



The Revenge of Smalltalk

London Geek Nights
July 6, 2009

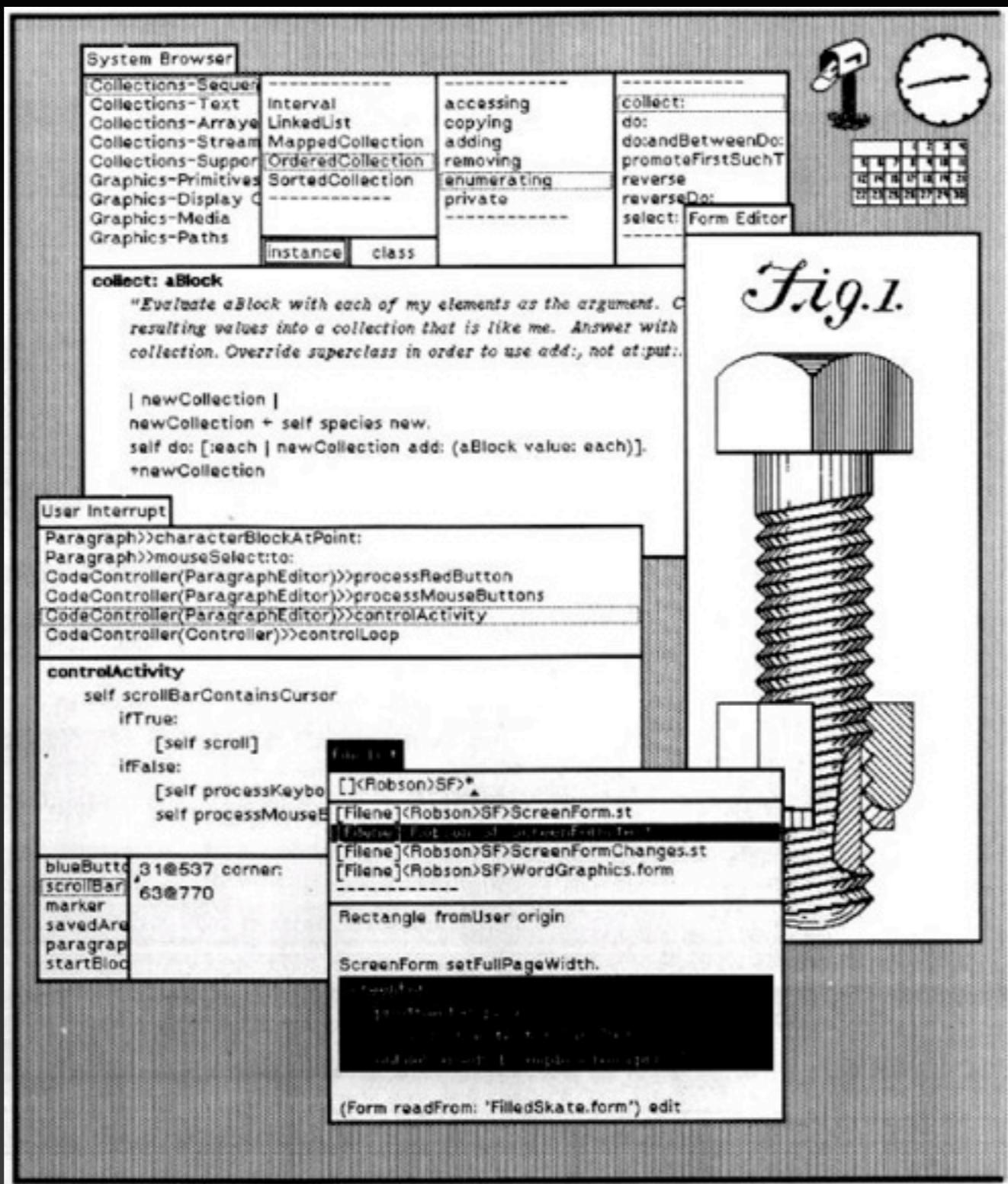
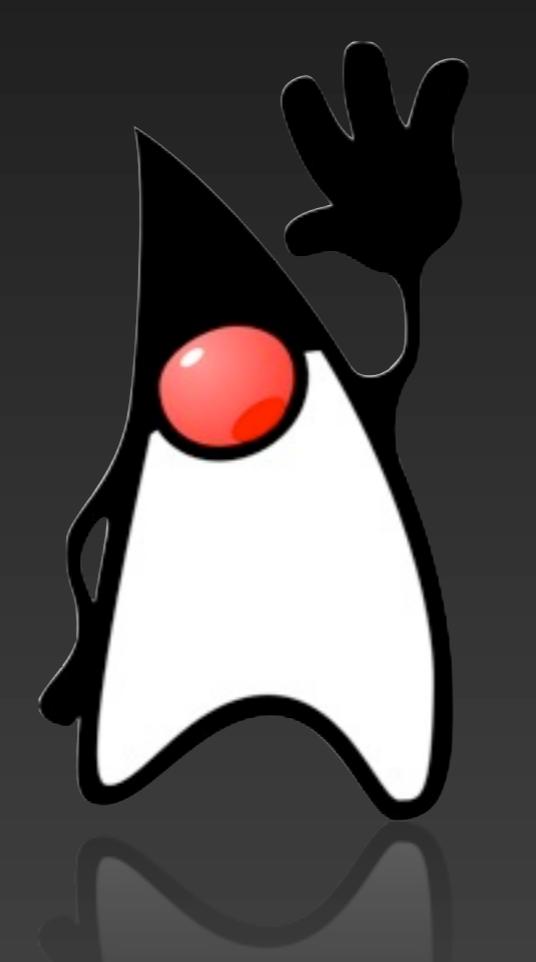
