Cincom Smalltalk Roadmap

ESUG 2013

Talks

- **Arden Thomas:** Cincom Smalltalk™ Roadmap
  Thursday 9 AM
- **Dirk Verleysen :**
  UI Unlimited – Things you can do with the new Cincom Smalltalk UI
  Tuesday 2 PM
- **Andreas Hiltner:**
  Cincom Smalltalk new Native GUI implementation Preview– A TechnicalOverview
  Wednesday 2 PM
- **Niall Ross:** How and Where in GLORP
  Wednesday 10:45 AM
- **Tom Robinson:**
  Pursuing Performance in Store: Algorithms, Queries, Schemas

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Contents

- Happy 30th
- Inventing the Future
- Pearls
- Products
  - ObjectStudio
  - VisualWorks
- What is;
  - Old
  - New
  - ….

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Smalltalk for the Long Haul ….

- You have chosen Smalltalk as a strategic solution
- Cincom has the same commitment
- At Cincom we are not resting on the Smalltalk of the past, but are forging Smalltalk into the future

Cincom's Commitment

Cincom actively supports Smalltalk and is keeping Smalltalk viable by:

- Sponsoring events
- Actively advancing two Smalltalk products
- Working with customers to meet their requirements
- Making personal use version available giving new developers easy access to learning Smalltalk
- Employing, directly and indirectly, a large number of Smalltalkers.

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CST Product Management Commitment

- Changes / experiments to release cycles
- True maintenance releases
- Customer requirements
- More focused releases

Happy 30th to

Cincom pays homage to all those involved with the creation of Smalltalk – Thank you!

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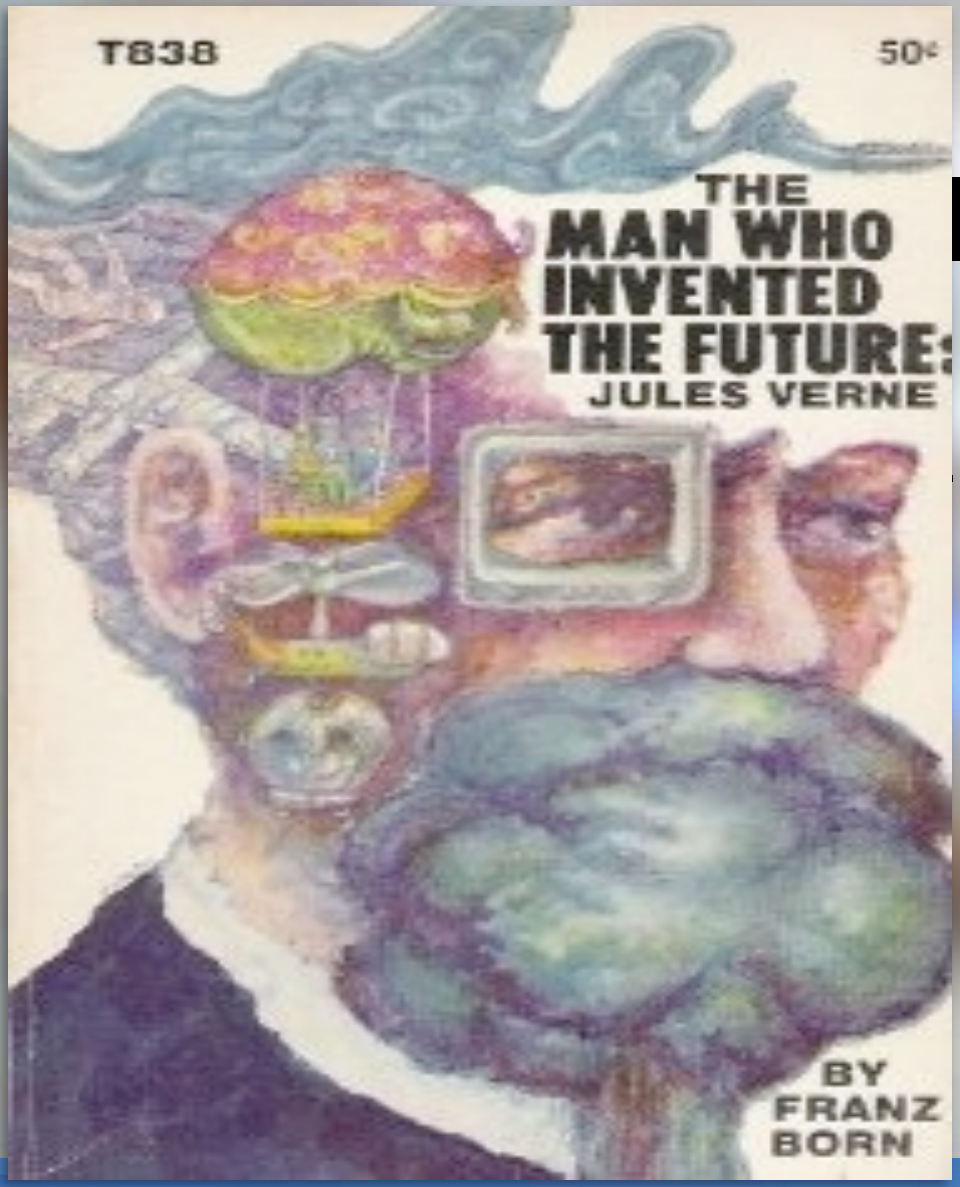

Man who Invented the Future

Father of Science

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The Team Who ACTUALLY Invented the Future

