



# **VASmalltalk™**

## **Today and Tomorrow**

**John O'Keefe**  
**Principal Software Architect**

 **instantiations**  
**4 September 2009**



# Agenda



- Introduction
- History
- VA Smalltalk™ 8.0
- Future Directions
- Q&A

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# Who am I?



- First saw (Digitalk) Smalltalk in 1987; first used Smalltalk shortly thereafter
- Joined original IBM Smalltalk prototype team in 1990
- Joined IBM VisualAge Smalltalk development team as a founding member in 1991
- Team Lead and Chief Architect of IBM VisualAge Smalltalk from 1997 to 2007
- Retired from IBM and joined Instantiations in February 2007 to lead VA Smalltalk development team

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# Product History



- 2004 Instantiations provides VisualAge® Smalltalk support for IBM
- 2005 Instantiations licenses VisualAge Smalltalk
- 2005 VA Smalltalk 7.0
- 2006 VA Smalltalk 7.0.1
- 2007 VA Smalltalk 7.5, 7.5.1 and 7.5.2
- 2009 VA Smalltalk 8.0, **8.0.1**

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## VA Smalltalk 8.0



- Seaside
- Browser and Tools Enhancements
- Web Services Enhancements
- Revised Documentation
- Small Enhancements
- What's Missing?

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# VA Smalltalk 8.0 Driving Forces



- Industry-accepted functionality
  - Seaside and friends
- Modernization
  - Browsers
- Compatibility
  - ANSI Exceptions, Internationalization
- Performance
  - Under the covers

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## Seaside – what is it?



- Framework for developing sophisticated web apps
  - Base for higher-function frameworks
- Layered abstraction over HTTP and HTML
- Quickly build highly-interactive apps
  - HTML concepts exposed in Smalltalk
  - HTML markup hidden

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# Scriptaculous – what is it?



- Scriptaculous
  - Javascript libraries
    - Visual effects engine
    - Drag and drop (including sortable lists)
    - Ajax controls





# jQuery – what is it?



- jQuery Core
  - Fast, concise JavaScript Library
  - Simplifies HTML document traversing, event handling, animating, and Ajax interactions
- jQuery UI
  - Abstractions for low-level interaction and animation, advanced effects and high-level, theme-able widgets



# VA Smalltalk V8.0 Seaside



- Seaside 2.9alpha3 +
  - Core
  - jQuery
  - Scriptaculous
  - RSS
  - Slime
    - Extension to RB Smalllint
- Seaside Tools
- Seaside Porting Layer

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# Seaside Tools



Seaside Server Control Panel

File Edit Manage Configure

Server Adaptor	Port	Current	Peak	Total	Start Timestamp
WASstServerAdaptor	8788	0	0	0	12:57:27 PM 4/6/2009

2009/04/06 12:57:27.234|INFO|(4/6/2009 11:35:04 AM)|\*\*\* 2009-04-06T12:57:27.234-05:00 \*\*\* SST Servlet Engine (Sea  
2009/04/06 12:57:27.234|INFO|(4/6/2009 11:35:04 AM)|Server a WASstServerAdaptor: started; 8788

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# Seaside Tools



Processes - Windows Internet Explorer

http://localhost.:8788/seaside/status/WAPProcessStatus?\_s=F\_ICMlz2WufR6fkE&\_k=st\_X9jqBax83eP92

Processes

Name	Priority	State	Resumable	Switch Count	Blocking Object	
CwAsyncIOProcess: userInterrupt (4)	userInterrupt (4)	suspended	true	179516	Delay:(100ms)	<a href="#">terminate</a> <a href="#">inspect</a>
UI: (4/6/2009 11:35:04 AM): userScheduling (3)	userScheduling (3)	suspended	true	198492	Semaphore:(-1)	<a href="#">terminate</a> <a href="#">inspect</a>
HTTP Server Process for: http://:8788/ (1): userScheduling (3)	userScheduling (3)	ready	true	60	nil	<a href="#">terminate</a> <a href="#">inspect</a>
Worker 16393: userScheduling (3)	userScheduling (3)	ready	true	53	nil	<a href="#">terminate</a> <a href="#">inspect</a>
WASstServerMonitor Refresh: userScheduling (3)	userScheduling (3)	suspended	true	2064	Delay:(5000ms)	<a href="#">terminate</a> <a href="#">inspect</a>
Dispatch worker: 16396: userScheduling (3)	userScheduling (3)	suspended	true	4	Semaphore:(-1)	<a href="#">terminate</a> <a href="#">inspect</a>
Worker 16392: userScheduling (3)	userScheduling (3)	suspended	true	1	Semaphore:(-1)	<a href="#">terminate</a> <a href="#">inspect</a>
16397: systemBackground (1)	systemBackground (1)	suspended	true	1	Delay:(300000ms)	<a href="#">terminate</a> <a href="#">inspect</a>
Idle 10:04:31 AM: systemBackground (1)	systemBackground (1)	ready	true	970184	nil	<a href="#">terminate</a> <a href="#">inspect</a>

