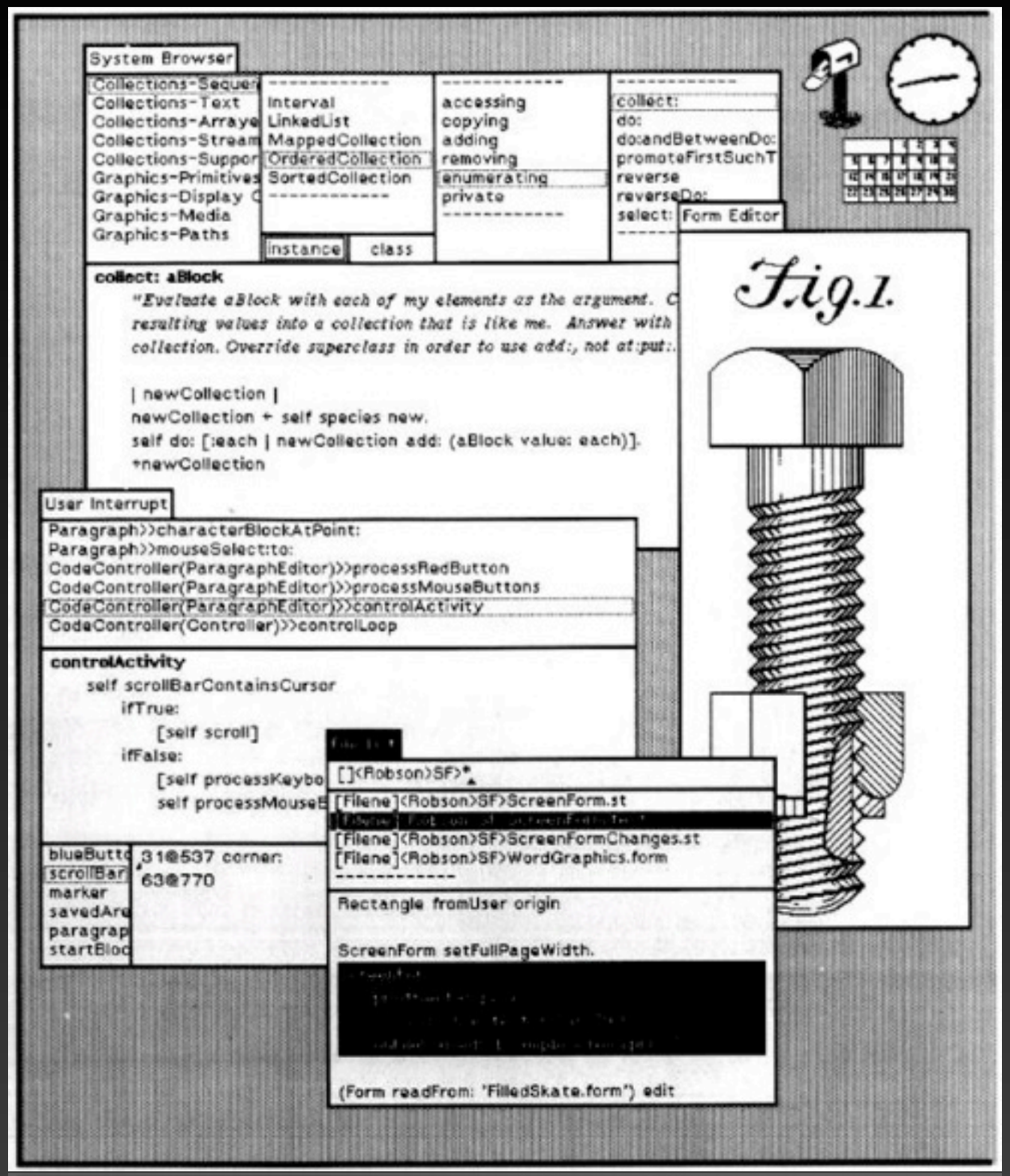
The Revenge of Smalltalk

London Geek Nights
July 6, 2009


System Browser
Collections-Sequen
Collections-Text
Collections-Arraye
Collections-Stream
Collections-Suppor
Graphics-Primitives
Graphics-Display C
Graphics-Media
Graphics-Paths
Interval
LinkedList
MappedCollection
OrderedCollection
SortedCollection
instance
class
accessing
copying
adding
removing
enumerating
private
collect:
do:
doandBetweenDo:
promoteFirstSuchT
reverse
reverseDo:
select:
collect: aBlock
"Evaluate aBlock with each of my elements as the argument. C
resulting values into a collection that is like me. Answer with
collection. Override superclass in order to use add:, not at:put:.
| newCollection |
newCollection ← self species new.
self do: [:each | newCollection add: (aBlock value: each)].
↑newCollection
User Interrupt
Paragraph>>characterBlockAtPoint:
Paragraph>>mouseSelect:to:
CodeController(ParagraphEditor)>>processRedButton
CodeController(ParagraphEditor)>>processMouseButtons
CodeController(ParagraphEditor)>>controlActivity
CodeController(Controller)>>controlLoop
controlActivity
self scrollBarContainsCursor
ifTrue:
[self scroll]
ifFalse:
[self processKeybo
self processMouseB
31@537 corner:
63@770
[]<Robson>SF>*
[Filene]<Robson>SF>ScreenForm.st
[Filene]<Robson>SF>ScreenFormChanges.st
[Filene]<Robson>SF>WordGraphics.form
Rectangle fromUser origin
ScreenForm setFullPageWidth.
(Form readFrom: 'FilledSkate.form') edit
Form Editor
Fig.1.

