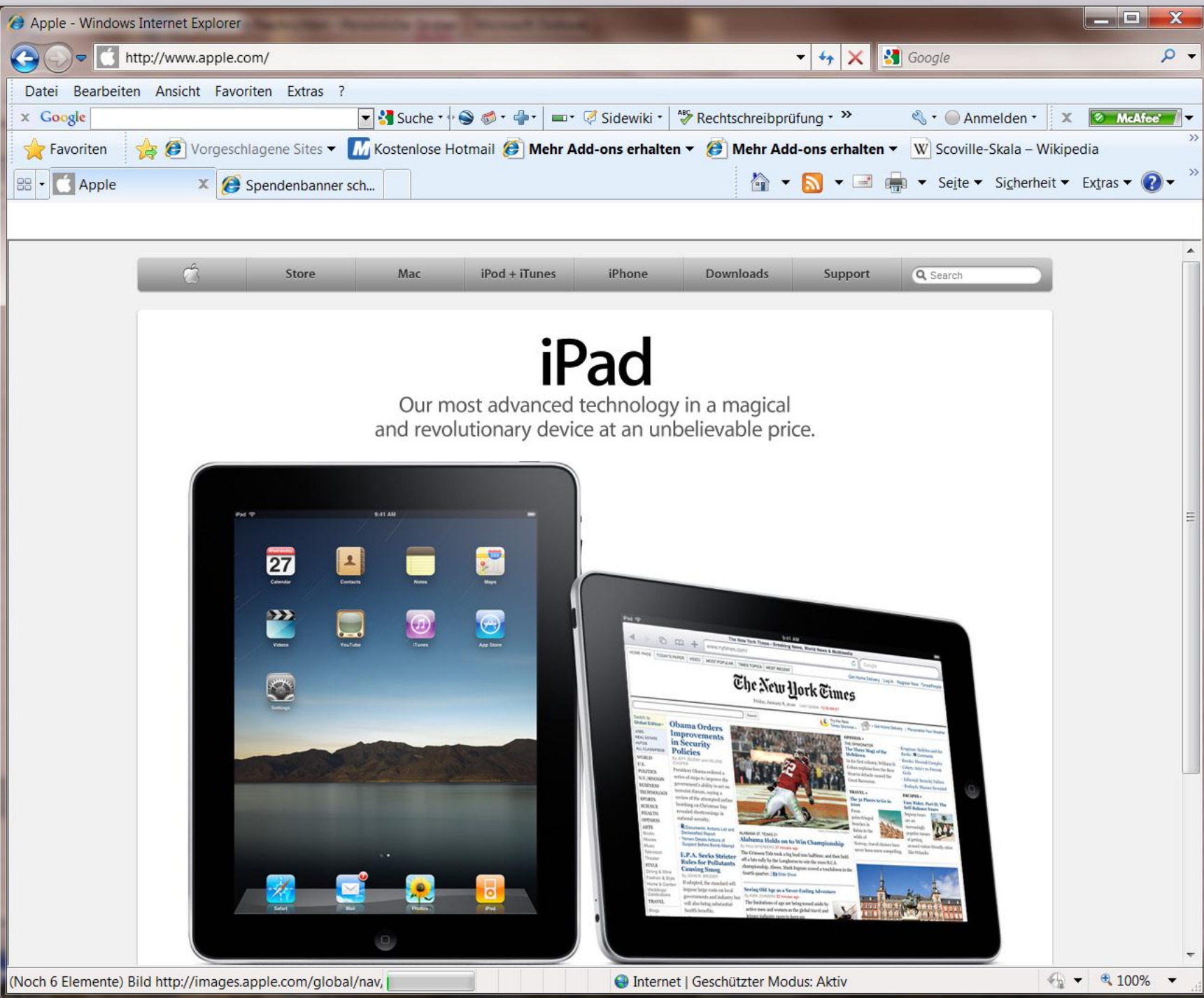# Smalltalk – Past, Present, and Future
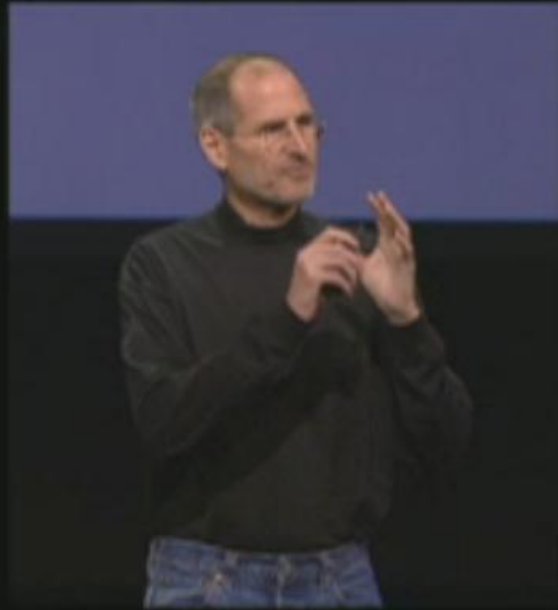
Georg Heeg

Founder and Owner of Georg Heeg eK

Executive Director of STIC – Smalltalk Industry Council

Cincom Partner since 1999

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Georg Heeg (Person)

- University of Dortmund
  - Studied Computer Science and Maths
  - Worked as Teaching Assistent
- Learned Simula 67 in 1973
- Tought Simula 67 up to 1983
- Did not understand what Objects are
- Learned Smalltalk in 1983
- Understood what Objects are

Georg Heeg eK

- Founded 7/7/1987 in Dortmund
  - Original Mission
    - Spread Smalltalk in Central Europe
- Georg Heeg AG Zurich
  - To service the Swiss market
- Subsidiary in Köthen (Anhalt)
  - To keep family Heeg together
- Premiere Cincom Smalltalk Partner
  - Throughout Europe and Worldwide

Our Team

- 14 Smalltalkers
  - with 4 to 25 years of Smalltalk experience
  - 6 certified Scrum Masters
    - Project managers of agile projects
  - 9 Smalltalkers in Dortmund
  - 5 Smalltalkers in Köthen
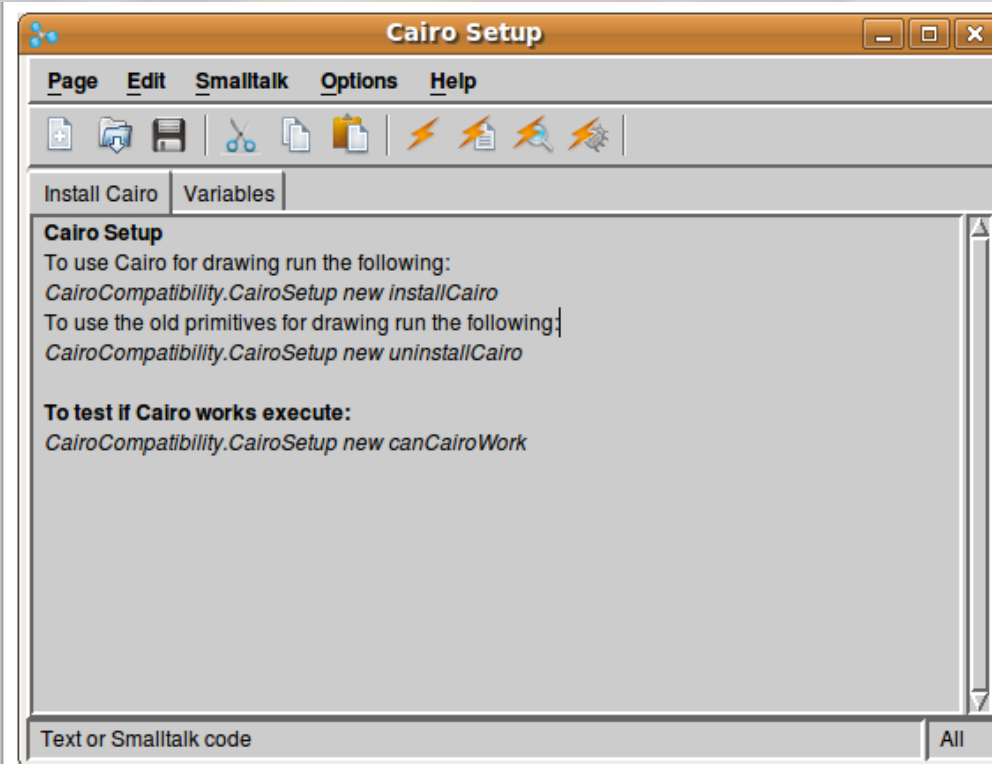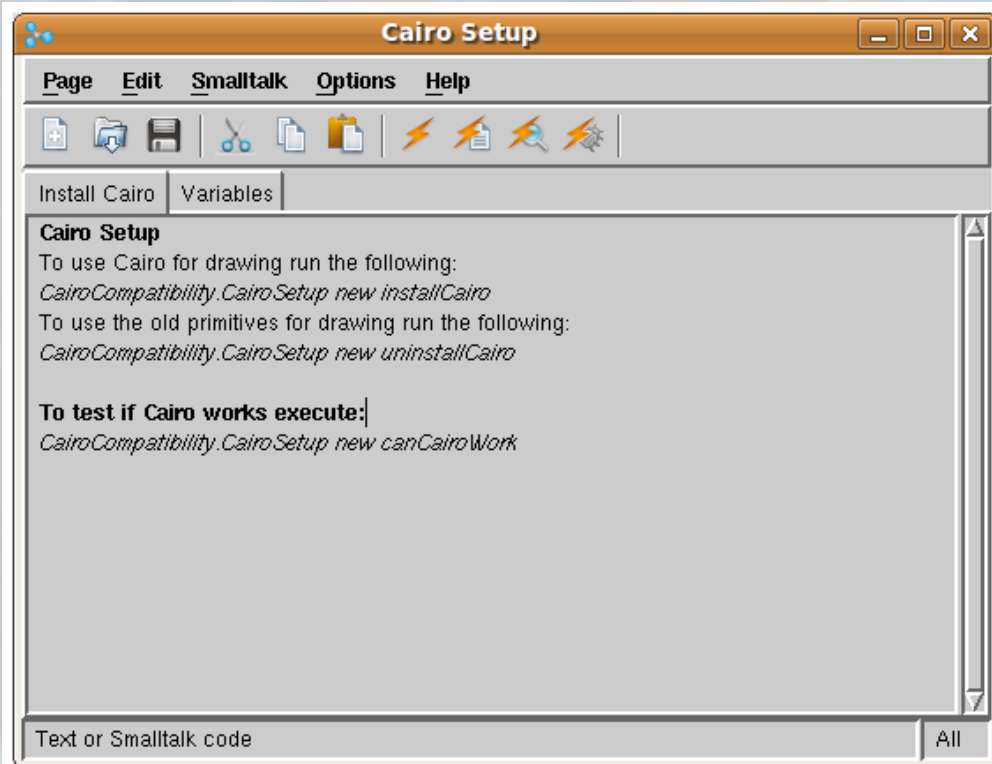- 2 Web Designers
  - in Köthen