New Session Configure Halos XHTML 219/312 ms

Internet 100%

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# Seaside Porting Layer



- Classes and class extensions to enable porting of Seaside
  - Driven primarily by needs of Seaside
    - Content is changing (as Seaside changes)
  - Implementation modeled on Squeak
  - Useful for doing other ports
    - Portions promoted to Base over time

# VA Smalltalk Seaside Cautions



- Seaside is alpha level
  - API changes likely
- Seaside Flow unsupported
  - No `#wait:` because no continuations
    - `<some code>.`  
`r := self call: aComponent. "NO, does self wait:"`  
`<more code using r>.`

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self show: aComponent onAnswer: [

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Inbox (74) - wemble... x VAStGoodies.com - Fl... x

Google

← → ↻ ☆ http://vastgoodies.com/ ▶

International Sup... MSDN Code Galle... Suggested Sites Web Mail Messages Web Slice Gallery Windows SDK D... Other bookmarks

# VAStGoodies.com

(Beta version)

Your VA Smalltalk OSS repository. Powered by **VASmalltalk** with **SEASIDE**.

Configuration Maps | Applications | Projects | Developers | Search | Statistics | RSS | Disclaimer | About | Help

<b>Configuration Map Names</b> Cloudfork Cloudfork ActiveItem Compuware SplitterWidget <b>Flotr Core</b> JQuery-plugin Bind JQuery-plugin QTip JQuery-plugin Radiobutton and Checkbox JQuery-plugin Table Sorter JQuery/JQueryUI JQuery/JQueryUI Tests Mastering ENVY/Developer Refactoring Browser Ex... MetaTest Browser MethodWrappers MethodWrappersBase MSKFreelImageWrapper MSKGeneralDatabase MSKGLibWrapper MSKGLibWrapperWithTests MSKLogging MSKLua MSKLuaWithTests MSKOpenGLSupport MSKPlatformExtension MSKPostgreSQL MSKPostgreSQLAbtDBMLayer MSKPostgreSQLAbtDBMLayerWithTests MSKPostgreSQLWithTests MSKProcessViewer MSKRemoteCommandTools MSKRexSupport MSKRexSupportWithTests MSKSQLite MSKSQLiteWithTests MSKSyslog MSKSystemExtension MSKTreBinding	<b>Versions</b> <a href="#">Download</a> Flotr-rcs.8 SH 0.1	<b>Applications</b> <a href="#">Browse</a> FlotrApp Squeak-Flotr-rcs.8 sh 0.1 FlotrPlatformApp Flotr-rcs.8 sh 0.1
	<b>Config. Expressions</b> System productVersion="8.0"	<b>Required Maps</b> <a href="#">Jump</a> VA Assist Pro for VisualAge V 8.0.0 [122]
	<b>Notes</b> Requirements: VASt 8.0 Flotr version: Flotr-rcs.8 07.05.2009 MIT License Work done by Sebastian Heidbrink, smallhints.seasidehosting.st  find more information on flotr at <a href="http://solutoire.com/flotr/">http://solutoire.com/flotr/</a> find more information on squeak flotr adaption by Ryan Simmons at <a href="http://www.squeaksource.com/flotr.html">http://www.squeaksource.com/flotr.html</a>  The Flotr javascript plotting library adapted to work with VASt 8.0	
<b>Comment</b> [Empty text area]		

Use the [VAStGoodies.com Tools](#) to submit your contributions.

