



VA Smalltalk Update

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Principal Smalltalk Architect
Instantiations, Inc.

But first, the rebirth of Instantiations

- Instantiations roots are in Smalltalk development tools
- The company licensed Smalltalk technology and grew
- The Smalltalk tools were very good, so the company redid them for Java and grew
 - and redid them again for Eclipse and grew
- Google liked the Java tools, so they bought that part of Instantiations
 - and Instantiations took the money and went back to its roots
- ***VA Smalltalk...Onward and Upward!***

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http://st.instantiations.com/

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instantiations

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VA Smalltalk™

Onward and upward

Free Trial

Resources

Buy

Instantiations
Same great people.
Same powerful products.
Stronger commitment
than ever to Smalltalk.

About Us

Yes it's true. Instantiations Java development products and people have a new home at Google, but VA Smalltalk™ is staying put - with the same people, same products, and same dedication to our customers and to Smalltalk.

Smalltalk is alive and well at Instantiations, as is our commitment to maintaining VA Smalltalk as a strong, modern, high ROI development environment. The new Instantiations is 100% focused on developing powerful and innovative commercial Smalltalk products, and to expanding its long-standing support for the Smalltalk community.

We appreciate your support and look forward to working with you toward a bright Smalltalk future.

News

- Instantiations is now focused entirely on Smalltalk
- Instantiations is Platinum sponsor of ESUG
- Instantiations releases VA Smalltalk 8.0.2

Awards

SD Times 2009 Top Innovator for 3 years

Business Journal Fastest Growing Private 100

Events

2010 International Smalltalk Conference
September 13 - 17, 2010
Barcelona, Spain

Quicklinks

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VA Smalltalk V8.0.2

May 2010

- Seaside 3.0 update
- GLORP initial release
- Platform currency and enhancements
- Database currency and enhancements
- Class library enhancements
- SUnit 4.0 release
- Documentation updates

Seaside 3.0

- Seaside is an open source framework for developing sophisticated web applications
 - Layered abstraction over HTTP and HTML
 - HTML concepts exposed in Smalltalk
 - HTML markup hidden
 - Base for higher-function frameworks
 - Quickly build highly interactive applications
- Scriptaculous and jQuery frameworks
 - JavaScript Ajax libraries
 - Programmed through Smalltalk artifacts

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VASTGoodies.com

(Beta version)

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

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<p>Configuration Map Names</p> <ul style="list-style-type: none"> Cloudfork Cloudfork Activeltem Compuware SplitterWidget Flotr Core 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 MSKRextSupport MSKRextSupportWithTests MSKSQLite MSKSQLiteWithTests MSKSyslog MSKSystemExtension MSKTreBinding 	<p>Versions Download</p> <ul style="list-style-type: none"> Flotr-rcs.8 SH 0.1 	<p>Applications Browse</p> <ul style="list-style-type: none"> FlotrApp Squeak-Flotr-rcs.8 sh 0.1 FlotrPlatformApp Flotr-rcs.8 sh 0.1
	<p>Config. Expressions</p> <ul style="list-style-type: none"> System productVersion=8.0* 	<p>Required Maps Jump</p> <ul style="list-style-type: none"> VA Assist Pro for VisualAge V 8.0.0 [122]
	<p>Notes</p> <p>Requirements: VASt 8.0 Flotr version: Flotr-rcs.8 07.05.2009 MIT License Work done by Sebastian Heidbrink, smallhints.seasidehosting.st</p> <p>find more information on flotr at http://solutoire.com/flotr/ find more information on squeak flotr adaption by Ryan Simmons at http://www.squeaksource.com/flotr.html</p> <p>The Flotr javascript plotting library adapted to work with VASt 8.0</p>	
	<p>Comment</p>	

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

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Uw verzekering

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Bereken uw premie
 Vul uw gegevens in en bereken uw premie.