ALAN KAY | ADELE GOLDBERG | DANIEL INGALLS Jr. | SMALL TALK 80

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Smalltalk's Influence

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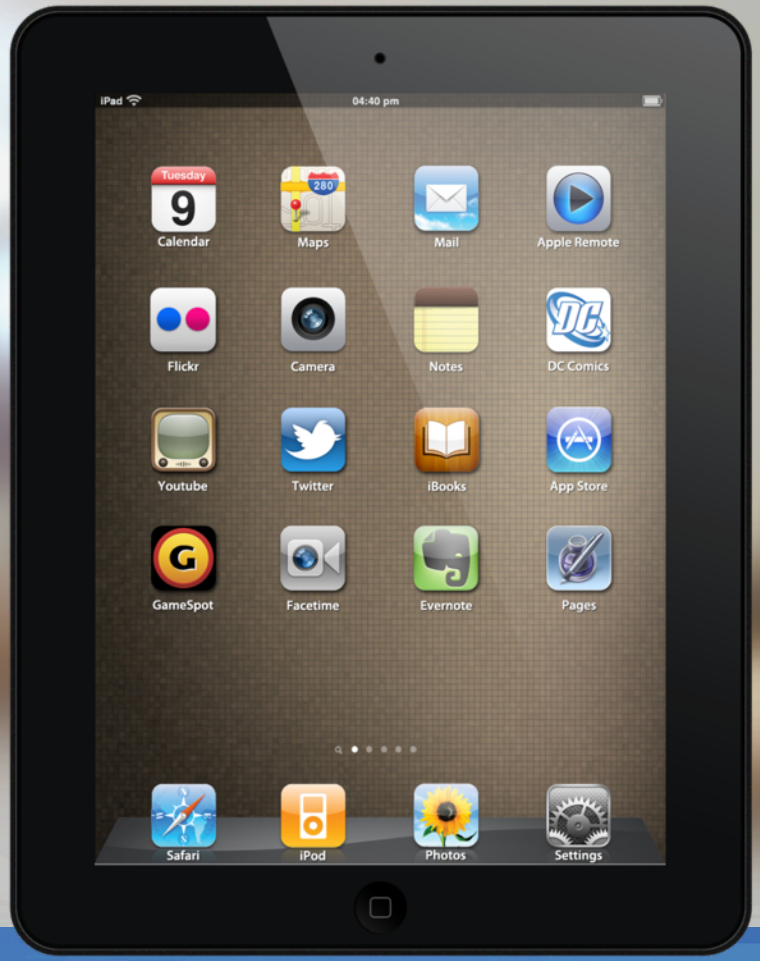
Smalltalk's Influence

- What is the largest company in the WORLD?

Smalltalk's Influence

< Dynabook Mini

Dynabook >



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30th Anniversary of Smalltalk …

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30th Anniversary as we Renew our Deep Appreciation of

- Our “vows” of appreciation?
- If this were the 30th Wedding anniversary it would be the Pearl anniversary …

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Why Smalltalk?

The Pearls of Smalltalk

Something Old, Something New…

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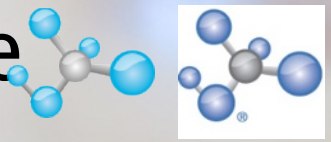
For This Momentous Occasion, Cincom is Outfitting Smalltalk

- Something old
- Something new

- Something borrowed
- Something blue 

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The Products

Foundation

Foundation

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Foundation - Past

"Sharpen the Saw"

- Engineering process improvements
  - More agile development
  - Automated tests

Foundation - Past

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

Foundation - Past

- Store revamped – foundation
  - Glorp underpinnings
  - New Store Browsers
  - New Store Garbage collection
- New Merge engine
- New Comparison tool

Foundation - Past

- Seaside Framework
  - Latest packaged and integrated for easy use

Foundation - Past

- External encryption option

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Foundation – Present

- Time enhancements
- Timestamp enhancements
- Xtreams Crypto fallback

Foundation – Present: VM

- VM improvements
  - GC performance improvements
    - Reduced overhead
    - Faster scavenge of fixed & large objects
    - Smaller, faster compactor

Foundation – Present: VM

- Store improvements
  - One step merge and publish (with undo)
  - Improved Store repository creation
  - Performance improvements
    - Version browsers
    - Load time
    - Store GC

Foundation - Present

Heard of Apache? Meet SiouX!

SiouX is our new Web Server

Foundation – Present: SiouX

SiouX

"build an HTTP server with Xtreams with the goal of squeezing as much scalability and performance out of it as we can"

Foundation – Present: SiouX

SiouX (preview)

- General purpose Web Server
  - http / https
  - Net / Xtreams
- Rehosted
  - Seaside
  - WebServices
- Move your Web apps to SiouX

Foundation – Present:

