



Cincom Smalltalk™ Roadmap 2016

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#ESUG16





Agenda

- Cincom Talks
- Product Management
- Legacy
- Product changes
- Smalltalk Advocacy

Cincom Smalltalk Talks

- Cincom Smalltalk Roadmap
- Hidden Gems in Cincom Smalltalk
- New Native Windows UI possibilities in Next Generation Cincom® ObjectStudio®
- Development and Features of the new Cincom ObjectStudio Launcher
- Cincom Smalltalk Protocols - New Features and Tools
- Rapid Application Development with AppeX and Google Chrome Developer Tools
- More XP-rience

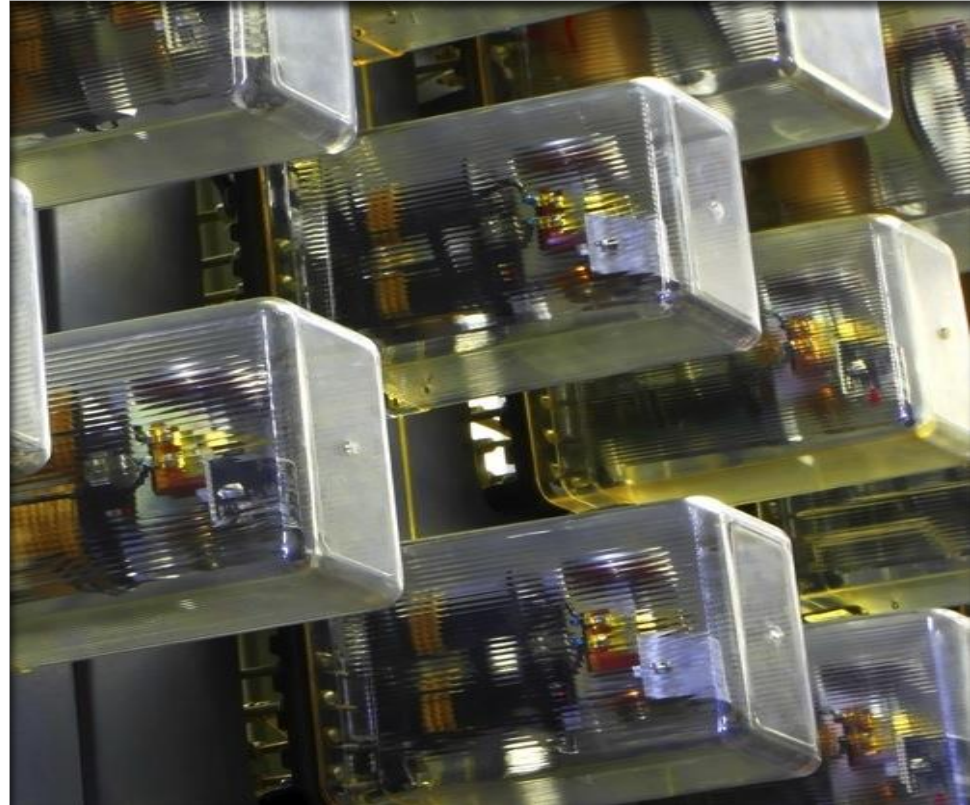
Cincom Smalltalk Product Management

Goals

- Keep our Smalltalk products advancing with the times
 - New Operating Systems
 - Standards
 - Customer needs
- Respond to customer needs
 - Listen to Customers
 - Listen to Customers
 - Listen to Customers

Customer involvement

Customer/community mini-surveys
- Help Smalltalk in any manner



Legacy

Our new releases includes a list of frameworks we consider “Legacy”

Legacy frameworks may be:

- Obsolete
- Antiquated
- Replaced by newer technology

Legacy frameworks have minimal support and will not be enhanced

Legacy

Why don't we simply remove Legacy frameworks?

(like most software vendors)

Over time many will be removed

We keep some of these frameworks available in the product, as some customers

- may want to use them longer
- need extra time to port to a newer technology
- may wish to continue with and maintain the framework for themselves.

