Tide

The missing web framework
https://github.com/tide-framework
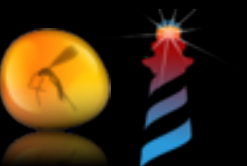
A framework by…

Nicolas Petton

Esteban Lorenzano

Damien Cassou

.. while working in the Pharo team at INRIA - RMoD

Esteban Lorenzano
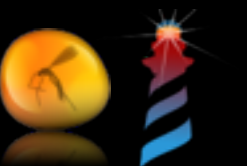
Pharo core developer
INRIA - RMoD
http://smallworks.eu

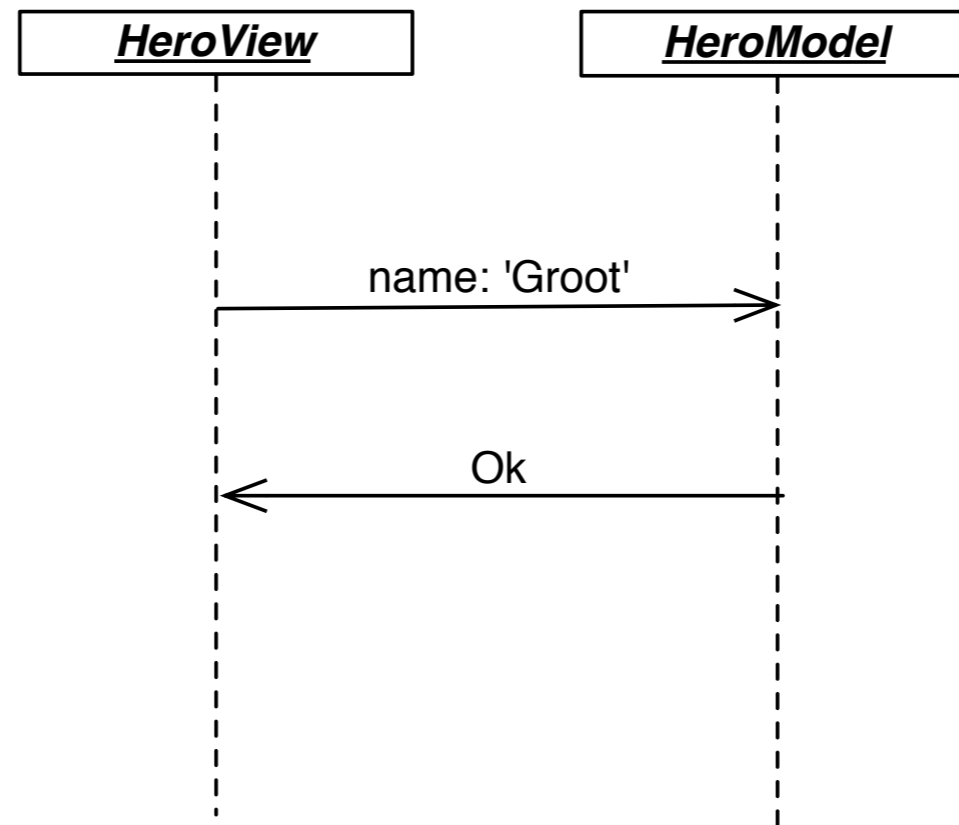# Yet another web framework?

The problem

- Amber + REST?

- Seaside?

