



*"I do enjoy Pharo"* Kent Beck

*A clean, innovative, open-source Smalltalk*

<http://www.pharo-project.org>



# Pharo?

We use our language **every** day





# Pharo?

We use our language **every** day

Research

Teaching

Business



# Pharo?

Why do we not continuously improve

what we use

????





# Pharo?

Small simple fixes

One step at a time

Even do the **imperfect** next step

# Compound Interest

Every improvement has an effect

Example: Refactoring Browser





# Pharo!

We will use **this** system in 10 years

Let's make it great!



# Pharo

A **flexible** environment to support the  
**innovation** in/of Smalltalk.





# Pharo

A **robust** environment to support doing  
**business** in Smalltalk.



# Conflict?

***Robustness*** vs. ***Innovation***





# Conflict?

***Business***

vs.

***Research***







The background features a light gray, textured surface with various colorful splatters in shades of yellow, blue, pink, and purple. A faint, light gray map of the African continent is visible in the background, centered behind the text.

# Base Camp

Research is like an expedition

**We need a stable base!**

# Research / Teaching

## Teaching

[materias.fi.uba.ar/...](http://materias.fi.uba.ar/...)  
[scg.unibe.ch](http://scg.unibe.ch)  
[soft.vub.ac.be/soft/](http://soft.vub.ac.be/soft/)  
[www.ensm-douai.fr](http://www.ensm-douai.fr)  
[www.imus.univ-savoie.fr](http://www.imus.univ-savoie.fr)  
[www.inria.fr](http://www.inria.fr)  
[materias.fi.uba.ar/7507/](http://materias.fi.uba.ar/7507/)  
[www.nmu.edu](http://www.nmu.edu)  
[www.uca.edu.ar](http://www.uca.edu.ar)  
[www.uchile.cl](http://www.uchile.cl)  
[www.upc.edu](http://www.upc.edu)

## Research

- SCG, University of Bern
- SLL, Vrije Universiteit Brussel
- RMOD, INRIA
- Ecole d'Ing. d. Mines de Douai
- REVEAL, University of Lugano
- PLEIAD/DCC, Univ. of Chile
- University Louvain la Neuve
- Universidad de Buenos Aires
- LISyC
- UMMISCO



# Companies

[www.l0pines.com](http://www.l0pines.com)

[www.2denker.de](http://www.2denker.de)

[www.agilitic.com](http://www.agilitic.com)

[www.airflowing.com](http://www.airflowing.com)

[www.anymorphic.com](http://www.anymorphic.com)

[www.ardishealth.com](http://www.ardishealth.com)

[www.arduinosoftware.com](http://www.arduinosoftware.com)

[www.beta9.be](http://www.beta9.be)

[www.bombardier.com](http://www.bombardier.com)

[www.cmsbox.com](http://www.cmsbox.com)

[www.doslovno.info](http://www.doslovno.info)

[www.finworks.biz](http://www.finworks.biz)

[seaside.gemstone.com](http://seaside.gemstone.com)

[www.ibizlog.com](http://www.ibizlog.com)

[www.inceptive.be](http://www.inceptive.be)

[www.jooshr.com](http://www.jooshr.com)

[www.majcon.de](http://www.majcon.de)

[www.mindclue.ch](http://www.mindclue.ch)

[www.miriamtech.com](http://www.miriamtech.com)

[www.monkeysnatchbanana.com](http://www.monkeysnatchbanana.com)

[www.myneat.org](http://www.myneat.org)

[www.netstyle.ch](http://www.netstyle.ch)

[www.nidea.eu](http://www.nidea.eu)

[www.panasoft.com](http://www.panasoft.com)

[www.pinesoft.co.uk](http://www.pinesoft.co.uk)

[www.promedmedical.net](http://www.promedmedical.net)