Legacy

- Communicate with customers to improve their planning
- Make sure we focus our resources on what is needed

Cincom Smalltalk Products



Smalltalk IS Innovation

Cincom Smalltalk Products

ObjectStudio

The Business Analyst's Thinking Tool

VisualWorks

The Do-Anything Cross-Platform Development Tool

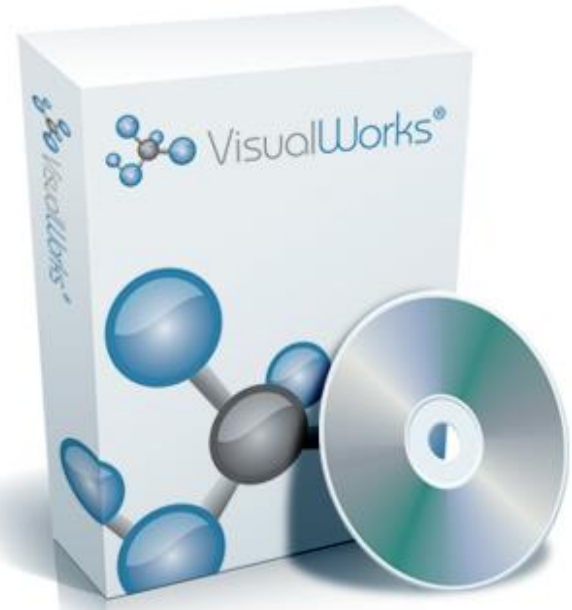
The Products

ObjectStudio

VisualWorks

Cincom Smalltalk Foundation

PAST



Past / Present / Future - Products

Foundation 8.0+ Forward

- Big improvements introduced
- Beginning of Version 2.0

Past / Present / Future - Products

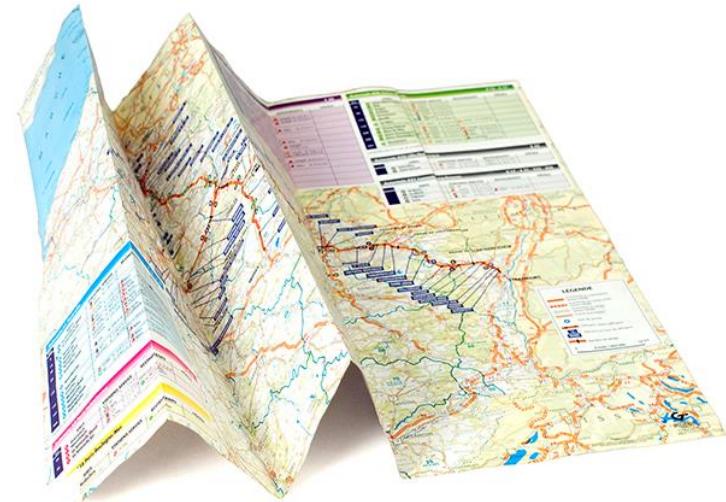
Text 2

- Document
 - Word wrapping
 - Line numbers
 - Paragraph numbers
 - Line numbers
 - Line striping
 - Hidden characters
 - Read-only
- Paragraph
 - Direction
 - Alignment
 - Paragraph spacing
- Alignment
 - Indent, first line indent, padding
 - Left, right, center, justify
- Fonts
 - Family, size, color, bold/italic
 - Variable sizes in same line
- Adornments
 - strike through
 - underline, double underlines, dashed underline, more
 - overline
 - Shadow
- Actions
 - clicking on a text can run code, open a web browser
- Annotations
 - Annotate with text
 - hover-help
 - Wrap, dodge, stretch
- Cursor change property
 - Bullseye, caret, crosshair, database, earth, hand, marker, scroll, square, wait, hyperlink
- Sparklines
- Vertical alignment within lines
- Bidirectional content
 - with support for embedded direction marks
- Unicode
 - font measuring
 - rendering
- Images in documents
- Lists
 - bulleted
 - Numbered
 - with international numbering schemes
- Sparse editing history to support large documents

