



# VA Smalltalk Update

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# Agenda

- Introduction
- Current Release Content
- Futures
- Q&A

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# Non-Development Activity

- University Outreach – 2012/2013
  - University of Chile -- Roassal Visualization Framework
  - *Looking for more (talk to me if you are interested)*
- User Outreach
  - Conference sponsorship and participation
    - ESUG, STIC, Smalltalks
  - VA Smalltalk Google Group
    - Aggregated on **[Smalltalk]** <http://forum.world.st>
    - Old forum content (prior to May, 2011) still available (readonly)
- “Videos and Podcasts” pages on website
  - [http://www.instantiations.com/resources/st4u\\_videos.html](http://www.instantiations.com/resources/st4u_videos.html)
  - <http://www.instantiations.com/resources/videos.html>

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# New Release

V8.6 is available NOW!

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# V8.6 Content

- GUI Look and Feel
  - A Scintillating Text Editor
  - Windows Common Controls improvements

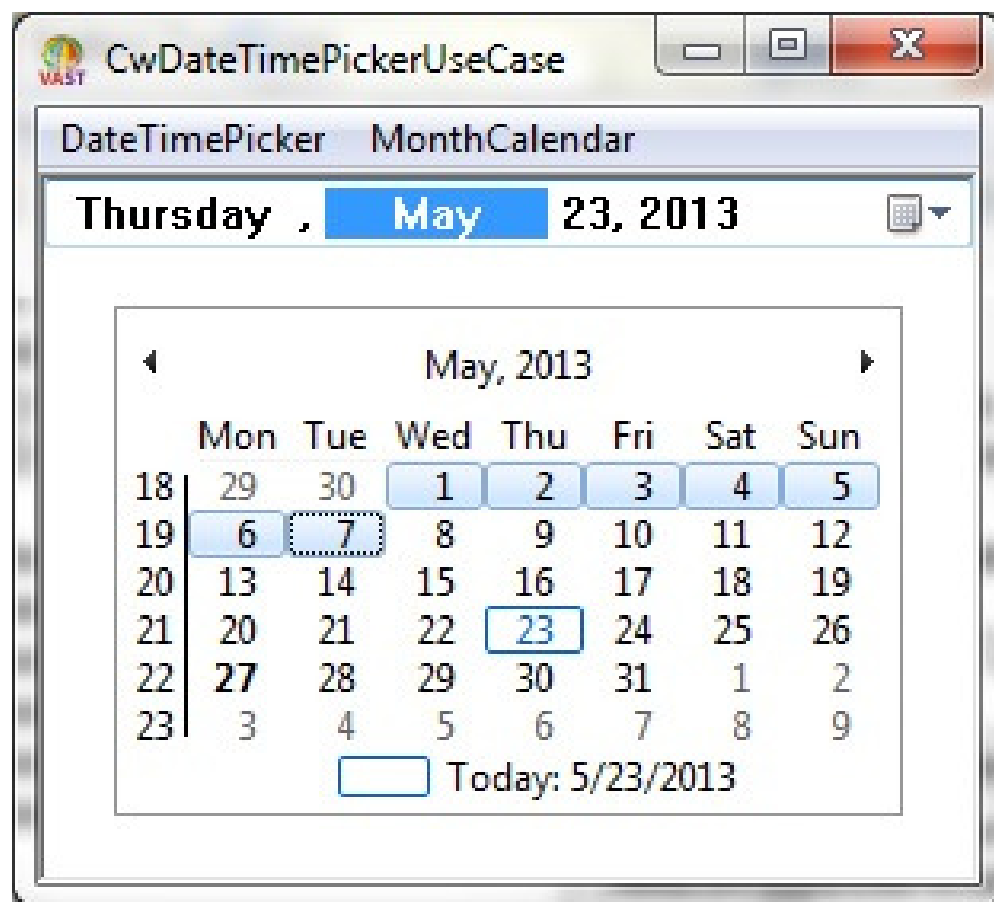
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# A Scintillating Text Editor

- Complete redesign of our default text editor component
  - Built on the modern, popular and well supported Scintilla editing component
  - Compatibility layer provides seamless integration
    - API-compatible with CwText
  - Exposes the full Scintilla API
    - Users can use the new text editor in their own applications
    - Used by Browsers, Inspectors, Workspace, etc.
    - Multiple undo/redo support
    - Supports hardware-accelerated rendering with Microsoft's DirectWrite technology

# Windows Common Controls

## DateTimePicker



### New attributes

- today shown
- weeks numbered
- multiple selection (a range of dates up to a maximum size as set by the user)
- first day of the week settable
- Bolded dates (May 27)

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# V8.6 Content

## continued

- Development Tools
  - Scintillating Browsers, Inspectors and Workspaces
  - Breakpoint improvements
  - ImageShortName preference setting
  - Monticello Importer improvements
  - Cross Development (XD) features for GLORP and Seaside