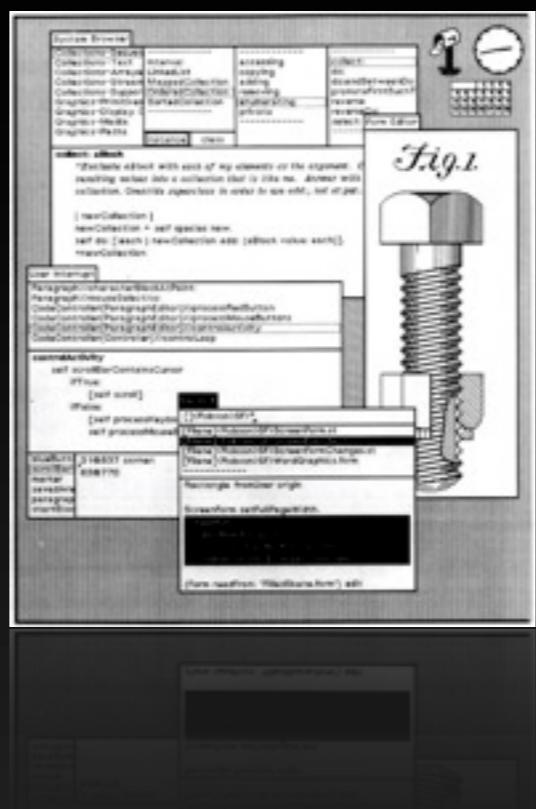
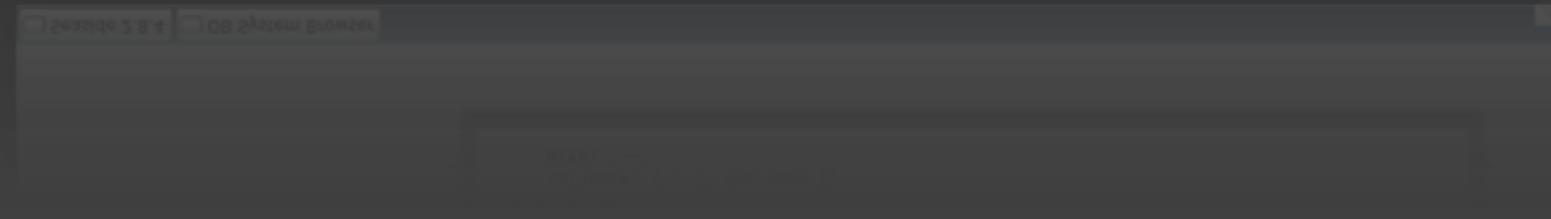
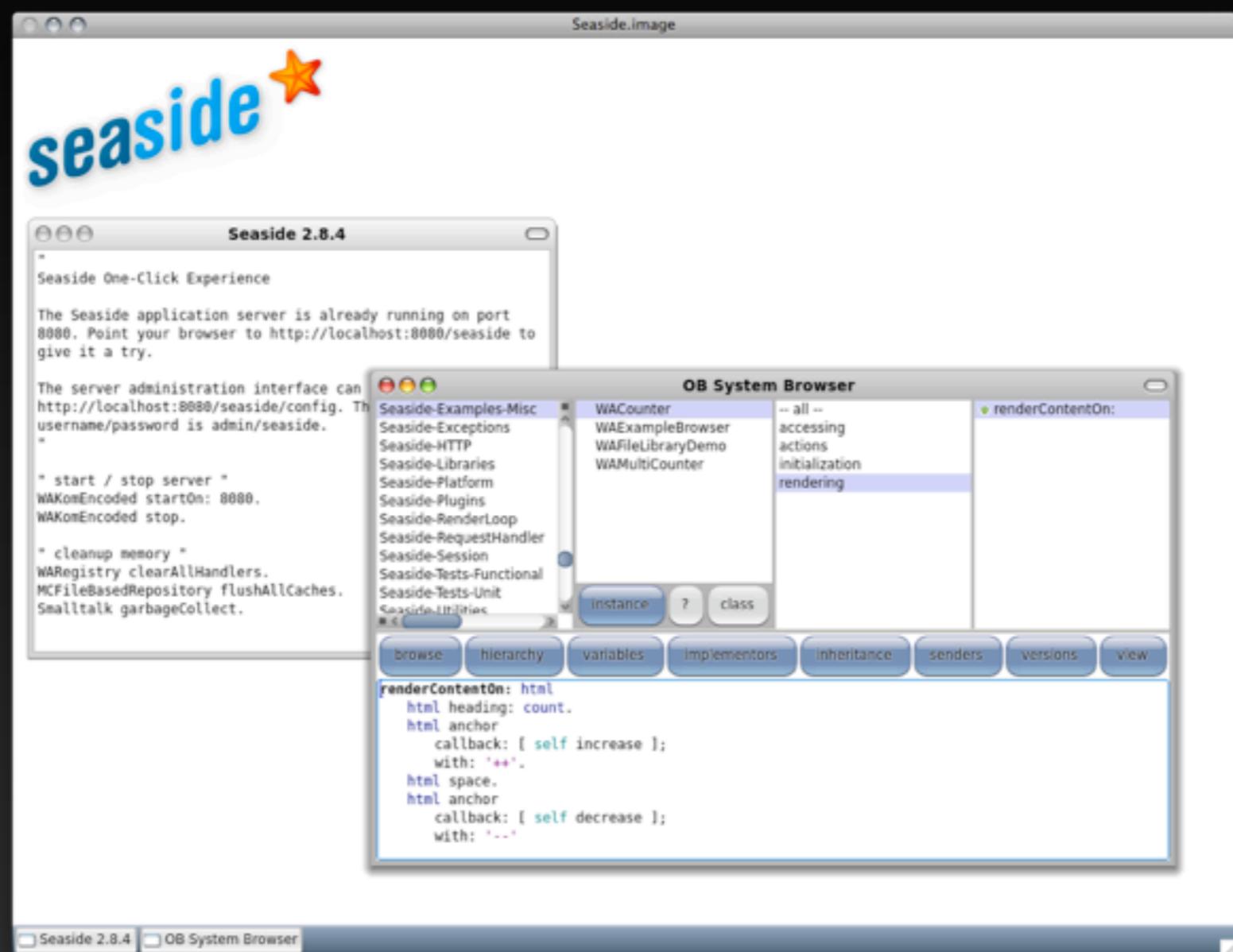