Past / Present / Future - Products

New Source Code Editor

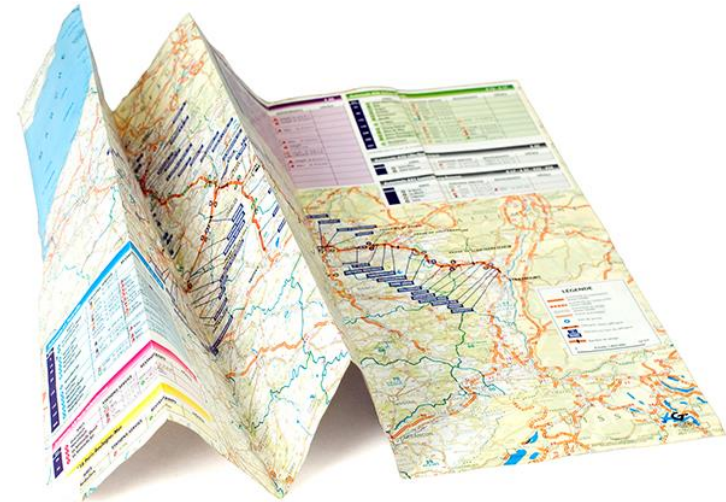
- Autocomplete - basic
- Editor Themes
 - Customizable
 - Build your own
- Errors, Warnings et al, are Annotations
- API, pluggable, DSL's etc



Past / Present / Future - Products

VM improvements

- Unicode Windows VM's
- 64 bit VM's revamped
- Windows 64 bit VM
- GC improvements
- Delay alternatives
- Atomic Loading (Store)



Past / Present / Future - Products

Encryption Improvements

- External Encryption
- Internal Encryption

Past / Present / Future - Products

Foundation Improvements

- COM revamped, COM 64
- ActiveX integration
- Launcher

Past / Present / Future - Products

Sioux - What is Sioux?

“Build an HTTP server with the goal of squeezing as much scalability and performance out of it as we can”

Past / Present / Future - Products

Appex - What is Appex?

- Modern Web Framework
- Current tech: HTML5, JavaScript, Ajax, JSON, XHR
- Open – use any JavaScript library you like
- Automatic Session management
- Manage Smalltalk & JavaScript code in Browsers
 - Uses CST themes
 - JS code editor integrated in CSTIDE
- Seamlessly connects to the server (Smalltalk)
- Very lightweight and flexible
- Uses SiouX
- Object-Oriented JS with class hierarchy (before ECMAScript 6)
- What You Write Is What You Get

#goodies
#Store #tutorialtuesday
#protocols #matrix
#flexibility #campsmalltalk
#cincom #modelingtool
#productivity #FAST #webdev
#codingenjoyment #newgui
#multi-platform #hiddengems
@cincomsmalltalk
#smalltalkcommunity
#makesheimpossiblepossible #Glorp
#objectstudio #polycephaly #webdevelopment
#PUL #Xstreams #easeofuse
#appdev #Appex
#smalltalk #cincomsmalltalkfoundation
#visualworks #baseimage
#sioux #mappingtool
#nextgen #ESUG
#community
#STIC
#Elegance
#passion
#webdev
#partners
#engineers
#support
#STAR Team

PRESENT



Past / Present / Future - Products

- **ObjectStudio 8.8**
- **VisualWorks 8.2**

What have you done for me lately???

Past / Present / Future – Products

VM

- Upgraded build chain
 - Windows (Visual Studio 2015)
 - Mac OS X (10.8)
 - Linux (prior cycle)

Past / Present / Future - Products

VM

- VisualWorks Loader (Universal Start Up Script)
 - 4 byte loader (a hidden GEM!)
 - now VisualWorksXL
 - Windows/Unix/Linux

Past / Present / Future - Products

VM

Preview VMs

- Mac OS X 64
- Mac OS X 32 retina display support
- Linux PPC 64

Past / Present / Future - Products

Database

- Enhanced support for scrollable cursors (Oracle, ODBC, DB2, Sybase)
- PostgreSQL EXDI enhancements
- SQLite enhancements
- Oracle EXDI enhancements
 - Array binding support
 - OS X 64 support

Past / Present / Future - Products

GLORP

- Glorp enhancements
- New document guide on Glorp Atlas
- Preview
 - Recursive queries
 - Use results of a query in another query within one-round-trip
 - Common Table Expressions
 - Very useful in tree structured data

