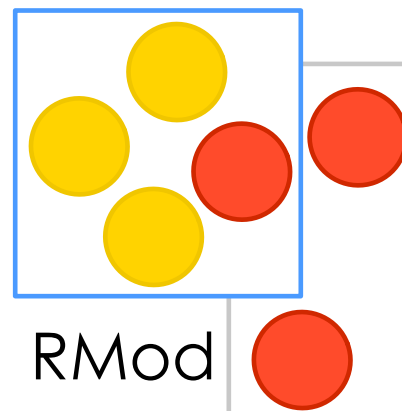


SMALLTALK INTRODUCTION

ING. MARIANO MARTINEZ PECK
marianopeck@gmail.com

INSTITUT NATIONAL
DE RECHERCHE
EN INFORMATIQUE
ET EN AUTOMATIQUE



ACKNOWLEDGEMENTS



IEEE

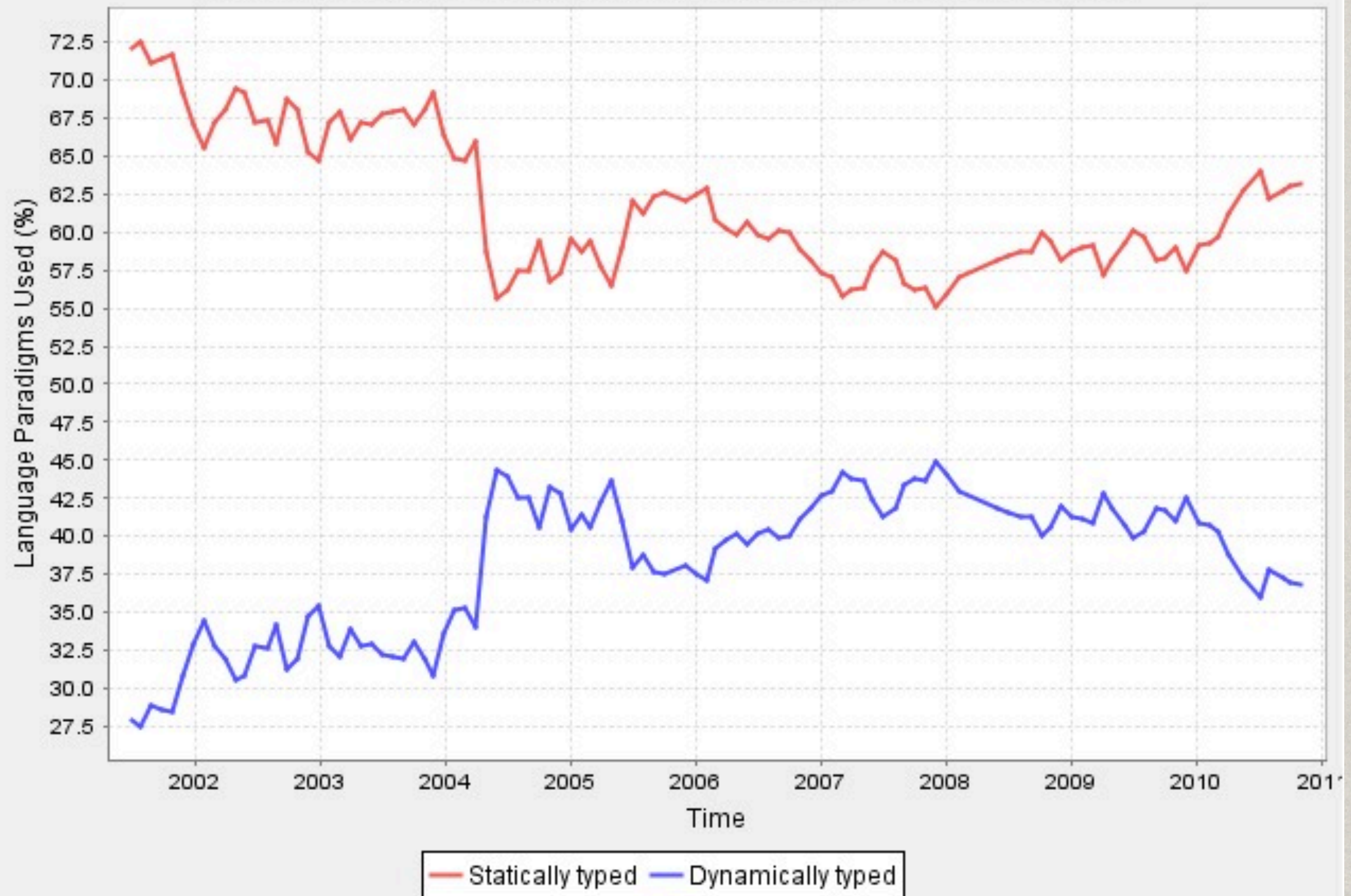


*Cámara de
Informática y
Comunicaciones
de la República
Argentina*

ENGINEERING



Tiobe Programming Paradigm Index: Type system



"I always knew that one day Smalltalk would replace Java. I just didn't know it would be called Ruby."