Cairo Feasibility Study

- On behalf of Cincom
- Replacement of all VisualWorks graphic primitives by Cairo
- Result
  - Prototype with complete implementation
  - Windows, Mac OS X, Linux
- 2009

Cairo on Linux

Standard VisualWorks

VisualWorks with Cairo

Cairo Setup

Page   Edit   Smalltalk   Options   Help

Install Cairo | Variables

Cairo Setup
To use Cairo for drawing run the following:
CairoCompatibility.CairoSetup new installCairo
To use the old primitives for drawing run the following:
CairoCompatibility.CairoSetup new uninstallCairo

To test if Cairo works execute:
CairoCompatibility.CairoSetup new canCairoWork

Text or Smalltalk code   All

Cairo Setup

Page   Edit   Smalltalk   Options   Help

Install Cairo | Variables

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Text or Smalltalk code   All

STIC Purposes (from the Bylaws)

A. To create and increase awareness of Smalltalk.

B. To promote Smalltalk as the superior technology for the construction of information systems.

C. To help attract skilled, productive human resources to the Smalltalk industry.

D. To support the creation of industry standards.

- **Board Members**
  - Cincom Systems
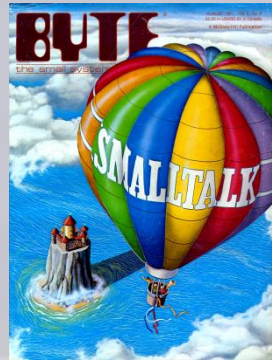 - Instantiations
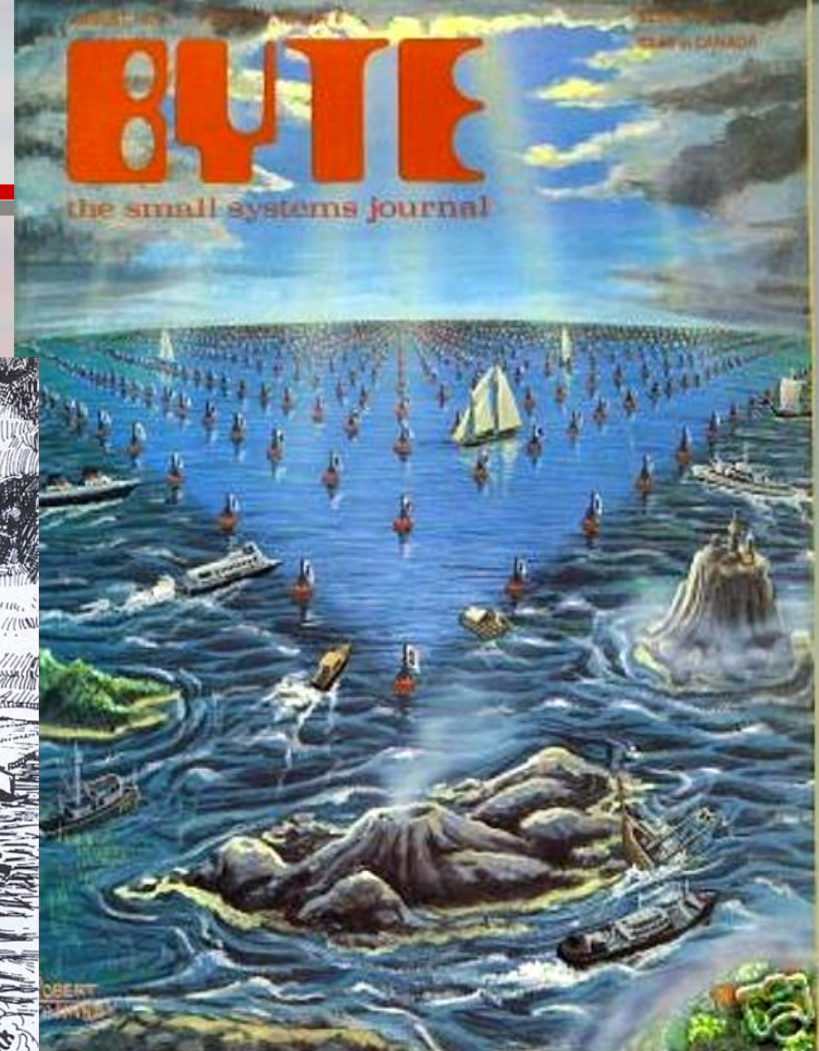 - GemStone
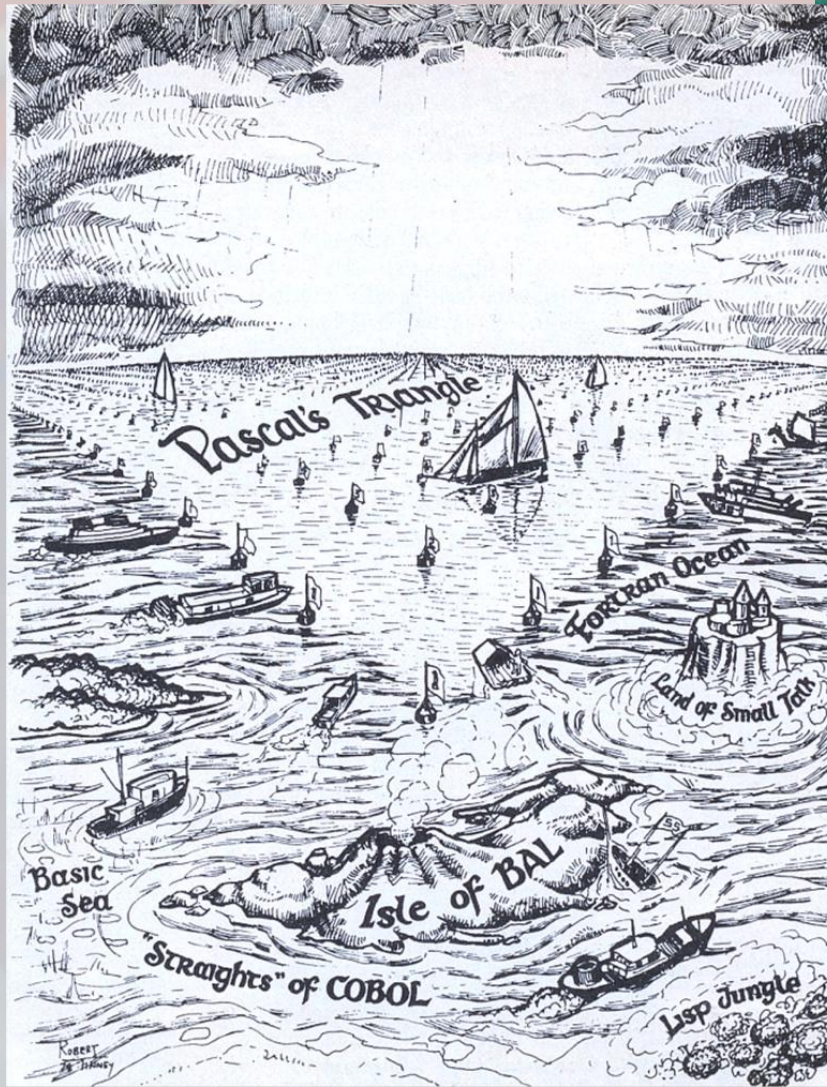- **Executive Director**
  - Georg Heeg
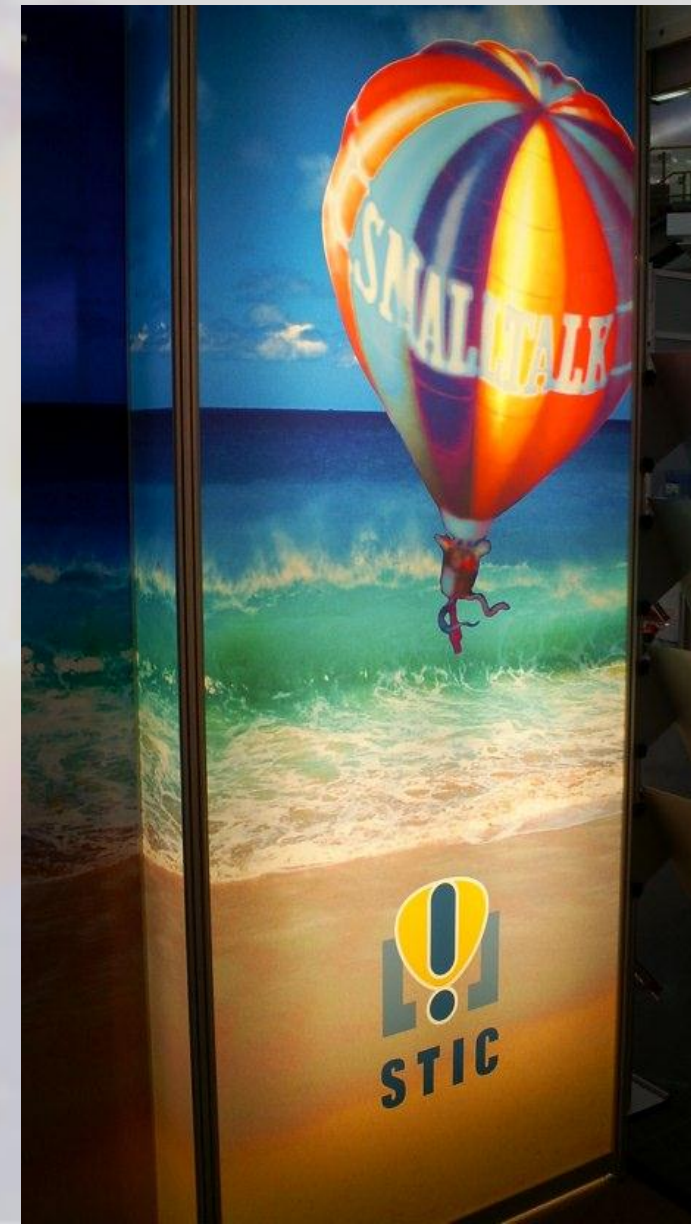
Smalltalk

- **Past**
- Present
- Future

Byte Magazine

August 1978: First time Smalltalk is mentioned

Carl Helmers

- *Traveling upward (in the picture) through heavy seas we come to the pinnacle, a snow white island rising like an ivory tower out of the surrounding shark infested waters. Here we find the fantastic kingdom of Smalltalk, where great and magical things happen.*
(Byte Magazine Aug 1978, p. 18)
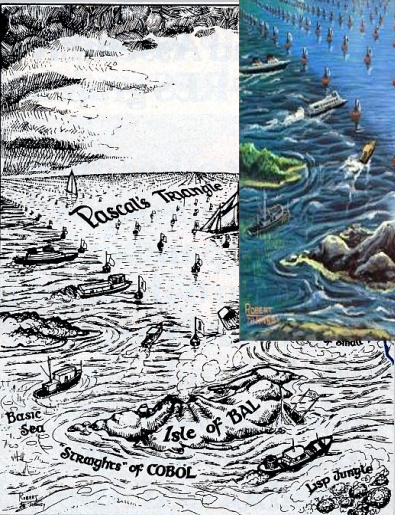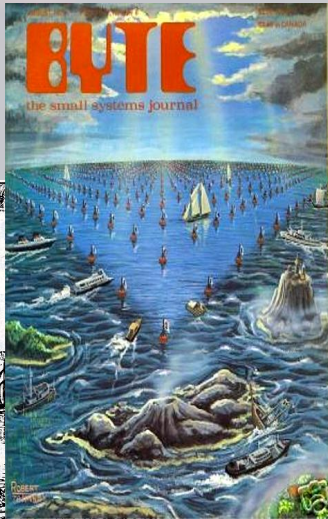
What Happened

- 1976 objects were created which still exist in today's Smalltalk systems.