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Information requeste... x De Nationale Autover... x

Google

← → ↻ ☆ http://denationale5.virtesverzekeringen.nl/seaside/auto\_nieuw

International Sup... MSDN Code Galle... Suggested Sites Web Mail Messages Web Slice Gallery Windows SDK D... » Other bookmarks

## Bereken uw premie

### Uw auto

? Weet u het kenteken van de auto?  ja  nee

Kenteken \*  ⓘ

Aantal kilometers per jaar \*

? Bent u de hoofdbestuurder?  ja  nee

### Uw gegevens


Geboortedatum \*  ⓘ

Postcode \*

Schadevrije jaren \*  ⓘ

### Uw verzekering

Ingangsdatum \*  ⓘ

**Bereken uw premie** 

#### ← Bereken uw premie

Vul uw gegevens in en bereken uw premie.


Kies uw verzekering

Pas uw keuze aan


Uw persoonsgegevens

Uw verzekeringsgegevens

Acceptatievragen

 **Nationaal Spaarfonds**  
onderdeel van delta lloyd groep

**delta lloyd groep**

 thuiswinkel waarborg





## VA Smalltalk 8.0



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## Driving Forces for Change



- User requests for modernized browsers
- User requests for functional merge
  - Standard browsers, VA Assist browsers, Trailblazer, Refactoring browser
- Multiple input channels
  - Conference attendees
  - VA Smalltalk Online Forum

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SubApplication Hierarchy Browser: SubApplication >>subApplications

File Edit Classes Applications Categories Methods Info Options Breakpoints

SubApplication

- Object
  - SubApplication
    - AbtBaseSwapperCrossloadin
    - AbtBase WizardWindows
    - AbtBasicEditConstructsSubA
    - AbtCommSupportWinSubA
    - AbtCompositionEditorSubA
    - AbtConnectionBuildersSubA
    - AbtConverterBaseApp
    - AbtConverterUISubApp
    - AbtEditAttachmentsCompat

AbtBaseApp  
AbtCompositionEditorS  
AbtEditCodeGeneration  
AbtEditPartsCatalogSub  
AbtEditStringSeparation  
AbtInterfaceBuildersSub  
AbtNls3to4PortingTools  
AbtNlsEditCfsSupportA  
AbtNlsMaintenanceApp  
AbtOrganizerApp  
AbtToolsAdditionsApp  
DbgRuntimeFramework

Abt-Internal  
Abt-Obsolete  
AbtEdit-Internal  
AbtNlm-Archiving-API  
AbtNlm-IndexedMsg-API  
AbtNlm-Pools-API  
AbtNlm-Query-API  
AbtNls-porting-3to4  
DBG-Internal  
EM-API  
EM-Internal  
EM-Obsolete

startUp  
statusForPrivilege:  
statusForPrivilege:is:  
storeObject:as:  
stsHideAllMethodSource ▲  
stsIsAllMethodSourceHidden ▲  
stsIsAllMethodSourceVisible ▲  
stsIsApplicationObject ▲  
stsIsSuperGroup  
stsMoreRecentClassEditions  
stsSetNewVersionName:  
stsShowAllMethodSource ▲

public      Default: Kernel      class      public

subApplications  
"Return the sub-applications which are a direct part of the receiver."  
^subApplications

(4/29/2003 7:58:34 AM) from EmApplicationSupport in 'EM-API'      source+

SubApplication Hierarchy Browser: SubApplication >> subApplications

File Edit Classes Applications Methods Info Categories Options Breakpoints

Public Private All

subApplicationConfigurations  
 subApplications  
 subApplications:  
 timeStamp  
 timeStampFor:  
 timeStampFor:is:  
 timeStamps  
 timeStamps:  
 timeStampsForObjectNamed:  
 timeStampVersionName:  
 toBeLoadedCode  
 toBeLoadedCode:

Public Private Default: Kernel Instance Class

Class Definition Method Source Method Comment Method Notes

subApplications  
 "Return the sub-applications which are a direct part of the receiver."  
 ^subApplications|

(4/29/2003 7:58:34 AM) from EmApplicationSupport in 'EM-API'



## Affected Windows



- All EtWindow children (toolbar)
- Classes browser
- Class browser
- Application browser
- Shadow application browser
- Script browser