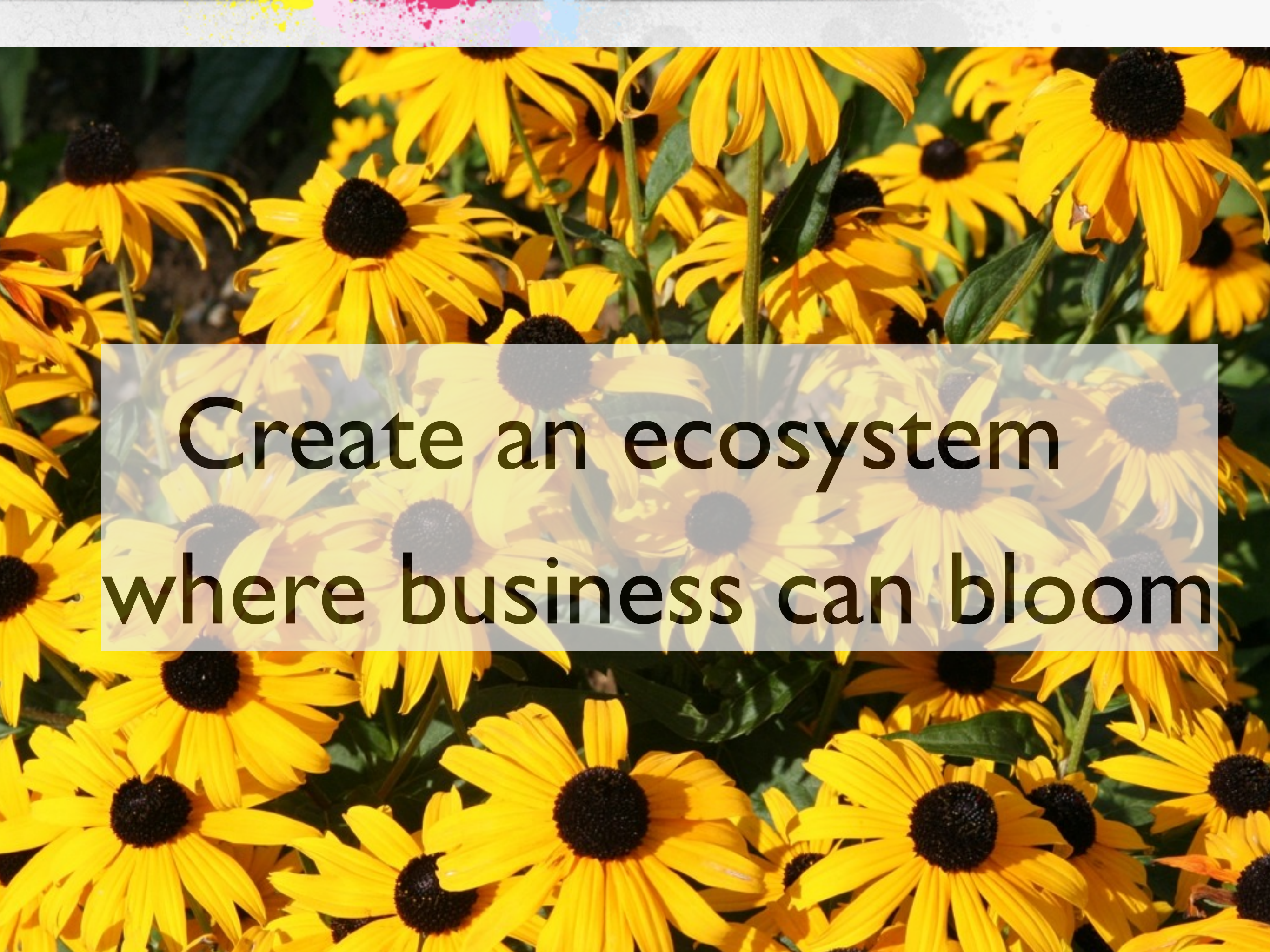
[www.sharedlogic.ca](http://www.sharedlogic.ca)

[www.smallworks.com.ar](http://www.smallworks.com.ar)

[www.sw-eng.ch](http://www.sw-eng.ch)

[www.trantaria.com](http://www.trantaria.com)