Fig.1







Seaside.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 be found at <http://localhost:8080/seaside/config>. The default 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
Seaside-Utilities

WACounter
WAExampleBrowser
WAFileLibraryDemo
WAMultiCounter

-- all --
accessing
actions
initialization
rendering

renderContentOn:

renderContentOn: html
html heading: count.
html anchor
callback: [self increase];
with: '++'.
html space.
html anchor
callback: [self decrease];
with: '--'.

instance ? class

browse hierarchy variables implementors inheritance senders versions view

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



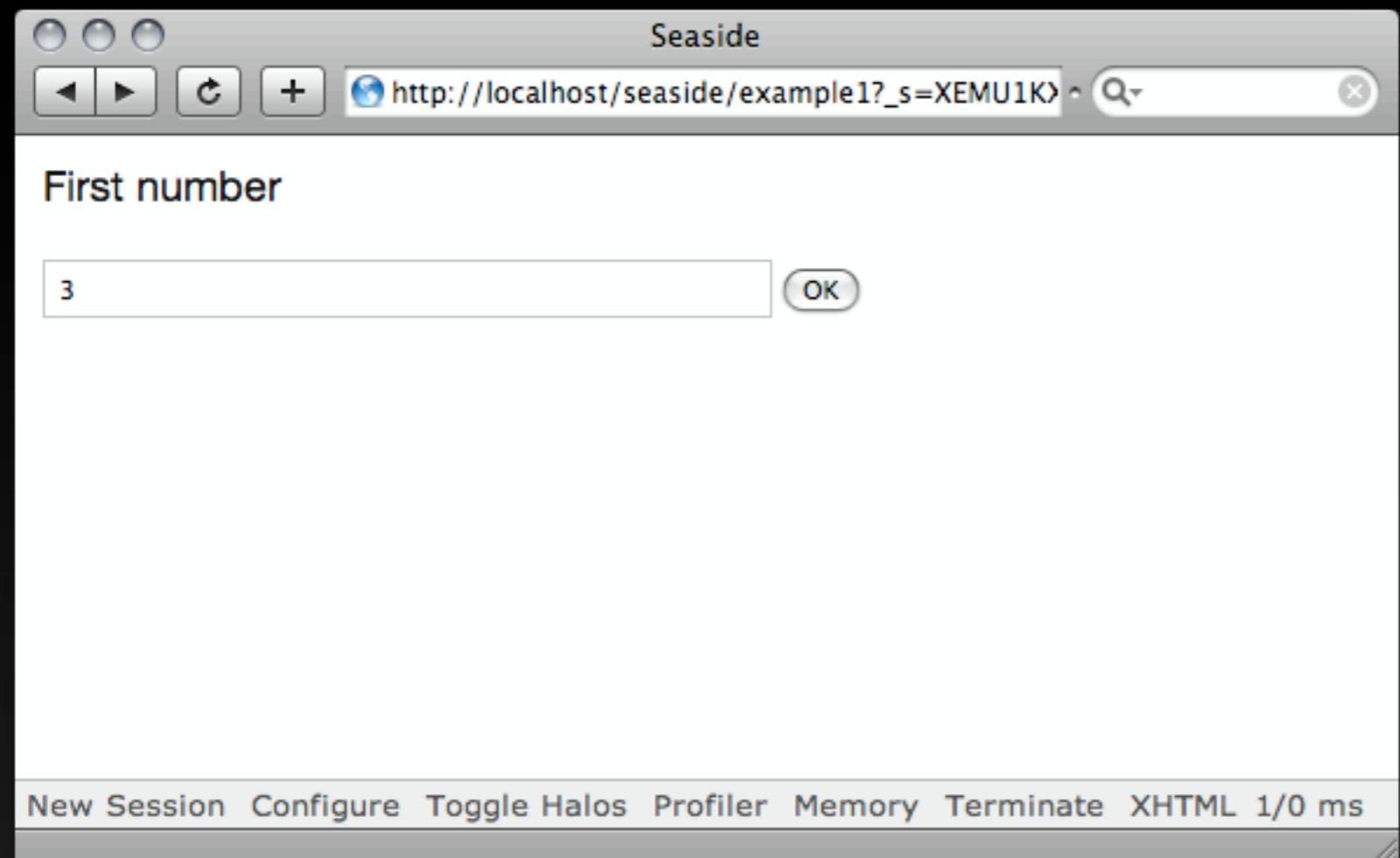
Closures



Debugger



Natural Flow



Seaside

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

First number

Seaside

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

Second number

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

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

Seaside

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

First number

Seaside

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

Second number

New Session Configure Tools

Seaside

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

7

New Session Configure Tools

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>
```

The diagram illustrates the data flow between three pages: 'second.html', 'result.html', and a third unnamed page at the bottom.

- second.html:** Contains a form with a text input field named "value1" and a submit button labeled "OK".
- result.html:** Contains a form with a hidden input field named "value1" containing the value from "value1" of the first form, and a text input field named "value2". It also has a submit button labeled "OK".
- Third Page:** Contains a paragraph element displaying the sum of the values from "value1" and "value2" of the second form.

Annotations with arrows indicate the data flow:

- A red arrow points from the "value1" input field in the first form to the "value1" input field in the second form.
- A yellow arrow points from the "value1" input field in the second form to the "% value1 %" placeholder in the third page's paragraph.
- A yellow arrow points from the "% value2 %" placeholder in the third page's paragraph back to the "value2" input field in the second form.