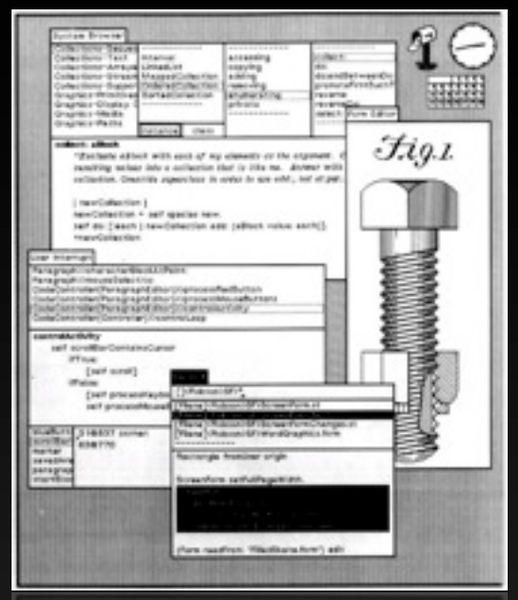
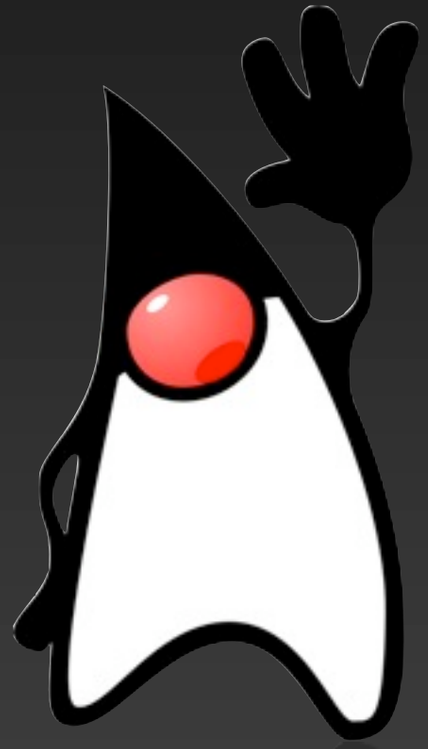
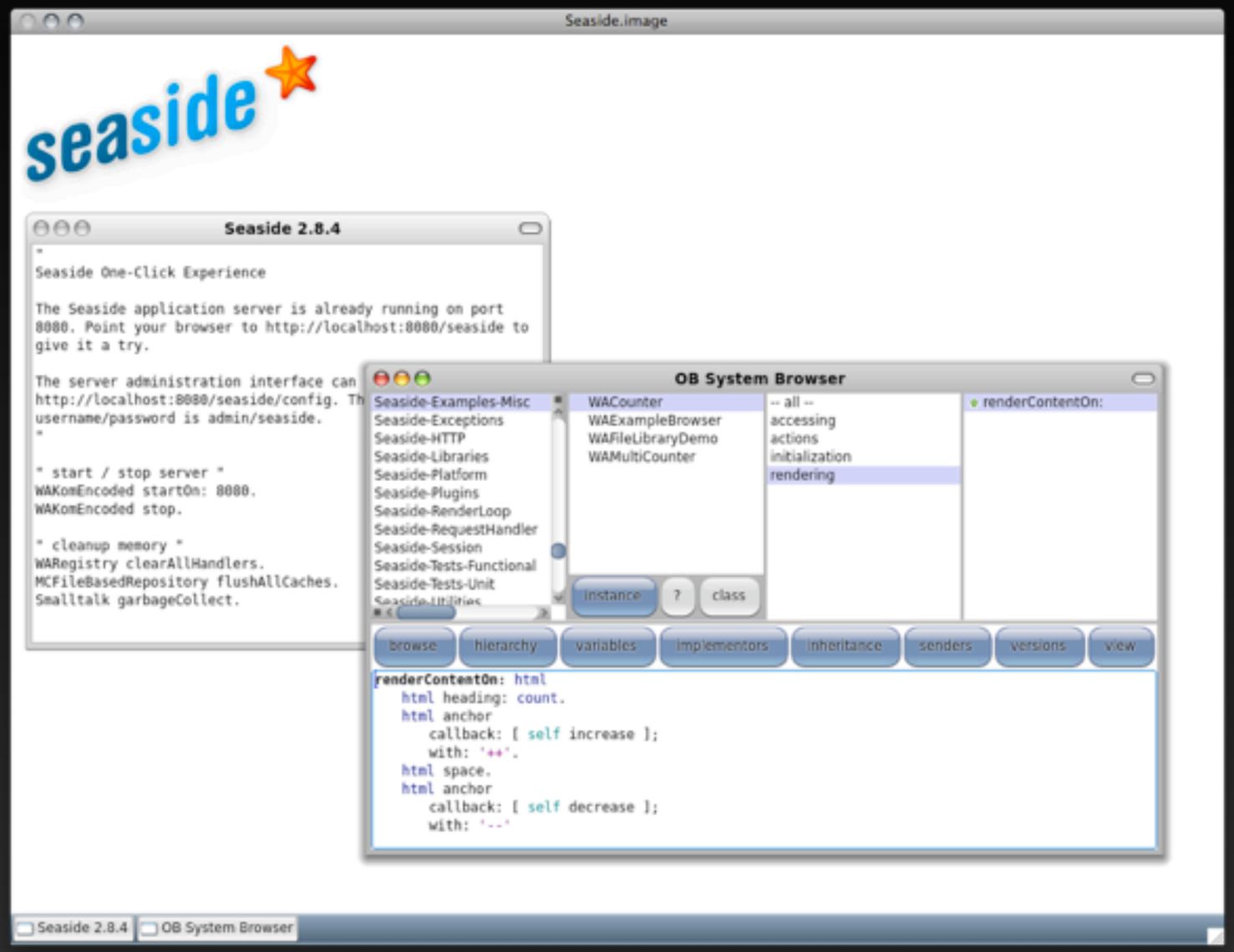
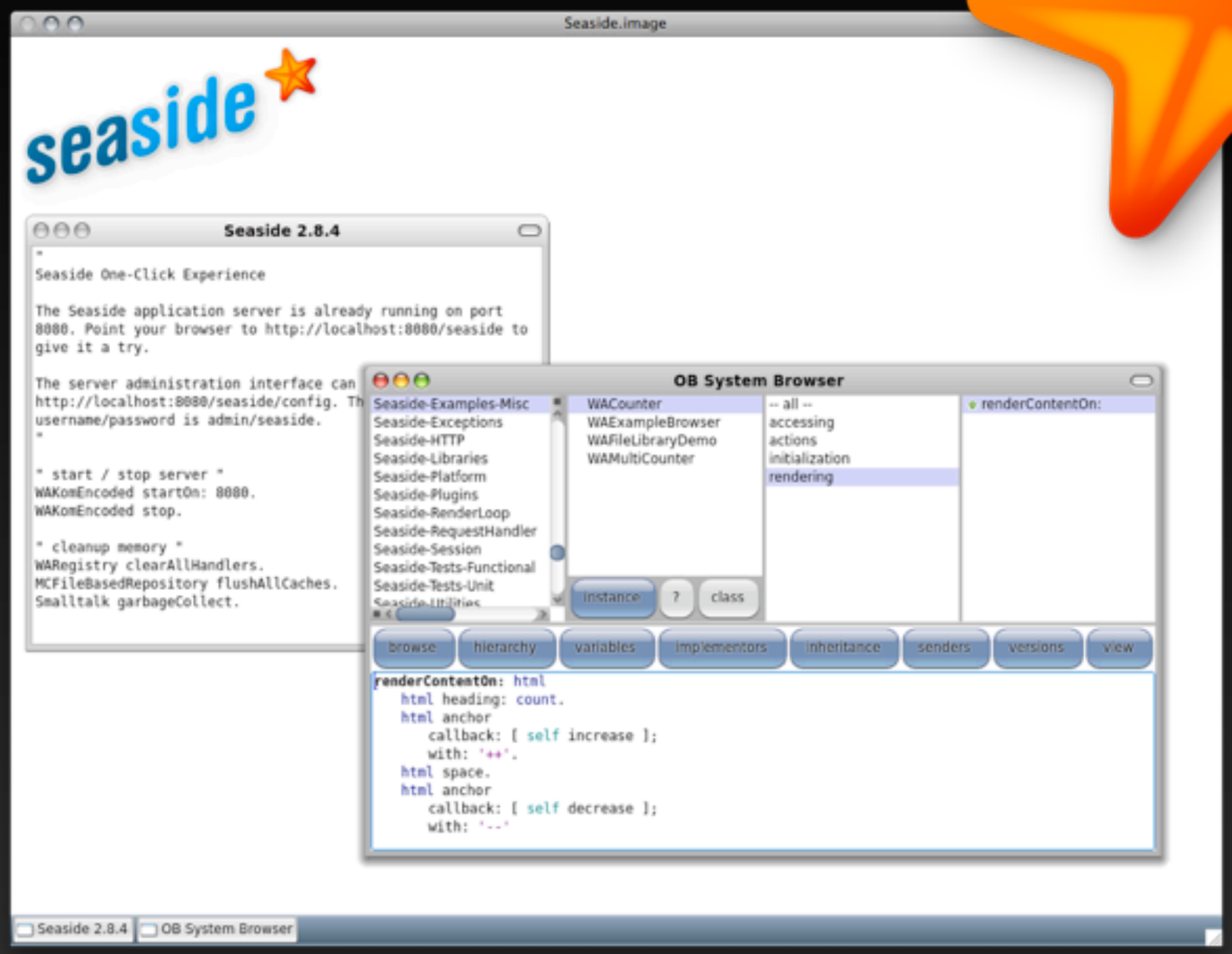