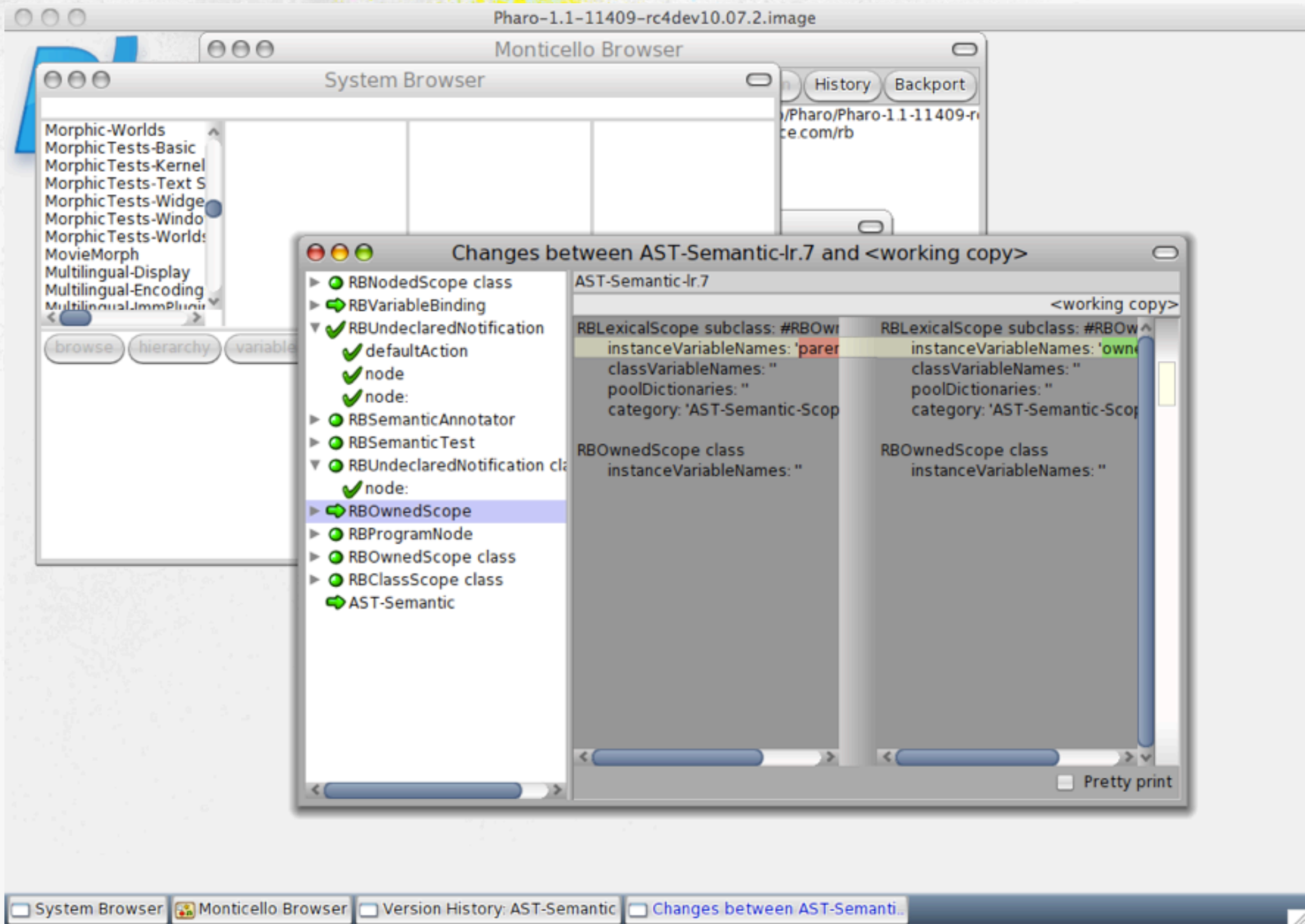


**Create an ecosystem  
where business can bloom**



The background features a light gray, textured surface with a faint, large-scale map of the African continent. Overlaid on this are various colorful splatters and spots in shades of yellow, green, blue, pink, and purple, primarily concentrated in the upper-left quadrant. The word "Showcase" is centered in a bold, black, sans-serif font.

