitiveVertexArray B3DExponentTable B3DLightAttenuation B3DVector2Array ArrayedCollection B3DVector3Array DirectoryEntry B3DMaterial B3DIndexedQuadArray Bitmap B3DVector4 }
- Bad: PDA.date is of type Top
- Good: PDA.dateButtonPressed is of type UndefinedObject
- Bad: PDA.allEvents is of type Top
- Bad: PDA.category is of type Top
- Bad: PDA.currentItem is of type Top
- Good: PDA.scheduleList is of type { ArrayedCollection++ UndefinedObject }
- Good: PDA.categoryListIndex is of type UndefinedObject
- Bad: PDA.allPeople is of type Top
- Bad: PDA.scheduleListIndex is of type Top
- Bad: PDA.allToDoItems is of type Top
- Bad: PDA.allNotes is of type Top
- Bad: PDA.notesListIndex is of type Top
- Good: PDA.currentItemSelection is of type UndefinedObject
- Good: PDA.categoryList is of type UndefinedObject
- Good: PDA.toDoList is of type { CompiledMethod WordArrayForSegment KlattFrame OSAID FloatArray PointArray B3DRotationArray ComponentInstance TranslatedMethod Array2D ShortRunArray ShortPointArray ShortIntegerArray B3DVector2 B3DMatrix4x4 Pixmap Array B3DViewingFrustum ExternalAddress

B3DIndexedTriangleArray WeakArray B3DInplaceArray B3DVector3 B3DColor4 B3DPrimitiveLight Symbol RunArray MacExternalData ByteArray CompiledApplescript FlippyArray2 AEDesc UndefinedObject IntegerArray B3DTexture2Array B3DRotation SoundBuffer String B3DFloatArray B3DColor4Array Text B3DMaterialColor WordArray ApplescriptInstance DescType B3DPrimitiveVertexArray B3DExponentTable B3DVector2Array B3DLightAttenuation ArrayedCollection B3DVector3Array DirectoryEntry B3DMaterial B3DIndexedQuadArray Bitmap B3DVector4 }

- Bad: PDA.toDoListIndex is of type Top
- Bad: PDA.peopleListIndex is of type Top
- Good: PDA.notesList is of type { ArrayedCollection++ UndefinedObject }
- Good: PDA.currentItemText is of type UndefinedObject
- Bad: PDA.userCategories is of type Top
- Good: PDA.viewDescriptionOnly is of type { True UndefinedObject False }
- Bad: PDAChoiceMorph.backgroundColor is of type Top
- Bad: PDAClockMorph.backgroundColor is of type Top
- Bad: PDAEvent.time is of type Top
- Bad: PDAEvent.date is of type Top
- Bad: PDAEvent.duration is of type Top
- Good: PDAEvent.alarm is of type UndefinedObject
- Bad: PDAPerson.name is of type Top
- Good: PDAPerson.address is of type UndefinedObject
- Good: PDAPerson.phone is of type { String UndefinedObject }
- Good: PDAPerson.email is of type { String UndefinedObject }
- Bad: PDARecord.description is of type Top
- Bad: PDARecord.key is of type Top
- Good: PDARecord.otherFields is of type { UndefinedObject Dictionary }
- Good: PDARecurringEvent.recurrence is of type { UndefinedObject #nthWeekdayOfMonthEachYear #dayOfWeek #dayOfMonth #dateOfYear }

- Bad: PDARecurringEvent.firstDate is of type Top
- Bad: PDARecurringEvent.lastDate is of type Top
- Good: PDAToDoItem.deadline is of type UndefinedObject
- Bad: PDAToDoItem.result is of type Top
- Bad: PDAToDoItem.dayDone is of type Top
- Bad: PDAToDoItem.dayPosted is of type Top
- Bad: PDAToDoItem.priority is of type Top
- Bad: IRCChannelInfo.name is of type Top
- Bad: IRCChannelInfo.topic is of type Top
- Good: IRCChannelInfo.subscribers is of type { IdentitySet UndefinedObject }
- Good: IRCChannelInfo.members is of type { Set UndefinedObject }
- Good: IRCChannelInfo.connection is of type { IRCConnection UndefinedObject }
- Good: IRCChannelListBrowser.channelIndex is of type { UndefinedObject SmallInteger }
- Good: IRCChannelListBrowser.channelList is of type { Array UndefinedObject SortedCollection }
- Good: IRCChannelListBrowser.sortCriterion is of type { UndefinedObject #name }
- Good: IRCChannelListBrowser.connection is of type { IRCConnection UndefinedObject }
- Good: IRCChannelObserver.chatText is of type { Text UndefinedObject }
- Good: IRCChannelObserver.channelName is of type UndefinedObject
- Good: IRCChannelObserver.channel is of type UndefinedObject
- Good: IRCChannelObserver.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCChannelSummary.name is of type Top
- Bad: IRCChannelSummary.topic is of type Top
- Bad: IRCChannelSummary.numUsers is of type Top