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Nationaal Spaarfonds
 onderdeel van delta lloyd groep

delta lloyd groep

thuiswinkel waarborg

Seaside Cautions

- Seaside Flow (currently) unsupported by VA Smalltalk
 - No `#wait:` because no continuations
 - `<some code>.`
`r := self call: aComponent. "NO, does self wait:"`
`<more code using r>.`
 - `<some code>.`
`self show: aComponent onAnswer: [:r |`
`<more code using r |]. "YES"`

GLORP Initial Release

0.3.178+

- Generic Lightweight Object-Relational Persistence
 - Open Source framework for Object/Relational database access
 - With concepts reminiscent of popular TOPLink product
 - Provides:
 - Mapping of objects into relational databases
 - Transactions for change grouping
 - Non-intrusive implementation
 - Support for queries based on objects and data
 - High performance through optimized database access
 - Documented in [Database Guide](#)

Platform Currency and Enhancements

- Support added for:
 - Ubuntu 9.04 (32- and 64-bit)
 - Windows Server 2008 R2 (64-bit)
- Windows executables are digitally signed
 - Enhanced security
 - Windows Logo Certification requirements

Platform Currency and Enhancements (cont.)

- Windows power management events supported
 - GUI apps can react to Sleep/Hibernate and Resume
 - New protocol on `Subapplication` class
 - `#suspending`
 - `#resume`
 - Useful for resetting sockets, reconnecting development manager, etc.
 - Documented in [Smalltalk User's Guide](#)

Database Currency and Enhancements

- Support added for Oracle 11g
 - Compatibility mode
 - No code changes
- Support added for Oracle function calls
 - Eliminates need to wrap function calls in stored procedures
 - Examples of usage shown in [Database Guide](#)

Database Currency and Enhancements (cont.)

- Support added for Anonymous SQL blocks
 - Provides ability to send user-defined data types
 - Provides ability to retrieve user-defined data types
 - Supported in Oracle
 - Examples of usage shown in [Database Guide](#)

Class Library Enhancements

- Method pragmas
 - Allow you to annotate methods with user-defined processing information
 - Stored as literals in instances of `CompiledMethod`
 - `Pragma` class has protocol for finding and processing annotations
 - Provided for [Pier Content Management System](#)
 - Documented in [Programmer's Reference](#)

Class Library Enhancements (cont.)

- Instance- and class-based exceptions are now polymorphic

- Providing clearer and more efficient handling of errors

- Brings back function dropped in VAST 6.0.1

- Example:

```
^ [ (Array new: 3) at: 4 ]  
  on: Error do: [ :ex |  
    Transcript cr; show: ex  
messageText. ex return ]
```

*Primitive failed in: Object>>#at: due to Index
out of range in argument 1*

SUnit 4.0

Just in Time Resources

- Resources made available just-in-time:
 - First test that needs it prompts setup
 - Later tests that need it can see whether it has been (or failed to be) setup
 - Tear down guaranteed at end of run; can be done anytime
- Resource-processing is ordered
 - A test's resources are setup in order and torn down in reverse order
 - A resource's resources are setup before it is setup and torn down after it is torn down

SUnit 4.0

Class Changes

- First there were three classes ...

`TestCase`, `TestSuite` and `TestResult`

- And then there was a fourth ...

`TestResource` to manage resources

- And now a fifth ...

`TestAsserter` - abstract superclass of

`TestCase`

`TestResource`

any user-created `TestCase` delegate class

- Resources understand `#assert:... protocol`

- `#setUp` and `#isAvailable` run inside the handler

SUnit 4.0

Class Changes (cont.)

- Logging
 - `TestCase` methods moved to the class-side
 - `#isLogging`, and `#failureLog` (and `#logFailure`: is now on both sides)

Documentation Updates

- *Web Services Guide*
 - Added [Getting Started: Web Services in a Day](#)
 - Added [Cookbook](#) with debugging hints, XML de-serialization tips, and guidance on securing a Web service
- *Smalltalk User's Guide*
 - Added [Application behavior when Windows Power Management events occur](#)
 - Moved *Namespace support* to the *Programmer's Reference*
- *Programmer's Reference*
 - Added [Pragmas](#), [Namespace pragmas](#), and [Annotation pragmas](#)
- *Database Guide*
 - Added [GLORP Tutorial](#), [Anonymous PL/SQL Blocks](#), and [Function Calls using Native Oracle](#)