Past / Present / Future - Products

Internationalization

- Support for PerProcessCatalogs integrated in the Base system

Past / Present / Future - Products

GUI / TOOLS - Source Code Editor 2.0

Autocomplete 2.0

Past / Present / Future – Products

AutoComplete 2.0

- Runs as navigable pop-up
- Tab to choose
- Arrows to navigate
- Does multi-argument methods
- Classes, Shared vars
- Knows pragmas
- Understands recursion, self, super
- Extensible API
- Shortcuts for modal dialogs
- Browse method (Hidden Gem)
 - Show in context, shortens task
- Improvements to support multiple languages

Past / Present / Future - Products

GUI / TOOLS

UI Look and Feel 2.0 (UI Skinning) enhancements

- Emulated Windows
- Red Default
- Green Default

Past / Present / Future - Products

GUI / TOOLS

Browser enhancements

- Forward/Backward Navigation History
- Browse method (in class context)

Past / Present / Future - Products

Net / Protocols

- LDAP
 - Improved and moved from contributed to supported
- LDAPS
 - Uses a TLS connection for Secure LDAP

Past / Present / Future - Products

Net / Protocols

- OAuth 2.0 Bearer tokens support

Past / Present / Future - Products

Net / Protocols - AppeX

- Scaffolding tools
 - Create web apps from Db tables (was preview)
- Minification support
- JS file support
- Internationalization support
- Doc updates
- See Jerry's Presentation!

Past / Present / Future - Products

Net / Protocols

Keeping the product modern ...

Past / Present / Future - Products

Net / Protocols

HTTP2 (preview)

- HTTP2 is a major revision of HTTP
- Most major browsers now support it
- 8.4% of the 10 million websites already support http2
- Better use of things like server push
- Can use with SiouX to create an HTTP2 server

Past / Present / Future - Products

Contributed

- Added Roassal2

Updated

- Seaside 3.2.0
 - Currently available in Cincom Smalltalk repository
 - Will be in the distribution in the maintenance releases

Past / Present / Future - Products

Foundation

- Most work is foundation work
 - Benefits both products

Product Specific

- ObjectStudio
- VisualWorks

Past / Present / Future - ObjectStudio

Next Generation UI

- Lets you make the most of what Windows has to offer
- Continued development
- New Native Windows UI Possibilities in ObjectStudio
 - See talks by Andreas

Past / Present / Future - ObjectStudio

New Launcher

- Convenience
- Productivity
- Features of the New ObjectStudio Launcher
 - See talks by Andreas
- New Workspace

Past / Present / Future - ObjectStudio

Windows 10 Certification

Past / Present / Future - VisualWorks

Classic Skins (Preview)

- Old emulated policies with an updated look
- Eases interface transition moving to 8.x

FUTURE

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Past / Present / **Future - Products**

Future Directions

- Incremental improvements
- Infrastructure upgrades
- Respond to Customer needs
- Improve productivity
- Improve API

Past / Present / **Future - Products**

Future Directions

- Incremental improvements
 - Improve the product
 - Make it easy / reasonable to port to

Past / Present / **Future - Products**

Future Directions

- Infrastructure Upgrades
 - “Version 2.0”
- Modernization
 - examples
 - TLS
 - HTTP2
 - Browser productivity improvements

Past / Present / **Future - Products**

Future Directions

- Respond to Customer needs
 - Often hard to anticipate
 - We encourage feedback and updates on your usage and any potential future items

Past / Present / **Future - Products**

Future Directions

- Productivity & API
 - Productivity improvements
 - API improvements

Past / Present / **Future - Products**

“Version 9.0”

- Product version number brought together

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Smalltalk Advocacy

Last Year

StackOverflow Developer Survey

- + Good survey on current Languages
- No Smalltalk!

2016 – Let's change this!