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# Scintillating Browsers, Inspectors and Workspaces

- Optional
  - Enabled by default
- Customized color syntax highlighter
  - Additional styling options and features
  - Now available in workspaces and inspectors, too!
- Autocompletion support using VA Assist's code completion engine with new popup widget

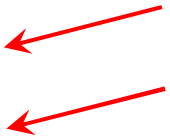
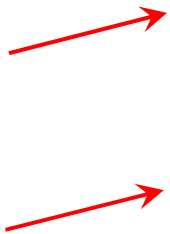
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# Scintillating Browsers, Inspectors and Workspaces

- New Code Assisting features:
  - **[ ]()** match highlighting
  - Calltips
  - Text manipulation keyboard shortcuts
  - and much more ...
- New stylizable and configurable margins:
  - Breakpoints
  - Line numbers

# Scintilla Debugger Example

The screenshot displays the ENVY/Smalltalk Debugger interface. At the top, a status bar indicates a halt: `'(ExHalt) A halt has occurred.' ==> {UIProcess:(5/24/2013 3:35:29 PM)(suspended,3)}`. Below this is a menu bar (File, Edit, Processes, Stack, Inspector, Info, Breakpoints, Watches, Options) and a toolbar with various icons. A list of methods is shown in the left pane, with `Dictionary>> #add:` selected. The right pane shows the current object's state, including `self` and `anAssociation...`, with a tooltip for `#andCodeCompletionToo`. The bottom pane shows the source code for the `add: anAssociation` method, with a mouse cursor over the `anAssociation` argument. The status bar at the bottom indicates the current file and time: `(6/6/1996 6:47:39 AM) from CLDT`.



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# Breakpoint Improvement

- One-shot breakpoint
  - Removes itself after firing once

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# Monticello Importer Improvements

- Imported code version defaults to Monticello version (example: `NickAger.257`)
- Monticello version info copied to Application Notes to aid cross-referencing

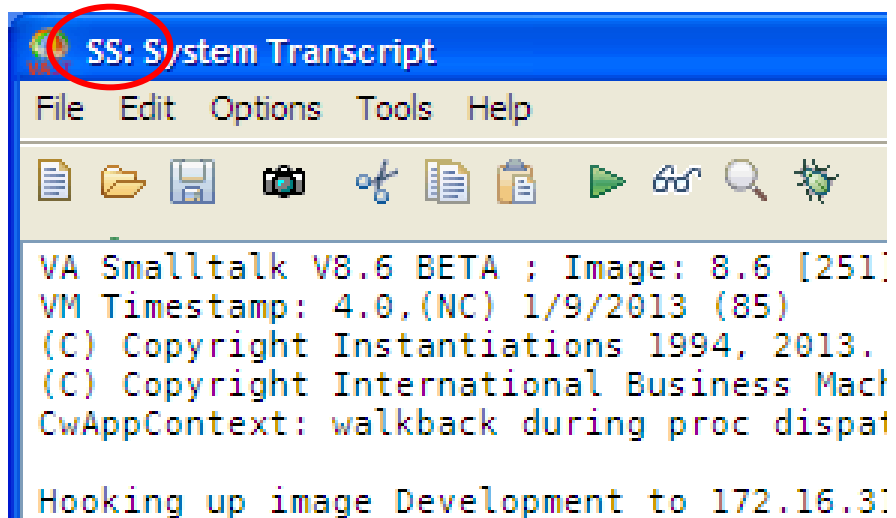
Name: `Seaside-Tests-Core-NickAger.257`

Author: `NickAger`

Time: 21 March 2012, 5:49:03 am

`tidied WATestingMetadataFileLibrary`

# ImageShortName Preference



- Preference used to identify windows associated with development image
- Example:  
[EtBaseTools]  
ImageShortName=SS

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# V8.6 Content

## continued

- Web Interface
  - Servlet multipart messages supported
    - Inbound only
    - Multipart/form and Multipart/mixed
    - Supports Seaside upload function
  - Updated port of Seaside and Grease
    - Grease 1.0.7
    - Seaside 3.0.8 (not frozen)
    - Mostly small bug fixes
    - Configuration maps identify the Metacello package version used for the port:
      - `ConfigurationOfGrease-topa.192`
      - `ConfigurationOfSeaside30-DiegoLont.392`

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# V8.6 Content

## continued

- Database
  - DB2 currency (tested on 10.5)
  - GLORP port updated to 7.9.1-4
    - Changes in GLORP from 0.3.178 are mainly due to Alan Knight's work
    - Experimental Host Variable support (default is off)
    - Improved error handling
      - Optional logging of low-level database exceptions