-- Kent Beck

SMALLTALK'S INVENTIONS

- ✻ Virtual Machine.
- ✻ Mouse.
- ✻ IDE concept and windows management.
- ✻ A large part of the OOP.
- ✻ Garbage collector.
- ✻ UnitTesting.

BUT IT ALSO HAS...

- ✱ Web Frameworks.
- ✱ Desktop applications (native and own).
- ✱ Different types of databases.
- ✱ Several dialects.
- ✱ IDE and development tools.

CHARACTERISTICS

- ✱ **Pure** object oriented.
- ✱ Invented in the 70's (maturation).
- ✱ Dynamically typed.
- ✱ Virtual Machine.
- ✱ Image based language.

PURE OBJECT ORIENTED

- ✻ **Everything** is an object (classes, methods, messages, loops).
- ✻ There are no primitive types.
- ✻ There is no special syntax.
- ✻ Only 5 reserved words: nil, true, false, self and super.

Client

UnusedObject-VMMaker

UnusedObject-VMMaker-C

UnusedObject-Override-V

ProxiesTests

Proxies

SimpleLogger

ConfigurationOfUsedObje

ConfigurationOfMarea

MareaMocks

ConfigurationOfGlorpDBX

MareaLogger

Prubeas

System-Benchmarking

System-Benchmarking-Te

IEEE

Account

ApplicationLogger

CannotCancelAccounts

Client

-- all --

as yet unclassified

cancelAllAccounts

Instance

?

Class

Browse

Hierarchy

Variables

Implementors

Inheritance

Senders

Versions

View

cancelAllAccounts

| isDefaulter |

isDefaulter := **self** isDefaulter.

isDefaulter ifTrue: [

CannotCancelAccounts new signal.

ApplicationLogger log: 'There was a problem while...'

].

self accounts do: [:anAccount | anAccount cancel.].

self updateHistoryInFile: 'C:/Windows/User/Application' on: **Date** today.