- Good: IRCChannelUsersBrowser.channel is of type { UndefinedObject IRCChannelInfo }
- Good: IRCChannelUsersBrowser.userList is of type { UndefinedObject Array }
- Bad: IRCChannelUsersBrowser.userIndex is of type Top
- Good: IRCConnection.directMessageSubscribers is of type { IdentitySet UndefinedObject }
- Good: IRCConnection.channelListBeingBuilt is of type { UndefinedObject OrderedCollection }
- Good: IRCConnection.protocolMessagesToSend is of type { UndefinedObject OrderedCollection }
- Bad: IRCConnection.sendBuffer is of type Top
- Bad: IRCConnection.server is of type Top
- Good: IRCConnection.motdBeingBuilt is of type { UndefinedObject WriteStream }
- Good: IRCConnection.protocolMessageSubscribers is of type { IdentitySet UndefinedObject }
- Bad: IRCConnection.motd is of type { B3DTexture2Array B3DPrimitiveRasterizerData Integer PointArray CompiledApplescript ByteArray ArrayedCollection SoundBuffer ExternalAddress ShortIntegerArray KlattFrame B3DMaterialColor GraphicSymbol B3DVector3 FlippyArray2 WeakArray Pixmap WordArray B3DVector2Array B3DIndexedQuad B3DVector3Array DescType B3DPrimitiveVertexArray B3DRotation B3DIndexedTriangleArray WordArrayForSegment B3DIndexedQuadArray String B3DPrimitiveLight LargePositiveInteger ComponentInstance StandardSourceFileArray B3DIndexedTriangle FloatArray B3DColor4 OnceOnlyOrderedCollection TranslatedMethod DirectoryEntry Array2D B3DFloatArray AEDesc RunArray Symbol B3DInplaceArray Text Array B3DMaterial B3DRotationArray ApplescriptInstance MappedCollection B3DColor4Array Interval Heap UrlArgumentList SourceFileArray B3DLightAttenuation ShortPointArray B3DVector4 B3DVector2 SequenceableCollection MacExternalData OrderedCollection B3DExponentTable B3DViewingFrustum IntegerArray ShortRunArray SortedCollection Bitmap LinkedList B3DMatrix4x4 Semaphore TextLineInterval LargeNegativeInteger CompiledMethod OSAID UndefinedObject SmallInteger }
- Bad: IRCConnection.port is of type Top

- Good: IRCConnection.recieveBuffer is of type { String UndefinedObject }
- Good: IRCConnection.socket is of type { Socket UndefinedObject }
- Bad: IRCConnection.userName is of type Top
- Bad: IRCConnection.nick is of type Top
- Good: IRCConnection.channelList is of type { UndefinedObject Array }
- Good: IRCConnection.subscribedChannels is of type { UndefinedObject Dictionary }
- Bad: IRCConnection.fullName is of type Top
- Good: IRCConnection.messagesProcessed is of type { UndefinedObject SmallInteger }
- Good: IRCConnection.consoleText is of type { Text UndefinedObject }
- Good: IRCDirectMessagesObserver.chatText is of type { Text UndefinedObject }
- Bad: IRCDirectMessagesObserver.talkingTo is of type Top
- Good: IRCDirectMessagesObserver.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCMessage.text is of type Top
- Good: IRCMessage.sender is of type UndefinedObject
- Bad: IRCMessage.recipient is of type Top
- Good: IRCMessagePattern.sender is of type UndefinedObject
- Good: IRCMessagePattern.recipient is of type UndefinedObject
- Good: IRCMessageSet.messages is of type UndefinedObject
- Bad: IRCMorph.userName is of type Top
- Bad: IRCMorph.nick is of type Top
- Bad: IRCMorph.server is of type Top
- Good: IRCMorph.connection is of type { IRCConnection UndefinedObject }
- Bad: IRCMorph.fullName is of type Top
- Good: IRCMorph.messageCollections is of type UndefinedObject

- Good: IRCMorph.consoleText is of type { Text UndefinedObject }
- Bad: IRCMorph.port is of type Top
- Bad: IRCProtocolMessage.arguments is of type Top
- Good: IRCProtocolMessage.command is of type { UndefinedObject String Character }
- Good: IRCProtocolMessage.prefix is of type UndefinedObject
- Good: IRCRecipientFilter.recipient is of type UndefinedObject
- Good: CategoriesFile.categories is of type { UndefinedObject Dictionary }
- Bad: Celeste.currentMessages is of type Top
- Good: Celeste.customFilterBlock is of type { UndefinedObject Compiler }
- Bad: Celeste.status is of type Top
- Bad: Celeste.userPassword is of type Top
- Bad: Celeste.currentMsgID is of type Top
- Bad: Celeste.mailDB is of type Top
- Bad: Celeste.currentCategory is of type Top
- Bad: Celeste.lastCategory is of type Top
- Good: Celeste.lastCategoryList is of type UndefinedObject
- Good: Celeste.dateFilter is of type UndefinedObject
- Bad: Celeste.currentTOC is of type Top
- Bad: Celeste.fromFilter is of type Top
- Good: Celeste.formatMessages is of type UndefinedObject
- Good: Celeste.lastCategoryMenu is of type UndefinedObject
- Bad: Celeste.messageTextView is of type { PluggableListView++ PluggableListMorph++ SimpleHierarchicalListMorph++ PluggableTextMorph++ PluggableTextView UndefinedObject }
- Bad: Celeste.subjectFilter is of type Top

- Bad: CelesteComposition.textEditor is of type { PluggableTextMorph++ FormMenuController PluggableButtonController Controller ProjectController UndefinedObject FormEditor PluggableListControllerOfMany PluggableTextView PluggableListController FillInTheBlankController StandardSystemController ListController MorphWorldController NoController ParagraphEditor BitEditor ScreenController ReadOnlyTextController ModalController StringHolderController DeferredActionStandardSystemController PluggableTextController }
- Bad: CelesteComposition.celeste is of type Top
- Bad: CelesteComposition.messageText is of type Top
- Good: CelesteComposition.morphicWindow is of type { AlignmentMorphBob1 UndefinedObject SystemWindow }
- Good: CelesteComposition.mvcWindow is of type { StandardSystemView UndefinedObject }
- Good: CelesteComposition.attachmentSeparator is of type UndefinedObject
- Good: FancyCelesteComposition.theLinkToInclude is of type { String UndefinedObject }
- Bad: FancyCelesteComposition.to is of type Top
- Bad: FancyCelesteComposition.subject is of type Top
- Good: FancyCelesteComposition.textFields is of type { UndefinedObject Array }
- Good: IndexFile.msgDictionary is of type { PluggableDictionary UndefinedObject }
- Good: IndexFile.logfile is of type { UndefinedObject StandardFileStream }
- Good: IndexFile.timeSortedEntries is of type { UndefinedObject SortedCollection }
- Bad: IndexFileEntry.time is of type Top
- Bad: IndexFileEntry.msgID is of type Top
- Bad: IndexFileEntry.messageFile is of type Top
- Bad: IndexFileEntry.cc is of type Top