Fig.1.




Seasiide.image
seaside
Seaside 2.8.4
"
Seaside One-Click Experience
The Seaside application server is already running on port
8080. Point your browser to http://localhost:8080/seaside to
give it a try.
The server administration interface can
http://localhost:8080/seaside/config. Th
username/password is admin/seaside.
"
" start / stop server "
WAKomEncoded startOn: 8080.
WAKomEncoded stop.
" cleanup memory "
WARegistry clearAllHandlers.
MCFileBasedRepository flushAllCaches.
Smalltalk garbageCollect.
OB System Browser
Seaside-Examples-Misc
Seaside-Exceptions
Seaside-HTTP
Seaside-Libraries
Seaside-Platform
Seaside-Plugins
Seaside-RenderLoop
Seaside-RequestHandler
Seaside-Session
Seaside-Tests-Functional
Seaside-Tests-Unit
WACounter
WAExampleBrowser
WAFileLibraryDemo
WAMultiCounter
-- all --
accessing
actions
initialization
rendering
renderContentOn:
instance
?
class
browse
hierarchy
variables
implementors
inheritance
senders
versions
view
renderContentOn: html
html heading: count.
html anchor
callback: [self increase];
with: '++'.
html space.
html anchor
callback: [self decrease];
with: '--'
Seaside 2.8.4
OB System Browser


Seaside.image
seaside
Seaside 2.8.4
"
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Seaside 2.8.4
OB System Browser

Lukas Renggli

- Academics
  - PhD Student, University of Bern
- Open-Source
  - Core-developer of Seaside
  - Author of Magritte and Pier
- Industry
  - Independent Software Consultant

Agenda

- Flow
- Components
- Security
- Applications
- Continuations
- Objects
- Closures
- Debugger

Natural Flow

Source: stock.xchng, Asif Akbar

Seaside
http://localhost/seaside/example1?_s=XEMU1K
First number
3
OK
New Session
Configure
Toggle Halos
Profiler
Memory
Terminate
XHTML 1/0 ms

Seaside

http://localhost/seaside/example1?_s=XEMU1K

First number

3

OK

New Session Configure T

Seaside

http://localhost/seaside/example1?_s=XEMU

Second number

4

OK

New Session Configure Toggle Halos Profiler Memory Terminate XHTML 0/10 ms

Seaside

http://localhost/seaside/example1?_s=XEMU1K

First number

3

OK

New Session Configure T

Seaside

http://localhost/seaside/example1?_s=XEMU

Second number

4

OK

New Session Configure T

Seaside

http://localhost/seaside/example1?_s=XEMU

7

Ok

New Session Configure Toggle Halos Profiler Memory Terminate XHTML 0/10 ms

```
<form action="second.html">
    <input type="text" name="value1">
    <input type="submit" value="OK">
</form>
```

```
<form action="second.html">
    <input type="text" name="value1">
    <input type="submit" value="OK">
</form>
```

```
<form action="result.html">
    <input type="text" name="value2">
    <input type="submit" value="OK">
</form>
```

```
<form action="second.html">
    <input type="text" name="value1">
    <input type="submit" value="OK">
</form>
```

```
<form action="result.html">
    <input type="text" name="value2">
    <input type="submit" value="OK">
</form>
```

```
<p>
    <% value1 + value2 %>
</p>
```

```
<form action="second.html">
    <input type="text" name="value1">
    <input type="submit" value="OK">
</form>
```

```
<form action="result.html">
    <input type="text" name="value2">
    <input type="submit" value="OK">
</form>
```

```
<p>
    <% value1 + value2 %>
</p>
```

```
<form action="second.html">
    <input type="text" name="value1">
    <input type="submit" value="OK">
</form>
```

```
<form action="result.html">
    <input type="text" name="value2">
    <input type="submit" value="OK">
</form>
```

```
<p>
    <% value1 + value2 %>
</p>
```

```
<form action="second.html">
    <input type="text" name="value1">
    <input type="submit" value="OK">
</form>
```

```
<form action="result.html">
    <input type="text" name="value2">
    <input type="submit" value="OK">
</form>
```

```
<p>
    <% value1 + value2 %>
</p>
```

```
<form action="second.html">
    <input type="text" name="value1">
    <input type="submit" value="OK">
</form>
```