Client

Packages

Unus...er
Unus...er-C
Unus...Object Override-V
ProxiesTests
Proxies
SimpleLogger
ConfigurationOfUsedObje
ConfigurationOfMarea
MareaMocks
ConfigurationOfGlorpDBX
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self accounts do: [ :anAccount | anAccount cancel. ].
self updateHistoryInFile: 'C:/Windows/User/Application' on: Date today.
```

Method source code

ADVANTAGES

- ✻ PFC (programmer happiness coefficient).
- ✻ Productive.
- ✻ Efficient.
- ✻ Flexible.
- ✻ Powerful.
- ✻ Everything looks easier.

DISADVANTAGES

- ✻ It is not mainstream.
- ✻ Difficult to “sell”.
- ✻ Difficult to show confidence to the client.
- ✻ Not so many developed libraries.
- ✻ Less documentation.
- ✻ Expensive (those which are not OS).

OPEN-SOURCE DIALECTS

- ✻ Pharo/Squeak
- ✻ GNU Smalltalk
- ✻ Smalltalk X
- ✻ Otros

PAID DIALECTS

☼ VisualWorks

☼ VisualAge

☼ Gemstone

☼ Dolphin



"I do enjoy Pharo" Kent Beck

A clean, innovative, open-source Smalltalk

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

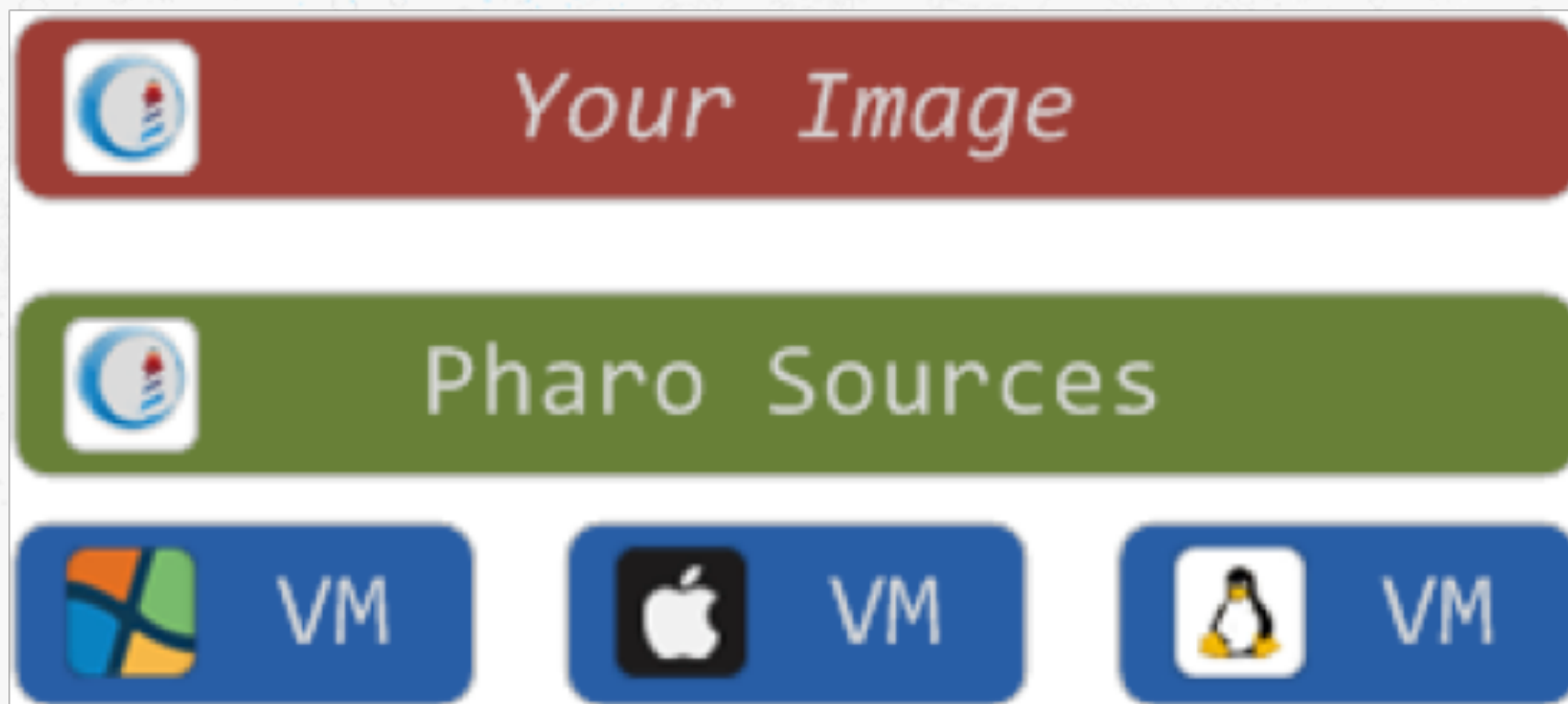


"I do enjoy Pharo" Kent Beck

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.



ARCHITECTURE





Pharo?

We use our language **every** day

Research

Teaching

Business