# Showcase





Search the Seaside

# seaside The fast lane to HTTP

## About

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- [Support](#)
- [Trivia](#)
- [Merchandise](#)

[more](#)

## Documentation

- [FAQ](#)
- [Tutorials](#)
- [Migration](#)
- [Videos](#)

[more](#)

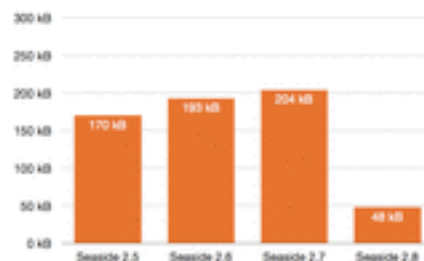
## Community

- [Weblogs](#)
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- [Development](#)
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- [Merchandise](#)
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- [Projects](#)

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## Seaside 2.8

### Memory Requirements



## News

[\[Smalltalk Tidbits, Industry Rants\] Industry Misinterpretations 144: Children of Smalltalk](#) 12 July 2009

You'll have to listen to the entire podcast to understand where the title comes from :) This week ...

[London Geek Night](#) 10 July 2009

I have some pictures to share for people that missed the London Geek Nights with the title Seaside: ...

[Web Velocity released](#) 29 June 2009

Big news from Cincom on the Seaside mailing list today: they've made an evaluation version of their ...

[London](#) 23 June 2009

I'll be in London (UK) on Wednesday June 24 for 10 days or so. If anyone around there wants to meet ...

[Seaside 2.8.4 and Pharo](#) 5 June 2009

We just announced Seaside 2.8.4, the fourth maintenance release for Seaside 2.8. Again this release ...

[more](#)



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](#)
- [VA Smalltalk](#)

[more](#)



# pier

Pier is a content management system that is light, flexible and free. It is light as in double click and go ([download it](#)). It is flexible as in make it be what you want ([learn more](#)). It is free as in freedom ([MIT license](#)).

Pier 1.2

11 July 2009

Pier 1.2 is now available.

What's new: \* Mature value links (see Pier syntax for more details) \* ...

July Pier sprint

11 July 2009

Yesterday, Lukas and me spent an intense afternoon working on Pier. We focused on closing the open ...

Pier sprint

5 April 2009

Pier-session.jpg Yesterday, Lukas and me sprinted intensively through Pier. It was quite exciting....

[Read more blog entries ...](#)





**GEMSTONE**

**Seaside under GLASS**

GemStone • Linux • Apache • Seaside • Smalltalk

**Smalltalk with OO-Database**

**Pharo is the IDE**

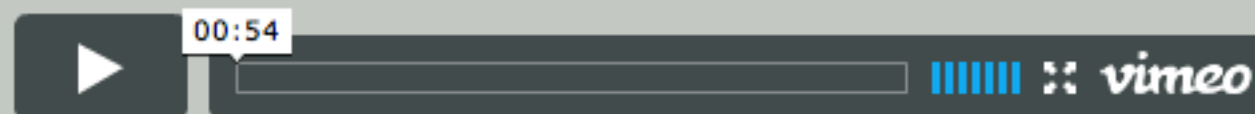
[About](#)[Download](#)[Tools](#)[Docs](#)[Publications](#)[Development](#)[Events](#)[Association](#)[News](#)


Moose is a platform for software and data analysis.

It is an open source project since 1996. It is supported by several research groups around the world, and it is increasingly adopted in industrial projects.

[Download 4.0](#)
[The Moose Book](#)

### Moose and the story of an analysis



### [New tutorials for Orion and Torch](#)

23 August 2010

Orion is a reengineering tool which can simulate changes and compare their impact on multiple versio...

### [Moose nominated for the CH Open Souce Awards](#)

9 August 2010

Moose was nominated for the CH Open Source Awards.

### [TextLint](#)

29 July 2010

TextLint is a tool to define rules and to check for common style errors in natural language.