- 1981 Byte Magazine published a series of 11 Smalltalk articles
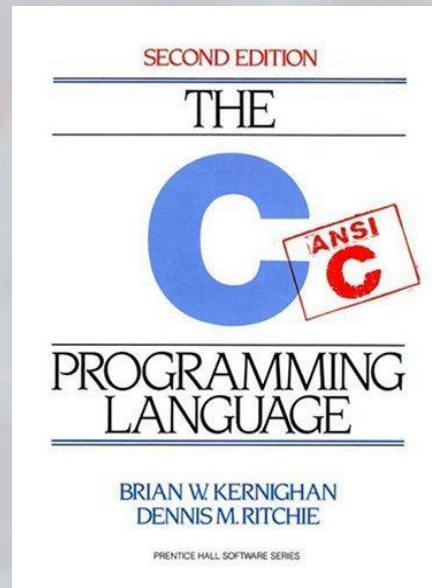 - With Z80 assembly code manually translated from Basic

```
800 I=T:B(I)=0:X$=" 0":GOSUB1000:PRINT@179,Y$;
810 T=BM:ST=ST+B(T):B(T)=99:I=T:X$=T$
820 GOSUB1000:PRINT@513,ST;:IFST<100THEN300
910 PRINT@915,"THANK YOU FOR A PLEASANT GAME";
920 GOTO920
930 PRINT@917,"CONGRATULATIONS, YOU WIN":GOTO920
1000 R=INT(I/10):C=I-10*R:K=141+(8-R)*64+C*4
1010 PRINT@K,X$;:RETURN
```

Listing 2: *The more time-consuming portions of the game have been coded in Z80 assembly language, improving the program speed 300 times. This section of the game must be loaded into otherwise unused memory before you attempt to run the program in listing 1.*

```
00100              ORG      6000H
00110  BRD         EQU      7E05H
00120  MXDPTH      EQU      7E02H
00130  TRS80       EQU      7E03H
00140  HUMAN       EQU      7E04H
00150  FROM        EQU      -12
00160  TO          EQU      +00
00170  DCOUNT      EQU      +01
```

21

The Smalltalk Bible

- 1983: The Book
- Version 2 of "The Smalltalk 80 System"
  - Distributed without virtual machine to Universities ($100)

SECOND EDITION

THE

C ANSI C

PROGRAMMING LANGUAGE

BRIAN W. KERNIGHAN
DENNIS M. RITCHIE

PRENTICE HALL SOFTWARE SERIES

SMALLTALK-80
THE LANGUAGE AND ITS IMPLEMENTATION
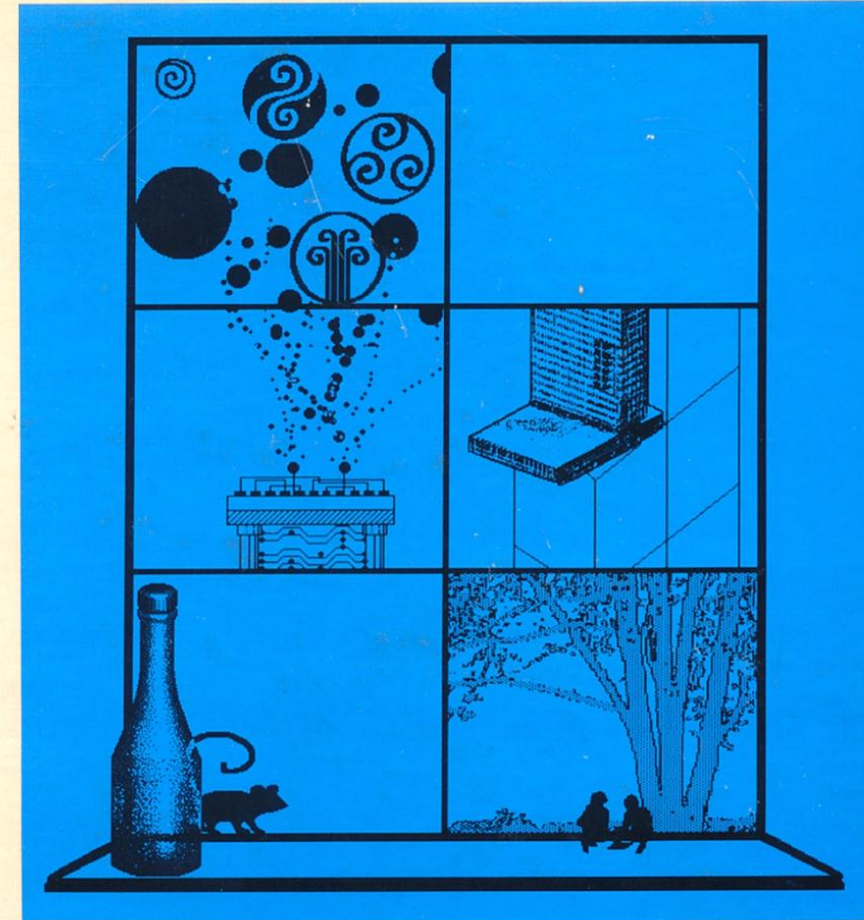
Adele Goldberg and David Robson

Commercialization

- 1968 Tom Nies founded Cincom
- 1982 Servio Logic Corp. (now GemStone Inc.)
- 1983 Digitalk
- 1984 Tektronix 4404
- 1987 Georg Heeg eK
- 1988 ParcPlace Systems
- 1991 Enfin Corporation
- 1994 IBM VisualAge
- …
- Smalltalk/X
- Dolphin
- …

1990-1995 "Smalltalk Hype I"

- Many many successful projects are started throughout the industry
  - Banks
  - Insurance
  - Car manufacturing
  - Chip manufactoring
  - Railways
- Mostly (very) complex systems

1996-2002 "Slow down"

- Java pops up
- Java Promise:
  - Smalltalk-like magical things without craggy aloofness
- In the same time frame
  - Smalltalk projects are successfully deployed

1999-… "Migrations failures"

- Smalltalk customers believe the Java hype and try to migrate

- And fail

- And Consider Smalltalk "strategic again"

Cincom Invests into Smalltalk

- November 5, 1996
  - "Vmark turns ObjectStudio over to CinMark Inc., jointly owned by Vmark and Cincom."

- February 10, 1997
  - "Cincom Systems Inc. today announced they have acquired ObjectStudio's German operations from VMARK"

- August 31, 1999
  - "Cincom Systems, Inc. today announced that it has acquired the VisualWorks(TM) product line along with the transfer of related engineering, sales and support teams from ObjectShare, Inc. "

2002-2009 "Second Spring"

- New customers adopt Smalltalk
  - Small (one person enthusiasts) and
  - Big corporations detect Smalltalk as solution for stagnating projects

Smalltalk

- Past
- **Present**
- Future

Cincom.

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Smalltalk Technology Conferences Embarks to Paris
Bringing Cincom and Cincom Smalltalk™ to the good people of France

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Gartner and Smalltalk
Gartner's Tom Murphy and
Cincom's Suzanne Fortman talk
outmaneuvering the competition
with dynamic languages and
Cincom Smalltalk™ in particular.

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Jack's Case Files

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Cincom WebVelocity 1.1 Sneak Peek!
We're currently developing Cincom WebVelocity 1.1. Here's a sneak peek!

Cincom WebVelocity 1.1 Sneak Peek!
Feb 17, 2010 | 0 comments

Cincom Smalltalk™/WebVelocity™ is 60% Faster than Java
Feb 15, 2010 | 0 comments

Cincom WebVelocity and JSON
Feb 03, 2010 | 0 comments

Smalltalk Tech Conference recap posted!
Jan 28, 2010 | 0 comments

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Jan 08, 2010 | 0 comments

WebVelocity Debugging
Senior Agent James Robertson just posted a great video showing how easy it is to debug in Cincom WebVelocity. Check it out!

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WebVelocity 1.1 Source Code Highlighting
A peek at what's to come in WebVelocity 1.1 ...

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Somehow, the Droid got my name, and it's giant red Eye-of-Sauron-meets-HAL-9000 is fixed on me now.

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MISSION: Integrate GPS-Tagged Photos with Google Maps
"We want to create a site that allows users to upload their GPS-tagged photos and video and automatically pins them on Google Maps."

Oct 26, 2009 | 0 comments | View Post

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http://www.cincomsmalltalk.com/main/products/webvelocity/

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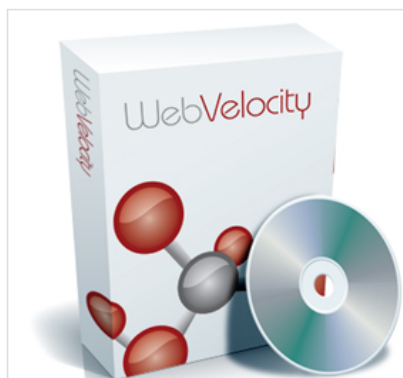Connect with us on Flickr

Products: WebVelocity

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⇨ Adding AJAX Tutorial (mp4)
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WebVelocity

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⇨ Smalltalk Daily 03/01/10: Tracing Network Calls
⇨ Smalltalk Daily 02/26/10: UI Tools and Packages
⇨ Smalltalk Daily 02/25/10: Exporting Code in a Portable Fashion
⇨ Smalltalk Daily 02/24/10: How to Report a Bug
⇨ Smalltalk Daily 02/23/10: ExtraActivity

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GEMSTONE/S OBJECT SERVER

GemStone/S is the state-of-the-art platform for developing, deploying, and managing scalable, high-performance, multi-tier applications based on business objects.