The background of the slide is a light gray with a faint, stylized world map. Overlaid on the map are numerous colorful splatters and dots in shades of yellow, blue, pink, and purple, primarily concentrated in the upper left quadrant.

Pharo

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

The background of the slide features a light gray world map. Overlaid on the map are numerous colorful splatters and dots in shades of yellow, blue, pink, and purple, primarily concentrated in the upper left quadrant.

Pharo

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



Showcase


seaside.st: Home

1P
+
http://www.seaside.st/
Google

Alltop
postini
squeaknewcompiler
iPhone Dev Center
4-Seasons.TV

seaside.st: Home

Search the Seaside



The fast lane to HTTP

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Seaside 2.8

Memory Requirements



Version	Memory Requirement
Seaside 2.5	170 MB
Seaside 2.6	193 MB
Seaside 2.7	204 MB
Seaside 2.8	48 MB

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](#)



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:

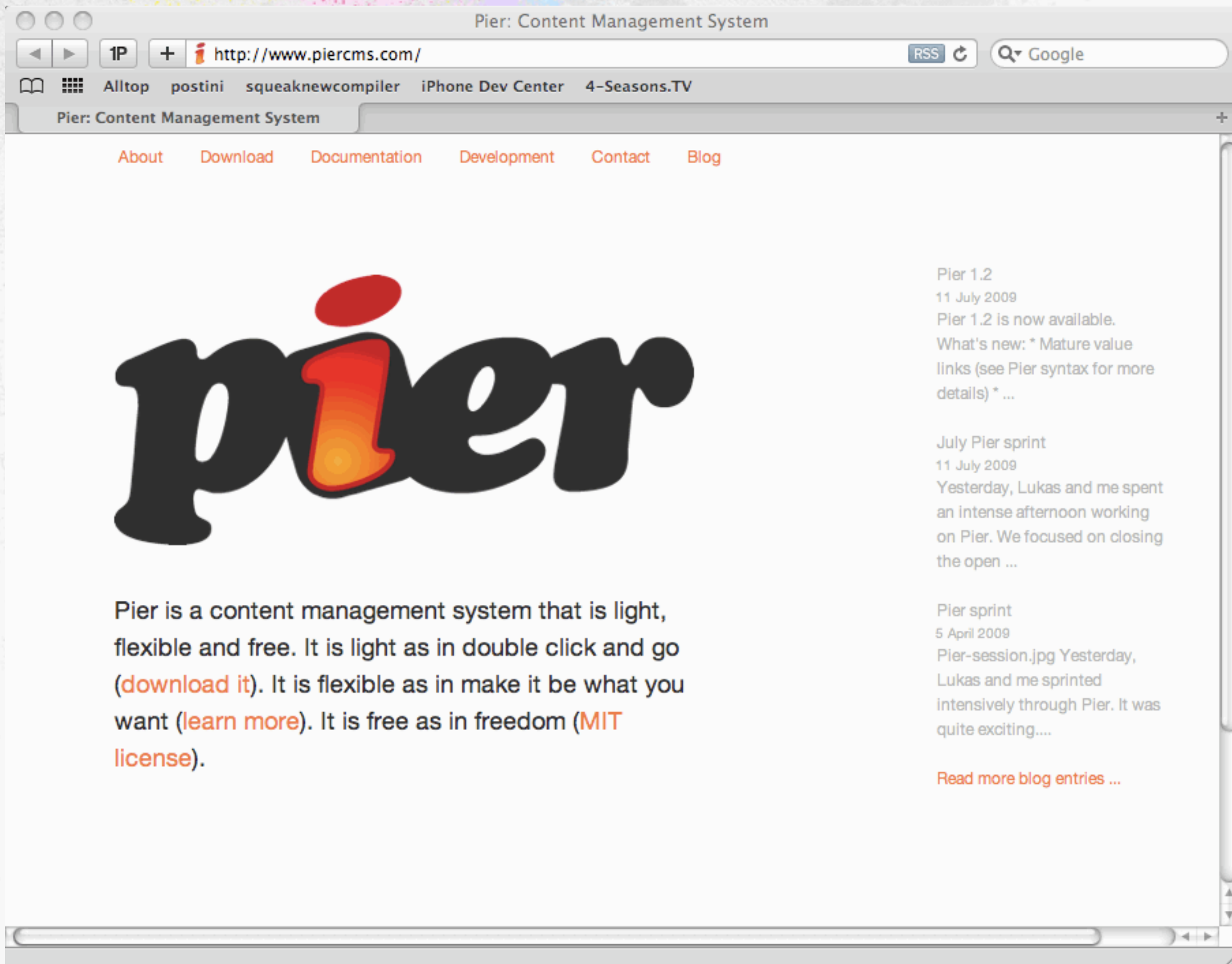
- [Pharo Smalltalk](#) ([download](#))
- [Cincom Smalltalk](#)
- [Dolphin Smalltalk](#)
- [GemStone Smalltalk](#)
- [GNU Smalltalk](#)
- [VA Smalltalk](#)

[more](#)





EUROPEAN SMALLTALK USER GROUP