Amber + REST

- Request nightmare

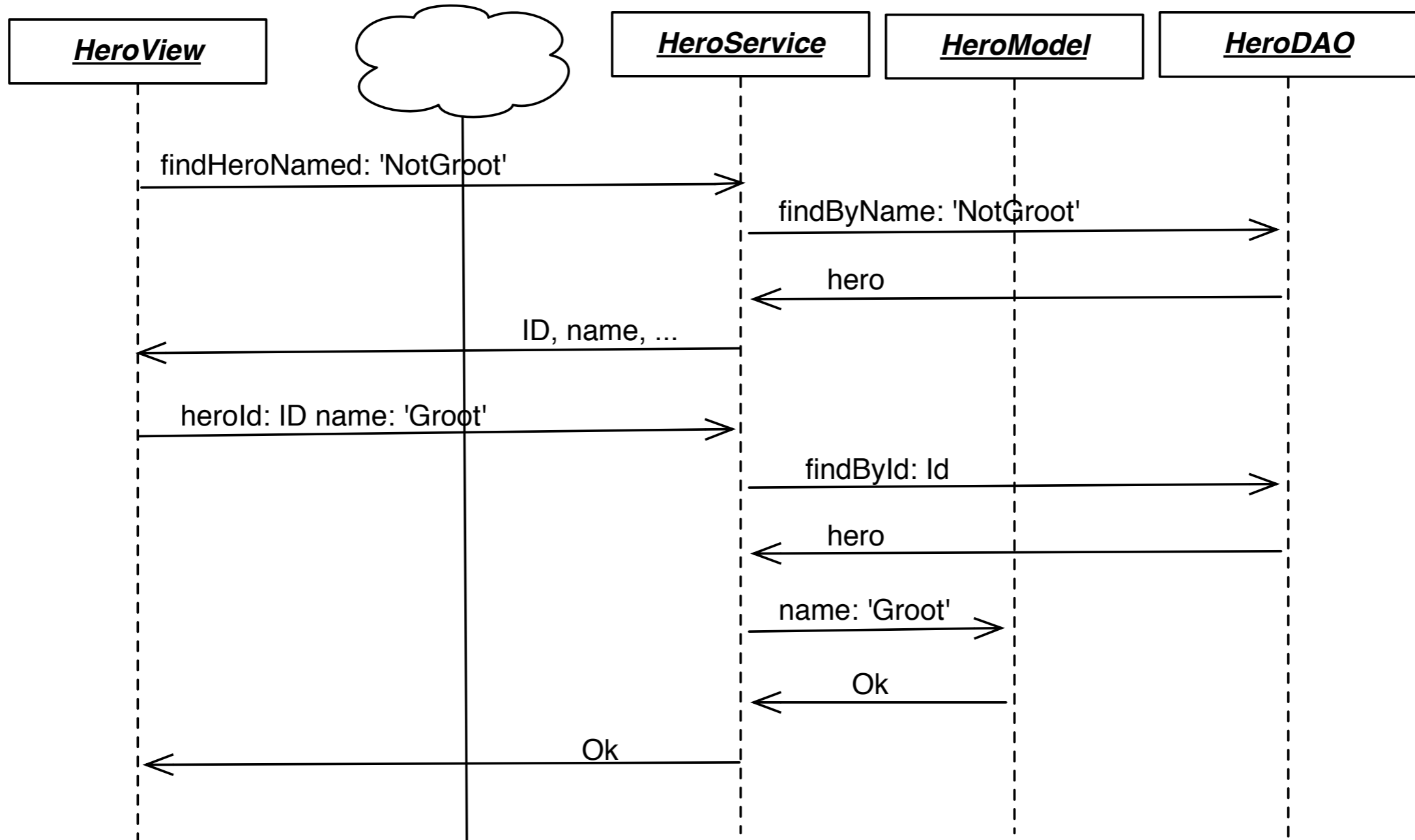- Leads to bad design (if not super-careful)

A small example

HeroView ───── name: 'Groot' ────→ HeroModel

HeroView ←──── Ok ────── HeroModel

A small example

HeroView | HeroModel
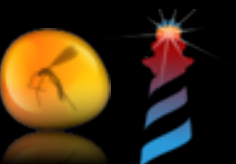
name: 'Groot'