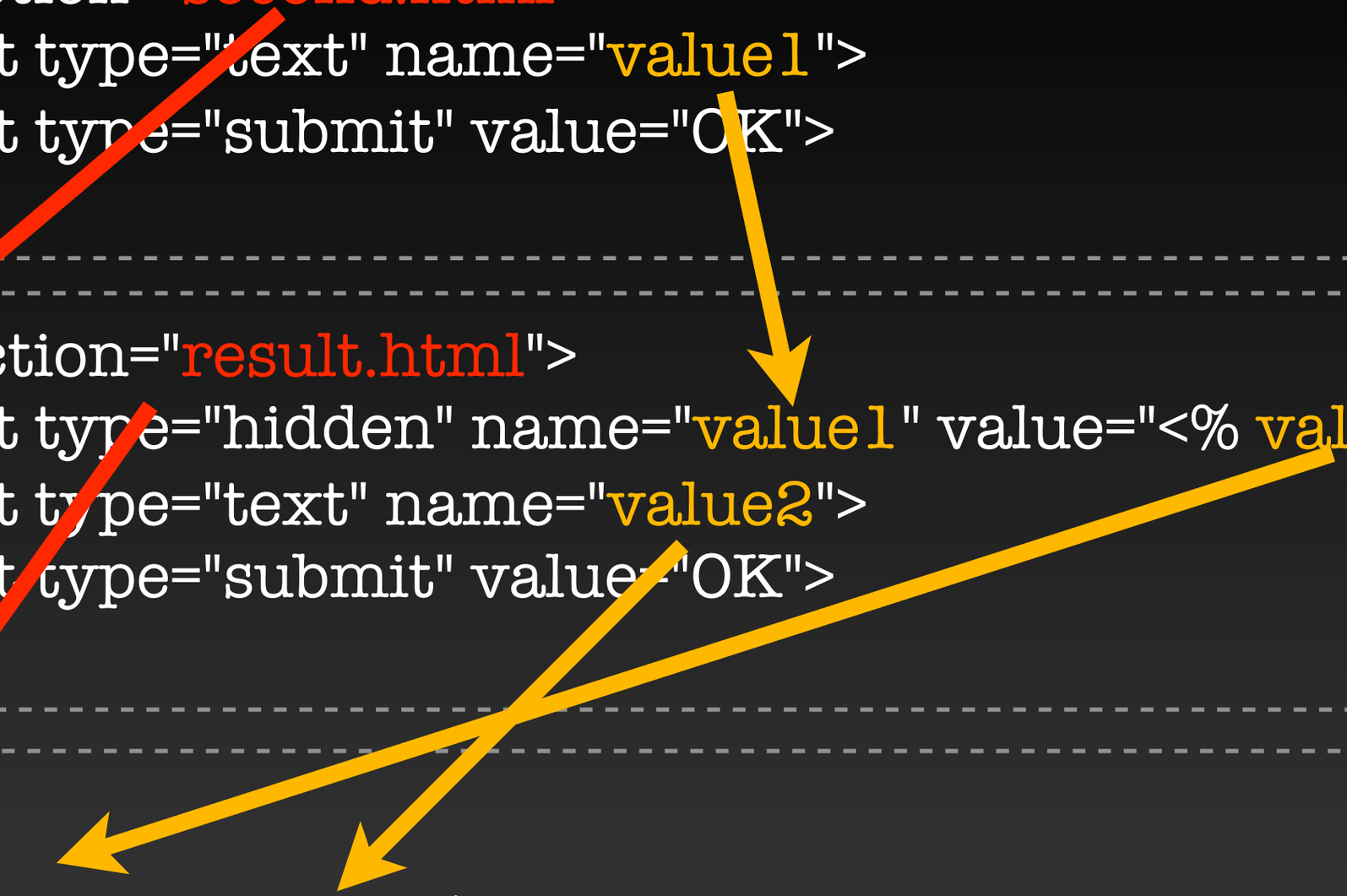
```
<form action="result.html">
    <input type="hidden" name="value1" value="<% value1 %>">
    <input type="text" name="value2">
    <input type="submit" value="OK">
</form>
```

```
<p>
    <% value1 + value2 %>
</p>
```

```
<form action="second.html">
    <input type="text" name="value1">
    <input type="submit" value="OK">
</form>
```

```
<form action="result.html">
    <input type="hidden" name="value1" value="<% value1 %>">
    <input type="text" name="value2">
    <input type="submit" value="OK">
</form>
```

```
<p>
    <% value1 + value2 %>
</p>
```



is different

3 user interactions

3 lines of code

```
value1 := self request: 'First Number'.
```

```
value1 := self request: 'First Number'.
value2 := self request: 'Second Number'.
```

```
value1 := self request: 'First Number'.
value2 := self request: 'Second Number'.

self inform: value1 + value2.
```

```
value1 := self request: 'First number'.
value2 := self request: 'Second number'.
self inform: value1 + value2.
```

It's a DSL

```
value1 := self request: 'First Number'.
value2 := self request: 'Second Number'.
self inform: value1 + value2
```