SiouX

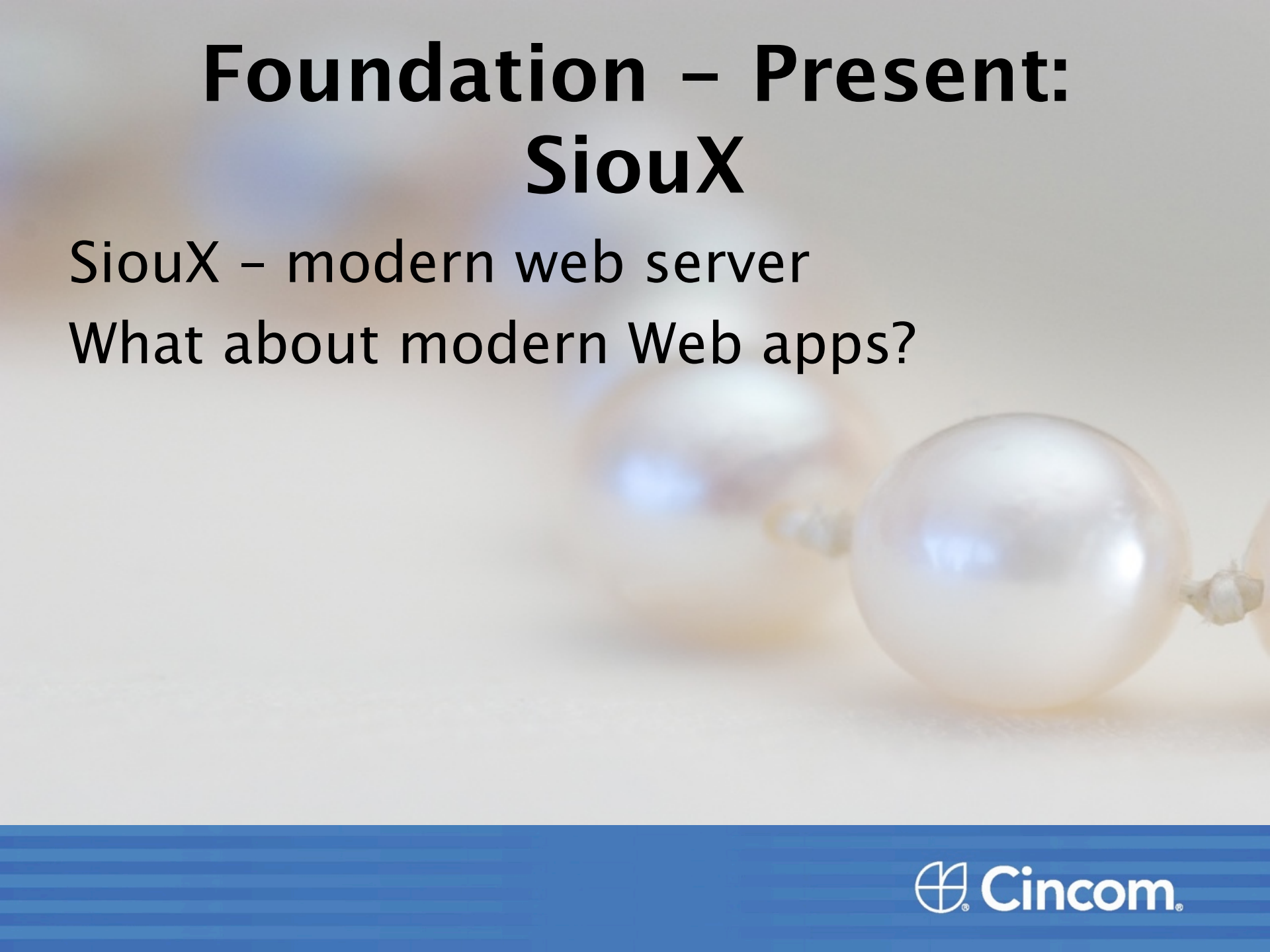
The new framework provides a secure, efficient and extensible server that provides HTTP services that are in sync with the current HTTP standards.

- streaming responses
- focus on efficient and scalable implementation
- server can be configured to listen on multiple ports (multiple listeners)
- chunked responses
- gzipping
- SSL and TLS support
- flexible and easy to maintain configuration
- running different Web applications from the same