GemStone/S provides the flexible distribution of processing, security, and robustness your enterprise needs for a business-critical, run-time environment. GemStone/S supports high-availability online environments that demand 24×7 operation. For more than a decade, customers in finance, insurance, transportation, telecommunications, and utilities have used GemStone/S to host core business applications.

GemStone/S is based on Smalltalk — a mature, industry-standard language. Developers who have written Smalltalk applications and who work with Smalltalk clients will find it easy to build applications in GemStone/S. GemStone/S uses the same object model as Smalltalk, enabling seamless integration with your existing Smalltalk applications.

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What is GLASS?

GLASS – **G**emStone, **L**inux, **A**pache, **S**easide, and **S**malltalk – provides a powerful new way to rapidly create and deploy desktop-like web applications. GLASS makes GemStone's transparent persistence, enterprise scalability, and legendary reliability available to web application developers. By using GLASS, you can focus on developing your application, and not spend any time on complex Object-Relational mapping or other persistence schemes. For more details, visit Dale's or James' blog.

A public Beta of GLASS is available on our download page.

What is the GLASS Virtual Appliance?

It is pre-built, ready-to-run, 64-bit VMware virtual appliance configured to start GemStone, Seaside, Apache, and Firefox when it is booted.

It includes GemStone/S 2.3 and Seaside 2.8 running on Xubuntu Linux 7.10. It includes a Squeak image and VM you can use to develop Seaside applications. You may use it at no charge to develop, deploy, and distribute GemStone/Seaside applications, as long as you abide by the terms of the License and the restrictions imposed by the included keyfile.

It requires a 64-bit X86-based Macintosh, Windows or Linux computer with VMware installed. It will even work on 32-bit Windows XP, as long as the underlying hardware will run a 64-bit guest OS. See VMware's Hardware and Firmware Requirements for 64-Bit Guest Operating Systems or Intel's list of Core™2 Duo Processors. According to AMD, all 64-Bit AMD processors that use DDR2 memory except Sempron™ should work.

About GemStone/S

GemStone/S combines an enterprise class application server, a robust object database, and a multi-user Smalltalk virtual machine. With the addition of the open source Seaside

Smalltalk Solutions 2008

StS 2008 was the best in years. Presentation slides and videos are available using the links below.

RENO 2008
SMALLTALK
SOLUTIONS

- Sessions (overview)
- Sessions (details)

Other Resources

- GemStone 101
- GLASS 101
- Dale's blog
- James' blog
- Web Development with Seaside
- GemSource Repository
- seaside.st
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» WidgetKit/Business Graphics
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» WidgetKit/Professional
                        ▪ Support for Windows 7, SuSE Linux, and   *the most powerful GUI builder available in any language*
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                                                                                                              Editor*
More Smalltalk   ▪ ENVY/QA to reduce defects
                                                                           A library of graphic components:
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                                                                           ▪ with 50 standard chart types, and 21 3D chart types
» Goodies   **Proven Power and Productivity**
                                                                           ▪ with printing and metafile support
» Instantiations Publications   VA Smalltalk allows for incremental and rapid
                        development of applications that...   ▪ that are portable between Windows and OS/2
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                         ▪ use object-oriented technology.   **Learn more »**

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                                                                           WidgetKit/Professional
                         ▪ are scaleable and multi-tier.   *add powerful spreadsheets, tables, etc., to your applications*

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Intent to Change License for Squeak 4.0

The Squeak Oversight Board plans to finalize the multi-year effort of re-licensing Squeak. Squeak 4.0 is scheduled to be released on Monday, March 15th, 2010 and will be licensed under the MIT License with some original parts remaining under the Apache License. This release will be functionally equivalent to the previous 3.10.2 release. Current development work will be released as 4.1 as soon as possible following the release of 4.0.

This notice is intended as a "last call" before the actual license change takes effect. We have assembled re-licensing agreements from every identifiable contributor. However, if you have contributed to Squeak or know of someone who has contributed and has not been contacted about the re-licensing effort, this notice is intended to make you aware of the upcoming change and to allow you to contact the Squeak Oversight Board regarding your contributions before the license change takes place.

Please distribute this notice widely. Questions or comments should be sent to relicensing@squeak.org.

The Squeak Oversight Board

Also:

- The **Squeak Oversight Board Election** is coming up in **early March. Check the** squeak-dev mailing list for campaign information.

Squeak

Welcome to the World of Squeak!

Squeak is a modern, open source, full-featured implementation of the powerful Smalltalk programming language and environment. Squeak is highly-portable - even its virtual machine is written entirely in Smalltalk making it easy to debug, analyze, and change. Squeak is the vehicle for a wide range of projects from multimedia applications, educational platforms to commercial web application development.

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Version 3.10

Linux
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Need installation help?

The Weekly Squeak

Dynamic Web Development with Seaside
Sun, 28 Feb 2010 11:10
A print-on-demand, softcover copy of the book “Dynamic Web Development with Seaside&a...

Squeak Board candidates wanted
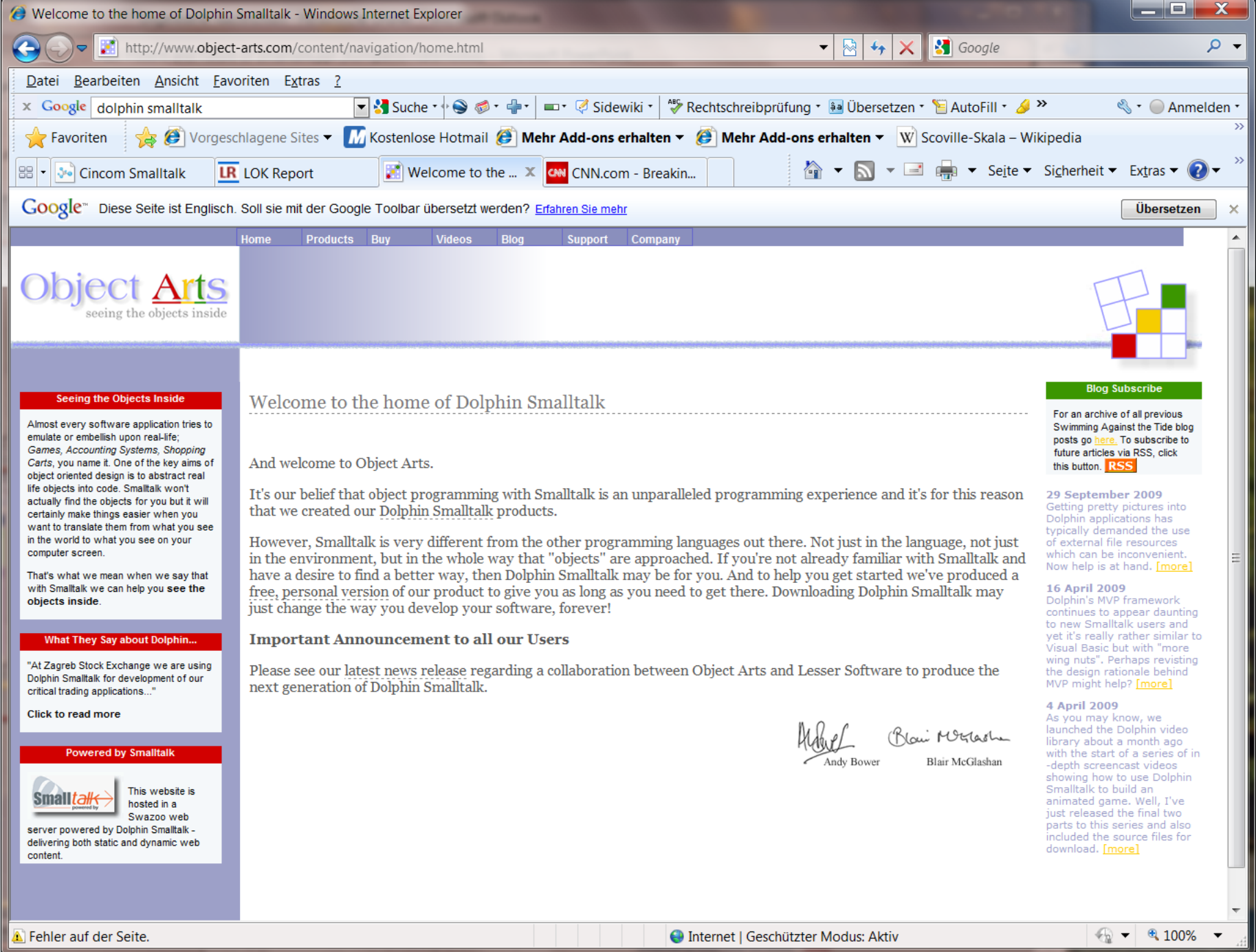Sat, 20 Feb 2010 12:02
Göran Krampe has begun the process for this year’s elections for the Squeak Oversigh...
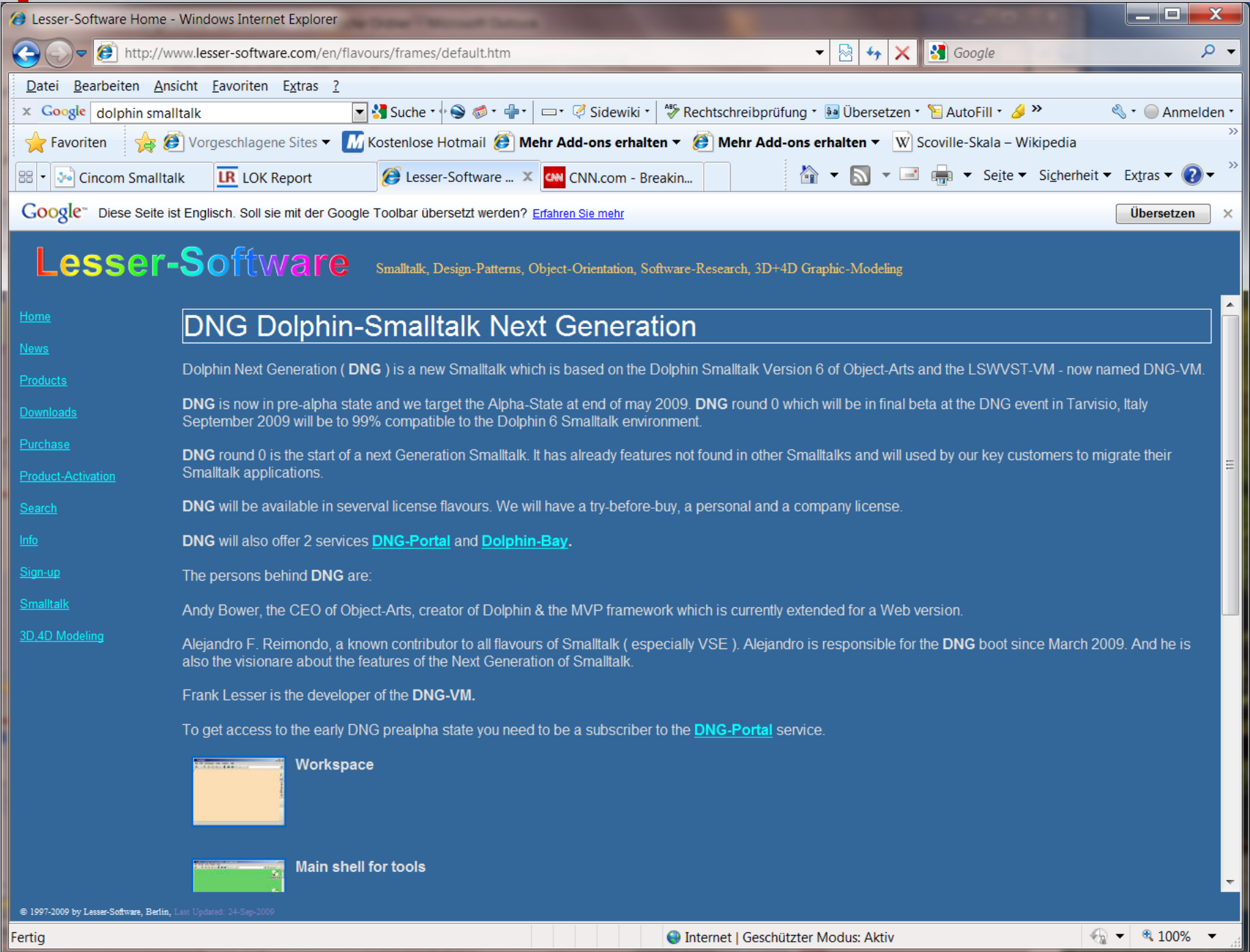
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Object Arts
seeing the objects inside