Looking to the Future

Future Releases

- Release schedule is twice a year
 - Usually May and November
- Next release is November 2010
 - Web interface
 - Seaside 3.0
 - Development Tools
 - Message extraction tool
 - Platform
 - Ubuntu 10.04
 - Fedora Core 13

Priority Technologies

- Internationalization
- Web interface
- Database
- GUI Look and Feel
- Development Tools
- Security
- Performance and Scalability
- Platforms
- Other

Future Releases Candidates

- Internationalization
 - Unicode/UTF-8
- Web interface
 - Seaside 3.1
 - SST Servlet multipart forms
 - Web services tooling improvements
 - Web services debugging tools/doc
 - Validating XML parser

Future Releases Candidates (cont.)

- GUI Look and Feel
 - **GTK+ 2.x on Linux**
 - Additional Windows Common Controls
 - Additional icon/image support
- Development Tools
 - New 'Settings' framework and dialogs
 - Improved Changes Browser
- Database
 - GLORP infrastructure improvements
 - GLORP Programmer's Reference
 - Active Records built on GLORP

Future Releases Candidates (cont.)

- Security
 - “Basic” security framework -- current OpenSSL
 - “Full” security framework -- OpenSSL 1.0
- Performance and Scalability
 - Incremental garbage collection
 - 64-bit Smalltalk
 - Class library performance hotspots
- Platform
 - Windows Services control moved to Smalltalk

Future Releases Candidates (cont.)

- Installation
 - Single installer for Client and Manager
 - Install/Repair/Uninstall
 - Seamless with User Account Control (UAC)
- Class Libraries
 - Collection hashing policies
 - Collection sorting policies

How Do I Get VA Smalltalk?

- Download evaluation copy
- Buy development licenses

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Development Builds

- An experiment in
 - Early delivery
 - Continuous integration
 - **1** for V8.0.1, **2** for V8.0.2, **2** for V8.0.3
- Availability
 - Announced on VA Smalltalk Forum and comp.lang.smalltalk
 - Download 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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- Be a committer on an Open Source project

Open Source Project Committer

- Instantiations will donate a perpetual VA Smalltalk license
 - to committers
 - working on non-commercial open source project
 - Hint: release something to VAStGoodies.com
- **No charge**
- Details: [Instantiations' Donations to Open Source Projects](#) page

How Do I Get VA Smalltalk?

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- Be an educational institution

Academic Licenses

- Accredited educational institutions
 - Teaching staff
 - Students
- **No charge**
- Details: [Academic License Program](#) page

Backup

GLORP Basics

- Create a session object
 - Made from an accessor object
 - Which is made from a connection object
 - Which is made from a login object
- Within a unit of work, make changes
- Use session to query existing data
- Create new objects and add them
 - Sub-objects are automatically noted
- Commit or rollback the unit of work

GLORP Mapping

- Simple mapping is one-to-one
 - Describe a table
 - Create an object that looks like a row
 - Describe that object and its mapping
- Complex mappings
 - One row becomes variant object type
 - Multiple rows combine for one value
- Can map existing objects to RDB

GLORP Descriptor

- What a table contains
- What objects will participate
- How to map them
- Very flexible system
- When in doubt, refer to the unit tests for examples

VA Smalltalk V8.0.1

- Seaside 3.0 alpha5
- Continued Web Services enhancements
- Additional enhancements for tabbed browsers
- Windows 7 (32-/64-bit)
- “cdecl” calling convention on Windows
- Improved error diagnostics for memory allocation
- Enhanced SST resource management for faster execution using less memory

VA Smalltalk V8.0

- Seaside 2.9 alpha3 Core, jQuery, Scriptaculous, RSS, porting layer and development tools
- Enhanced Web Services supporting "Document Literal/Document Literal Wrapped" style
- Enhanced IDE with tabbed browsers, native Windows widgets, inspector improvements, a new Method List Pane, Text Pane, Version Graph Tab, more
- New documentation delivery system (web or local) with improved navigation, formatting and updated content