Foundation – Present: SiouX

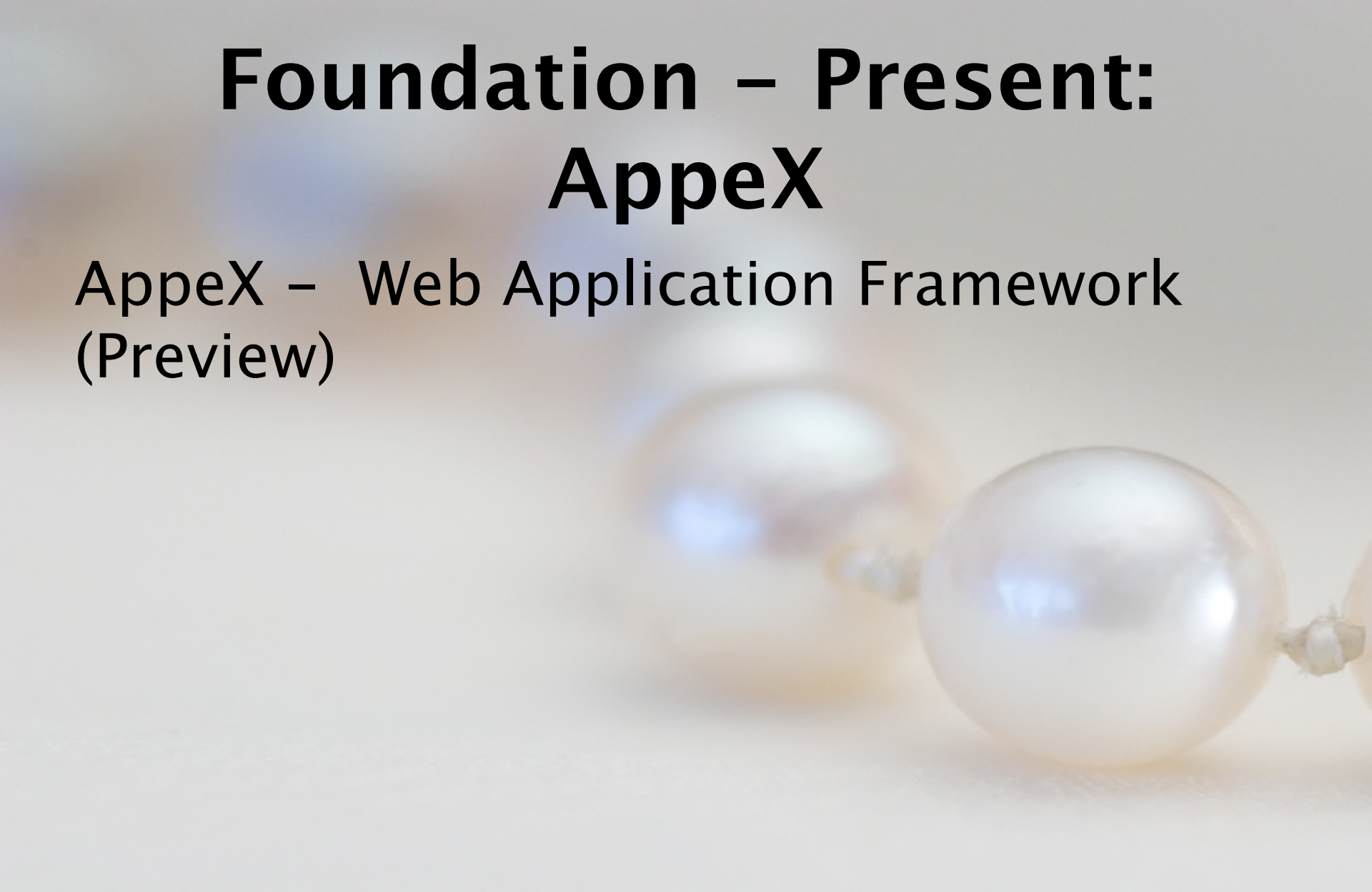
SiouX – modern web server

What about modern Web apps?



Foundation – Present: AppeX

AppeX – Web Application Framework (Preview)



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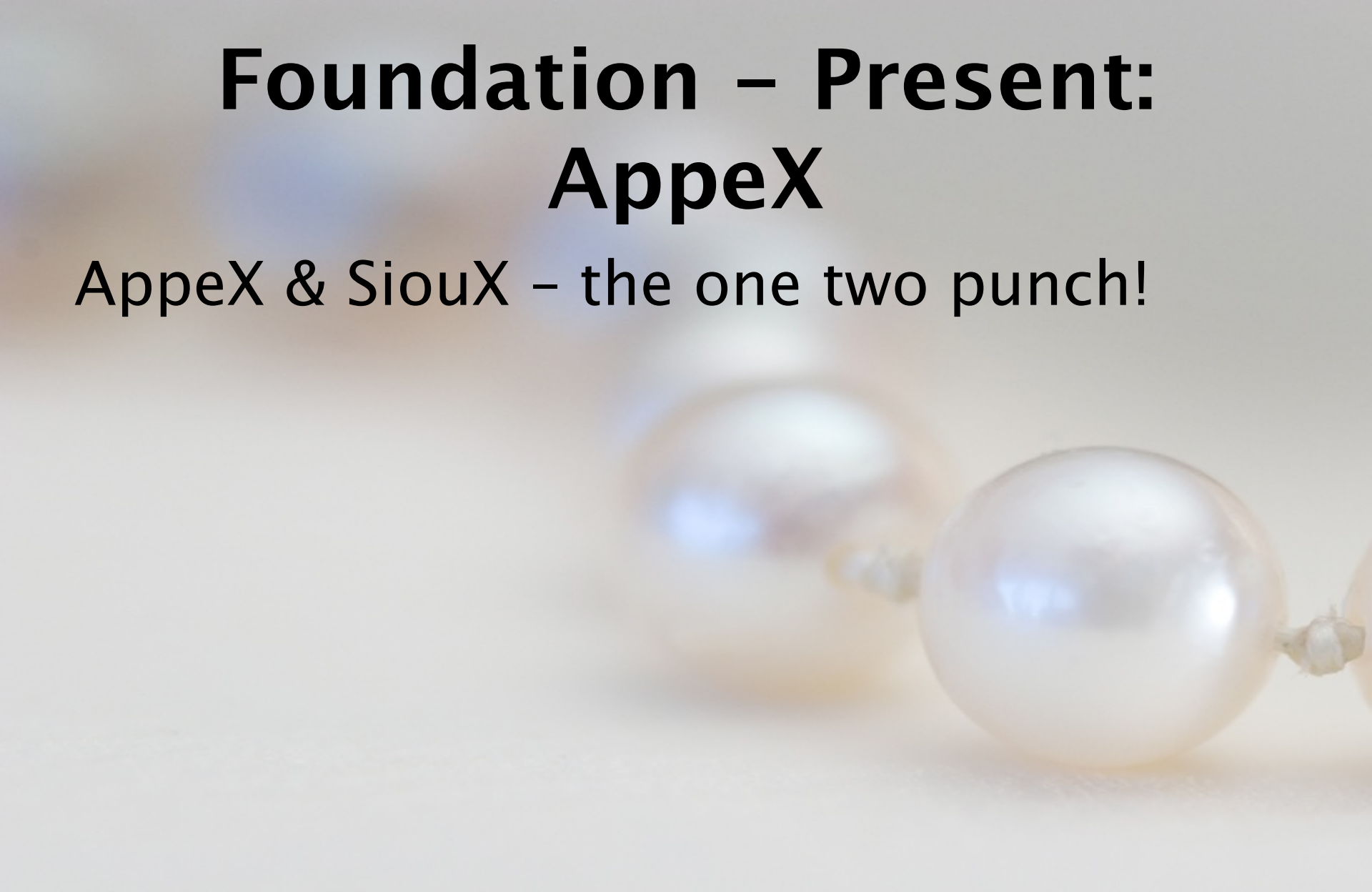
Foundation – Present: AppeX

AppeX – Web Application Framework Preview

- 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 CST
  - Browser support for JavaScript
    - Search senders/implementers
    - Parses JavaScript literals
- Very lightweight and flexible
- Uses SiouX

Foundation – Present: AppeX

AppeX & SiouX – the one two punch!



