



**Dynamic Applications Simply**

**<http://seaside.st>**

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

**MIT License**

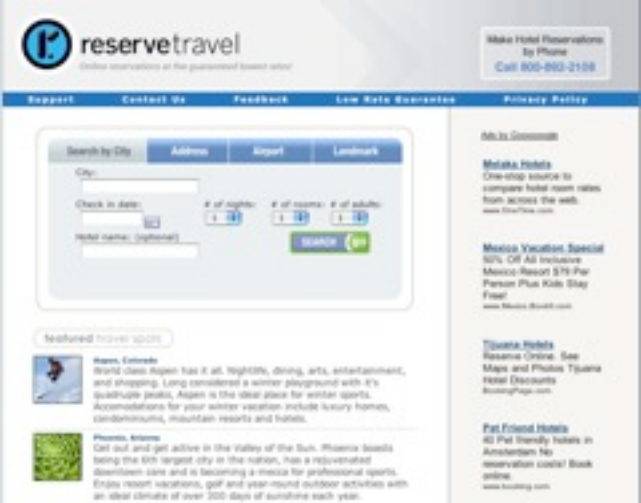
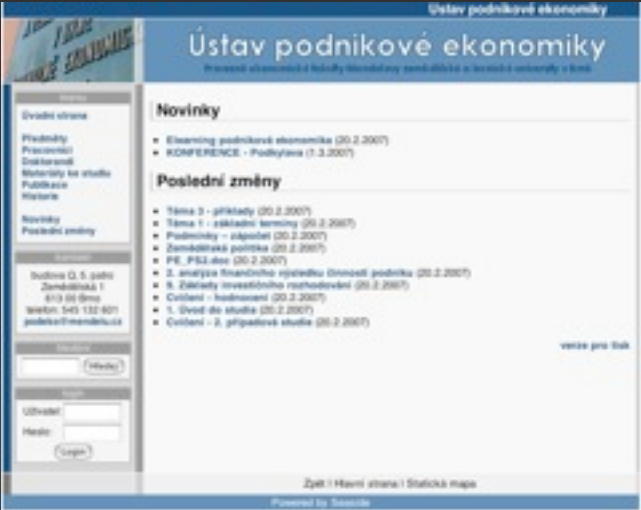
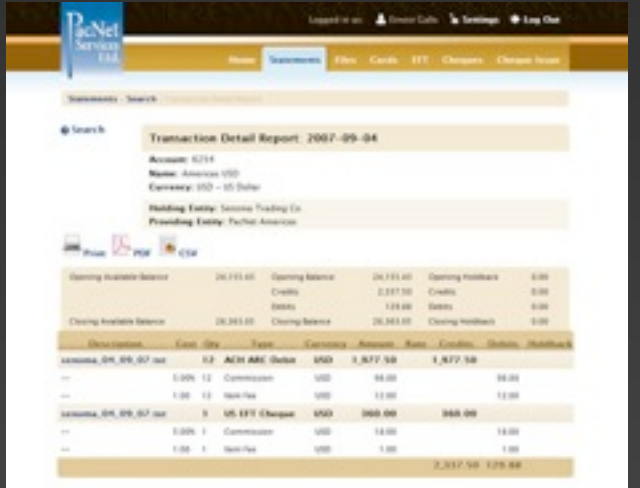