```
<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>
```

The diagram illustrates the data flow between three files: 'second.html', 'result.html', and a third unnamed file at the bottom.

- second.html:** Contains a text input field named "value1" and a submit button labeled "OK".
- result.html:** Contains a hidden input field named "value1" with the value set to the value of "value1" from the first form, a text input field named "value2", and a submit button labeled "OK".
- Third File (Bottom):** Contains a paragraph element displaying the sum of "value1" and "value2".

Annotations with arrows indicate the flow of data:

- A red arrow points from the "value1" input in the first form to the "value1" input in the second form.
- A yellow arrow points from the "value1" input in the second form to the "value1" attribute in the hidden input of the result form.
- A yellow arrow points from the "value2" input in the result form to the "% value2 %" placeholder in the third file's paragraph.
- A yellow arrow points from the "% value1 + value2 %" placeholder in the third file's paragraph back up to the "% value1 + value2 %" placeholder in the third file's paragraph.

seaside ★

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

It's just
Smalltalk

value1 := self request: 'First Number'.

value2 := self request: 'Second Number'.

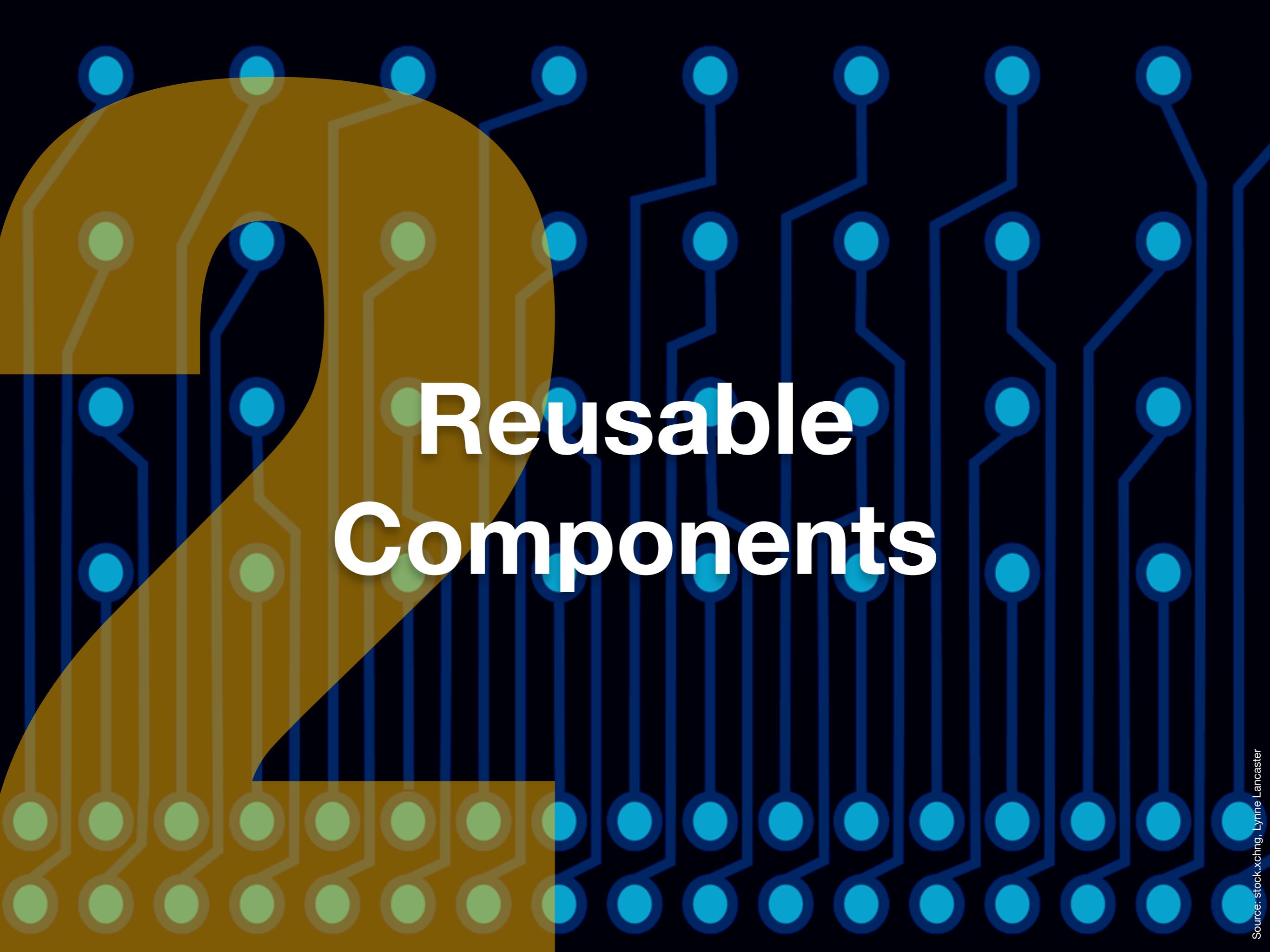
self inform: 'Value1 = ', value1.

No request parsing

No string fiddling

No state machines

newo



Reusable Components



ABLELINK'S

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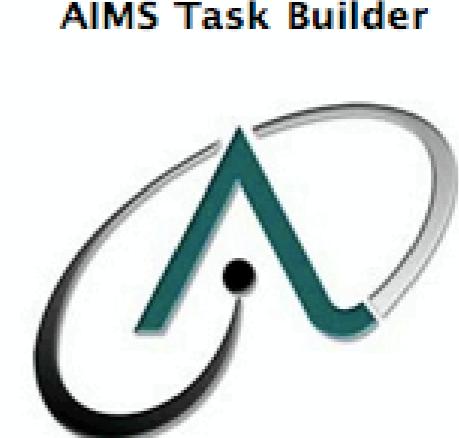
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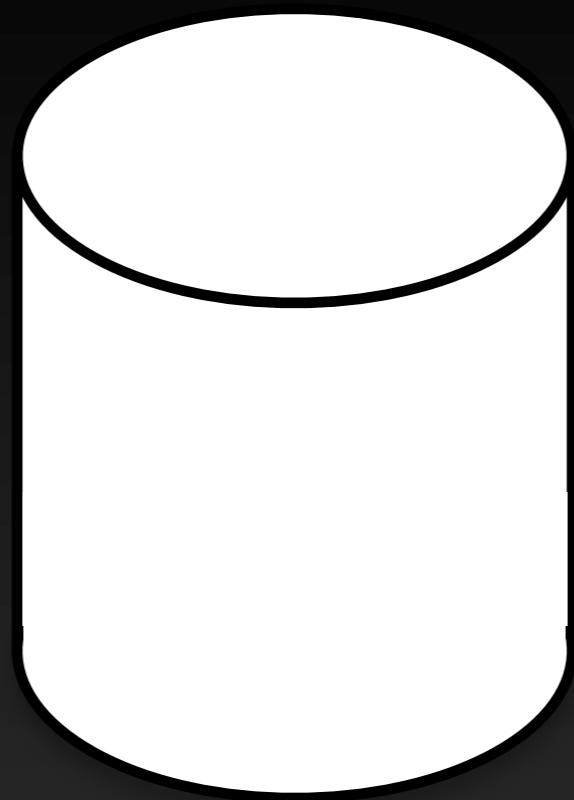
AIMS Task Builder



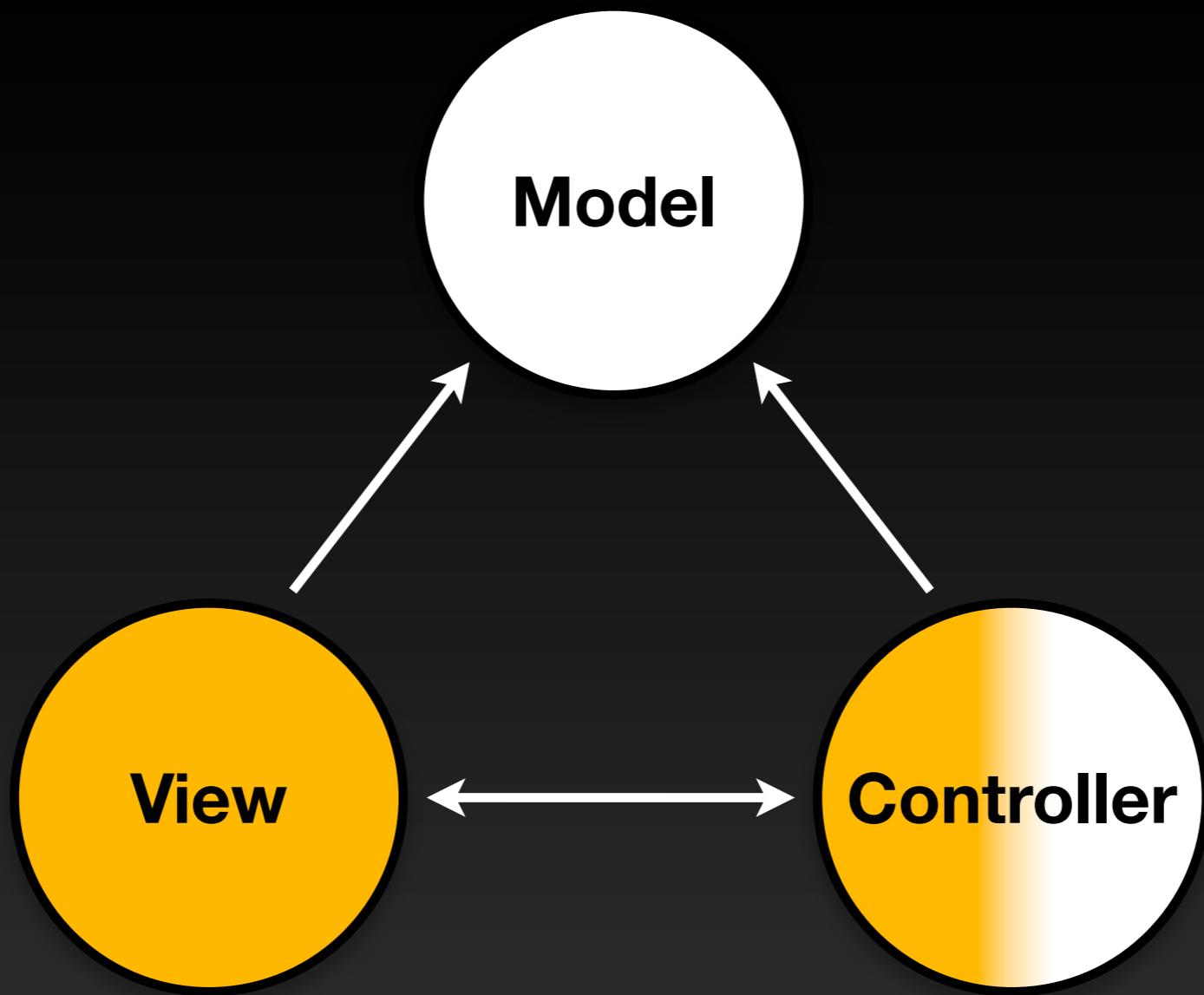
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Reuseable



Persistent



Model, View, Controller



Valid

CSS
Designer

XHTML

Developer & Seaside

DRY

It's a CSV

**It's just
smalltalk**

newo



Secure by Default



Cross Site Scripting

Output is encoded
by default



Replay Attacks

Session

_s=RU8ZKgqjy0uDX3kf

96-bit

Page

_k=K5EQyqKE

48-bit



Parameter Tampering

Names are generated
automatically

Names are bound
to functions

No manual
request parsing