esug
www.esug.org





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](#)

Search moosetechnology.org

Moose is a platform for software and data analysis.

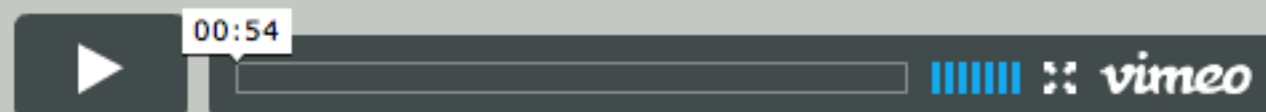
It is an open source project since 1996. It is supported by several research groups around the world, and it is increasingly adopted in industrial projects.

[Download 4.0](#)

[The Moose Book](#)

Moose and the story of an analysis

Moose



[New tutorials for Orion and Torch](#)

23 August 2010

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

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

9 August 2010

Moose was nominated for the CH Open Source Awards.

[TextLint](#)

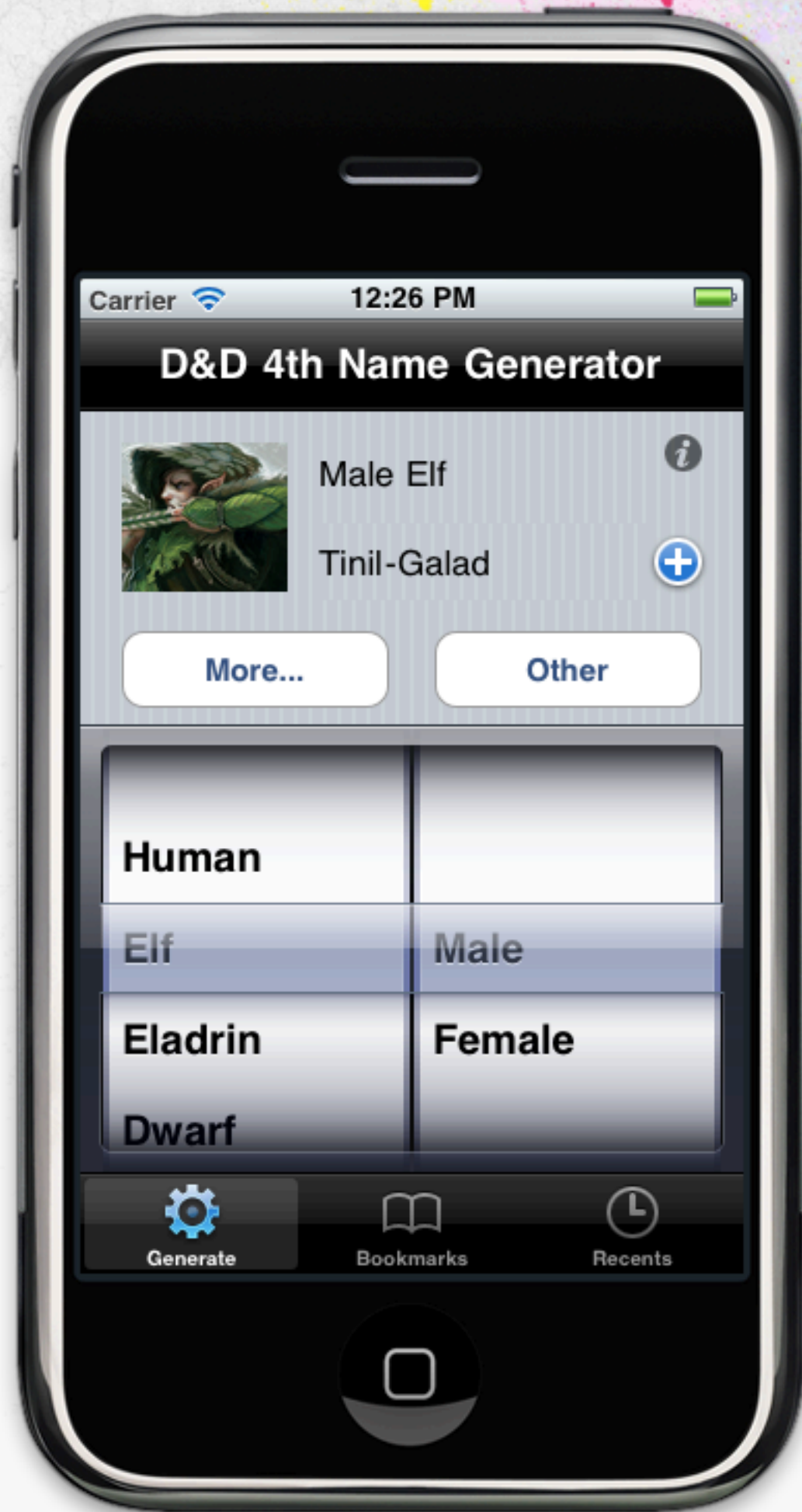
29 July 2010

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

Pinesoft MBagger



iPhone



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

November 2010 Buenos Aires



Books

Pharo by example
vol. 1 is out

Pharo by example
vol. 2 is on
preparation



Andrew P. Black, Stéphane Ducasse, Oscar Nierstrasz, Damien Pollet
with Damien Cassou and Marcus Denker

Join us!

Creating good energy,
software quality,
learning and having fun

<http://pharo-project.org>

Thanks!

Mariano Martinez Peck
marianopeck@gmail.com