- Bad: IndexFileEntry.tocLineCache is of type { B3DTexture2Array B3DPrimitiveRasterizerData Integer PointArray CompiledApplescript ByteArray ArrayedCollection SoundBuffer ExternalAddress ShortIntegerArray KlattFrame B3DMaterialColor GraphicSymbol B3DVector3 FlippyArray2 WeakArray Pixmap WordArray B3DVector2Array B3DIndexedQuad B3DVector3Array DescType B3DPrimitiveVertexArray B3DRotation B3DIndexedTriangleArray WordArrayForSegment B3DIndexedQuadArray String B3DPrimitiveLight LargePositiveInteger ComponentInstance StandardSourceFileArray B3DIndexedTriangle FloatArray B3DColor4 OnceOnlyOrderedCollection TranslatedMethod DirectoryEntry Array2D B3DFloatArray AEDesc RunArray Symbol B3DInplaceArray Text Array B3DMaterial B3DRotationArray ApplescriptInstance MappedCollection B3DColor4Array Interval Heap UrlArgumentList SourceFileArray B3DLightAttenuation ShortPointArray B3DVector4 B3DVector2 SequenceableCollection MacExternalData OrderedCollection B3DExponentTable B3DViewingFrustum IntegerArray ShortRunArray SortedCollection Bitmap LinkedList B3DMatrix4x4 Semaphore TextLineInterval LargeNegativeInteger CompiledMethod OSAID UndefinedObject SmallInteger }
- Bad: IndexFileEntry.location is of type Top
- Bad: IndexFileEntry.to is of type Top
- Bad: IndexFileEntry.textLength is of type Top
- Bad: IndexFileEntry.subject is of type Top
- Bad: IndexFileEntry.from is of type Top
- Good: MIMEHeaderValue.mainValue is of type { UndefinedObject String Character }
- Bad: MIMEHeaderValue.parameters is of type Top
- Bad: MIMEPart.content is of type { SequenceableCollection++ Integer++ UndefinedObject B3DIndexedQuad B3DPrimitiveRasterizerData B3DIndexedTriangle }
- Good: MIMEPart.parts is of type { Array UndefinedObject OrderedCollection }
- Bad: MIMEPart.separator is of type Top
- Bad: MIMEPart.text is of type Top
- Good: MIMEPart.fields is of type { UndefinedObject Dictionary }
- Good: MailDB.rootFilename is of type { String UndefinedObject }

- Bad: MailDB.indexFile is of type Top
- Bad: MailDB.messageFile is of type Top
- Bad: MailDB.categoriesFile is of type Top
- Bad: MailDBFile.filename is of type Top
- Good: MailMessage.time is of type { UndefinedObject SmallInteger }
- Bad: MailMessage.separator is of type Top
- Bad: MailMessage.cc is of type Top
- Good: MailMessage.body is of type { UndefinedObject MIMEDocument }
- Bad: MailMessage.to is of type Top
- Bad: MailMessage.text is of type Top
- Bad: MailMessage.subject is of type Top
- Good: MailMessage.fields is of type { UndefinedObject Dictionary }
- Bad: MailMessage.from is of type Top
- Good: MailMessage.parts is of type { Array UndefinedObject OrderedCollection }
- Bad: MailNotifier.lastConnectTime is of type Top
- Bad: MailNotifier.messageCount is of type Top
- Good: MailNotifier.password is of type UndefinedObject
- Good: MailNotifier.socket is of type { UndefinedObject POPSocket }
- Good: MessageFile.file is of type { CrLfFileStream UndefinedObject }
- Bad: ReadNewsInboxFile.currentNewsgroup is of type Top
- Good: ReadNewsInboxFile.msgBuffer is of type { UndefinedObject WriteStream }
- Bad: TextMessageLink.message is of type Top
- Bad: RBAssignmentNode.variable is of type Top
- Bad: RBAssignmentNode.assignment is of type Top
- Bad: RBAssignmentNode.value is of type Top
- Good: RBBlockNode.colons is of type { UndefinedObject OrderedCollection }

- Bad: RBBlockNode.bar is of type Top
- Bad: RBBlockNode.right is of type Top
- Bad: RBBlockNode.left is of type Top
- Bad: RBBlockNode.body is of type Top
- Bad: RBBlockNode.arguments is of type Top
- Bad: RBCascadeNode.messages is of type Top
- Good: RBCascadeNode.semicolons is of type { UndefinedObject OrderedCollection }
- Good: RBFormatter.codeStream is of type { UndefinedObject WriteStream }
- Bad: RBFormatter.lineStart is of type Top
- Bad: RBFormatter.firstLineLength is of type Top
- Good: RBFormatter.tabs is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: RBLiteralNode.token is of type Top
- Bad: RBMessageNode.arguments is of type Top
- Bad: RBMessageNode.receiver is of type Top
- Bad: RBMessageNode.selector is of type Top
- Bad: RBMessageNode.selectorParts is of type Top
- Good: RBMethodNode.tags is of type { UndefinedObject OrderedCollection }
- Bad: RBMethodNode.selector is of type Top
- Bad: RBMethodNode.selectorParts is of type Top
- Bad: RBMethodNode.body is of type Top
- Bad: RBMethodNode.source is of type Top
- Bad: RBMethodNode.arguments is of type Top
- Bad: RBOptimizedNode.body is of type Top
- Bad: RBOptimizedNode.right is of type Top
- Bad: RBOptimizedNode.left is of type Top
- Good: RBParser.scanner is of type { RBScanner UndefinedObject }