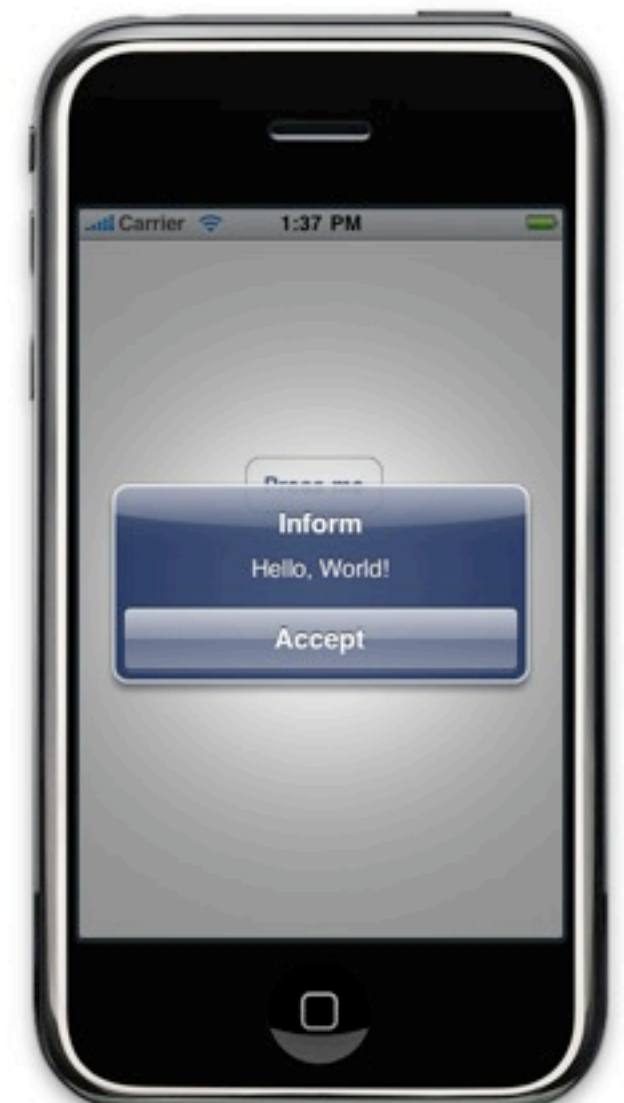
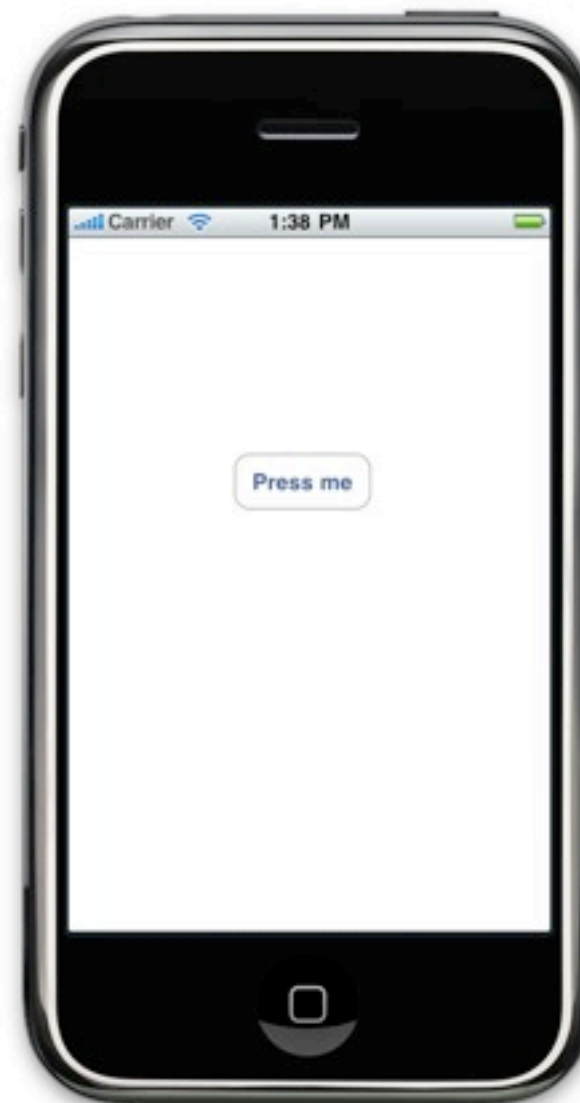
# Pinesoft MBagger

The screenshot displays the Pinesoft MBagger software interface. At the top left is the Pinesoft logo with the tagline "agile answers". The main area shows a printed label with the following text: "Pinesoft Warranty Parts", a barcode, the number "22489839", "Depot 1 DTR3 Col/Ret", and "A N Other Nails". Above the label are two horizontal sliders with numerical values "14" and "21". To the right of the label is a control panel with buttons for "Sharpen", "Low/Fine", "Mixed", "High/Bold", "Custom 1", "Custom 2", and "Custom 3". Below these is a printer icon and the text "4"x3\"", and at the bottom right is an "Auto Print" button. At the bottom left, there is a "Name: Custom 1" field, a keyboard icon, and a "Back" button.