SubApplication Hierarchy Browser: SciComWIN

File Edit Classes Applications Methods Info Categories Options Breakpoints

SciComWIN SciComWIN SCI-Internal

Public Private All

- EwWinImplementationSupport
- LibraryObjectsES
- NIsExternalizationToolsDLL
- NIsExternalizationToolsWIN
- PlatformEmulatedWidgets
- PlatformWidgetsFramework
- SciComBlocking
- SciComPolled
- SciComWIN
- SciPolledWinApp
- SciSslOpenSSLInterface

Public Private Default: Kernel Instance Class

Class Definition Method Source Class Comment Class Notes Version Graph

SciComWIN V 7.0.1 [77]a Class Version History

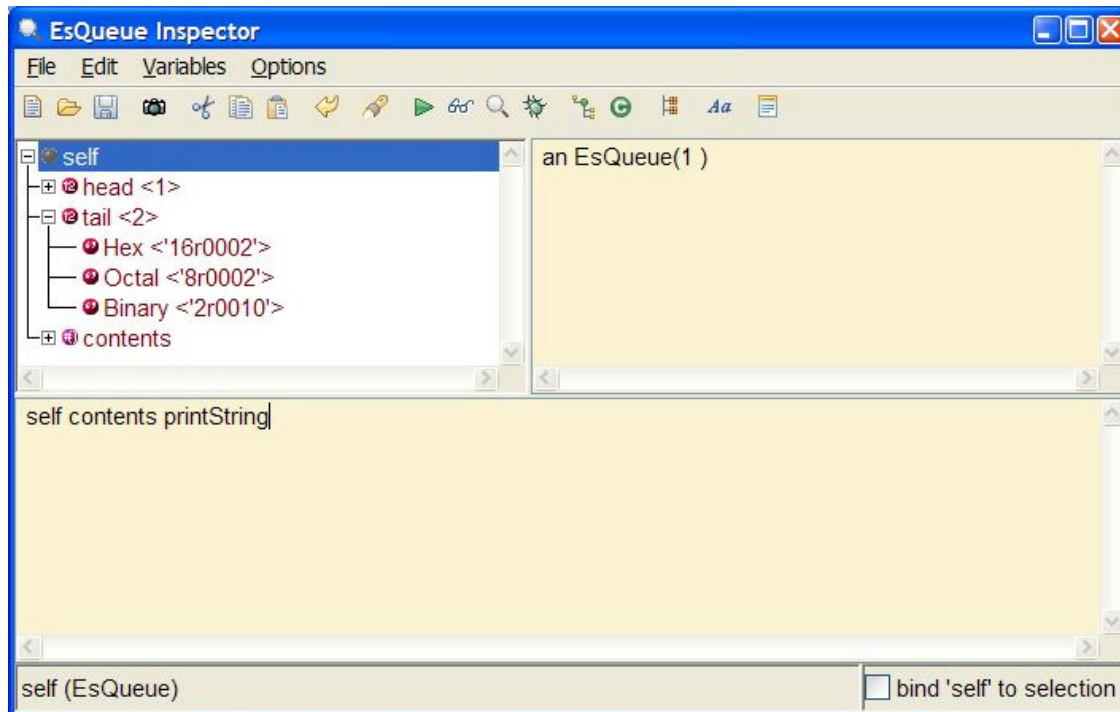
R4.0 002 R4.0 003 [Fix for 1FE4GQK]

V 6.0.0 [43] + 14886 V 6.0.0 [43] + 14886 a V 6.0.0 [43] + 14886 b V 6.0.1 [46] a V 7.0.1 [77]a