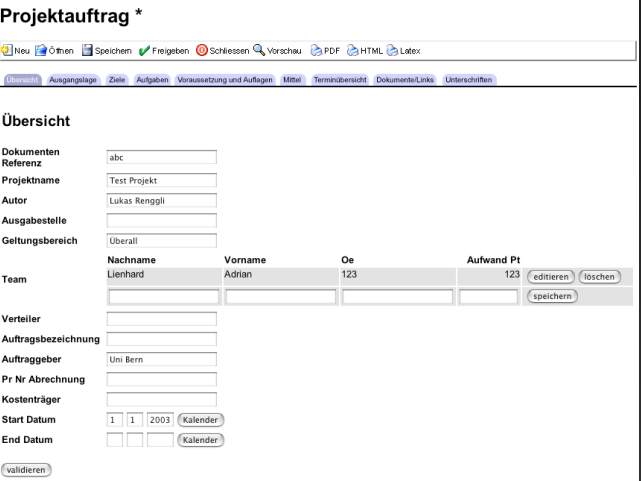
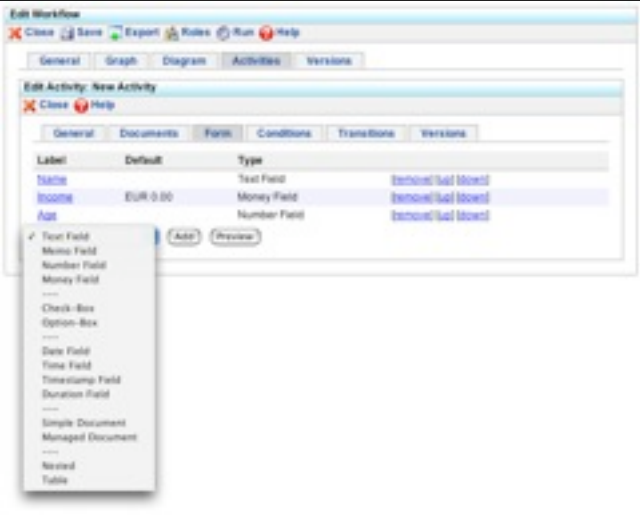
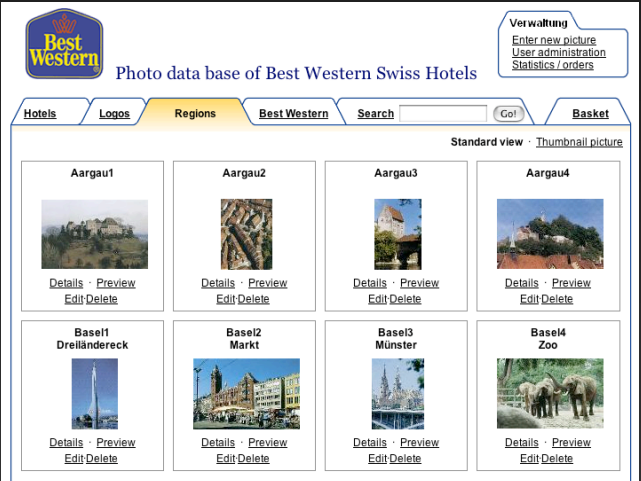
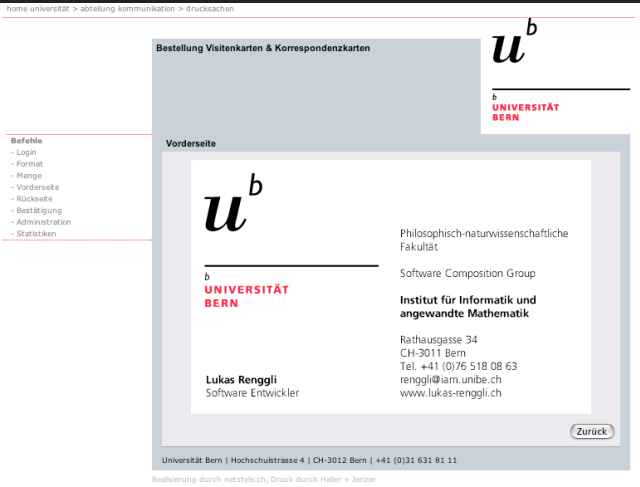
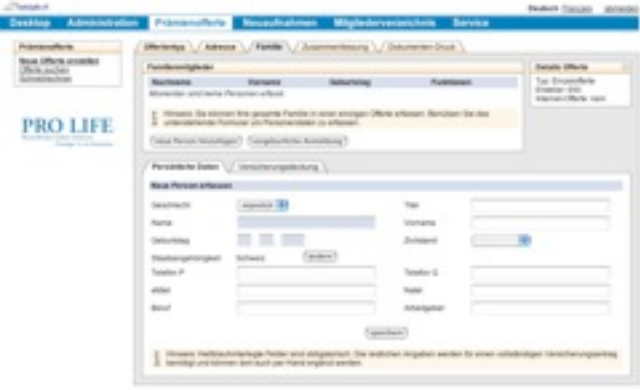
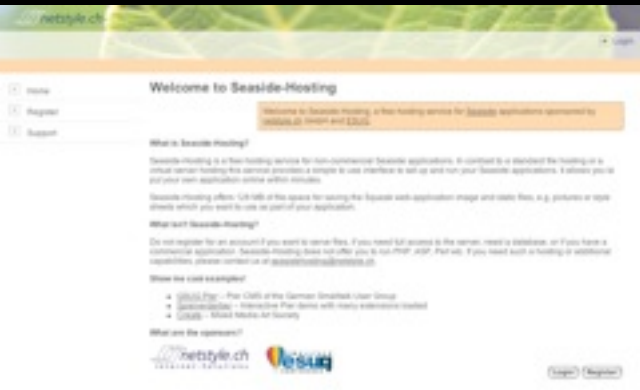
**Stephane.Ducasse@inria.fr**