# iPhone

Mars +  
Deimos

Esteban  
Lorenzano





The background features a light gray, textured surface with a faint, stylized map of the African continent. Overlaid on this are several clusters of colorful splatters in shades of yellow, green, blue, pink, and purple, primarily concentrated in the upper-left quadrant. The text 'The Past' is centered in a bold, black, sans-serif font.

# The Past

# 1.0

Started with Squeak 3.9 (2008)

**Major** Cleanups (MVC, eToys)

+ New UI Look / TrueType

+ Tools

+ **Block Closures** (*thanks Eliot*)

+ **Lots** of bugfixes and small improvements

+ Preferences clean up

+ *MIT license clean*





**Update ~1200 Bug-reports closed**

**470 Updates**


**Release Candidate: October 2009**

**Release: April 2010**

# 1.1

- Performance
- More cleanups and Simplifications
- Small deployment image (6.2 MB)
- Settings framework
- New world menu
- Native host menu support for Mac





**Update 883 Bug-reports closed**

**410 Updates**

**Released: July, 26, 2010**

The background features a light gray, textured surface with a faint, stylized map of the African continent. Overlaid on this are several clusters of colorful splatters in shades of yellow, blue, pink, and purple, primarily concentrated in the upper left quadrant. The text 'The Present' is centered in a bold, black, sans-serif font.

# The Present





**Update ~300 Bug-reports closed**

**141 Updates**

**Release Candidate: October 2010**



A photograph of a large, complex industrial facility, possibly a power plant or refinery, with a central white box containing the word 'Future'. The image shows a dense network of pipes, cables, and machinery, with a prominent blue and white color scheme. The word 'Future' is centered in a white rectangular box with a black border. The background is a complex industrial structure with various pipes, cables, and machinery, suggesting a high-tech or futuristic setting. The overall scene is brightly lit, with a mix of blue and white tones.

**Future**





**The Future is what  
we do**

# Build Server

OpalCompiler [Hudson]

http://hudson.lukas-renggli.ch/job/OpalCompiler/

Read Later Google Maps Basecamp IntegratorGTD PharoBug CompilerBug Highrise PrintWhatYouLike Toggl Hudson

## Hudson

Hudson » OpalCompiler

[Back to Dashboard](#)

[Status](#)

[Changes](#)

[Checkstyle Warnings](#)

[Coverage Trend](#)

### Project OpalCompiler

The Opal Compiler

[Last Successful Artifacts](#)

- [opal.changes](#)
- [opal.image](#)
- [opal-tests.changes](#)
- [opal-tests.image](#)

[Recent Changes](#)

[Latest Test Result \(57 failures / ±0\)](#)

### Build History (trend)

#77	Sep 13, 2010 2:21:04 PM
#76	Sep 11, 2010 8:44:06 AM
#75	Sep 11, 2010 8:07:10 AM
#74	Sep 10, 2010 10:31:22 PM
#73	Sep 10, 2010 8:03:56 PM
#72	Sep 10, 2010 7:57:56 PM
#71	Sep 10, 2010 6:49:14 PM
#70	Sep 10, 2010 3:26:55 PM
#69	Sep 10, 2010 11:21:47 AM
#68	Sep 10, 2010 9:19:13 AM

[for all](#) [for failures](#)

### Upstream Projects

- Development

### Permalinks

- [Last build \(#77\), 18 hr ago](#)
- [Last successful build \(#77\), 18 hr ago](#)
- [Last unstable build \(#77\), 18 hr ago](#)
- [Last unsuccessful build \(#77\), 18 hr ago](#)

### Checkstyle Trend

Build	Count
#68	250
#69	250
#70	250
#71	250
#72	250
#73	250
#74	250
#75	250
#76	250

### Test Result Trend

Build	Count
#68	400
#69	400
#70	400
#71	400
#72	400
#73	400
#74	400
#75	400
#76	400



# Opal

Based on “new compiler”

Uses RB AST

Intermediate Representation of Byte-code

Bytecode Transformations

Plugin Architecture

# Everybody can help

Reporting bugs  
Confirming bugs  
Writing tests  
Writing examples  
Writing comments  
Simple contributing fixes  
Deep discussion...