SciComWIN V 7.0.1 [77]a (Defined) in SciComWIN

The screenshot displays the 'SubApplication Hierarchy Browser' for 'SciComWIN'. The interface includes a menu bar (File, Edit, Classes, Applications, Methods, Info, Categories, Options, Breakpoints) and a toolbar with various icons. The left pane shows a tree view of subapplications, with 'SciComWIN' selected. The middle pane shows the selected subapplication 'SciComWIN', and the right pane shows 'SCI-Internal'. Below the panes are radio buttons for 'Public' (selected), 'Private', 'Default: Kernel', 'Instance', and 'Class'. A tabbed interface at the bottom shows 'Class Definition', 'Method Source', 'Class Comment', 'Class Notes', and 'Version Graph' (selected). The 'Version Graph' tab displays a graph for 'SciComWIN V 7.0.1 [77]a'. The graph shows a sequence of versions: R4.0 002, R4.0 003 [Fix for 1FE4GQK], V 6.0.0 [43] + 14886, V 6.0.0 [43] + 14886 a, V 6.0.0 [43] + 14886 b, V 6.0.1 [46] a, and V 7.0.1 [77]a. A 'Class Version History' dropdown is visible in the top right of the graph area. The status bar at the bottom indicates 'SciComWIN V 7.0.1 [77]a (Defined) in SciComWIN'.

# Inspector Enhancements



- Integer shows decimal, hex, octal, and binary
- Workspace contents discarded on inspector close
- Use Options menu to toggle workspace on/off



## Other Tools



- Refactoring Browser enhancements
  - contributed by Niall Ross
  - Changes reflected in MED RB Extensions
- SUnit Browser enhancements
  - contributed by Niall Ross



ByteArray in CLDT

File Edit Class Categories Methods Info Options

@ IuSstMarshalable  
 AbtMD5-Internal  
 AbtRAS-Internal  
 AbtRun-API  
 AbtRun-Internal  
 ANSI-API  
**CLDT-API**  
 EM-Internal  
 ES-API

=  
 asByteArray  
 byteArray:  
**byteAt:put:**  
 replaceFrom:to:with:startingAt:  
 replaceFrom:to:withObject:

instance all

byteAt: index put: value

"Store the Object argument value in the variable position of the receiver represented by the Integer argument index. Answer the Object argument value that was stored.

Fail if index is not a kind of Integer Fail if index is < 1 Fail if the receiver does not have indexed variables Fail if index is greater than the number of indexed variables in the receiver Fail if the class of value is not appropriate for the index variable type of the receiver."

<primitive: VMprObjectBasicAtPut>  
 self primitiveErrorCode = PrimErrReadOnly ifTrue: [  
 ^self basicAt: index put: value

ByteArray>>>#byteAt:put:

0000 00	temps = 0
0001 02	args = 2
0002 4A	prim = 74 VMprObjectBasicAtPut
0003 00	stackFrame = 0
0004 87	BCsendUnary0 - (sp) send unary 0 (#prim
0005 1F 20	BCpushAssocB - (b) push assoc 1 ('Prir
0007 06	BCsendEqual - (sp) send #=
0008 30 00 06 00	BCpopJumpFalseWP - (wp) pop, jum
0012 3F	BCpushSelf - push self
0013 80	BCpushTemp1 - (sp) push temp 1 (index
0014 7F	BCpushTemp0 - (sp) push temp 0 (value
0015 64 24	BCsendArgs2 - (sp) send literal 2 (#basi
0017 44	BCreturnTOS - return TOS
0018 3F	BCpushSelf - push self

(6/6/1996 6:48:49 AM) from CLDT in 'CLDT-API'

source+



# VA Smalltalk 8.0



- Seaside
- Browser and Tools Enhancements
- **Web Services Enhancements**
- Revised Documentation
- Small Enhancements
- What's Missing?

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# Web Services Enhancements



- Framework extensions
  - Document/literal and Document/literal wrapped WSDL
- Web Services Cookbook
  - Step-by-step “How do I” for deploying and invoking
    - Debugging tips
    - Serialization/de-serialization customization [future](#)
    - Hosting a web service [future](#)
- Xml Basic Tools Goodie Upgrade To Wizard



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# Revised Documentation



- Content
  - First significant content revision since IBM VisualAge Smalltalk V6.0
- Delivery mechanism = WebWorks
  - VA Smalltalk Documentation Server is gone
  - All capability available from web or local
    - Web will get 'between release' updates
    - 'Between release' updates rolled up for next release
  - PDF books *future*
- Appearance
  - Uses CSS for formatting

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Getting Started - windows Internet Explorer  
http://localhost:57002/abtwebx/7.5/gs/getscfrm.htm

onward and upward documentation for **VASmalltalk7**  
Information Center Description of Books  
Glossary Search

▶ Notices  
▶ About this book

Your first look at VA Smalltalk  
▼ The basics  
▣ What is VA Smalltalk?  
▶ Key concepts  
▣ The VA Smalltalk visual tools  
▼ Working with the Composition Editor  
▣ Parts palette  
▣ Tool bar  
▣ Free-form surface  
▣ Visual tool symbols  
▶ Building your first VA Smalltalk application

Looking further into VA Smalltalk  
▶ Building on the basics  
▶ Building the Investment application

Looking ahead  
▶ What's next?