It's just Smalltalk

No request parsing

No string fiddling

No state machines

Demo

Reusable Components

Source: stock.xchng, Lynne Lancaster

AbleLink's

Online Task Player

Changing lives with Cognitive Support Technologies

Root >> Desktop Solutions

Main Menu

- Categories
- Search
- Unreviewed
- Users
- Settings
- Logout

Search Tags

Desktop Job Quest Skills Trek Task Web

Web Trek Connect

detail | edit | move | delete

Job Quest

detail | edit | move | delete

Discovery Desktop

detail | edit | move | delete

Web Trek

detail | edit | move | delete

Comp Skills

detail | edit | move | delete

AIMS Task Builder

detail | edit | move | delete

AbleLink's

Online Task Player

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Comp Skills

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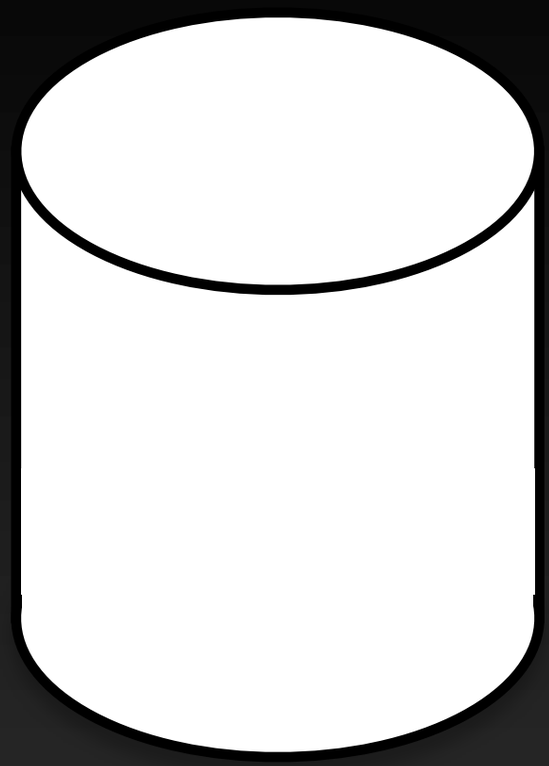
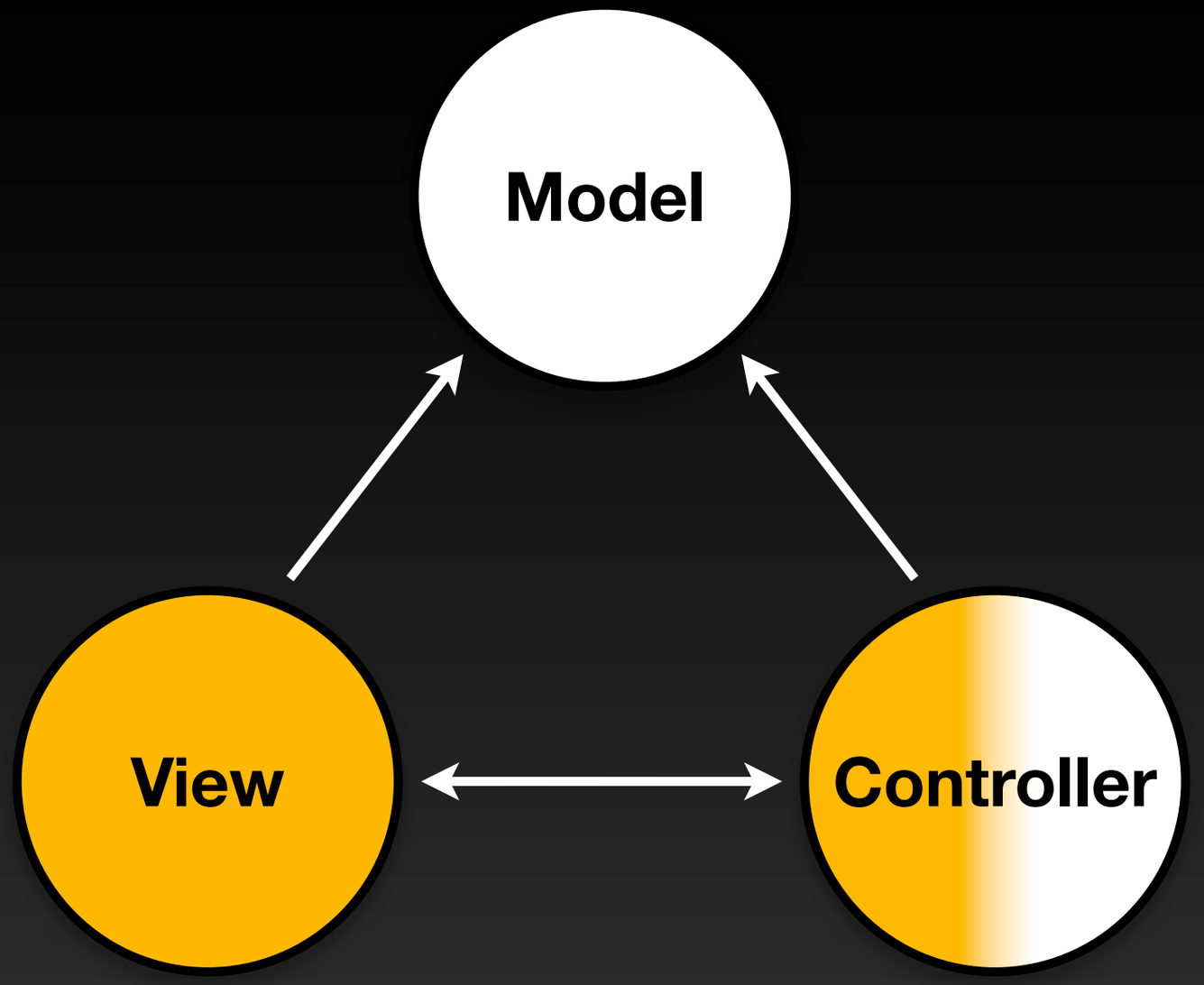
detail | edit | move | delete

Reuseable



Persistent



Model, View, Controller

Valid

Source: stock.xchng, Al Nakib

CSS Designer

XHTML

Developer & Seaside

DRY

It's a DSL

It's just Smalltalk

Demo

Secure by Default

Source: stock.xchng, Colin Brough

Cross Site Scripting

Source: stock.xchng, Afonso Lima

Output is encoded by default

Replay Attacks

Source: stock.xchng, Afonso Lima

Session

_s=Ru8ZKgqjy0uDX3kf

96-bit

Page

`_k=K5EQyqKE`

48-bit

Parameter Tampering

Source: stock.xchng, Afonso Lima

Names are generated automatically

Names are bound to functions

No manual
request parsing

```
html submitButton
    callback: [ self inform: 'Hey' ];
    with: 'Click Here'
```

It's a DSL

```
html submitButton
    callback [ self inform 'Hi' ],
    with 'Click Here'
```

```
html submitButton
    callback: [ self inform: 'Hey' ];
    with: 'Click Here'
```

It's just Smalltalk

Web 2.0

Source: Flickr, Benjamin Jackson

Source: Flickr, psrman's

Comet

Source: Flickr, psrman's

It's a DSL

It's just Smalltalk

Demo

Applications

Source: stock.xchng, Steve Woods

In productive use
since 2002

THE HISTORY CHANNEL

CONCURSO CLASSIC ALBUMS

SELECCIONE PAIS

Argentina

Ingresar

*

En el siguiente enlace podrás encontrar las lista de los ganadores de cada semana.

CONOCE LOS GANADORES

NN/g – 10 BEST APPLICATION DESIGNS

cmsbox

SYSTEM | SERVICE | COMPANY

DEMOS | FEATURES | BENEFITS | CUSTOMERS | TECHNOLOGY | PRICES

Cmsbox – systematic content management

CMS Demo Movie

It just works.