# Open Pharo Sprints

May 2008 Bern

July 2009 Bern

October 2009 Lille

November 2009 Buenos Aires

March 2010 Bern

May 2010 Buenos Aires

June 2010 Bern

June 2010 Bruxelles

July 2010 London

September 2010 Barcelona

September 2010 Lille



# Books

Pharo by example  
vol. 1 is out

Pharo by example  
vol. 2 is on  
preparation



# Thanks



Chis Vasile Andrei  
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Nick Ager  
Bart Veenstra  
Sean DeNigris?  
Tim Mackinnon  
Nial Ross  
Boris Popov  
Mariano Abel Coca  
Jean-Baptiste Arnaud  
Gabriela Arevalo  
German Arduino  
Hans Beck  
Alexandre Bergel  
Cedric Beler  
Patrick Barroca  
Adrian Barreau  
Torsten Bergmann  
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Ralph Boland  
Noury Bouraqadi  
Tristan Bourgois  
Johan Brichau  
Brian Brown  
Camillo Bruni  
Sven vanCaekenberghe  
Gwenael Casaccio  
Damien Cassou  
Nicolas Cellier  
Gary Chambers  
Danny Chan  
Yanni Chiu  
Miguel Coba

Juan Pablo Cook  
Gabriel Cotelli  
Giovanni Corrigan  
Carlos Crosetti  
Cyrille Delaunay  
Sergio DelFranco?  
Simon Denier  
Marcus Denker  
Ramiro Diaz Trepas  
Ken Dickey  
Stephane Ducasse  
Stephan Eggermont  
Luc Fabresse  
Matthew Fulmer  
Hilaire Fernandes  
Julian Fitzell  
James Foster  
Bart Gauquie  
Tudor Girba  
Sean Glazier  
Darin Greaham  
Carla Griggio  
Norbert Hartl  
Dale Henrichs  
George Herolyants  
Reinout Heeck  
Eric Hochmeister  
Peter Hugosson-Miller  
Henrik Sperre Johansen  
Stefan Kapusnik  
Andy Kellens  
Pavel Krivanek  
Adrian Kuhn  
Denis Kudriashov  
Laurent Laffont  
Justin Langhorst  
Alexander Lazarevic  
Adrian Lienhard  
Andreas Leidig  
German Leiva  
Michael Lucas-Smith  
Esteban Lorenzano  
Francisco Ortiz Peñaloza

Mariano Martinez Peck  
Philipp Marshall  
Dave Mason  
John McIntosh  
Martin McClure  
Johnaton Meichtry  
Jannick Menanteau  
Eliot Miranda  
Yann Monclair  
Hernan Morales Durand  
Diogenes Moreira  
Mike Muller  
Oscar Nierstrasz  
David J Pennell  
Joseph Pelrine  
Bernardt Pieber  
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Guillermo Polito  
Lukas Renggli  
Jorge Ressia  
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Robert Rothwell  
David Rotlisberger  
Michael Rueger  
Rabak Scarpini  
Alex Schenkman  
Bill Schwab  
Niko Schwarz  
Stan Sheperd  
Igor Stasenko  
Francois Stephany  
Serge Stinckwich  
Mathieu Suen  
Lawrence Trutter  
Andrew Tween  
Carlo Teixeira  
Veronica Uquillaz-Gomez  
Toon Verwaest  
Martin von Loewis  
Juan Vuletich  
Steven Wirts  
Hernan Wilkinson



# Join us!

Creating good energy,  
software quality,  
learning and having fun

**<http://pharo-project.org>**