```
html submitButton
```

```
callback: [ self inform: 'Hey' ];
```

```
with: 'Click Here'
```

html submitButton

It's a DSL,
with 'Click Here'

It's just
smalltalk

html submitButton

llback: [self inform: 'Hey'];

With a click here'



Web 2.0





Comet

It's a DSL

It's just
Smalltalk

newo



Applications

In productive use
since 2002



CONCURSO CLASSIC ALBUMS

SELECCIONE PAÍS

Argentina

Ingresar

*

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Saturn Beta

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

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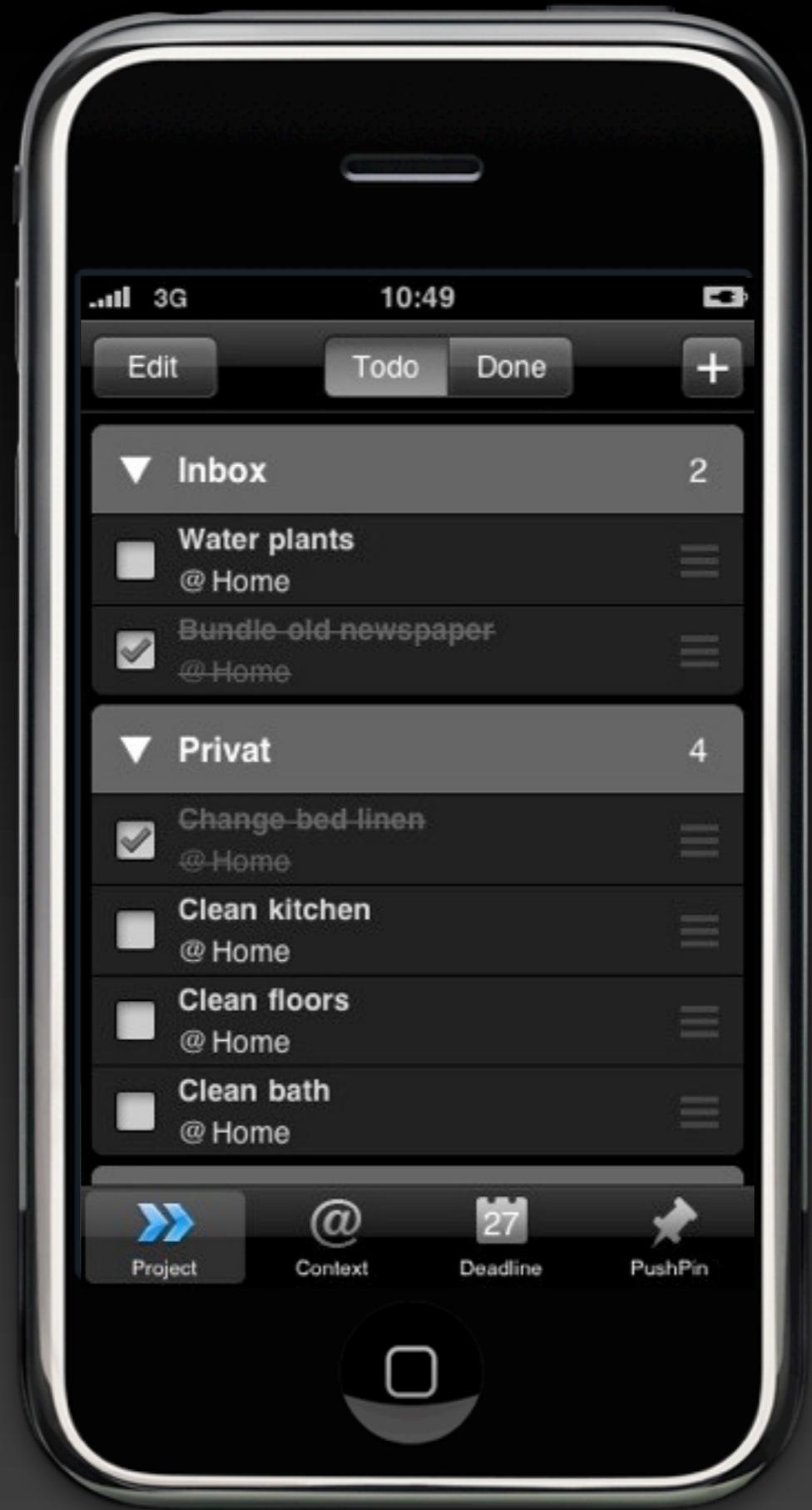
27 April 2009 — 27 April 2009

Map Satellite Hybrid **Terrain**

2 mi
2 km