Cmsbox, the beautifully designed, super-easy, yet powerful and flexible Content Management System (CMS) offers everything you need to create, edit and enhance the content of your web site. All elements and contents can be arranged and customized directly on your own web site.

Simply professional.

Cmsbox makes sure your site will always look great. With centrally defined format style sheets and a flexible column layout, all types of content will automatically adapt to the individual website design.

» view more

» become an associate

Saturn Beta

http://localhost:8080/seaside/saturn?_s=O5NpRITAi4zpQKP6&_k=XgO9jRBcvmkgp5Is

Google

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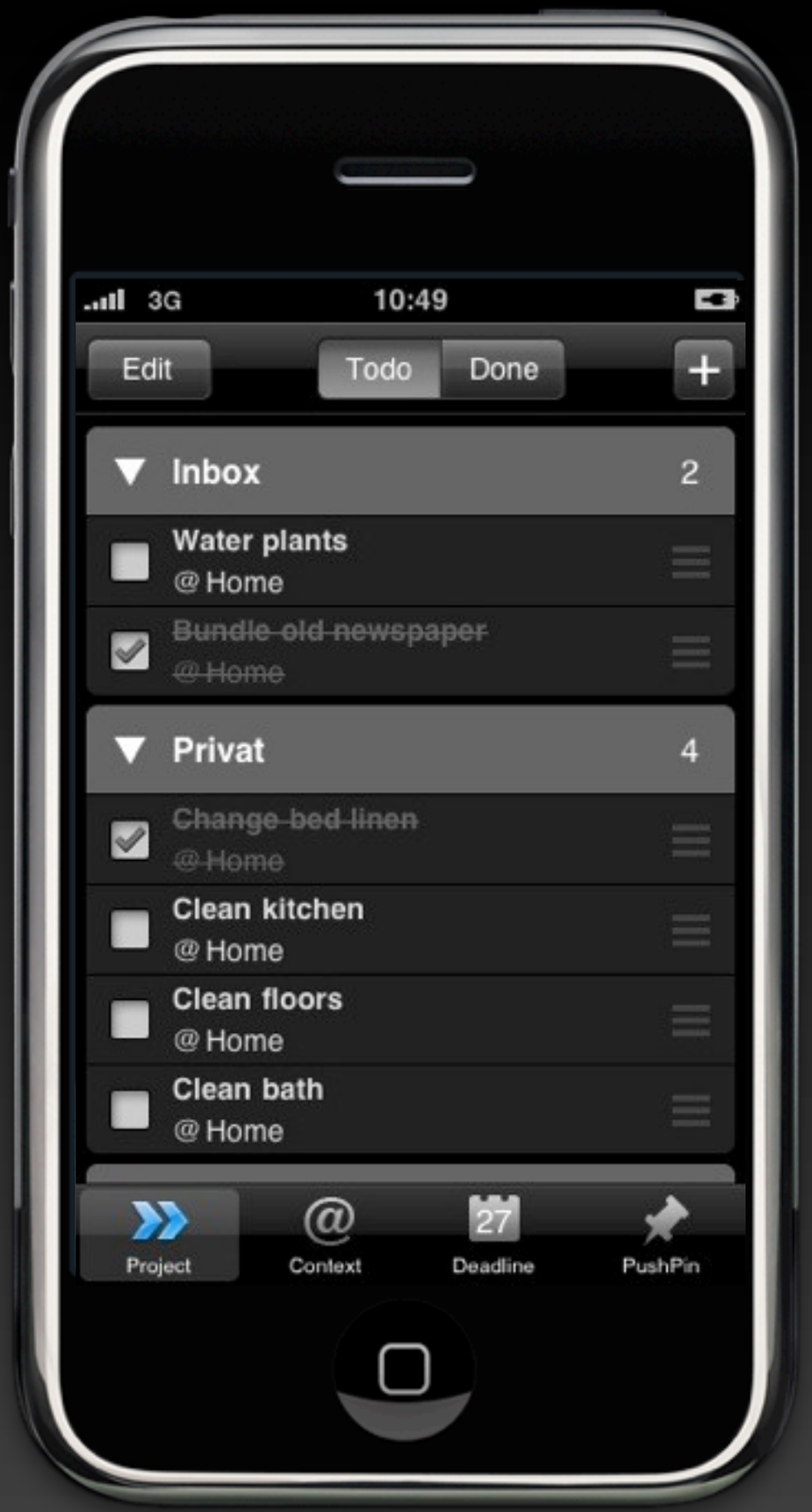
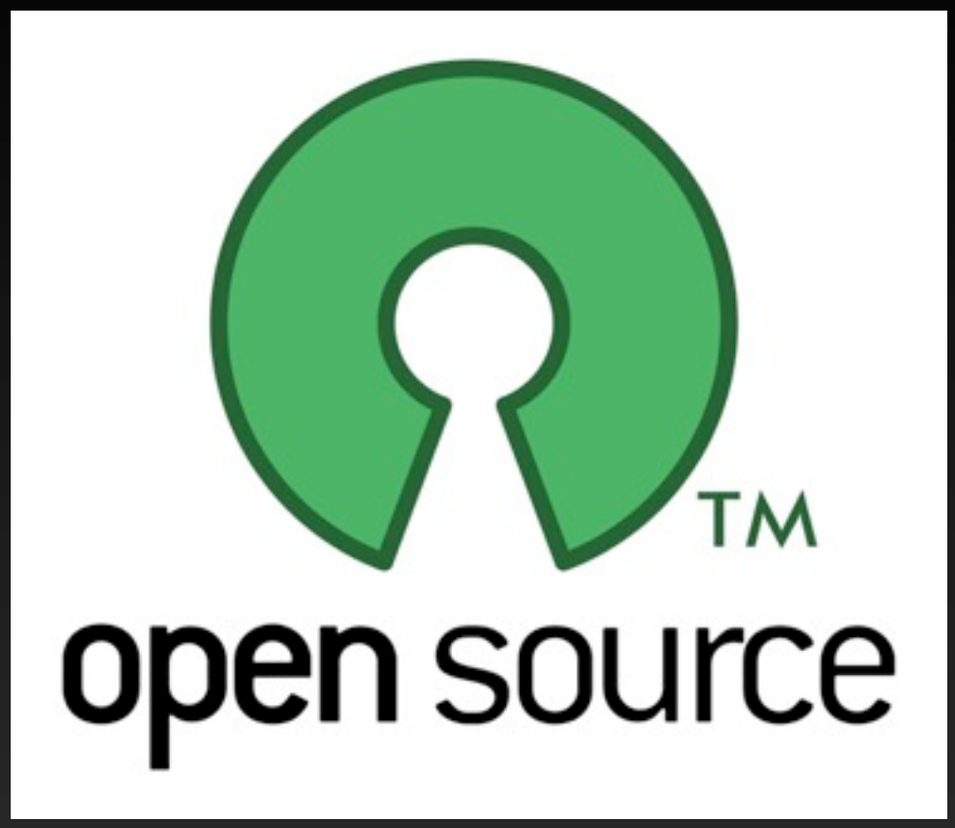