Welcome to the home of Dolphin Smalltalk

And welcome to Object Arts.

It's our belief that object programming with Smalltalk is an unparalleled programming experience and it's for this reason that we created our Dolphin Smalltalk products.

However, Smalltalk is very different from the other programming languages out there. Not just in the language, not just in the environment, but in the whole way that "objects" are approached. If you're not already familiar with Smalltalk and have a desire to find a better way, then Dolphin Smalltalk may be for you. And to help you get started we've produced a free, personal version of our product to give you as long as you need to get there. Downloading Dolphin Smalltalk may just change the way you develop your software, forever!

Important Announcement to all our Users

Please see our latest news release regarding a collaboration between Object Arts and Lesser Software to produce the next generation of Dolphin Smalltalk.

Andy Bower   Blair McGlashan

Seeing the Objects Inside

Almost every software application tries to emulate or embellish upon real-life; *Games, Accounting Systems, Shopping Carts*, you name it. One of the key aims of object oriented design is to abstract real life objects into code. Smalltalk won't actually find the objects for you but it will certainly make things easier when you want to translate them from what you see in the world to what you see on your computer screen.

That's what we mean when we say that with Smalltalk we can help you **see the objects inside**.

What They Say about Dolphin...

"At Zagreb Stock Exchange we are using Dolphin Smalltalk for development of our critical trading applications..."

Click to read more

Powered by Smalltalk

This website is hosted in a Swazoo web server powered by Dolphin Smalltalk - delivering both static and dynamic web content.

Blog Subscribe

For an archive of all previous Swimming Against the Tide blog posts go here. To subscribe to future articles via RSS, click this button. **RSS**

29 September 2009
Getting pretty pictures into Dolphin applications has typically demanded the use of external file resources which can be inconvenient. Now help is at hand. [more]

16 April 2009
Dolphin's MVP framework continues to appear daunting to new Smalltalk users and yet it's really rather similar to Visual Basic but with "more wing nuts". Perhaps revisting the design rationale behind MVP might help? [more]

4 April 2009
As you may know, we launched the Dolphin video library about a month ago with the start of a series of in-depth screencast videos showing how to use Dolphin Smalltalk to build an animated game. Well, I've just released the final two parts to this series and also included the source files for download. [more]

http://www.lesser-software.com/en/flavours/frames/default.htm

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Smalltalk, Design-Patterns, Object-Orientation, Software-Research, 3D+4D Graphic-Modeling

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Smalltalk

3D,4D Modeling

DNG Dolphin-Smalltalk Next Generation

Dolphin Next Generation (**DNG**) is a new Smalltalk which is based on the Dolphin Smalltalk Version 6 of Object-Arts and the LSWVST-VM - now named DNG-VM.

DNG is now in pre-alpha state and we target the Alpha-State at end of may 2009. **DNG** round 0 which will be in final beta at the DNG event in Tarvisio, Italy September 2009 will be to 99% compatible to the Dolphin 6 Smalltalk environment.

DNG round 0 is the start of a next Generation Smalltalk. It has already features not found in other Smalltalks and will used by our key customers to migrate their Smalltalk applications.

DNG will be available in several license flavours. We will have a try-before-buy, a personal and a company license.

DNG will also offer 2 services **DNG-Portal** and **Dolphin-Bay**.

The persons behind **DNG** are:

Andy Bower, the CEO of Object-Arts, creator of Dolphin & the MVP framework which is currently extended for a Web version.

Alejandro F. Reimondo, a known contributor to all flavours of Smalltalk (especially VSE). Alejandro is responsible for the **DNG** boot since March 2009. And he is also the visionare about the features of the Next Generation of Smalltalk.

Frank Lesser is the developer of the **DNG-VM.**

To get access to the early DNG prealpha state you need to be a subscriber to the **DNG-Portal** service.

Workspace

Main shell for tools

© 1997-2009 by Lesser-Software, Berlin, Last Updated: 24-Sep-2009

Fertig   Internet | Geschützter Modus: Aktiv   100%

Pharo

*Clean, innovative, open-source
Smalltalk environment*

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Pharo by Example

Search   🔍

Mission

Pharo's goal is to deliver a clean, innovative, free open-source Smalltalk environment. By providing a stable and small core system, excellent developer tools, and maintained releases, Pharo is an attractive platform to build and deploy mission critical Smalltalk applications. Pharo is MIT licensed and is steered by a board of benevolent dictators. The board makes final decisions if no consensus can be reached within the community. Pharo fosters a healthy ecosystem of both private and commercial contributors who advance and maintain the core system and its external packages.

Pharo provides...

- a pure object-oriented language that runs on all major platforms
- a stable core system with unit tests
- a clean look and feel
- full block closures
- low memory footprint

Current status: 1.0 RC2

Quick links

Getting started

Report a bug

New Pharo book available

Pharo by Example has been released and can be downloaded for free.

Pharo by Example, intended for both students and developers, will guide you gently through the Pharo language and environment by means of a series of examples and exercises.

http://www.seaside.st/

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seaside

The framework for developing
sophisticated web applications
in Smalltalk

About

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Examples
Hosting
Support
Success Stories   more

Documentation

Dynamic
Web Development

The open book
Dynamic Web
Development with
Seaside is
available online. A
PDF version is available for
download.

with seaside

Also see: FAQ, Tutorials, Migration,
Videos, and more.

Community

Weblogs
Mailing Lists
Development
Contribute
Merchandise
Extensions
Projects   more

Seaside 2.8

Unit Tests

News

Seaside-Book is now available in Print
Â« Joachims Small World   2010-03-
01T10:15:52+00:00
This is the first time that a tutorial on
Seaside will include specifics for VA
Smalltalk, but unfor...

Control flow in Iliad | GNU
Smalltalk   2010-02-28T11:11:14+00:00
In seaside WATask is a special
presenter. Its purpose is not to build html
by itself but to display ...

Dynamic Web Development with
Seaside Â« The Weekly Squeak   2010-
02-28T11:10:58+00:00
The book gives you all the instruction
and support necessary to get up and
running in all the popula...

â   Dynamic Web Development with
Seasideâ   available in softcover
from ...   2010-02-27T17:40:32+00:00
http://book.seaside.st/book/introduction/print
-book. We wish to thank the European
Smalltalk User Gr...

Complete Set of Seaside Videos   2010-
02-26T06:29:18+00:00
Gemstone has indexed their set of
Seaside vidoes. Meanwhile, they'll be
coming to Cincinnati on Marc...

more

download

open source

Seaside is a free and
Open Source™ web
application framework
distributed under the
MIT License.

Seaside is available on the following
Smalltalk platforms:

Pharo Smalltalk (download)
Cincom Smalltalk
Dolphin Smalltalk
GemStone Smalltalk
GNU Smalltalk
Squeak Smalltalk
VA Smalltalk

esug
EUROPEAN SMALLTALK USER GROUP
www.esug.org

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Update 3 to issue 554 ("WABuilder>>codec

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SBBrowser ❓

seaBreeze

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⊕ —

— 🗅 SBDiv1 ✿
  ✛ 🗅 SBDiv2
  ✛ H1 SBBHeading1 ✿
  ✛ ⚓ SBBAnchor1
  ✛ ⚓ SBAnchor1
  ✛ ▦ SBTable2 ✿
    🗅 emptyDivForSpaceAtTheBottom ✿

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Colorscheme XML : (OK)

File   – select a file – ⊗

Library SBBrowserFiles

Add File (Choose File) no fil…ected
         (Upload)
         create new scheme

Page Attributes :