# In a nutshell

- ★ Natural Flow
- ★ Reusable statefull components
- ★ Secure by default
- ★ Web 2.0

In productive use  
since 2002







dabble

Enter your data **once**.Share it with **a dozen people**.View it from **a hundred angles**.The **power** of a database with point-and-click **simplicity**.

**Dabble DB helps you create an online database on the web.**  
It's easy to use yet extremely flexible and powerful.

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712 Main St	471,000.00 CAD	3	2
911 Marina Drive	520,000.00 CAD	4	2

**Save multiple views** of data from any angle and **re-organize** on a whim. **Share everything** with colleagues.

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Time	SUN 11 NOV	MON 12 NOV	TUE 13 NOV	WED 14 NOV	THU 15 NOV	FRI 16 NOV
10 am						
11 am						
12 pm		Weekly Sales Meeting				
1 pm						
2 pm						
3 pm						

**Collect data easily** by creating online forms using a **drag-and-drop interface**.

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**Free Commons account**

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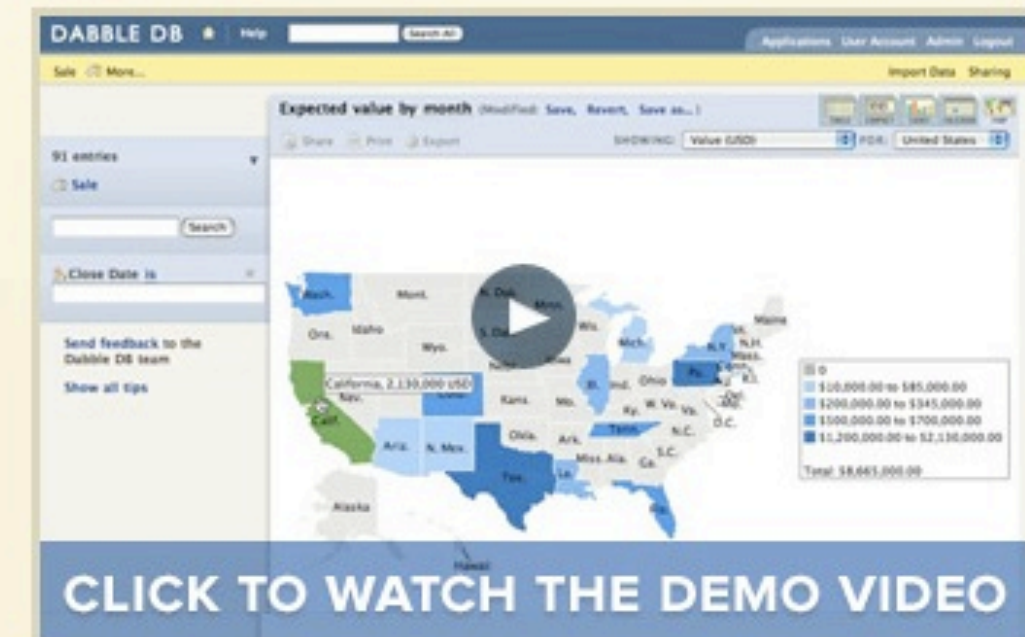
## Try Dabble DB right now Free for 1 month