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Foundation – Present: MatriX

MatriX

- Polycephaly2 now named MatriX

Foundation - Future

- Store improvements
  - Reduce memory allocation
  - Improve method source handling
  - Improve external file handling
  - Improve performance and scalability (algorithms)

Foundation – Future

- Previews improved and released
- More we cant tell you about ☺

ObjectStudio®

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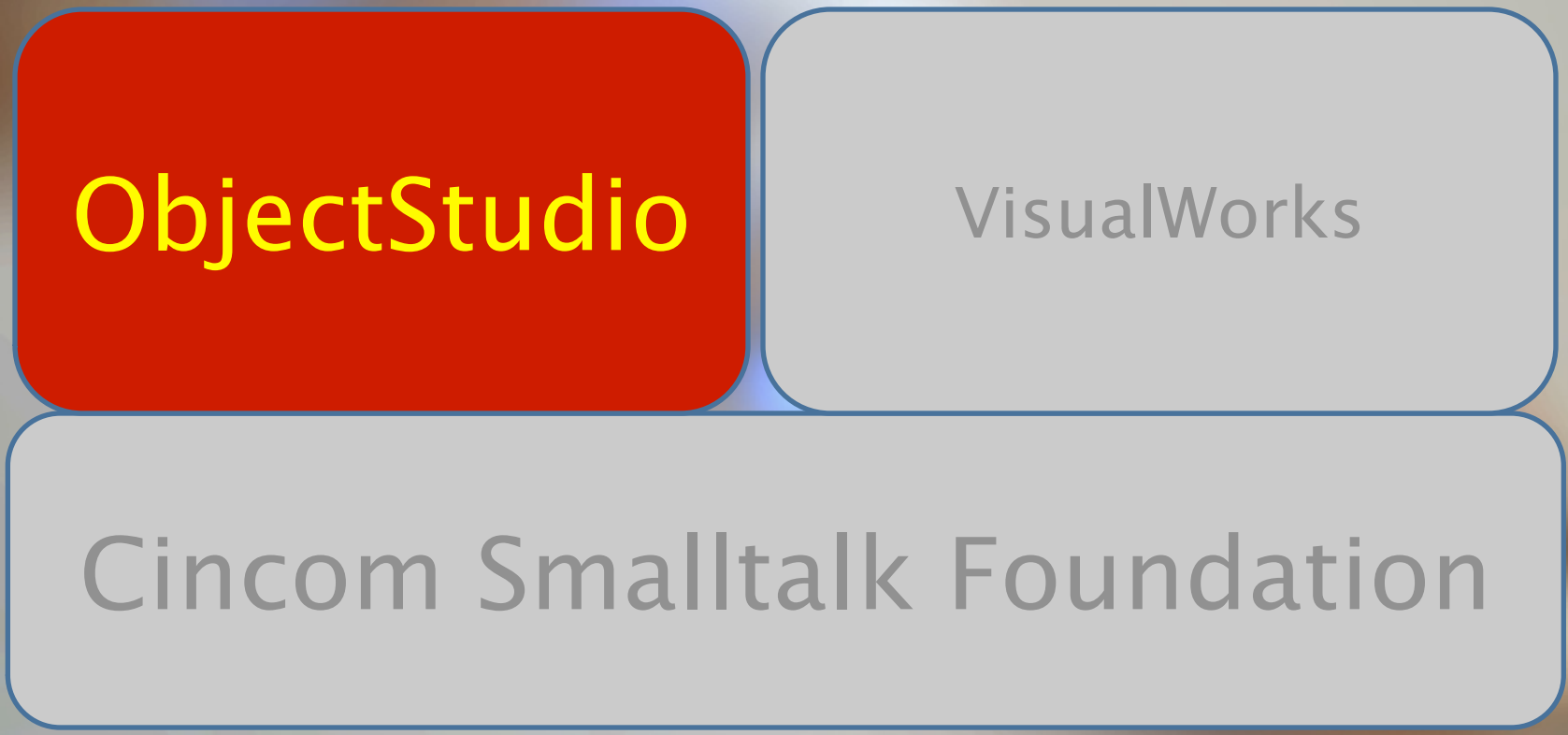
ObjectStudio



ObjectStudio

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The Products –

The "Business Analyst's Thinking Tool"

- Allows Analysts & Developers to work together
- Windows-centric, Windows 7 certified
- Powerful Object Modeling and Mapping
- Business architects use powerful bi-directional modeling tool to "blueprint" their systems design
- Code and Framework Generation, white box
- Round-Trip Engineering
- Advanced OR mapping tools integrate databases into applications

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ObjectStudio - Past

- Move to Foundation
- New professionally designed logos / icons
- Modeling tool work
- Mapping tool work / Moved to Glorp
- Compiler upgrades
- Vista certification
- Windows7 logo

ObjectStudio - Present

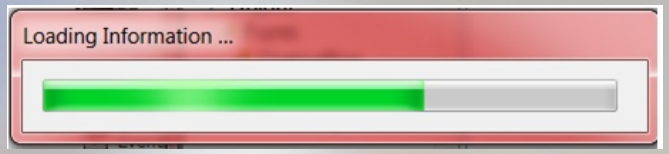
- Latest Foundation
  - extensive improvements
- Better font integration
  - Can use all available fonts
  - Includes all forms of bold, italics, underline, etc
- Move from C to Smalltalk
- Fixes and Refinements