Ok

NOPE!
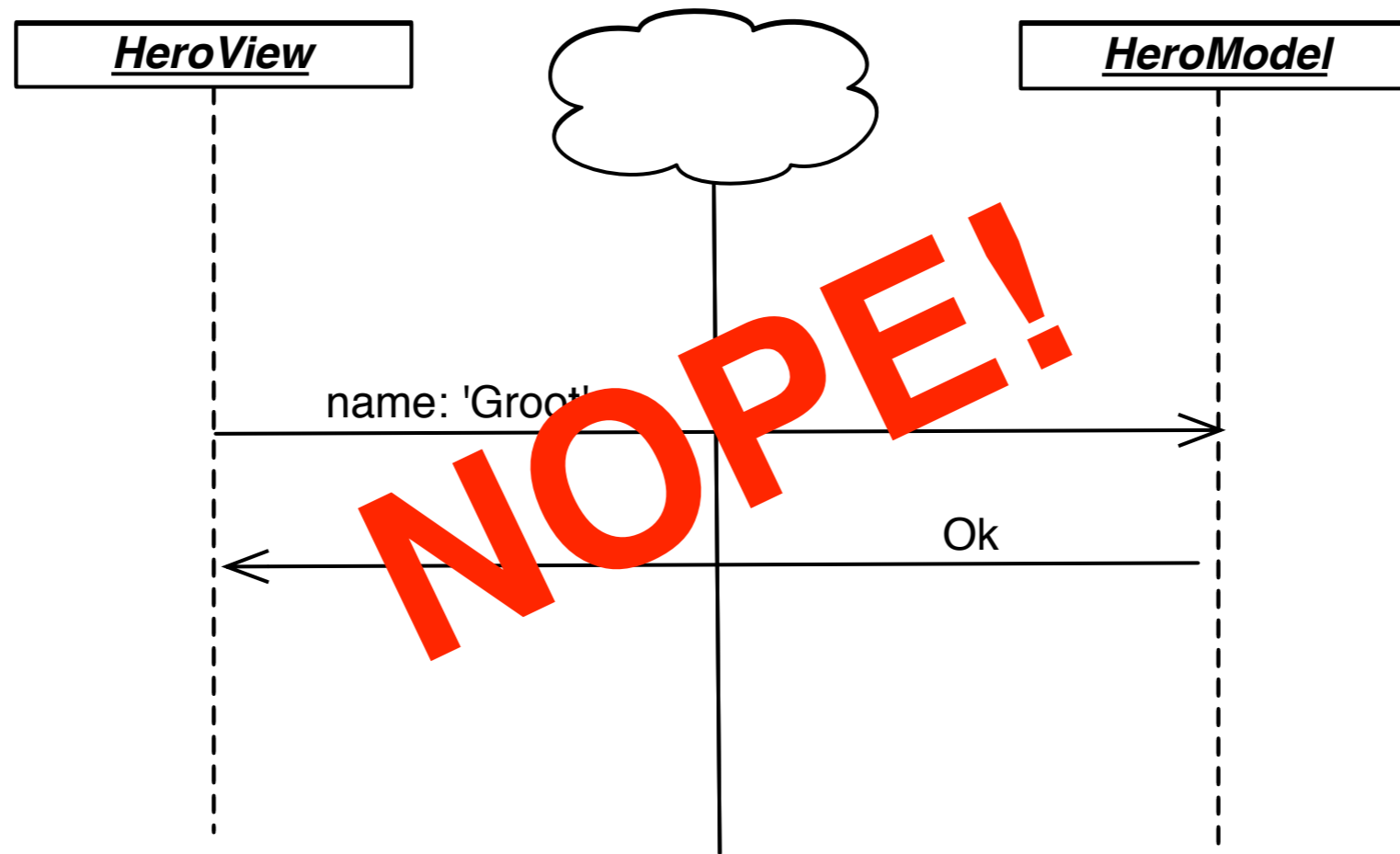
A small example

Seaside

- It is great!

  - but aging…

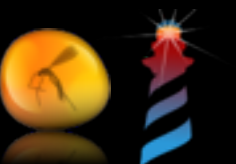 - and not very well prepared for "Web 2.0"

We can do better

The problem

- How to do MVC?

- How to expose domain without adding unnecessary layers?

- How to keep the "seaside feeling" in a fat client-server application?
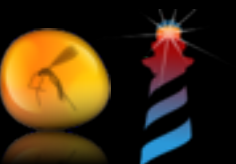
How?