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# V8.6 Content

## continued

- Installation
  - New Windows Installer
  - New Environments Management Tool

# Windows Installer



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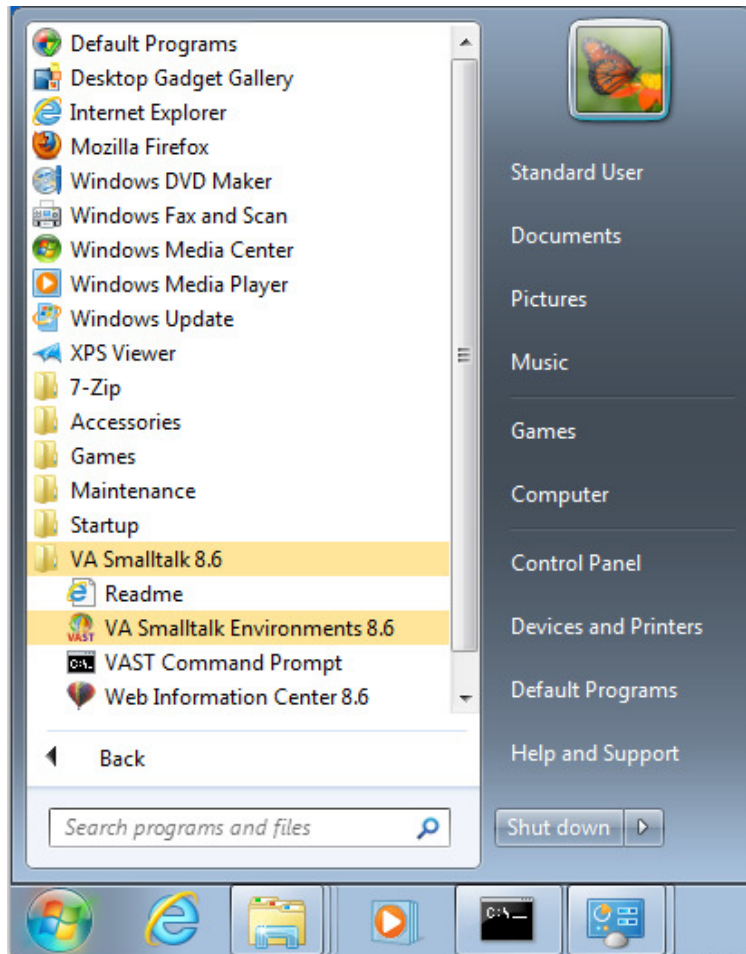
# Windows Installer

## continued

- Built with industry-standard InstallShield
  - Provides Install/Repair/Uninstall from single executable
- 2 Downloadable Install Packages
  - Code
    - Installs Client and Manager by default (for standalone)
    - Optional installation of only Client or Manager (for shared code library)
  - Documentation
    - Smaller code download when you don't want local documentation
    - Allows between-release updates to match on-line documentation