- Bad: RBParser.tags is of type Object++
- Bad: RBParser.source is of type Top
- Good: RBParser.emptyStatements is of type { True UndefinedObject False }
- Good: RBParser.currentToken is of type { RBShortAssignmentToken RBOptimizedToken UndefinedObject RBToken RBPatternBlockToken RBScanner RBLiteralToken RBAssignmentToken RBKeywordToken RBBinarySelectorToken RBIdentifierToken RBSpecialCharacterToken }
- Good: RBParser.negatedNumbers is of type { True UndefinedObject False }
- Good: RBParser.errorBlock is of type { UndefinedObject a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType a BlockType }
- Good: RBParser.nextToken is of type { RBShortAssignmentToken RBOptimizedToken UndefinedObject RBToken RBPatternBlockToken RBScanner RBLiteralToken RBAssignmentToken RBKeywordToken RBBinarySelectorToken RBIdentifierToken RBSpecialCharacterToken }
- Good: RBPatternMessageNode.isCascadeList is of type { True UndefinedObject False }
- Good: RBPatternMessageNode.isList is of type { True UndefinedObject False }
- Good: RBPatternMethodNode.isList is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.recurseInto is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isLiteral is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isStatement is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isAnything is of type { True UndefinedObject False }
- Good: RBPatternVariableNode.isList is of type { True UndefinedObject False }
- Bad: RBProgramNode.parent is of type Top

- Bad: RBProgramNode.comments is of type Top
- Bad: RBReturnNode.return is of type Top
- Bad: RBReturnNode.value is of type Top
- Bad: RBSequenceNode.rightBar is of type Top
- Good: RBSequenceNode.periods is of type { UndefinedObject OrderedCollection }
- Bad: RBSequenceNode.temporaries is of type Top
- Bad: RBSequenceNode.statements is of type Top
- Bad: RBSequenceNode.leftBar is of type Top
- Good: RBValueNode.parentheses is of type { UndefinedObject OrderedCollection }
- Good: RBVariableNode.token is of type { RBIdentifierToken UndefinedObject }
- Bad: ADPCMCodec.index is of type Top
- Good: ADPCMCodec.indexTable is of type { Array UndefinedObject SoundBuffer }
- Bad: ADPCMCodec.deltaSignMask is of type Top
- Bad: ADPCMCodec.bitPosition is of type Top
- Bad: ADPCMCodec.encodedBytes is of type Top
- Good: ADPCMCodec.stepSizeTable is of type { Array UndefinedObject SoundBuffer }
- Good: ADPCMCodec.sampleIndex is of type { SmallInteger LargeNegativeInteger LargePositiveInteger UndefinedObject Array }
- Good: ADPCMCodec.rightSamples is of type { UndefinedObject SoundBuffer }
- Good: ADPCMCodec.byteIndex is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ADPCMCodec.frameSizeMask is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: ADPCMCodec.bitsPerSample is of type Top
- Bad: ADPCMCodec.predicted is of type Top

- Bad: ADPCMCodec.deltaValueHighBit is of type Top
- Bad: ADPCMCodec.deltaValueMask is of type Top
- Bad: ADPCMCodec.currentByte is of type Top
- Bad: ADPCMCodec.samples is of type Top
- Good: AIFFFileReader.channelData is of type { UndefinedObject Array }
- Bad: AIFFFileReader.frameCount is of type Top
- Bad: AIFFFileReader.isLooped is of type Top
- Bad: AIFFFileReader.gain is of type Top
- Bad: AIFFFileReader.in is of type Top
- Bad: AIFFFileReader.fileType is of type Top
- Bad: AIFFFileReader.pitch is of type Top
- Bad: AIFFFileReader.markers is of type Top
- Bad: AIFFFileReader.channelCount is of type Top
- Good: AIFFFileReader.bitsPerSample is of type { UndefinedObject SmallInteger }
- Good: AIFFFileReader.mergeIfStereo is of type { True UndefinedObject False }
- Good: AIFFFileReader.skipDataChunk is of type { True UndefinedObject False }
- Bad: AIFFFileReader.samplingRate is of type Top
- Bad: AbstractSound.envelopes is of type Top
- Bad: AbstractSound.mSecsSinceStart is of type Top
- Bad: AbstractSound.scaledVolLimit is of type Top
- Bad: AbstractSound.scaledVol is of type Top
- Bad: AbstractSound.samplesUntilNextControl is of type Top
- Bad: AbstractSound.scaledVolIncr is of type Top
- Bad: CompressedSoundData.perceivedPitch is of type Top
- Bad: CompressedSoundData.codecName is of type Top

- Good: CompressedSoundData.channels is of type { UndefinedObject Array }
- Bad: CompressedSoundData.gain is of type Top
- Bad: CompressedSoundData.firstSample is of type Top
- Bad: CompressedSoundData.soundClassName is of type Top
- Bad: CompressedSoundData.cachedSound is of type { WaveletCodec MuLawCodec ADPCMCodec SoundCodec UndefinedObject LoopedSampledSound GSMCodec SampledSound }
- Bad: CompressedSoundData.loopLength is of type Top
- Bad: CompressedSoundData.samplingRate is of type Top
- Bad: CompressedSoundData.loopEnd is of type Top
- Bad: Envelope.target is of type Top
- Bad: Envelope.scale is of type Top
- Good: Envelope.updateSelector is of type { UndefinedObject #pitch: #modulation: #ratio: }
- Bad: Envelope.loopEndMSecs is of type { Magnitude++ UndefinedObject }
- Bad: Envelope.endMSecs is of type Top
- Bad: Envelope.currValue is of type Top
- Bad: Envelope.loopStartIndex is of type Top
- Bad: Envelope.valueIncr is of type Top
- Good: Envelope.noChangesDuringLoop is of type { True UndefinedObject False }
- Bad: Envelope.nextRecomputeTime is of type Top
- Bad: Envelope.loopEndIndex is of type Top
- Bad: Envelope.loopMSecs is of type Top
- Bad: Envelope.loopStartMSecs is of type Top
- Bad: Envelope.decayScale is of type Top
- Bad: Envelope.points is of type Top
- Bad: Envelope.lastValue is of type Top