- Amber + Pharo

- Through a communication bridge serialising JSON

Client side

- Proxies

- Futures (kinda)

  - Keeps the flow sequential

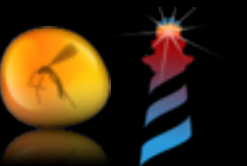 - It is still not synchronic, but works most of the time

Server side

- Exposing objects

  - <action>

  - <state>

- Literals, Collections, Models

Demo

Counter class

```
HeroLair>>#heroes
    ^ heroes

HeroLair>>#newHero
    ^ Hero new

HeroLair>>#addHero:aHero
    heroes add: aHero
```

Counter presenter

```
HeroLair>>#heroes
   <state>
   ^ heroes

HeroLair>>#newHero
   <action>
   ^ Hero new

HeroLair>>#addHero:aHero
   <action>
   heroes add: aHero
```

Counter client

```
lair := TDProxyClient on: '/lair'.
lair connect.

lair heroes. "[]"
lair newHero
  then: [ :hero | lair addHero: (hero name: 'Groot') ];
  then: [ lair heroes collect: #name ]. "[ 'Groot' ]"
```
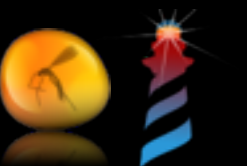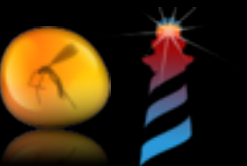
Marina

CMS for the simple minds

Yet another CMS?

The problem

- Pier is HUGE

- … and hard to learn

How?

- Uses only already existing projects (we do not reinvent the wheel…)

  - On top of Tide (duh!)

  - User management: Mozilla persona

  - Syntax: Pillar (same as Pier)
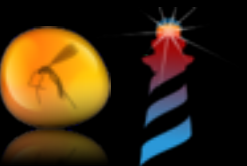
  - Persistency: Voyage

Features

- Suitable for small/simple pages

- Very simple

- Stable

- Fast

- Can accept plugins

  - For now, just a basic blog (Disqus for comments)

Demo

pharo.org/tide/index.html

Marina Pages   Templates   Users

👤 estebanlm@gmail.com   logout

📋 Pages

Root /   Add structure   Upload   Default template: default ⬍

📄 About	about	Published	Remove
📄 Blogs	blogs	Published	Remove
📄 Community	community	Published	Remove
📄 Contribute	contribute	Published	Remove
📄 Contribute - Participate in events	contribute-events	Published	Remove
📄 Contribute - Propose a fix	contribute-propose-fix	Published	Remove
📄 Contribute - Report a bug	contribute-report-bug	Published	Remove
📄 Documentation	documentation	Published	Remove
📄 Download	download	Published	Remove
📄 License	license	Published	Remove
📄 Welcome to Pharo!	index	Published	Remove
📁 files	files		Remove

pharo.org/tide/index.html

Marina   Pages   Templates   Users

estebanlm@gmail.com   logout

✎ Edit page About

Title

About

Path

about

Template

default ⇕

Contents

!About Pharo

{{{<div class="col-md-9 col-xs-12">}}}

!!Mission
Pharo's goal is to deliver a clean, innovative, free open-source environment.
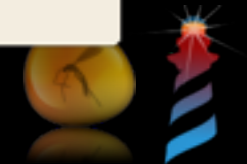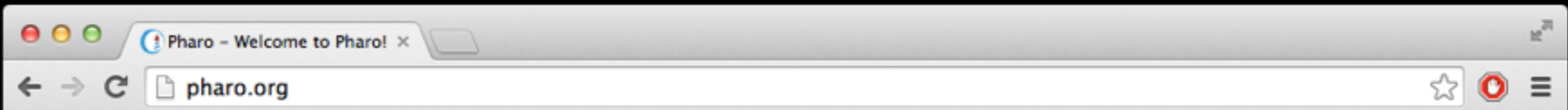
By providing a stable and small core system, excellent developing tools, and maintained releases, Pharo is an attractive platform to build and deploy mission critical applications.