3G
10:49
Edit
Todo
Done
Inbox
2
Water plants
@ Home
Bundle old newspaper
@ Home
Privat
4
Change bed linen
@ Home
Clean kitchen
@ Home
Clean floors
@ Home
Clean bath
@ Home
Project
Context
27
Deadline
PushPin

Seaside



MIT License

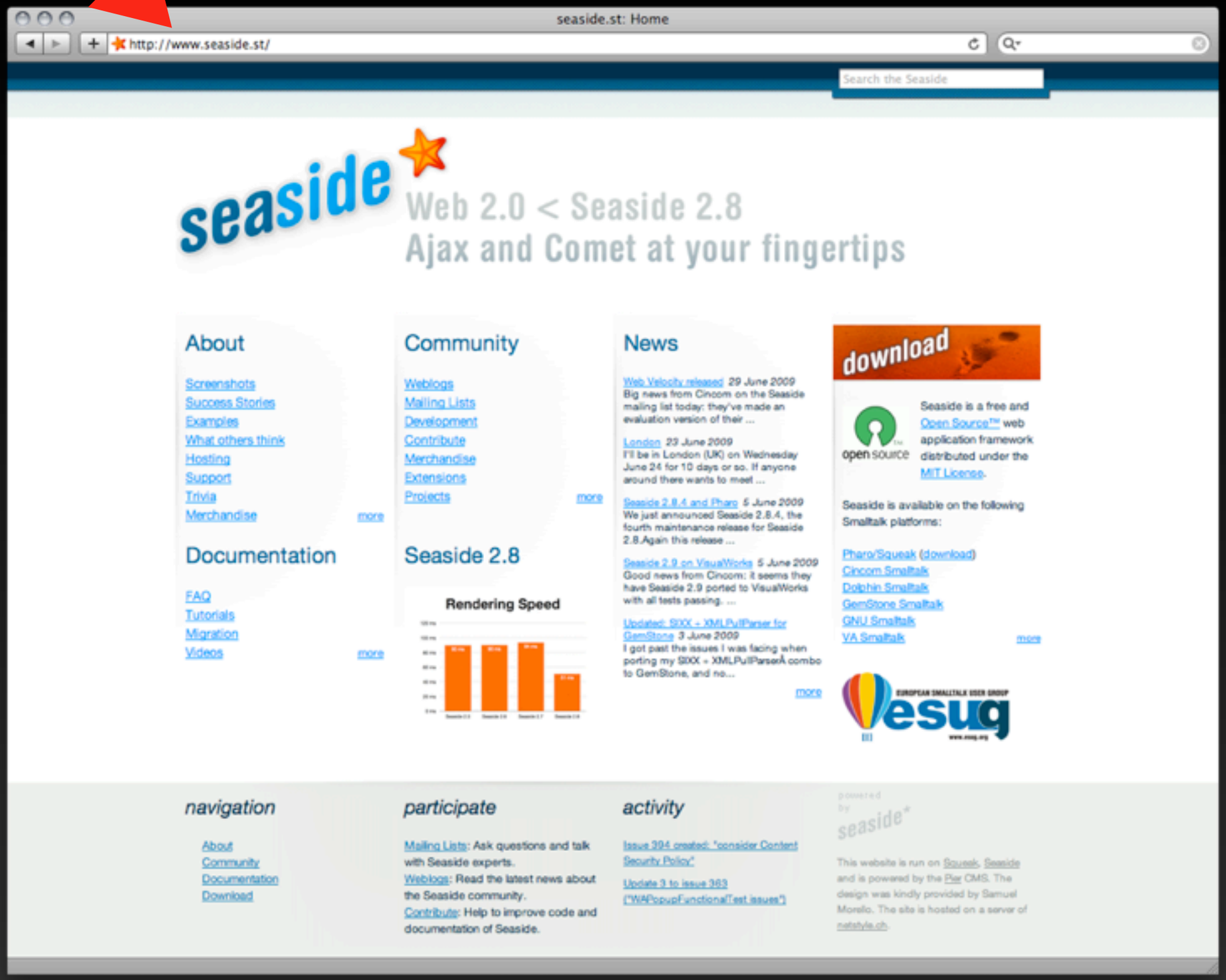