- Bad: FFT.permTable is of type { SequenceableCollection++ Integer++ UndefinedObject B3DIndexedQuad B3DPrimitiveRasterizerData B3DIndexedTriangle }
- Bad: FFT.nu is of type Top
- Bad: FFT.n is of type Top
- Good: FFT.sinTable is of type { Array UndefinedObject FloatArray }
- Good: FFT.imagData is of type { Array UndefinedObject FloatArray }
- Good: FFT.window is of type { UndefinedObject FloatArray }
- Good: FFT.realData is of type { Array UndefinedObject FloatArray }
- Bad: FMSound.initialCount is of type Top
- Bad: FMSound.multiplier is of type Top
- Bad: FMSound.scaledOffsetIndex is of type Top
- Bad: FMSound.waveTable is of type Top
- Bad: FMSound.scaledWaveTableSize is of type Top
- Bad: FMSound.scaledIndex is of type Top
- Bad: FMSound.normalizedModulation is of type Top
- Bad: FMSound.scaledOffsetIndexIncr is of type Top
- Bad: FMSound.modulation is of type Top
- Bad: FMSound.scaledIndexIncr is of type Top
- Bad: FMSound.count is of type Top
- Good: FWT.transform is of type { UndefinedObject Array }
- Bad: FWT.beta is of type Top
- Good: FWT.gTilde is of type { UndefinedObject Array }
- Good: FWT.coeffs is of type { UndefinedObject Array }
- Good: FWT.g is of type { UndefinedObject Array }
- Bad: FWT.nSamples is of type Top
- Bad: FWT.nLevels is of type Top
- Bad: FWT.alpha is of type Top
- Good: FWT.h is of type { UndefinedObject Array }

- Good: FWT.samples is of type { UndefinedObject Array }
- Good: FWT.hTilde is of type { UndefinedObject Array }
- Bad: GSMCodec.encodeState is of type Top
- Bad: GSMCodec.decodeState is of type Top
- Bad: LoopedSampledSound.initialCount is of type Top
- Good: LoopedSampledSound.perceivedPitch is of type { UndefinedObject Float }
- Bad: LoopedSampledSound.scaledLoopLength is of type Top
- Bad: LoopedSampledSound.lastSample is of type Top
- Bad: LoopedSampledSound.gain is of type Top
- Bad: LoopedSampledSound.scaledIndexIncr is of type Top
- Bad: LoopedSampledSound.releaseCount is of type Top
- Bad: LoopedSampledSound.firstSample is of type Top
- Bad: LoopedSampledSound.sampleCountForRelease is of type Top
- Bad: LoopedSampledSound.rightSamples is of type Top
- Bad: LoopedSampledSound.leftSamples is of type Top
- Bad: LoopedSampledSound.scaledIndex is of type Top
- Bad: LoopedSampledSound.originalSamplingRate is of type Top
- Bad: LoopedSampledSound.count is of type Top
- Bad: LoopedSampledSound.loopEnd is of type Top
- Good: MixedSound.soundDone is of type { UndefinedObject Array }
- Good: MixedSound.sounds is of type { UndefinedObject Array }
- Good: MixedSound.leftVols is of type { UndefinedObject Array }
- Good: MixedSound.rightVols is of type { UndefinedObject Array }
- Bad: PitchEnvelope.centerPitch is of type Top
- Bad: PluckedSound.initialCount is of type Top
- Bad: PluckedSound.ring is of type Top
- Good: PluckedSound.scaledIndexLimit is of type UndefinedObject

- Bad: PluckedSound.scaledIndex is of type Top
- Bad: PluckedSound.scaledIndexIncr is of type Top
- Bad: PluckedSound.count is of type Top
- Good: RandomEnvelope.rand is of type { Random UndefinedObject }
- Good: RandomEnvelope.highLimit is of type { UndefinedObject Float }
- Good: RandomEnvelope.lowLimit is of type { UndefinedObject Float }
- Good: RandomEnvelope.delta is of type { UndefinedObject Float }
- Bad: RepeatingSound.iteration is of type Top
- Bad: RepeatingSound.iterationCount is of type Top
- Bad: RepeatingSound.sound is of type Top
- Bad: RepeatingSound.samplesPerIteration is of type Top
- Bad: RestSound.initialCount is of type Top
- Bad: RestSound.count is of type Top
- Good: ReverbSound.tapGains is of type { UndefinedObject Bitmap }
- Good: ReverbSound.bufferSize is of type { Bitmap LargeNegativeInteger LargePositiveInteger UndefinedObject SmallInteger }
- Good: ReverbSound.rightBuffer is of type { UndefinedObject SoundBuffer }
- Good: ReverbSound.leftBuffer is of type { UndefinedObject SoundBuffer }
- Good: ReverbSound.tapCount is of type { UndefinedObject SmallInteger }
- Good: ReverbSound.tapDelays is of type { UndefinedObject Bitmap }
- Bad: ReverbSound.bufferIndex is of type Top
- Good: ReverbSound.sound is of type UndefinedObject
- Good: SampledInstrument.sustainedSoft is of type { UndefinedObject Array }
- Bad: SampledInstrument.staccatoSoft is of type Top
- Good: SampledInstrument.staccatoLoud is of type { UndefinedObject Array }

- Good: SampledInstrument.sustainedThreshold is of type { UndefinedObject Float }
- Good: SampledInstrument.sustainedLoud is of type { UndefinedObject Array }
- Good: SampledInstrument.loudThreshold is of type { UndefinedObject Float }
- Bad: SampledSound.initialCount is of type Top
- Bad: SampledSound.samples is of type Top
- Bad: SampledSound.scaledIncrement is of type Top
- Bad: SampledSound.scaledIndex is of type Top
- Bad: SampledSound.indexHighBits is of type Top
- Bad: SampledSound.samplesSize is of type Top
- Bad: SampledSound.originalSamplingRate is of type Top
- Bad: SampledSound.count is of type Top
- Good: SequentialSound.sounds is of type { UndefinedObject Array }
- Good: SequentialSound.currentIndex is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: Sonogram.lastX is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: Sonogram.pixValMap is of type { UndefinedObject Bitmap }
- Good: Sonogram.maxVal is of type { UndefinedObject Float }
- Good: Sonogram.minVal is of type { UndefinedObject Float }
- Good: Sonogram.scrollDelta is of type { UndefinedObject SmallInteger }
- Good: Sonogram.columnForm is of type { Form UndefinedObject }
- Bad: SoundInputStream.mutex is of type Top
- Bad: SoundInputStream.bufferSize is of type Top
- Good: SoundRecorder.currentBuffer is of type { UndefinedObject SoundBuffer }
- Bad: SoundRecorder.recordProcess is of type Top
- Good: SoundRecorder.codec is of type { GSMCodec UndefinedObject }