Pharo fosters a healthy ecosystem of both private and commercial contributors who advance and maintain the core system and its external packages.

pharo.org

Phar News   Documentation   Community   Contribute   Stories   About   **Download**   **Learn more**
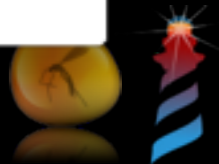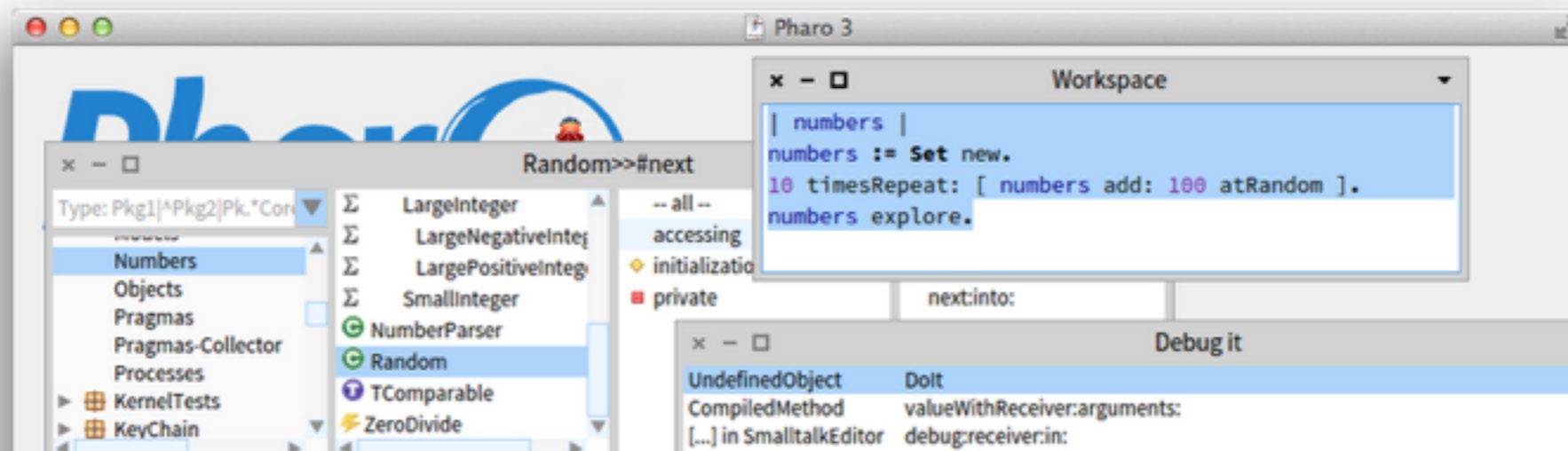
The immersive programming experience

Pharo gives you total control over your programming experience.
Focused on simplicity and immediate feedback, it is a pure object-oriented programming language *and*
a powerful environment (think IDE and OS rolled into one).
It is open source and available for Mac, Windows and Linux.

Pharo 3

Workspace

```
| numbers |
numbers := Set new.
10 timesRepeat: [ numbers add: 100 atRandom ].
numbers explore.
```

Random>>#next

Type: Pkg1|^Pkg2|Pk.*Core

Numbers
Objects
Pragmas
Pragmas-Collector
Processes
► KernelTests
► KeyChain

Σ LargeInteger
Σ LargeNegativeInteg
Σ LargePositiveInteg
Σ SmallInteger
Ⓖ NumberParser
Ⓖ Random
Ⓣ TComparable
⚡ ZeroDivide

-- all --
accessing
◆ initializatio
▪ private

next:into:

Debug it

UndefinedObject   DoIt
CompiledMethod   valueWithReceiver:arguments:
[...] in SmalltalkEditor   debug:receiver:in:

Install Tide

Pre-requisites: node, npm, bower, pharo

```
$ git clone git@github.com:tide-framework/tide.git
$ cd tide && bower install && cd ..
$ pharo Pharo.image eval —save "
    Gofer it
       repository: 'filetree://tide';
       package: 'BaselineOfTide';
       load.
    BaselineOfTide load"


TDServer startOn: 7777.
```

… and open your browser :) 🔥

Download it today!

https://github.com/tide-framework

Thanks!

Esteban Lorenzano - 2014