Appendixes  
▣ Index

## Working with the Composition Editor

When creating or modifying a part, you open the Composition Editor for that part. The Composition Editor is made up of several components: the **parts palette** along the left side, the **status area** along the bottom left, the **tool bar** along the top, the **free-form surface** where you layout the part and subparts, and the **visual tool symbols** at the bottom right corner.

The screenshot shows a window titled "ToDoList - Composition Editor" with a menu bar (File, Edit, View, Options, Tools, Help) and a toolbar. On the left is a "Parts Palette" with various icons. The main area is a "Free-form surface" containing a "Window" component. At the bottom left is a "Status area" with a "Sticky" checkbox and "Window selected" text. At the bottom right are "Visual tool" symbols. The browser's address bar shows "http://localhost:57002/abtwebx/7.5/gs/getscfrm.htm" and the status bar shows "Local intranet" and "100%".

Introduction - Windows Internet Explorer

http://www2.instantiations.com/VAST/Docs/80/wwhelp/wwimpl/js/html/wwhelp.htm#href=Introduction/introduction.html

File Edit View Favorites Tools Help

Introduction

Contents Search Favorites



- Introduction
  - Introduction
  - Book Descriptions
  - Related Links
  - Trademarks
- Installation Guide
- Getting Started
- Migration Guide
- Basic Help
- How do I...
- VA Smalltalk User's Guide
- VA Smalltalk Parts Reference
- Smalltalk User's Guide
- Programmer's Reference
- Communications/Transactions
- Database Guide
- Domino Connection
- Reports Information
- Server Smalltalk Guide
- Server Guide
- Web Services Guide
- Web Connection User's Guide
- Glossary

## Introduction

*onward and upward* documentation for **VASmalltalk<sup>8</sup>**

### Using the VA Smalltalk Documentation

Browse topics in the Contents frame on the right. Click on a topic in the Navigation frame on the left to have it displayed in the contents.

Use the Back and Forward buttons on the browser to navigate within the history of viewed topics. Use the Back (  ) and Forward (  ) buttons above the Contents frame to navigate topics immediately before and after the current topic.


Navigate up the current branch of the table of contents tree by clicking on the breadcrumbs at the top of each contents page.

### Searching

To quickly locate topics on a particular subject in the documentation, enter a query in the Search tab. You can narrow the scope of your search by selecting the single book you are interested in.

When you perform a search, the results are displayed by topic title. Topics with a higher rank number are more likely to contain the information you need

### Synchronizing

After you run a search and find a topic you were looking for, click the Show in Contents button (  ) to match the navigation tree with the current topic. You might also find it useful to synchronize after following in-topic links.

### Favorites

Use the Favorites tab to bookmark topics you will want to find again quickly. You will not

Internet 150%

Text Prompter properties - Windows Internet Explorer

http://www2.instantiations.com/VAST/Docs/80/wwhelp/wwimpl/js/html/wwhelp.htm#href=rf/vatxprp.html

File Edit View Favorites Tools Help

Text Prompter properties

Contents Search Favorites

- Scale
- Scrolled Window
- Separator
- Single-Row Query
- Single-Row Query - Result Row
- Slider
- Spin Button
- SQL Statement
- Status Bar
- Status Panel
- Stored Procedure
- Tab
- Tab Strip
- Text
- Text Prompter
  - Text Prompter properties**
  - Text Prompter attributes
  - Text Prompter actions
  - Text Prompter events
- Toggle Button
- Tool Bar
- Tool Button
- Tool Separator Button
- Track Bar
- Tree View
- Variable
- View Wrapper
- Window
- Windows Notebook

Parts Reference : Text Prompter : Text Prompter properties

## Text Prompter properties

The Text Prompter part has the following properties:

**answerString**  
The *answerString* property represents the string that the user last entered into the text field. The value of this property changes when the user presses the Enter key or selects **OK** in the prompter. If the user selects **Cancel**, the value of the *answerString* property does not change.