- Good: SoundRecorder.desiredSampleRate is of type { UndefinedObject Float }
- Bad: SoundRecorder.nextIndex is of type Top
- Good: SoundRecorder.meteringBuffer is of type { UndefinedObject SoundBuffer }
- Bad: SoundRecorder.meterLevel is of type Top
- Good: SoundRecorder.stereo is of type { False UndefinedObject }
- Good: SoundRecorder.recordLevel is of type { UndefinedObject Float }
- Good: SoundRecorder.soundPlaying is of type { SampledSound SequentialSound UndefinedObject ChatRecorder SoundInputStream SoundRecorder }
- Bad: SoundRecorder.recordedBuffers is of type Top
- Good: SoundRecorder.paused is of type { True UndefinedObject False }
- Bad: SoundRecorder.samplingRate is of type Top
- Good: SoundRecorder.recordedSound is of type { SampledSound SequentialSound UndefinedObject ChatRecorder SoundInputStream SoundRecorder }
- Good: SoundRecorder.bufferAvailableSema is of type { Semaphore UndefinedObject }
- Bad: VolumeEnvelope.mSecsForChange is of type { Magnitude++ UndefinedObject }
- Bad: VolumeEnvelope.targetVol is of type Top
- Good: VolumeEnvelope.currentVol is of type UndefinedObject
- Bad: WaveletCodec.alpha is of type Top
- Bad: WaveletCodec.beta is of type Top
- Good: WaveletCodec.fwt is of type { FWT UndefinedObject }
- Bad: WaveletCodec.samplesPerFrame is of type Top
- Bad: WaveletCodec.nLevels is of type Top
- Bad: TestInterfaceBase.duration is of type Top
- Bad: TestInterfaceBase.classPattern is of type { SequenceableCollection++ Integer++ Boolean++ UndefinedObject B3DIndexedQuad B3DPrimitiveRasterizerData B3DIndexedTriangle }

- Bad: TestInterfaceBase.result is of type Top
- Bad: TestInterfaceBase.selectorPattern is of type Top
- Good: TestModel.failureList is of type { UndefinedObject OrderedCollection }
- Good: TestModel.patternHistory is of type { UndefinedObject OrderedCollection }
- Good: TestModel.errorList is of type { UndefinedObject OrderedCollection }
- Good: TestModel.summaryText is of type { String UndefinedObject }
- Bad: TestModel.summaryTextM is of type { PluggableTextMorph++ PluggableTextView UndefinedObject }
- Good: TestModel.summaryTextV is of type { PluggableTextView UndefinedObject }
- Good: TestModel.updateColorSelector is of type { UndefinedObject #updateColorM #updateColorV }
- Good: TestModel.patternTextV is of type { PluggableTextView UndefinedObject }
- Bad: TestModel.patternTextM is of type { PluggableTextMorph++ PluggableTextView UndefinedObject }
- Bad: TestModel.detailsText is of type Top
- Bad: BitBltSimulation.sy is of type Top
- Bad: BitBltSimulation.halftoneBase is of type Top
- Good: BitBltSimulation.cmBlueShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: BitBltSimulation.destWidth is of type Top
- Bad: BitBltSimulation.destX is of type Top
- Bad: BitBltSimulation.width is of type Top
- Bad: BitBltSimulation.scanString is of type Top
- Bad: BitBltSimulation.sourceBits is of type Top
- Bad: BitBltSimulation.scanStop is of type Top
- Bad: BitBltSimulation.dy is of type Top

- Good: BitBltSimulation.warpBitShiftTable is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.destPixSize is of type Top
- Bad: BitBltSimulation.pixPerWord is of type Top
- Good: BitBltSimulation.ditherValues16 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.cmRedMask is of type Top
- Bad: BitBltSimulation.warpSrcMask is of type Top
- Bad: BitBltSimulation.dstBitShift is of type Top
- Bad: BitBltSimulation.destIndex is of type Top
- Bad: BitBltSimulation.sourceIndex is of type Top
- Bad: BitBltSimulation.clipX is of type Top
- Good: BitBltSimulation.hDir is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.nWords is of type Top
- Bad: BitBltSimulation.clipHeight is of type Top
- Bad: BitBltSimulation.bitBltOop is of type Top
- Bad: BitBltSimulation.preload is of type Top
- Bad: BitBltSimulation.opTable is of type Top
- Bad: BitBltSimulation.sourceForm is of type Top
- Bad: BitBltSimulation.warpAlignMask is of type Top
- Bad: BitBltSimulation.skew is of type Top
- Good: BitBltSimulation.cmDeltaBits is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: BitBltSimulation.ditherMatrix4x4 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.sourceY is of type Top
- Bad: BitBltSimulation.scanStart is of type Top
- Good: BitBltSimulation.cmGreenShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }

- Bad: BitBltSimulation.destBits is of type Top
- Bad: BitBltSimulation.destPitch is of type Top
- Bad: BitBltSimulation.height is of type Top
- Bad: BitBltSimulation.sourcePitch is of type Top
- Bad: BitBltSimulation.destY is of type Top
- Bad: BitBltSimulation.affectedL is of type Top
- Good: BitBltSimulation.maskTable is of type { UndefinedObject Array }
- Good: BitBltSimulation.scanDisplayFlag is of type { True UndefinedObject False }
- Bad: BitBltSimulation.mask1 is of type Top
- Bad: BitBltSimulation.destDelta is of type Top
- Good: BitBltSimulation.noHalftone is of type { True UndefinedObject False }
- Bad: BitBltSimulation.clipWidth is of type Top
- Bad: BitBltSimulation.destForm is of type Top
- Bad: BitBltSimulation.sx is of type Top
- Bad: BitBltSimulation.clipY is of type Top
- Bad: BitBltSimulation.scanRightX is of type Top
- Good: BitBltSimulation.cmBlueMask is of type { Boolean LargeNegativeInteger UndefinedObject SmallInteger Integer class LargePositiveInteger }
- Bad: BitBltSimulation.halftoneHeight is of type Top
- Bad: BitBltSimulation.affectedT is of type Top
- Bad: BitBltSimulation.sourcePixSize is of type Top
- Good: BitBltSimulation.cmRedShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: BitBltSimulation.noSource is of type { True UndefinedObject False }
- Bad: BitBltSimulation.dx is of type Top
- Bad: BitBltSimulation.destMask is of type Top