Title Page SeaBreezeBrowser ⊗

Menu ⊗

➔ **Create New Application**   ➔ **Open Classic Seaside Browser**
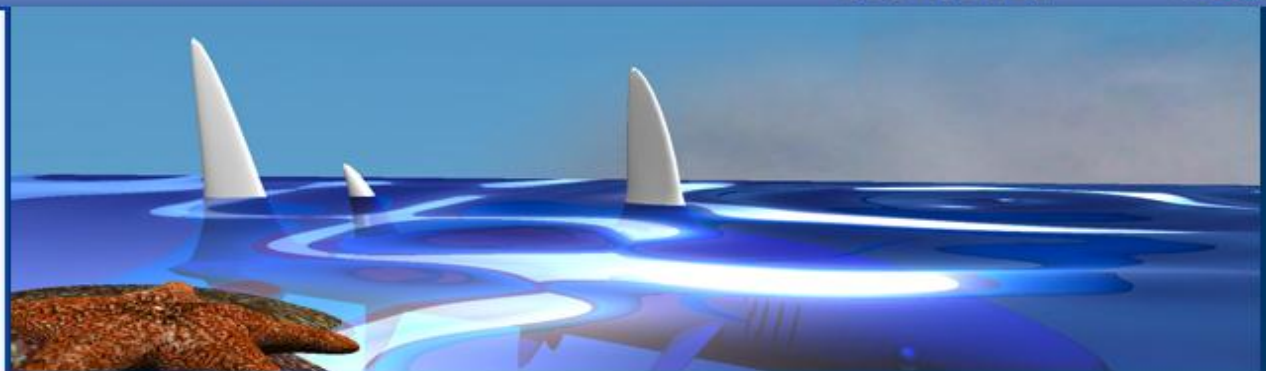
seaBreeze Applications:

name				Open	Edit	Config	Files	description

seaBreeze System:

name				Open	Edit	Config	Files	description

New Session Configure Toggle Halos Terminate XHTML 167/0 ms Close Editor

Smalltalk

- Past
- Present
- **Future**

Tom Nies

- "We have always defined our success by the success of our clients."
- "I do believe in the power of Smalltalk!"
  - personal letter to me (June 16, 2009)
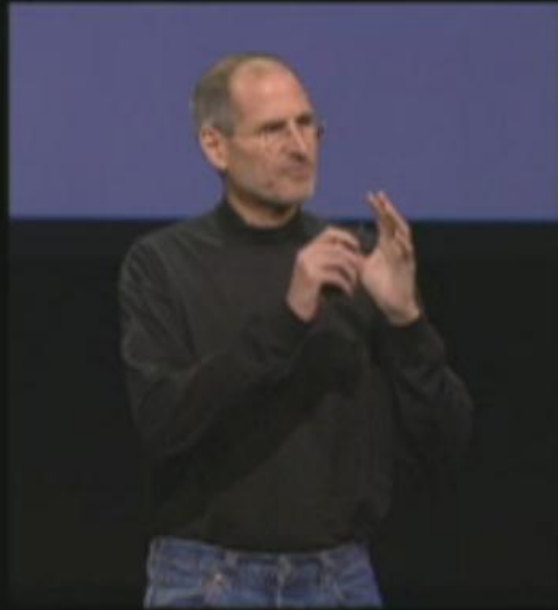
Far better at some key things

- Smalltalk is based on a small number of concepts, but defined by unusual terminology.

- These concepts are presented by defining the five words
  - Object
  - Message
  - Class
  - Instance
  - Method

- These five words are defined in terms of each other, so it is almost as though the reader must know everything before knowing anything.
(Goldberg, Robson 1983)

- Collections

- Numbers

- Classes

- Methods

- Messages

- Processes

- Contexts
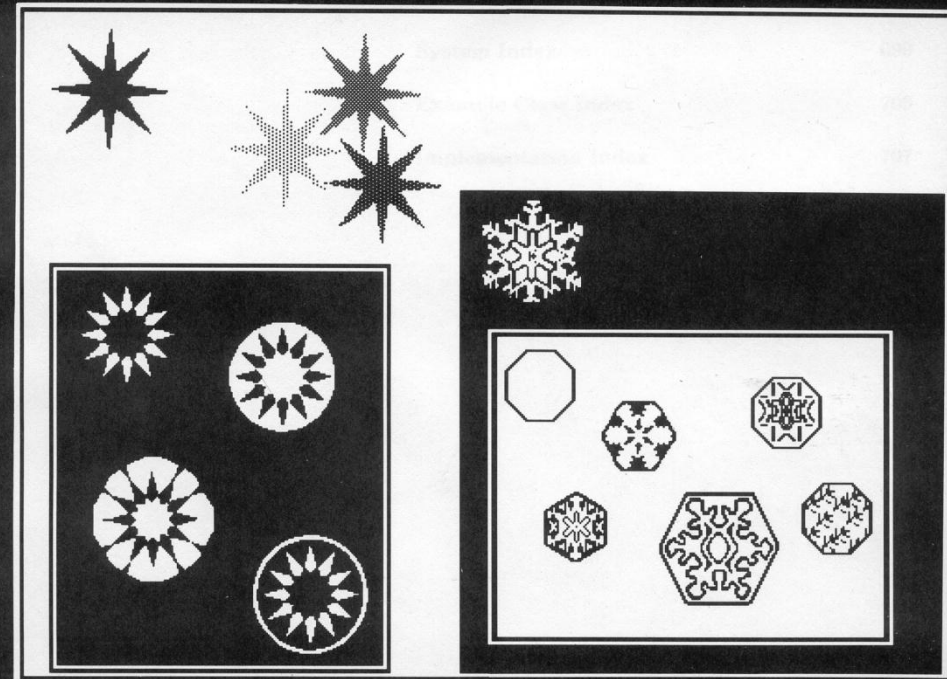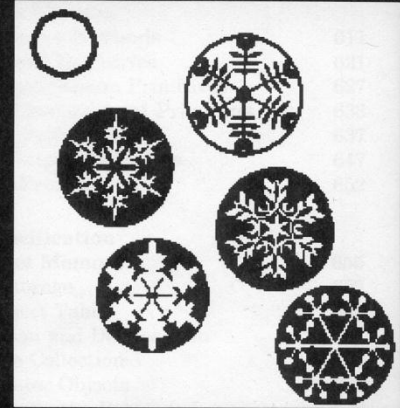
Objects

- You can create them
- You can manipulate them
- You can change them
- You can control them
- You can forget them

- You are in control of your system

Effective and joyful

- Smalltalk is "a vision of the ways different people might effectively and joyfully use computing power"
(Goldberg Robson p. vii)

- Thus Smalltalk is an addiction

Object Oriented Modeling
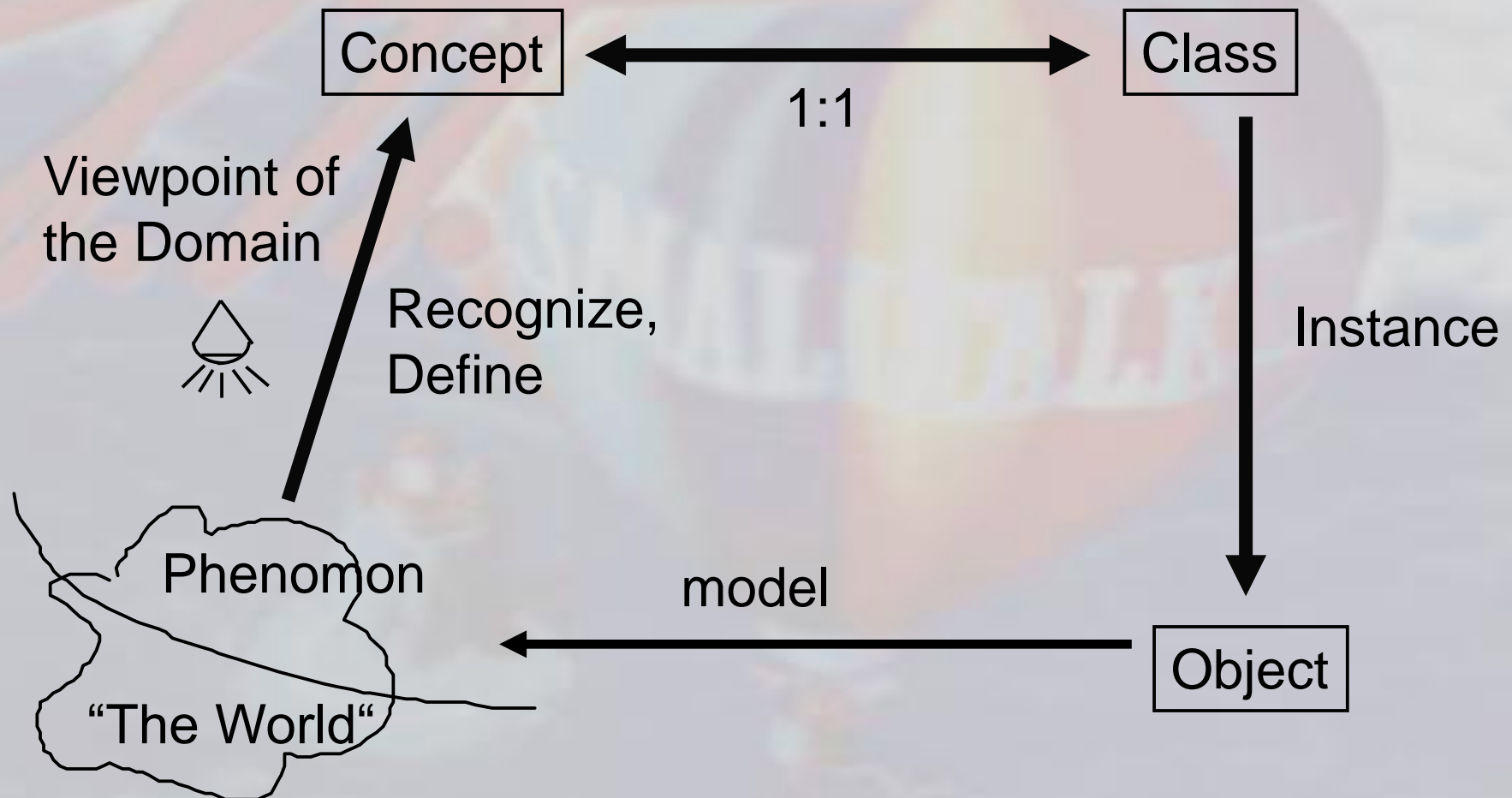
What is this?

- Wooden body in the form of a cylinder with approx. 20 cm (8 inch) height and 6 mm
(1/4 inch) in diameter.

- In the center of the cylinder are a drilling of 1 mm and this are filled with pressed graphite.

- At end end the cylinder is conically tapered.

- The graphite can be transferred to other bodies by rubbing.

What Does Little John Care About?