**defaultAnswerString**  
The *defaultAnswerString* property represents the string of characters displayed in the text field each time the prompter is displayed.

**messageString**  
The *messageString* property specifies the string of characters you want to use as the text of your message.

**partName**  
The *partName* property specifies the name you want to use to describe the part. For nonvisual parts, this text appears under the icon for the part on the free-form surface.

The name of the part can consist of alphanumeric characters, and must be different from those of all other parts on the layout surface.

If you do not specify a part name, VA Smalltalk generates a unique name based on the class name of the part.

**prompterStyle**  
The *prompterStyle* property specifies the type of dialog you want the prompter to

Done Internet 150%



Text Prompter properties - Windows Internet Explorer

http://www2.instantiations.com/VAST/Docs/80/wwhelp/wwimpl/js/html/wwhelp.htm#href=rf/vatxprp.html

File Edit View Favorites Tools Help

Text Prompter properties

Contents Search Favorites

"text field" Go!

VA Smalltalk Parts Reference

**Rank Title**

- 90. Text attributes
- 84. Text properties
- 77. Text Prompter properties
- 72. Text Prompter attributes
- 63. Text Prompter events
- 43. Multi-Line Edit attributes
- 36. Multi-line Edit properties
- 9. Combo Box part limitations

Parts Reference : Text Prompter : Text Prompter properties

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Internet 150%



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## Miscellaneous



- Theme support on Windows XP
- XD image parameter import/export
- ENVY/Image Interactive Test Suites added to provide additional examples
- Simple benchmarking methods
  - `#sampleAndBrowse`
  - `#traceAndBrowse`



# Goodies from VA Smalltalk



- Mechanism for delivery of
  - *not-quite-ready* features
  - Existing website goodies
- Location
  - In product code repository
    - UML Designer
    - ...
  - In VASStGoodies.com repository

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# Unsupported Platforms



- OS/2
  - Hasn't officially shipped since VAST V6.0.1
  - Most code **REMOVED**
  - Some tidbits remain, but do not function
    - Being removed as we find it



# Deferred Function



- Full Unicode (UTF-8) support
  - Staged into V8.0.x

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# VA Smalltalk V8.0.1 Planned Content



- Seaside 3.0 Beta
  - Some porting extensions promoted to Base \*\*
- VASTGoodies.com Tools
- Unicode (UTF-8) initial support
- Portable ProgressView part added to CE palette \*\*

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# VA Smalltalk V8.0.1 Planned Content (continued)



- Windows Server 2008 and Windows 7 **official support**
- `cdecl` calling convention supported on Windows **\*\***
  - `EsEntryPoint` support **future**

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# VA Smalltalk V8.0.1 Planned Content (continued)



- UNIXProcess defaults to `bash` on Linux
- UNIX install enhancements \*\*
  - No `csch` symbolic link needed on Linux
  - Legacy `X11` directories created and linked to system `X11` directories on Linux
  - Install directory automatically created
- Sections of Web Services Cookbook on VA Forum



# VA Smalltalk V8.0.2 Top Candidates



- Seaside 3.0 GA (if available)
  - Seaside Flow
  - Development tools
    - Class browser
    - Profiler
    - ...
  - Deployment tools
    - Sample packaging instructions
    - Runtime startup
  - Seaside on Apache, etc.
    - FastCGI or AJP or ...



# VA Smalltalk V8.0.2 Top Candidates (continued)



- SST Servlet multipart forms
- Unicode (UTF-8) support *partial*
- Glorp object/relational database mapper
  - ActiveRecord support *future*
- ANSI Smalltalk
  - Timezone
- OpenSSL
  - Currency (OpenSSL 1.0)
  - Security framework
    - Wrap OpenSSL security interfaces



# Ongoing



- Platforms
  - Ubuntu 9.04
  - Fedora Core 11
  - ...
- Performance (hotspot analysis)
  - Base classes
  - XML parser
  - VM
  - ...