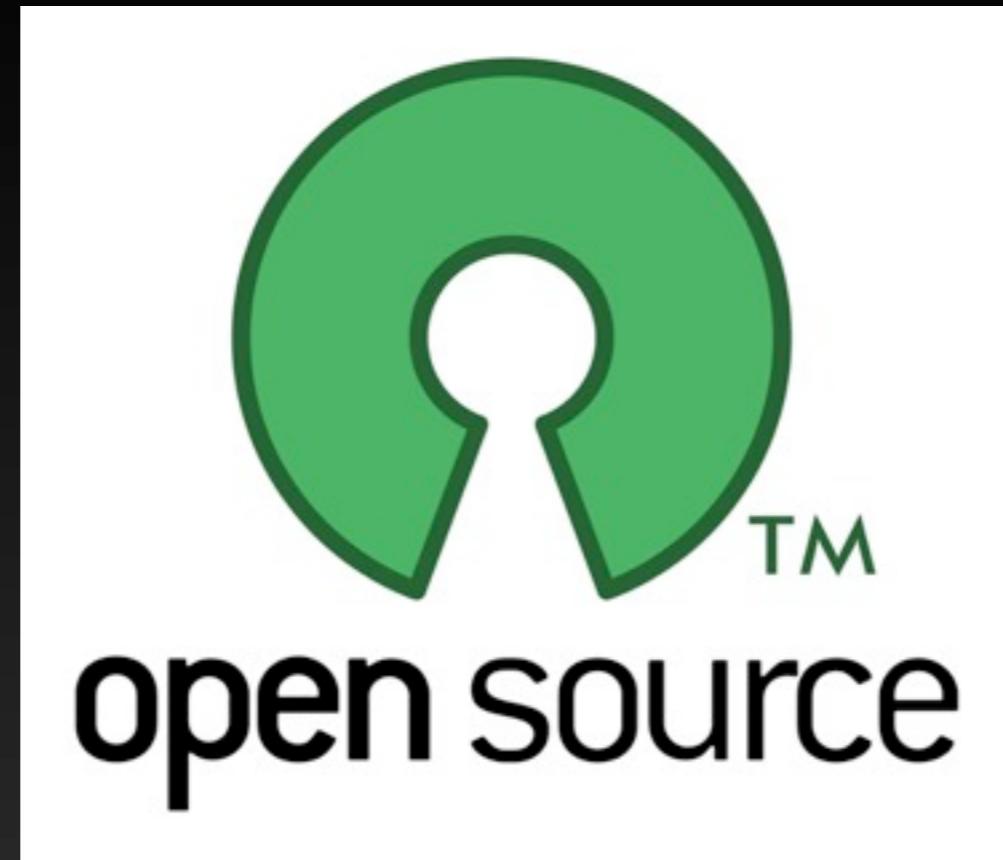
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Seaside



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Pharo







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http://www.seaside.st/

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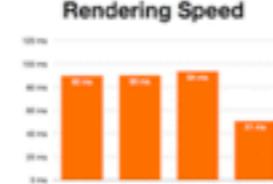
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Seaside 2.8

Rendering Speed



Seaside 2.8 Version	Rendering Speed (ms)
Seaside 2.4	~80
Seaside 2.5	~75
Seaside 2.6	~65
Seaside 2.7	~45

News

[Web Velocity released](#) 29 June 2009
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Seaside is available on the following Smalltalk platforms:

- [Pharo/Squeak \(download\)](#)
- [Cincom Smalltalk](#)