- Bad: BitBltSimulation.affectedB is of type Top
- Bad: BitBltSimulation.cmGreenMask is of type Top
- Good: BitBltSimulation.hasSurfaceLock is of type { True UndefinedObject False }
- Bad: BitBltSimulation.stopCode is of type Top
- Bad: BitBltSimulation.combinationRule is of type Top
- Bad: BitBltSimulation.bitCount is of type Top
- Good: BitBltSimulation.vDir is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.destHeight is of type Top
- Good: BitBltSimulation.cmBitsPerColor is of type { UndefinedObject SmallInteger }
- Bad: BitBltSimulation.bbH is of type Top
- Bad: BitBltSimulation.bbW is of type Top
- Bad: BitBltSimulation.srcWidth is of type Top
- Bad: BitBltSimulation.affectedR is of type Top
- Good: BitBltSimulation.ditherThresholds16 is of type { CArrayAccessor UndefinedObject }
- Bad: BitBltSimulation.sourceDelta is of type Top
- Good: BitBltSimulation.warpSrcShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: BitBltSimulation.halftoneForm is of type Top
- Bad: BitBltSimulation.mask2 is of type Top
- Bad: BitBltSimulation.scanXTable is of type Top
- Bad: BitBltSimulation.scanStopArray is of type Top
- Bad: BitBltSimulation.sourceAlpha is of type Top
- Bad: BitBltSimulation.colorMap is of type Top
- Good: BitBltSimulation.warpAlignShift is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: BitBltSimulation.sourceX is of type Top

- Bad: BitBltSimulation.srcBitShift is of type Top
- Bad: BitBltSimulation.srcHeight is of type Top
- Bad: Interpreter.activeContext is of type Top
- Bad: Interpreter.nextWakeupTick is of type Top
- Bad: Interpreter.localIP is of type Top
- Bad: Interpreter.localHomeContext is of type Top
- Good: Interpreter.methodCache is of type { UndefinedObject Array }
- Bad: Interpreter.interruptKeycode is of type Top
- Good: Interpreter.semaphoresToSignalCountA is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: Interpreter.interruptCheckCounterFeedBackReset is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: Interpreter.interpreterVersion is of type UndefinedObject
- Good: Interpreter.obsoleteNamedPrimitiveTable is of type { CArrayAccessor UndefinedObject }
- Good: Interpreter.interpreterProxy is of type { UndefinedObject InterpreterSimulator InterpreterSimulatorMSB InterpreterSimulatorLSB }
- Bad: Interpreter.receiver is of type Top
- Bad: Interpreter.stackPointer is of type Top
- Bad: Interpreter.receiverClass is of type Top
- Good: Interpreter.obsoleteIndexedPrimitiveTable is of type { CArrayAccessor UndefinedObject }
- Bad: Interpreter.successFlag is of type Top
- Good: Interpreter.compilerHooks is of type UndefinedObject
- Bad: Interpreter.fullScreenFlag is of type { Interpreter InterpreterSimulator InterpreterSimulatorLSB UndefinedObject InterpreterSimulatorMSB }
- Bad: Interpreter.primitiveIndex is of type Top
- Good: Interpreter.semaphoresToSignalB is of type { UndefinedObject Array }

- Bad: Interpreter.compilerInitialized is of type Top
- Bad: Interpreter.localSP is of type Top
- Bad: Interpreter.instructionPointer is of type Top
- Good: Interpreter.semaphoresUseBufferA is of type { True UndefinedObject False }
- Good: Interpreter.deferDisplayUpdates is of type { True UndefinedObject False }
- Bad: Interpreter.theHomeContext is of type Top
- Bad: Interpreter.extraVMMemory is of type Top
- Bad: Interpreter.method is of type Top
- Good: Interpreter.pendingFinalizationSignals is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: Interpreter.newMethod is of type Top
- Good: Interpreter.semaphoresToSignalA is of type { UndefinedObject Array }
- Bad: Interpreter.methodClass is of type Top
- Bad: Interpreter.newNativeMethod is of type Top
- Good: Interpreter.atCache is of type { UndefinedObject Array }
- Bad: Interpreter.argumentCount is of type Top
- Bad: Interpreter.currentBytecode is of type Top
- Good: Interpreter.interruptPending is of type { False UndefinedObject }
- Good: Interpreter.interruptChecksEveryNms is of type { UndefinedObject SmallInteger }
- Bad: Interpreter.nextPollTick is of type Top
- Bad: Interpreter.lkupClass is of type Top
- Good: Interpreter.reclaimableContextCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: Interpreter.savedWindowSize is of type Top
- Bad: Interpreter.lastTick is of type Top

- Good: Interpreter.semaphoresToSignalCountB is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: Interpreter.messageSelector is of type { LargePositiveInteger InterpreterSimulatorMSB Bitmap InterpreterSimulator Interpreter LargeNegativeInteger InterpreterSimulatorLSB SmallInteger UndefinedObject }
- Bad: Interpreter.showSurfaceFn is of type Top
- Good: InterpreterSimulator.myBitBlt is of type { False UndefinedObject BitBltSimulator }
- Good: InterpreterSimulator.traceOn is of type { UndefinedObject True }
- Bad: InterpreterSimulator.imageName is of type Top
- Bad: InterpreterSimulator.pluginList is of type Top
- Good: InterpreterSimulator.sendCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: InterpreterSimulator.displayForm is of type { Form UndefinedObject }
- Good: InterpreterSimulator.mappedPluginEntries is of type { UndefinedObject Array }
- Good: InterpreterSimulator.filesOpen is of type { UndefinedObject OrderedCollection }
- Good: InterpreterSimulator.byteCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.signalLowSpace is of type { True UndefinedObject False }
- Bad: ObjectMemory.tenuringThreshold is of type Top
- Bad: ObjectMemory.lastHash is of type Top
- Bad: ObjectMemory.statIncrGCMSecs is of type Top
- Good: ObjectMemory.remapBuffer is of type { UndefinedObject Array }
- Bad: ObjectMemory.trueObj is of type Top
- Bad: ObjectMemory.statFullGCMSecs is of type Top
- Bad: ObjectMemory.freeLargeContexts is of type Top
- Bad: ObjectMemory.lowSpaceThreshold is of type Top