Smalltalk Advocacy

StackOverflow Developer Survey 2016

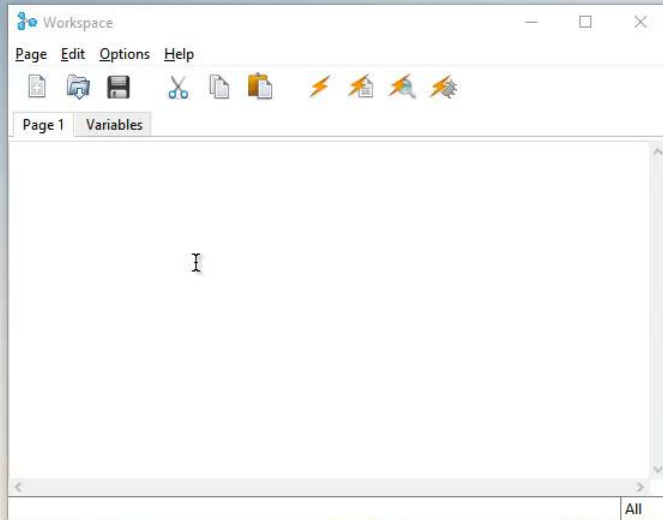
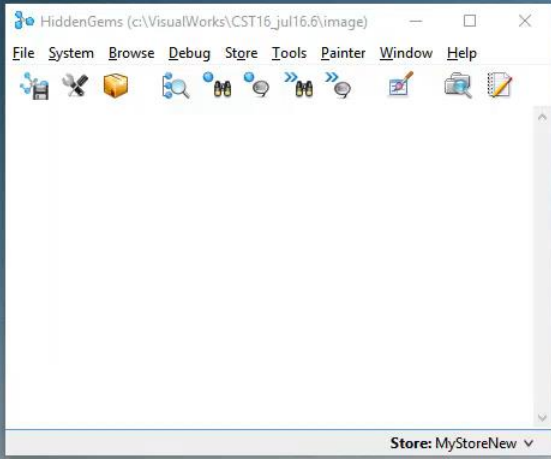
“Most Popular Technologies – Other”