ObjectStudio – Present

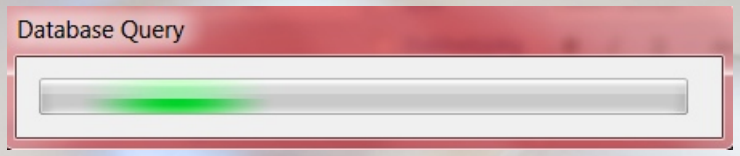
- Tools refinements
  - Modeling tool
    - Improved class import
    - Improved context sensitive help
  - Mapping tool
    - Better table creation
- Database
  - New ODBC api
  - Nanosecond/Microsecond support w/ Db connects

ObjectStudio – Present

- ProgressBar



- Marquee Dialog



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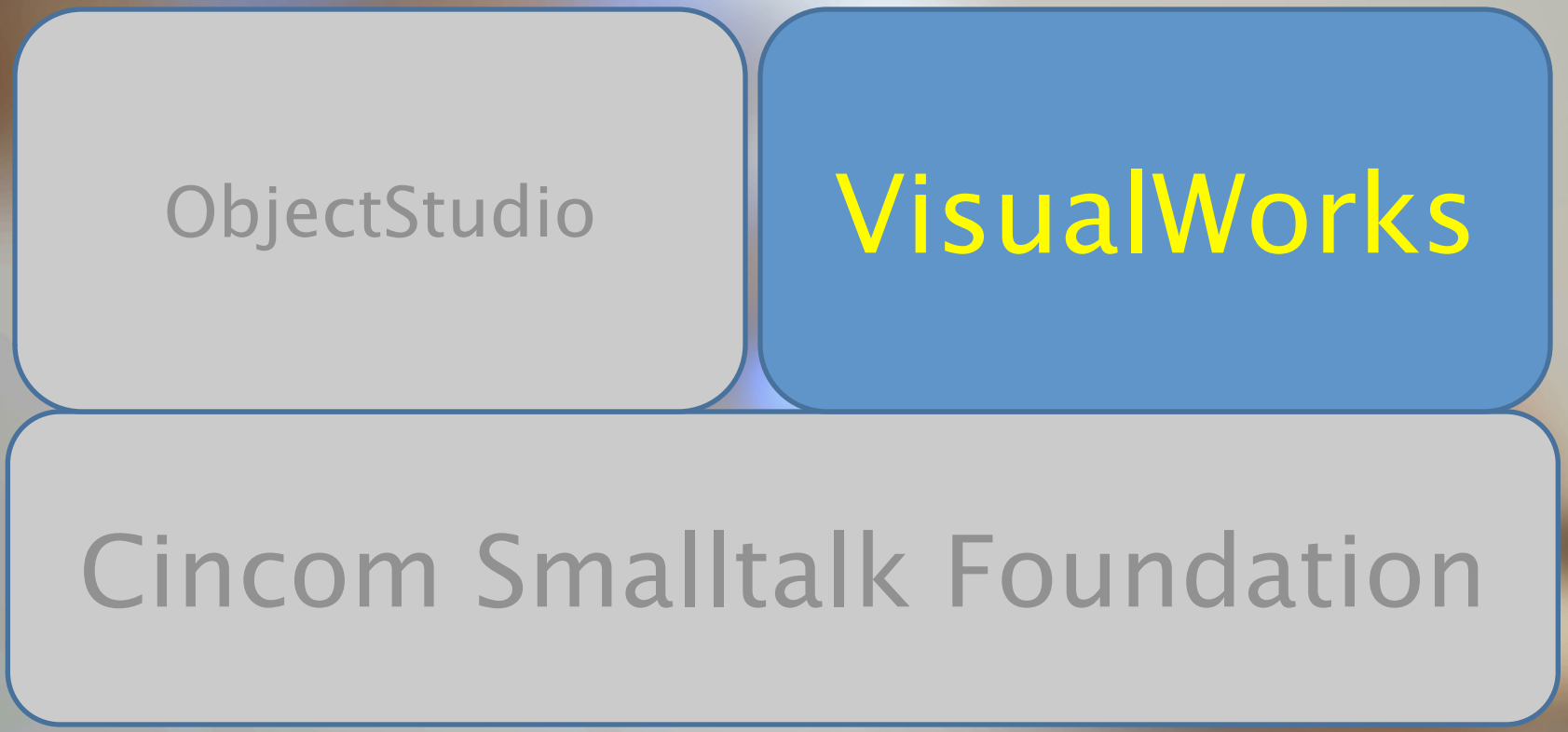
ObjectStudio – Present: Previews!