- Bad: ObjectMemory.allocationsBetweenGCs is of type Top
- Good: ObjectMemory.interruptCheckCounter is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: ObjectMemory.freeContexts is of type Top
- Bad: ObjectMemory.compStart is of type Top
- Bad: ObjectMemory.youngStart is of type Top
- Bad: ObjectMemory.compEnd is of type Top
- Bad: ObjectMemory.totalObjectFoundAtStartup is of type Top
- Bad: ObjectMemory.memoryLimit is of type Top
- Bad: ObjectMemory.endOfMemory is of type Top
- Bad: ObjectMemory.specialObjectsOop is of type Top
- Good: ObjectMemory.statFullGCs is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.statTenures is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: ObjectMemory.nilObj is of type Top
- Bad: ObjectMemory.child is of type Top
- Bad: ObjectMemory.fwdTableLast is of type Top
- Bad: ObjectMemory.fwdTableNext is of type Top
- Good: ObjectMemory.rootTableCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.allocationCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: ObjectMemory.falseObj is of type Top
- Good: ObjectMemory.remapBufferCount is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Bad: ObjectMemory.parentField is of type Top
- Bad: ObjectMemory.field is of type Top
- Good: ObjectMemory.memory is of type { Interpreter UndefinedObject InterpreterSimulatorMSB InterpreterSimulatorLSB Bitmap InterpreterSimulator }

- Bad: ObjectMemory.freeBlock is of type Top
- Good: ObjectMemory.statRootTableOverflows is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.rootTable is of type { UndefinedObject Array }
- Good: ObjectMemory.statIncrGCs is of type { UndefinedObject LargePositiveInteger SmallInteger LargeNegativeInteger }
- Good: ObjectMemory.displayBits is of type { UndefinedObject SmallInteger }
- Bad: SystemMonitor.vmParameters is of type Top
- Bad: SystemMonitor.gcHighWaterMark is of type Top
- Bad: SystemMonitor.baselineSkip is of type Top
- Bad: SystemMonitor.prevAllocCount is of type Top
- Bad: SystemMonitor.prevDeltaIncrGC is of type Top
- Bad: SystemMonitor.prevMcMiss is of type Top
- Good: SystemMonitor.window is of type UndefinedObject
- Bad: SystemMonitor.prevDeltaFullGC is of type Top
- Bad: SystemMonitor.prevFullGC is of type Top
- Good: SystemMonitor.valSelectors is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevIncrGC is of type Top
- Bad: SystemMonitor.prevMsClock is of type Top
- Good: SystemMonitor.maxValues is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevAllocRate is of type Top
- Bad: SystemMonitor.gcLowWaterMark is of type Top
- Good: SystemMonitor.labels is of type { UndefinedObject Array }
- Good: SystemMonitor.minValues is of type { UndefinedObject Array }
- Bad: SystemMonitor.prevIcHit is of type Top
- Bad: SystemMonitor.prevMcHit is of type Top
- Good: SystemTracer.hashGenerator is of type { Random UndefinedObject }

- Bad: SystemTracer.maxOop is of type Top
- Good: SystemTracer.map is of type UndefinedObject
- Good: SystemTracer.initialProcess is of type UndefinedObject
- Good: SystemTracer.oopMap is of type { UndefinedObject Array }
- Bad: SystemTracer.specialObjects is of type Top
- Good: SystemTracer.file is of type { CrLfFileStream UndefinedObject }
- Good: SystemTracer.cleaningUp is of type { False UndefinedObject }
- Good: SystemTracer.writeDict is of type { UndefinedObject Dictionary }
- Good: SystemTracer.imageHeaderSize is of type { UndefinedObject SmallInteger }
- Good: SystemTracer.compactClasses is of type { UndefinedObject Array }
- Good: SystemTracer.replacementClasses is of type { UndefinedObject Dictionary }
- Bad: Browser.classOrganizer is of type Top
- Bad: Browser.systemOrganizer is of type Top
- Bad: Browser.messageListIndex is of type Top
- Bad: Browser.messageCategoryListIndex is of type Top
- Good: Browser.editSelection is of type { Boolean++ UndefinedObject #hierarchy #editClass #editComment #none #editMessageCategories #newClass #editMessage #newMessage #editSystemCategories #byteCodes }
- Bad: Browser.metaClassOrganizer is of type Top
- Bad: Browser.systemCategoryListIndex is of type Top
- Bad: Browser.metaClassIndicated is of type Top
- Bad: Browser.classListIndex is of type Top
- Bad: ChangedMessageSet.changeSet is of type Top
- Bad: HierarchyBrowser.centralClass is of type Top
- Bad: HierarchyBrowser.classList is of type Top
- Bad: MessageSet.messageList is of type Top

- Bad: MessageSet.autoSelectString is of type Top
- Bad: PackageBrowser.package is of type Top
- Bad: PackageBrowser.packageListIndex is of type Top
- Good: PackageBrowser.packageList is of type UndefinedObject
- Good: ProtocolBrowser.selectedClass is of type UndefinedObject
- Bad: ProtocolBrowser.selectedSelector is of type Top
- Bad: SelectorBrowser.classListIndex is of type Top
- Bad: SelectorBrowser.classList is of type Top
- Bad: SelectorBrowser.selectorIndex is of type Top
- Bad: SelectorBrowser.selectorList is of type Top