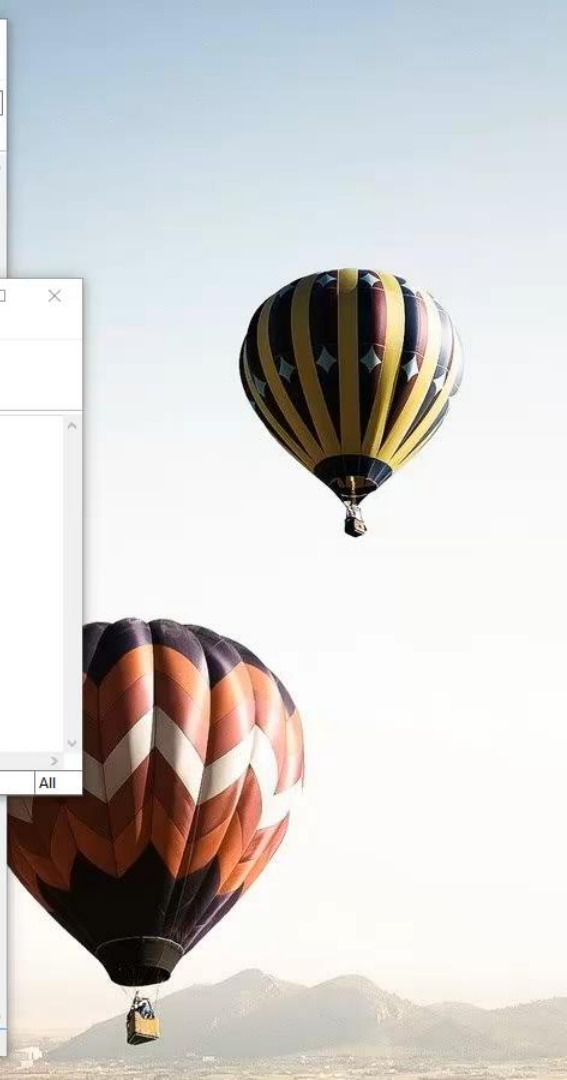
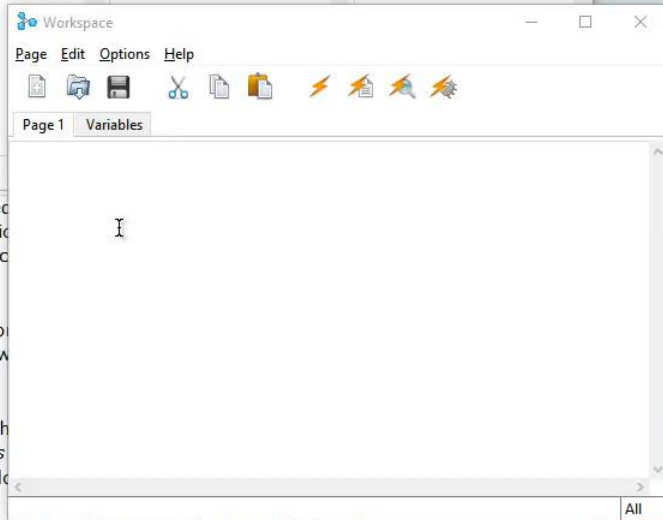
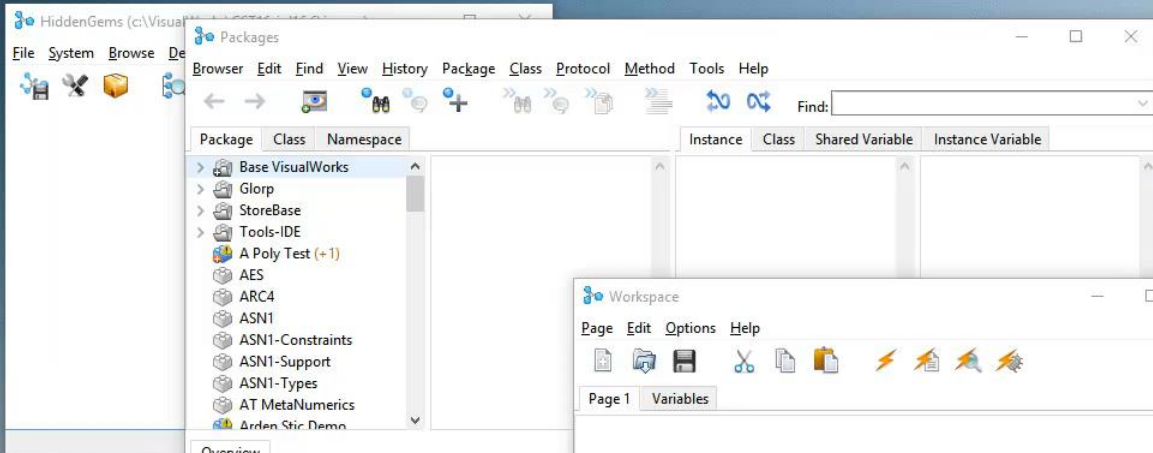
Smalltalk listed!

Next year ... big improvement?

What could this imply?! -> Opportunity for Smalltalk

Bonus – Hidden Gems Preview





HiddenGems (c:\Visual

Code components connected to: MyStore

File System Browse De

Browser Edit Find View Class Method Tools Help

Find:

Package Class Namespace

- A Poly Test (+1)
- Arden Stic Demo
- Demo extensions
- GarminFit
- K-Means Demo
- PolycephalyExample
- ProgressGrid
- ProgressGridDemo
- QuantModelDemo
- Swimming
- Tetris
- Triangle
- Triangel

Instance Class Shared Variable Instance Variable

Workspace

Page Edit Options Help

Page 1 Variables

I

Overview

The *System Browser* presents a structured view of the code components, organized into packages or browse a specific class. The methods defined in each selected class are defined in each selected class.

As the principal programming tool in Cincom packages, classes, and name spaces, as well as a library.

For complete documentation, start with the "Editing Smalltalk Code" in the *VisualWorks Application*.
<http://www.cincomsmalltalk.com/main/documentation>

Tutorials are also available to illustrate the *System Browser* and other tools in action:
<http://www.cincomsmalltalk.com/main/developer-community/tutorials>



Questions?



Thank You!

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