- New GUI Preview
- New COM preview

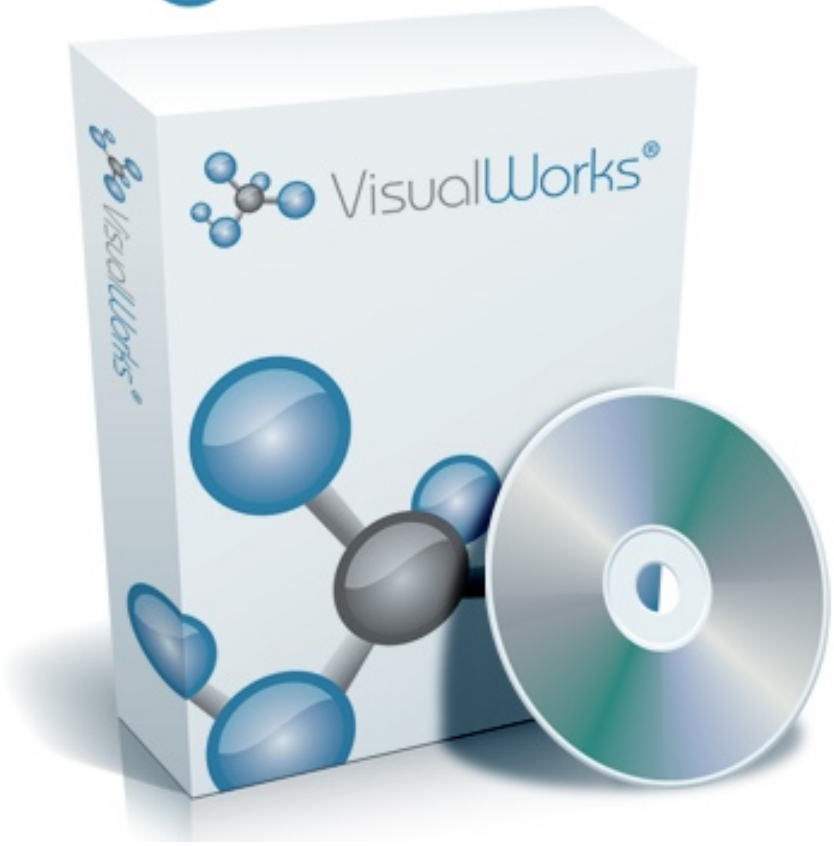
ObjectStudio - Future

- New GUI
- New COM
  - ActiveX integration
- All Foundation benefits!

VisualWorks



VisualWorks®



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VisualWorks - Past

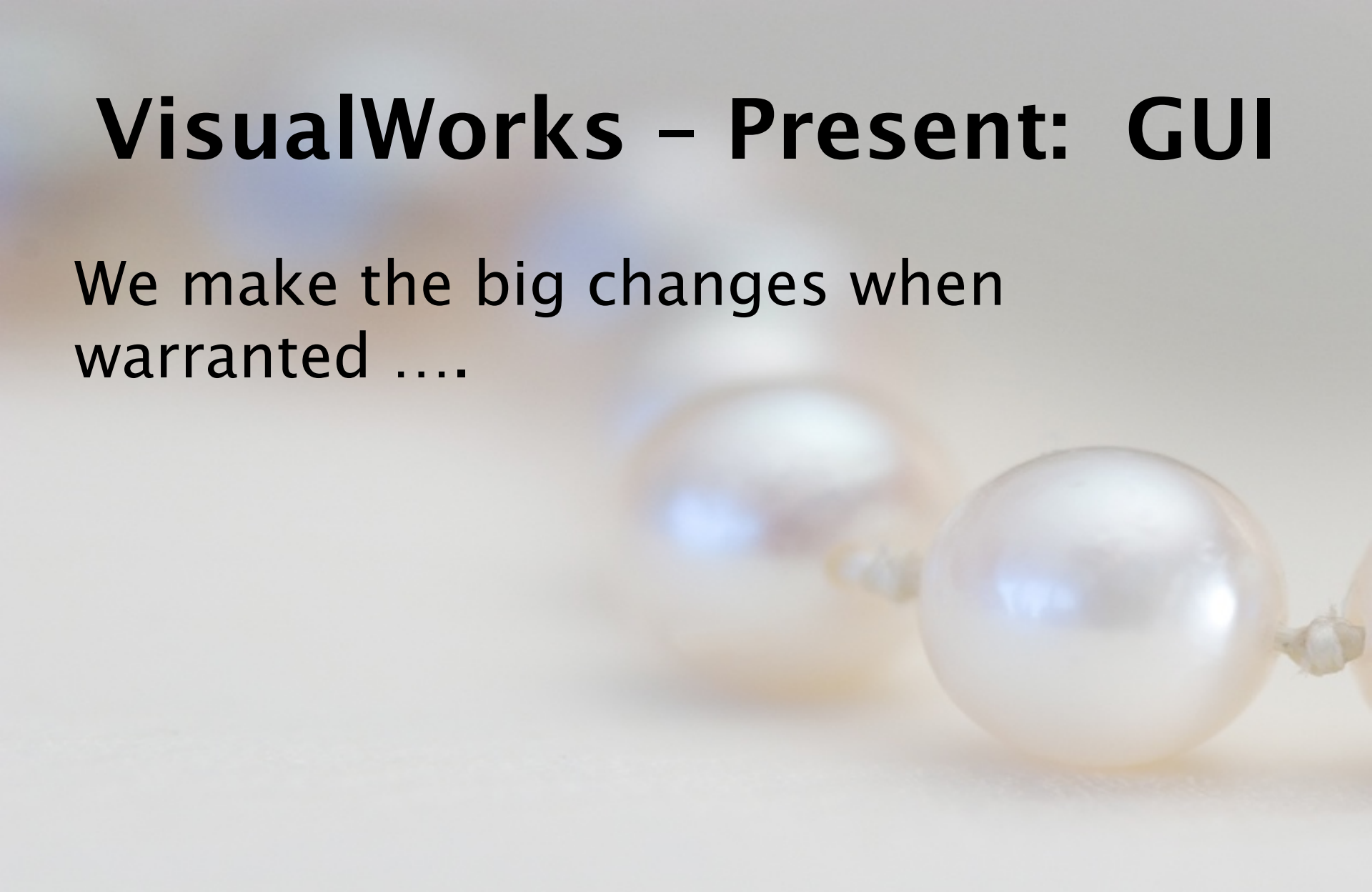
- VisualWorks Launcher
- COM Revamp, COM 64
- ActiveX integration