Pricing starts at \$10 per month for private plans.  
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**CLICK TO WATCH THE DEMO VIDEO**



## FEATURES

### 29 Nimble, Fast and Small

BizTech profiles three software startups, which offer insights on how to launch companies with staying power.

### 34 Pay-Per Chase

Search engine advertising needn't be a gamble — plus, with good analytics, you can rack up solid metrics about how well a campaign meets its goals.

### 43 Spin Control

Have a great in-house tech tool that you want to sell commercially? Find out how other companies succeeded in taking their wares to market.

Dare to take your own approach to creating and managing your company, say Andrew Catton (left) and Avi Bryant, co-CEOs of Smallthought Systems. Page 29

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### 39 Warming Up to Solar Energy

In Silicon Valley, startup Miasolé relies on technology as it works on a breakthrough approach to producing solar energy panels so thin they can be embedded in roofing and other materials, says IT chief Stephen Barry.

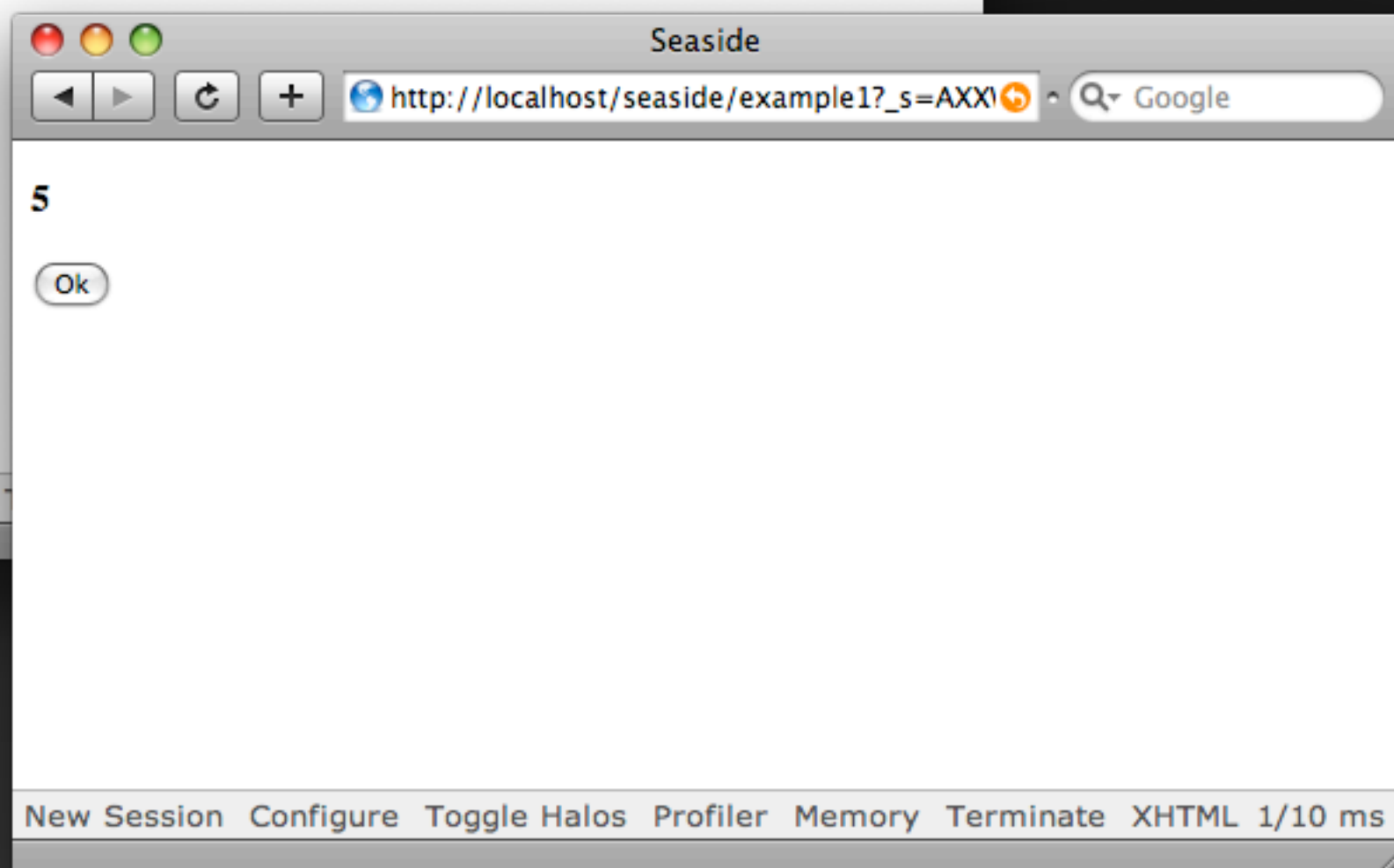
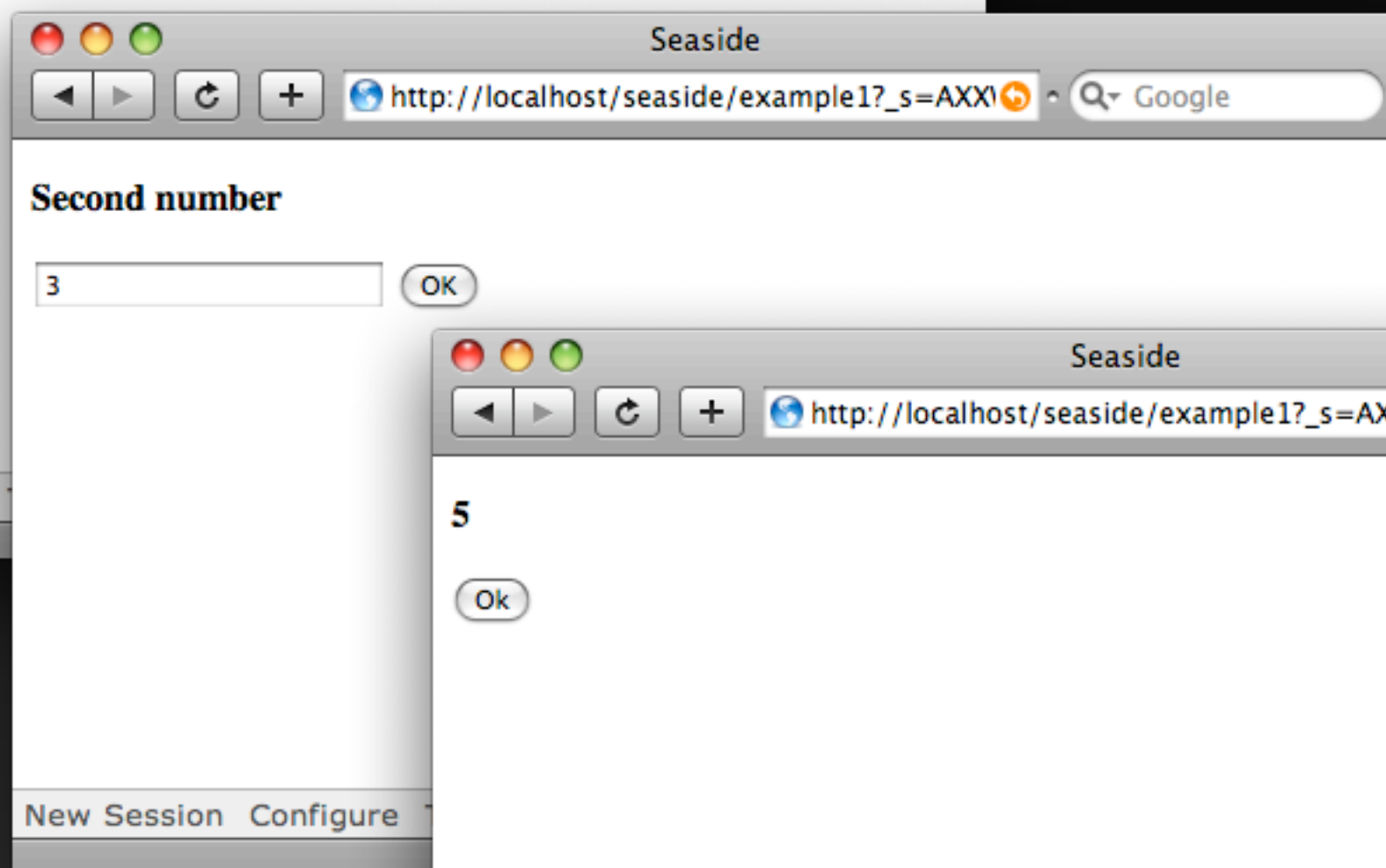
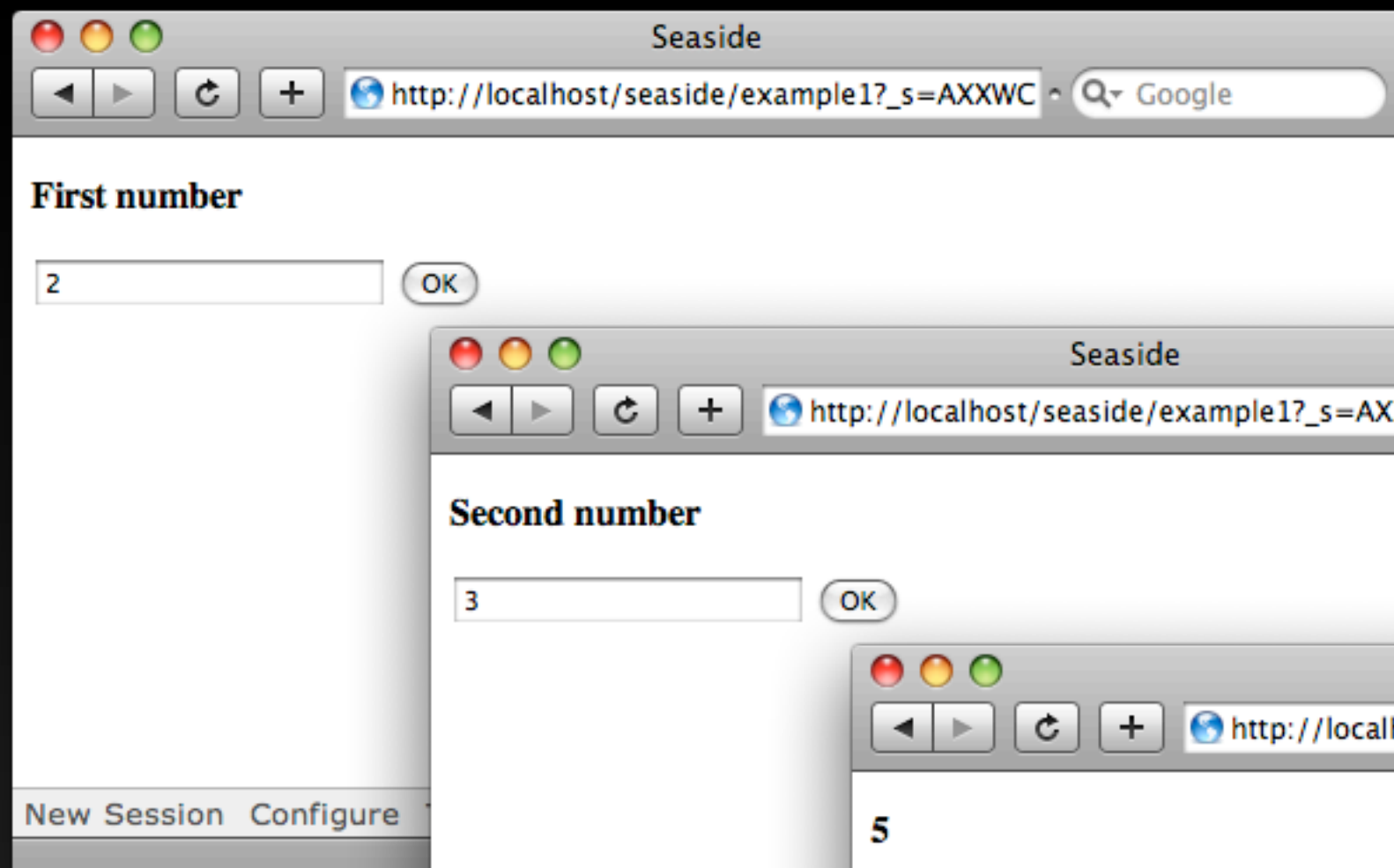