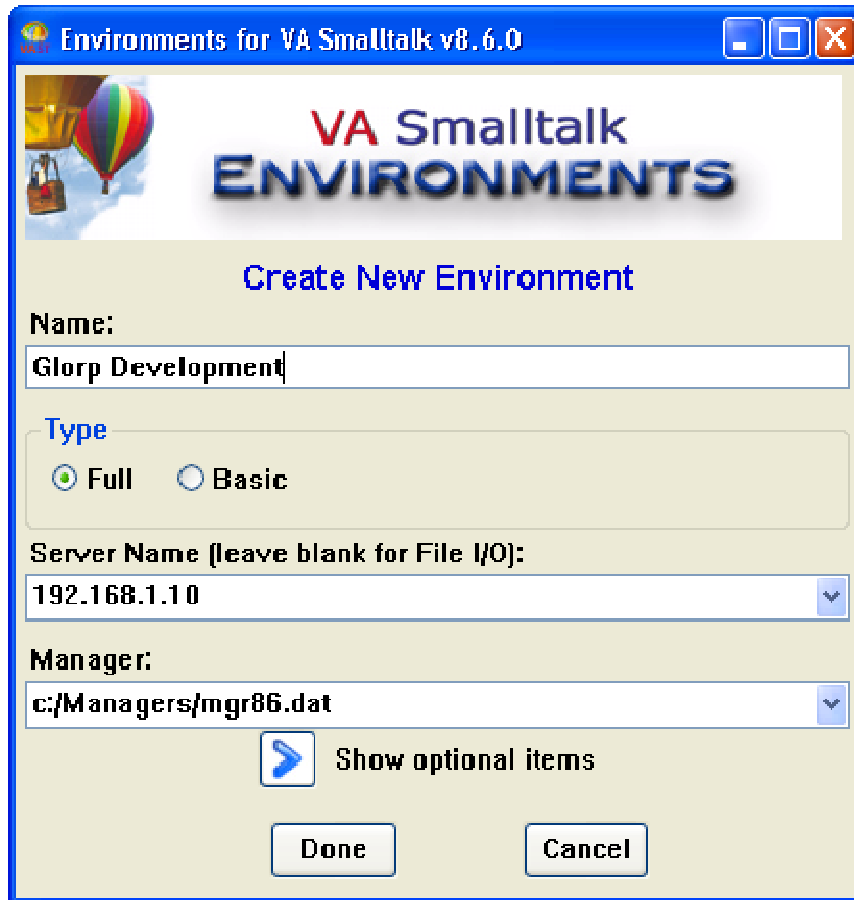
# Windows Installer

## continued



- Environments shortcut installed on:
  - Start Menu
  - Desktop (optional)
- Launch Environments to create and start a new development image

# Environments Tool



Environments for VA Smalltalk v8.6.0

**VA Smalltalk ENVIRONMENTS**

Create New Environment

Name:  
Glorp Development

Type  
 Full  Basic

Server Name (leave blank for File I/O):  
192.168.1.10

Manager:  
c:/Managers/mgr86.dat

Show optional items

Done Cancel



Environments for VA Smalltalk v8.6.0

**VA Smalltalk ENVIRONMENTS**

Basic  
Full  
Glorp Development  
Roassal  
Seaside

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# V8.6 Content

## continued

- New supported platforms
  - Fedora 19
  - Ubuntu 13.04
  - Windows 8.1

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# Looking to the Future

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# Future Releases

- Release schedule is about once a year
  - Depends on volume of content
  - Current content information in Product Roadmap
    - <http://www.instantiations.com/products/roadmap.html>
- Content based on requirements from:
  - Direct customer interactions
  - Forums
  - Support cases
  - Internals



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# Future Releases

## Candidate Items

- Base classes
  - **Portable Colors**
  - **Translucent Colors**
- Internationalization
  - Unicode/UTF-8 (including VM and system APIs)
    - Based on International Components for Unicode (ICU) module
- Web interface
  - **Seaside 3.1/Grease 1.1**
  - **Seaside REST**
  - Continuation support
  - Web services debugging support/doc
  - Web services tooling improvements
  - Validating XML parser

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# Future Releases

## Candidate Items

- Infrastructure
  - **Announcements** (sufficient for Roassal)
  - **Full .zip, .gz, and inflate/deflate support**
  - Consolidate product settings using Settings Framework
  - Settings Dialogs to complement Settings Framework
  - Consolidate product logging using Logging Framework
- Middleware
  - DB2 Stored Procedures improvements
  - GLORP Programmer's Reference
  - 'Simple' DB support (SQLite)
  - MQ currency
  - TCP/IP V6
  - OMQ

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# Future Releases

## Candidate Items

- GUI Look-and-Feel
  - **Icon/image support enhancements**
    - Support for alpha-channel (blending)
    - Support for .PNG file (R/W)
  - GTK+ 3.x on Linux
  - **Windows Common Controls additions**
    - TreeView is next
  - Back-port widgets from add-ons (ex: UML Designer)

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# Future Releases

## Candidate Items

- Development Tools
  - **Scintilla Browser improvements**
  - **Updated EMSRV**
    - Full file system support on UNIX
    - Libraries > 2GB on Linux
    - Removal of multi-processor check on Windows
  - **Roassal**
  - Redesigned Change Browser & Merge Tool
- Installation
  - **UNIX .RPM install package**
  - **Environments improvements**
  - "Quiet" install (no UI)

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# Future Releases

## Candidate Items

- Security
  - 'Full' security framework -- OpenSSL 1.0 wrappers
  - 'Basic' security framework (consolidate existing OpenSSL wrappers)
- Performance and Scalability
  - Incremental garbage collection
  - 64-bit Smalltalk
  - Class library performance hotspots
  - Integrate KES/Stats goodie for object monitoring
- Platform
  - Windows Services control moved from C to Smalltalk

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# Future Releases

## Candidate Items

- External Interfaces
  - JNIport (currently available on VASGoodies.com)
  - .NET/C#
  - Other
- Class Libraries
  - Collection hashing policies
  - Sorted collection sorting policies
- Other
  - *We're always looking for suggestions*

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# How Do You Get VA Smalltalk?

- Download evaluation copy
  - <http://www.instantiations.com/products/vasmalltalk/download.html>
- Buy development licenses
  - <http://www.instantiations.com/products/purchase.html>
- Download development build
  - Announced in VA Smalltalk Google Group
- Be a committer on an Open Source project
  - <http://www.instantiations.com/company/open-source.html>
- Work for an educational institution
  - <http://www.instantiations.com/products/academic-license-program.html>

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# Contact us

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**Questions?**