VisualWorks - Present

- VM improvements
  - Statically linked VM for deployment on Windows
  - Faster arithmetic on big-endian platforms
  - GC performance improvements
  - Compiler upgrades
  - Sparc v8 instruction set

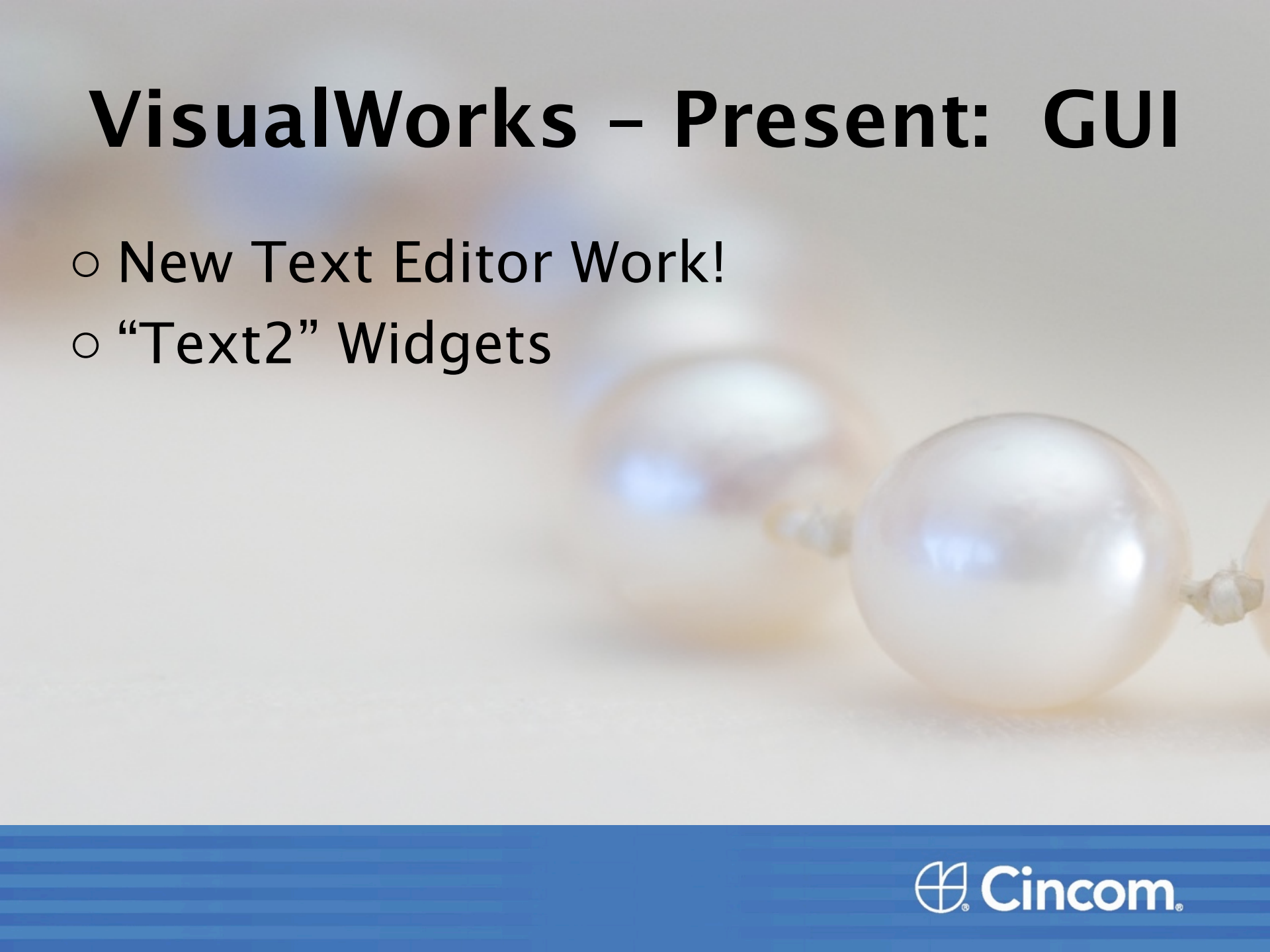
VisualWorks – Present: GUI

We make the big changes when warranted ….



VisualWorks – Present: GUI

- New Text Editor Work!
- “Text2” Widgets



VisualWorks – Present: GUI

- New “Text2” Widgets
  - Input Editor
  - Document Editor
  - Document View

What can Text2 do that Text1 cannot? …..

VisualWorks – Present: Text2

- Adornments – strike through, jagged underlines, double underlines, more
- Actions – clicking on a piece of text could activate a hyperlink
- Annotations – pop up extra information as the mouse moves over a section of text
- Variable font sizes in the same document
- Vertical alignment within lines
- Bidirectional content with support for embedded direction marks
- Unicode font measuring and rendering
- Images in documents
- Lists both bulleted and numbered, with international numbering schemes
- Extensible design to add new features

VisualWorks – Present: GUI

- Skins Look & Feel preview
- Keyboard handling overhaul (started)
- New HotKey/Command System consolidation
- Font and color specification consolidation
- OS X improvements
  - Improved keyboard bindings
  - Improved menus
  - Improved transient windows

VisualWorks - Future

- Previews becoming fully integrated
- Text2 integration
  - coming to browsers
- More, More
  - Buckle your seatbelts!

Contact info

- Star Team
(Smalltalk Strategic Task Action Resources)
  - Arden Thomas (athomas@cincom.com)
Smalltalk Product Manager
  - Suzanne Fortman (sfortman@cincom.com)
Smalltalk Director

- http://www.cincomsmalltalk.com

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