DRAW

61
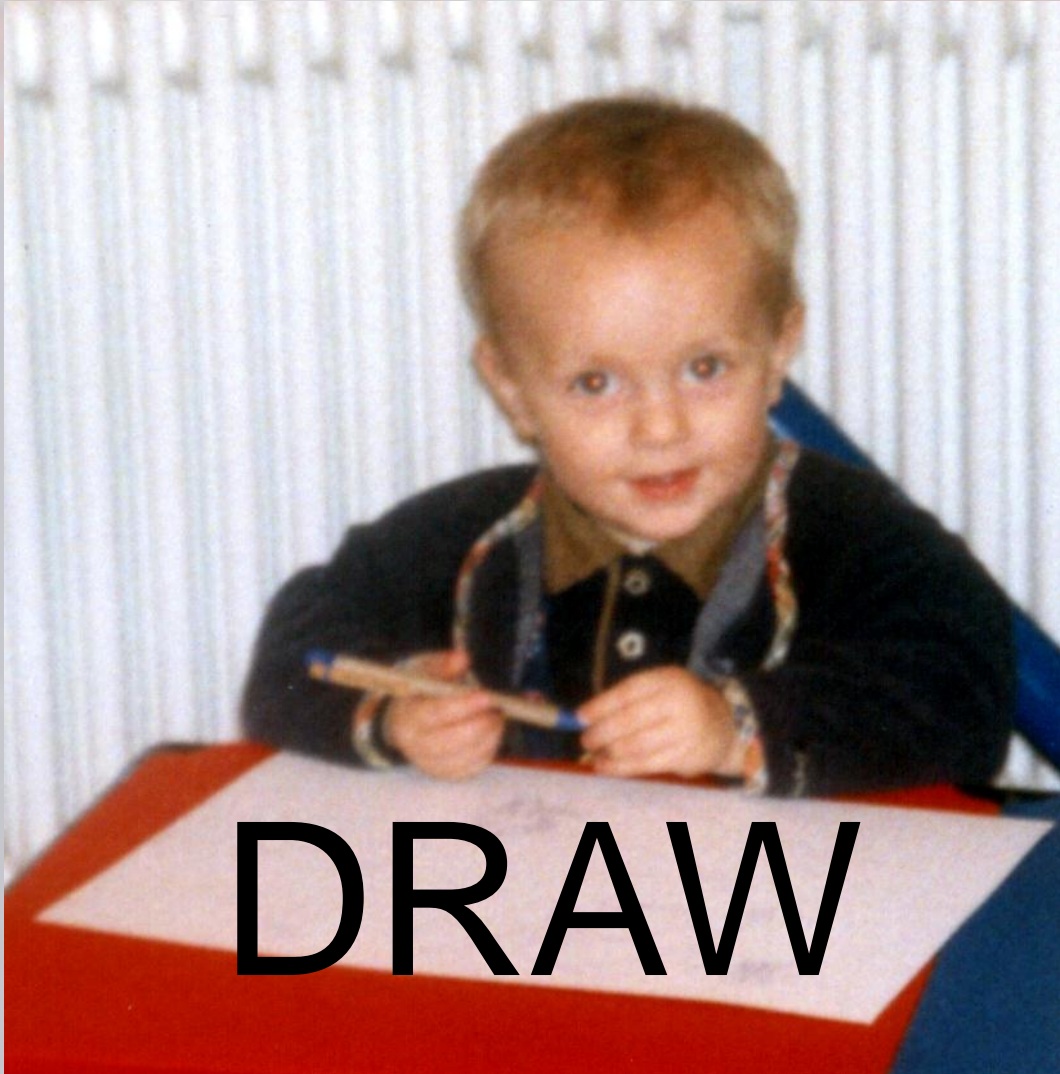
About Pencils and Ball Pens

- The object oriented (and Jonny's) viewpoint:
  - Pencil = something, you can write and draw with
  - ball pen = something, you can write and draw with

Jonny (Java)

Boy
        private object *hand*;   (Instance Variable)

Somewhere in class Boy you want to write:

    hand = Daddy.giveWagon();

    ...
    ((Wagon)hand).pull()

Then you have to change the pen example (check all occurences of hand):

    ((Pen)hand).draw()

Smalltalk Example I

- Simple dynamic binding (small and large integer multiplication)
  - 10000 factorial

  - Just type it in a workspace and print it

Smalltalk Example II

- A model for Lambda Calculus
  - f := [:n | n < 1 ifTrue: [1] ifFalse: [(f value: (n-1)) * n]].
  - f value: 10000

  - Just linarite the well known formula
  - Just the same as of the slide before

Smalltalk Example III

- How the home of Bach in Köthen was looked for

- Open Question since 1880

- Solved in 2008

- Using Modeling in Smalltalk

Jn Stallischen Viertel

	Summa	Rest	
3	1.14.8		Schoß / Orgel / 1.14.8 Müller / Oxer / Rohgold
4			
4 8			
3			
20			Schoß
3	1.7.8	1.7.8	Orgel / Müller / Oxer / Rohgold
4			
2 8			
2			
5 6	5.16	5.16	Schoß / Orgel / Müller
6			
4			
1 12			Schoß / Orgel
3	2.4.2½	2.4.2½	Müller / Oxer / Klosterhof / Rohgold
4			
5 4			
1 10½			
2			
1 12			Schoß / Orgel
3	2.2	2.2	Müller / Oxer / Rohgold
4			
4			
3			

12. 20. 6½ | 12. 20. 6½ | 11. 5. 10½ | 1. 14. 8.

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GH-Bachnetz

Literaturverzeichnis

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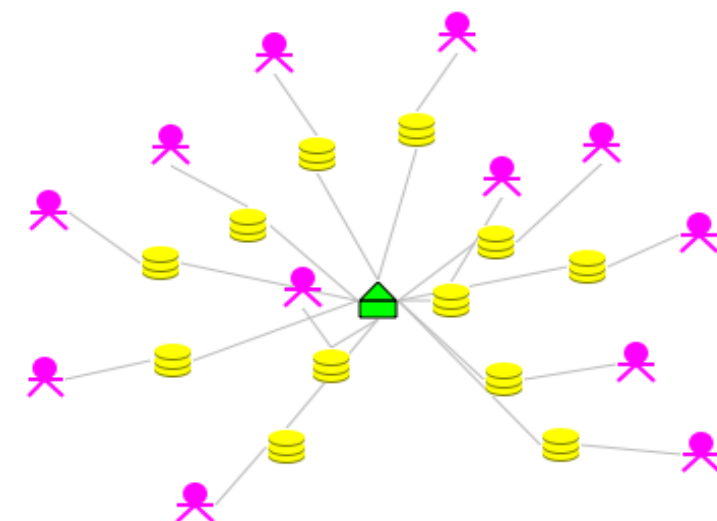
Haus

Haus

| Adresse | Wallstraße 17 (Hall. 10,301, 1819: 233) (→Google Maps) |
| Viertel | Hallisches Viertel |

Jahr	Name	Bezahlt	Summe	Solleink.	Eink.	Brunnen	Flurh.	Kehr	Opfer	Orgel	Orgrel
1741	August Gottlieb Weyders Ehefrau	Nein	1 T 3 Gr 7.5 Pf	-	-	-	7.5 Pf	4 Gr	4 Gr	3 Gr	-
1742	August Gottlieb Weyders Ehefrau ist noch in frei Jahre	Ja	1 T 3 Gr	-	-	-	-	4 Gr	4 Gr	3 Gr	-
1744	August Gottlieb Weyders Ehefrau	Nein	1 T 7 Gr 6.5 Pf	-	-	-	1 Gr 10.5 Pf	2 Gr	4 Gr 8 Pf	3 Gr	-
1745	August Gottlieb Weyders Ehefrau	Ja	1 T 7 Gr 6.5 Pf	-	-	-	1 Gr 10.5 Pf	2 Gr	4 Gr 8 Pf	3 Gr	-
1746	August Gottlieb Weyders	Nein	1 T 9 Gr 6.5 Pf	-	-	-	1 Gr 10.5 Pf	4 Gr	4 Gr 8 Pf	3 Gr	-
1747	August Gottlieb Weyder	Ja	1 T 7 Gr 6.5 Pf	-	-	-	1 Gr 10.5 Pf	2 Gr	4 Gr 8 Pf	3 Gr	-
1748	August Gottlieb Weyder	Ja	1 T 7 Gr 6.5 Pf	-	-	-	1 Gr 10.5 Pf	2 Gr	4 Gr 8 Pf	-	3 Gr
1749	August Gottlieb Weyder	Ja	1 T 7 Gr 6.5 Pf	-	-	-	1 Gr 10.5 Pf	2 Gr	4 Gr 8 Pf	3 Gr	-
1750	August Gottlieb	Nein	1 T 7 Gr 6.5	-	-	-	1 Gr 10.5 Pf	2 Gr	4 Gr 8 Pf	-	3 Gr

Die Wohnhäuser Johann-Sebastian Bachs

- Johann Sebastian Bach wohnte zunächst in der Schalaunischen Straße 44 bei Krämer Johann Andreas Lautsch

- 1719 errichtete Lautsch in der Wallstraße 25/26 einen Neubau, in den Johann Sebastian Bach umzog.

Smalltalk Example IV

- The business man's problem

- I've got confusing Excel spreadsheets

- I need expressive spreadsheets

Modeling
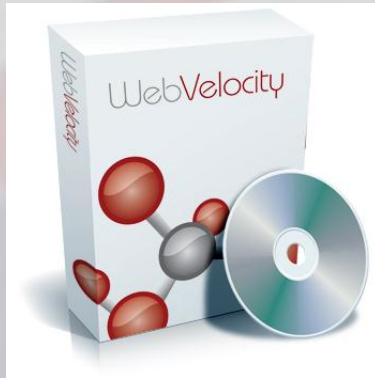
- ## WebVelocity
  - Smalltalk models the web interaction and the relational database in objects

- ## seaBreeze
  - Smalltalk models HTML in objects

- ## ObjectStudio 8
  - VisualWorks Smalltalk models ObjectStudio Smalltalk in objects

http://www.cnn.com/2010/POLITICS/01/20/obama.first.year/index.html?hpt=Sbin

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Part of complete coverage on
44th President

44TH PRESIDENT

Obama's first year: Strong foundation or house of cards?

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By **Ed Henry**, CNN Senior White House Correspondent
January 20, 2010 7:44 p.m. EST

GETTY IMAGES

CHANGE WE NEED
WWW.BARACKOBAMA.COM

Introduction
Nonpartisan political Web site Politifact.com has found that out of 502 campaign promises made by Barack Obama, more than half have had enough progress to be rated in the works. Of the others, the site says: **91** have been fulfilled, **33** are considered a partial success, **87** have been stalled, and **14** have been broken.

Here are four of the key issues Obama discussed on the campaign trail and a look at where they stand.

» HIDE CAPTION

Top campaign promises kept?

‹ **Introduction** Economy Health care Military issues Women's rights ›

STORY HIGHLIGHTS   **Washington (CNN)** -- He was talking about health care, but

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Chile struggles to stop looting

Powell admits 'golf buggy' charge

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John Humphrys' BBC review / You and Yours: Join the phone-in / Blog: 6 Music discussion

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London, Central		Five-day forecast
Tuesday	Wednesday	Thursday
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Max: 11°C Min: 3°C	Max: 7°C Min: 2°C	Max: 7°C Min: -1°C

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Storyville   Wh

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Live - Bangladesh v England

Pietersen granted paternity leave

Powell admits 'golf buggy' charge

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- Milner criticises Wembley pitch

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Chile quake might have shortened days on Earth

STORY HIGHLIGHTS
- Each day should be 1.26 microseconds shorter, according to preliminary calculations
- A large quake alters the distribution of mass on the planet
- Length of days was shorted by 6.8 microseconds after tsunami of 2004

(CNN) -- The massive earthquake that struck Chile last week might have shifted the Earth's axis and created shorter days, scientists at NASA say.