- [Dolphin Smalltalk](#)
- [GemStone Smalltalk](#)
- [GNU Smalltalk](#)
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 EUROPEAN SMALLTALK USER GROUP

powered by
*seaside**

This website is run on [Squeak](#). Seaside and is powered by the [Pier CMS](#). The design was kindly provided by Samuel Morillo. The site is hosted on a server of [netstyle.ch](#).

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Seaside 2.8.7	~40

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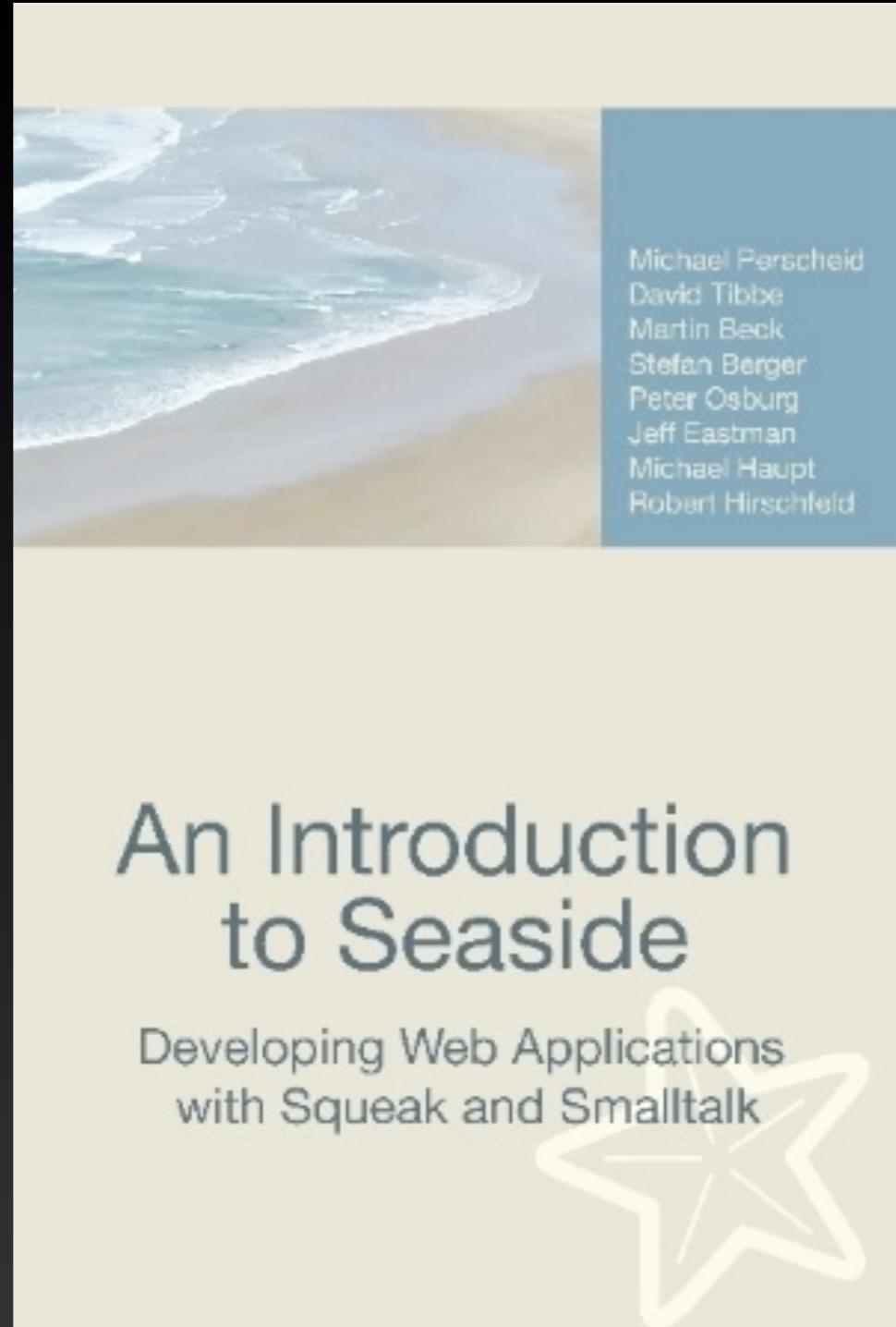
activity

[Issue 394 created: "consider Content Security Policy"](#)
[Update 3 to issue 383 \("WAPopupFunctions/TestIssues"\)](#)

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