Pharo

Cincom®

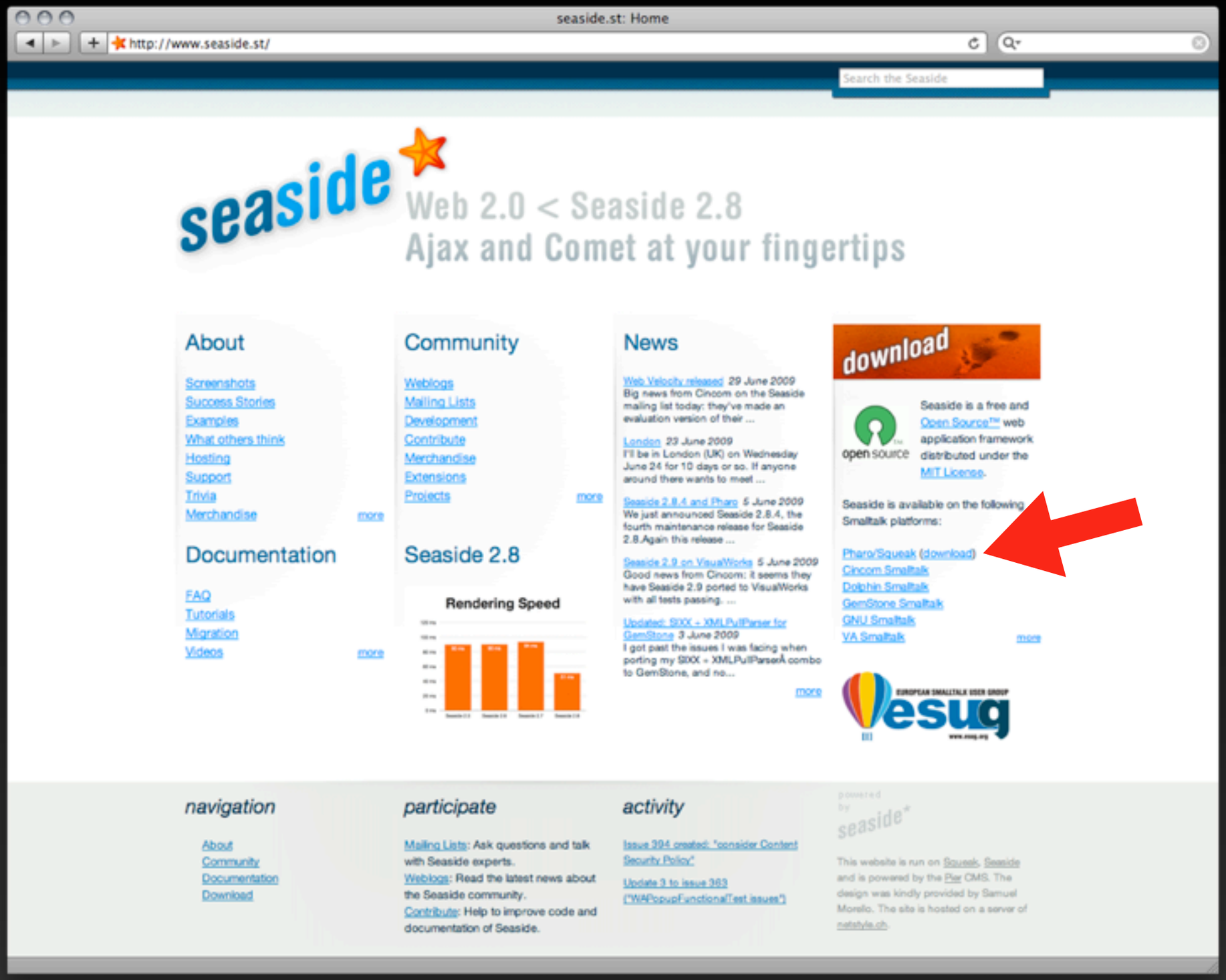
GemStone®

instantiations

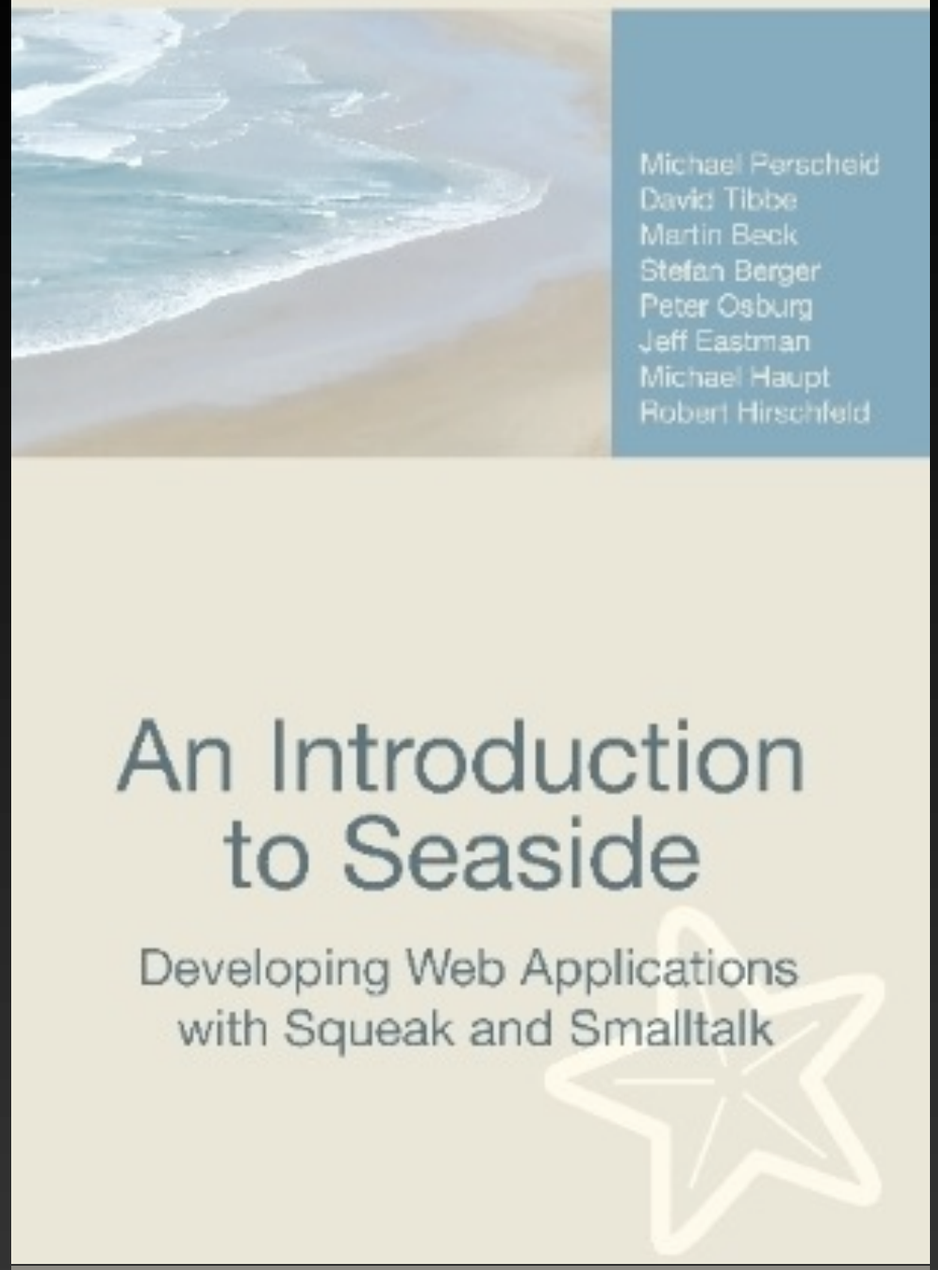
Build Quality Software



www.seaside.st



www.seaside.st



www.swa.hpi.uni-potsdam.de/seaside/tutorial/

www.seaside.st

www.lukas-renggli.ch