## Ongoing (continued)



- VM Enhancements
  - Investigate 64 bit (extended memory addressing)
  - Investigate incremental garbage collection
- Look & Feel
  - More browser enhancements
  - More native Windows widgets
  - Improved icon support
  - .png support
  - .tiff improvements



## Ongoing (continued)



- Improved install/uninstall
  - Single installer for Client and Manager
  - Install/Repair/Uninstall
  - Seamless on Vista and Windows 7 with User Account Control (UAC)
- Windows Services in Smalltalk
  - Eliminate special startup executable
  - More flexibility in structuring services
- TCP/IP V6



## Ongoing (continued)



- Web Services

- XML editor (enhancement to current XML Viewer)
- XML <-> Smalltalk classes translation
- Automated definition of Smalltalk-based web service
- Diagnostic tools
  - TCP/HTTP/SOAP Monitor
  - Performance Monitor

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## When?

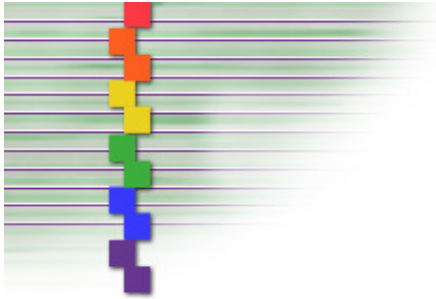


- Planned release dates:
  - 10/2009 VA Smalltalk V8.0.1
  - 04/2010 VA Smalltalk V8.0.2
- Check website for latest information

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# GETTING VA SMALLTALK

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## How do I get VA Smalltalk?

- Download evaluation copy
- Buy development licenses



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# How do I get VA Smalltalk?

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# V8.0.1 Development Builds



- An experiment in
  - Early delivery
  - Continuous integration
- Availability
  - From VA Smalltalk website
  - Irregular schedule
  - Documentation updated to match build
  - Windows and Linux only
- Fix List for build on VA Smalltalk forum

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# V8.0.1 Development Build Example



http://www2.instantiations.com/VAST/files/lastBuild/mostRecentBuild.html - Windows Internet Explorer

http://www2.instantiations.com/VAST/files/lastBuild/mostRecentBuild.html

File Edit View Favorites Tools Help

http://www2.instantiations.com/VAST/files/lastBuild/mostRecentBuild.html

## VA Smalltalk 8.0.1 development build

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last updated August 7, 2009, [b-124]

This code is provided for testing purposes only -- it is not intended for use in production.

**.Windows VA Smalltalk 8.0.1**  
Client 39mb [Download](#)  
Manager 42mb [Download](#)  
Server 3mb [Download](#)  
Windows Instructions [\(below\) »](#)

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### Downloading VA Smalltalk Version: General Information

In general, each supported VA Smalltalk platform has three downloadable components:

- Client
- Manager
- Server Runtime

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# How do I get VA Smalltalk?



- Download evaluation copy
- Buy development licenses
- Download development build
- Be a committer on an Open Source project

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# Open Source project committer



- Instantiations will donate a perpetual VA Smalltalk license
  - to committers
  - working on non-commercial open source project
- **No charge**
- Details on the VA Smalltalk home page
  - Click on 
- Click on [Company](#) at the top of any page

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- Be an educational institution

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# Academic License



- Accredited educational institutions
  - Teaching staff
  - Students
- **No charge**
- Details: [Pricing & How to Purchase](#) link on VA Smalltalk homepage

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# More info about VA Smalltalk



**General Info:** vast@instantiations.com

**Sales:** sales@instantiations.com

**Support:** vast-support@instantiations.com

**John O'Keefe:** john\_okeefe@instantiations.com

**Forum:** www.instantiations.com/forum/viewforum.php?f=12

**Website:** www.instantiations.com/vast

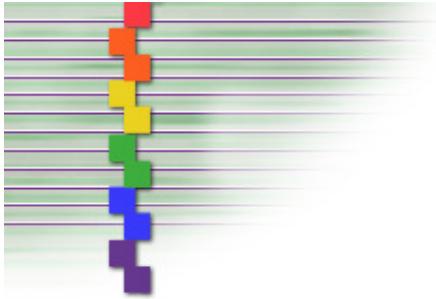
Slides available at

<http://www.instantiations.com/VAST/more/st+news+events.html>

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# Q & A

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