The change is negligible, but permanent: Each day should be 1.26 microseconds shorter, according to preliminary calculations. A microsecond is one-millionth of a second.

A large quake shifts massive amounts of rock and alters the distribution of mass on the planet.

When that distribution changes, it changes the rate at which the planet rotates. And the rotation rate determines the length of a day.

"Any worldly event that involves the movement of mass affects the Earth's rotation," Benjamin Fong Chao, of NASA's Goddard Space Flight Center in Greenbelt, Maryland, said while explaining the phenomenon in 2005.

Example: Financial Change

Example: Financial Change

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JPMorgan Chase reports first-quarter 2009 net income of $2.1 billion, or $0.40 per share

Apr 16, 2009

Press Release

New York, April 16, 2009 – JPMorgan Chase & Co. (NYSE: JPM) today reported first-quarter 2009 net income of $2.1 billion, compared with net income of $2.4 billion in the first quarter of 2008. Earnings per share were $0.40, compared with $0.67 in the first quarter of 2008.

View 1Q09 Earnings.

Where innovation and commitment exceed client expectations.

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Risk
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As global markets evolve, we seek to meet clients' needs wherever they do business. We thank our clients for their enduring support and trust in our ability to provide the best in advice, expertise and service.

Risk Awards 2008

Risk Awards 2009 — Derivatives House of the year
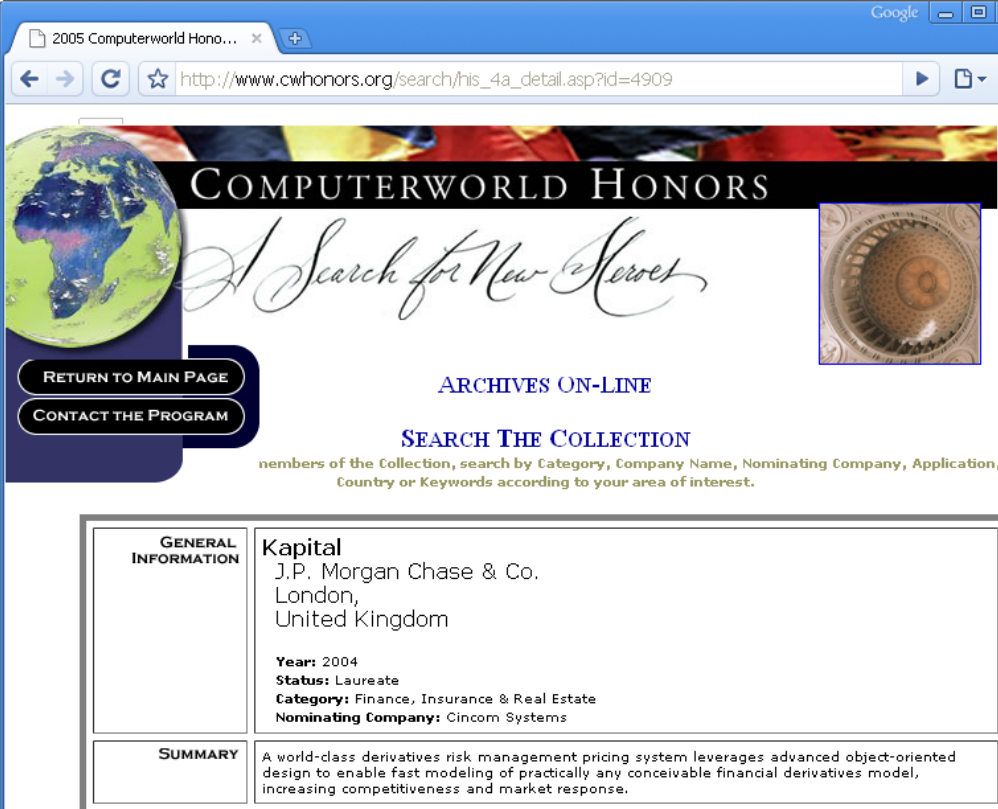
J.P. Morgans Software

- KAPITAL
  - Computerworld Honors Program Award 2004
  - Derivate risk management calculation system of world class
  - Highly sophisticated object oriented design
    - fast modeling of each thinkable
    - Finance derivate model
    - increasingly competitive
    - Market reaction.

Cincom.

Profile in Success: **JPMorgan**

# JPMorgan Derives Clear Benefits From Cincom Smalltalk™
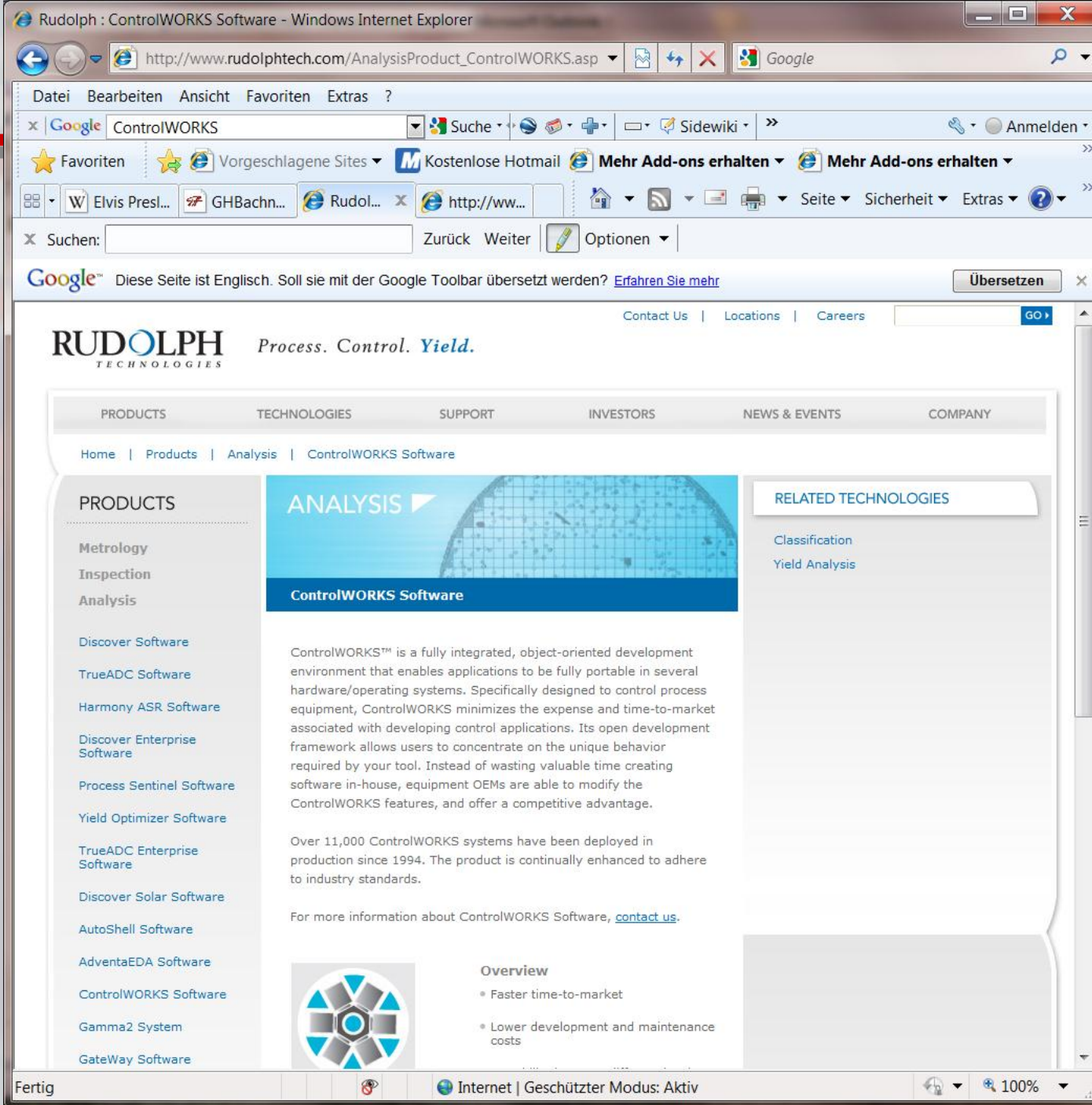
Smalltalk is Far Better at some Key Things

- Smalltalk lets you model your virtual world
- Smalltalk frees you from technical burden
- Smalltalk technology is supported by strong vendors
- Smalltalk lets you work your way

- Smalltalk gets you in the controls of your computer
- Smalltalk lets you master your computer

Smalltalk Mobilizes

Fahrzeuggestaltung -Citröen Jumper-
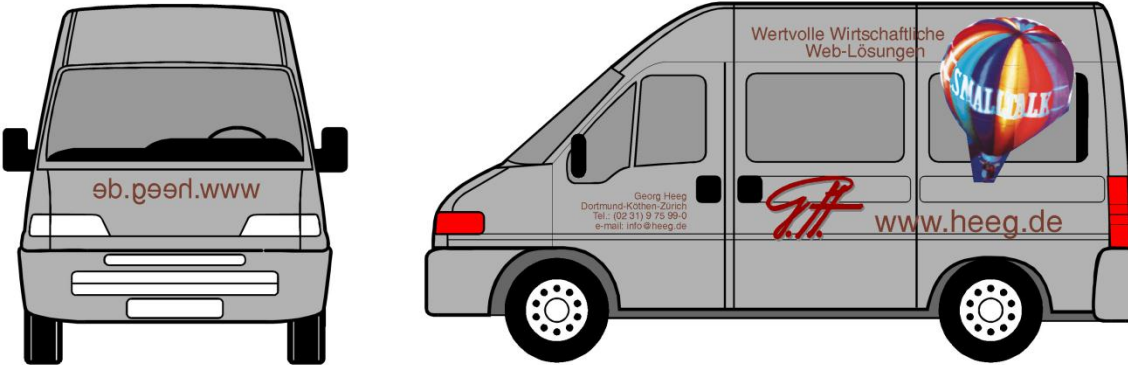
My Dream of the Future

- People understand more of the world
- People model their understanding of the world
- People utilize Smalltalk as the most expressive and most flexible way for modeling

- Smalltalk is one of the best technologies to improve the world

WE ALL LOVE SMALLTALK