COVER PHOTO ILLUSTRATION BY JOE HEIMER, ABOVE, CHRISTOPHER J. MORRIS/REDA PICTURES, RIGHT, ROBERT HOUSSER

Demo



# Natural Flow



```
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.
```

Not concerned about HTTP

No manual request parsing

No XML configuration files





**x :=** **A** **call:** **B**



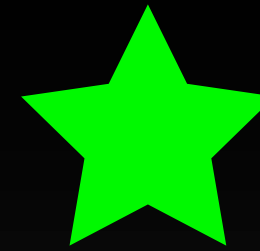
**x :=** **A** **call:** **B**








answer:





answer:



**X** **:=** 





A large, stylized number 2 in a dark gray color, positioned on the left side of the slide, serving as a background element.

# Reusable Components

We don't think in  
pages ...

..., but in stateful  
components

Register work

Reports

Filter

cmsdev-1 (netstyle.ch - Pseudokontakt)

-- all members --

-- all types --

-- all --

show

Statistics

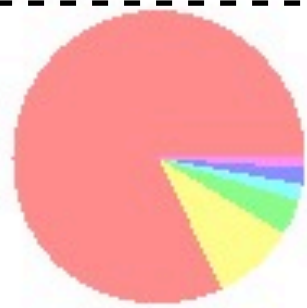
Entries

Members



Renggli Lukas	67%
Lienhard Adrian	27%
Wysseier Christoph	6%
Lutz Niklaus	1%
Marschall Philippe	1%

Types



Smalltalk	83%
Meeting	10%
Support/other	4%
Hosting/Server	2%
Management	2%



**Valid**

html div id: 'title'; with: 'Title'



<div id="title">Title</div>



```
html div id: 'list'; with: [  
  html span class: 'item'; with: 'Item 1'.  
  html span class: 'item'; with: 'Item 2' ]
```



```
<div id="list">  
  <span class="item">Item 1</span>  
  <span class="item">Item 2</span>  
</div>
```

html anchor

```
callback: [ self inform: 'Hello World' ];  
with: 'Show Message'
```



```
<a href="/seaside/example1  
?_s=Ru8ZKgqjy0uDX3kf  
&_k=K5EQyqKE  
&32">Show Message</a>
```

# CSS

## Designer



**Secure by  
Default**



# Cross Site Scripting



Output is **encoded**  
by default

html text: '<script>alert("xss")</script>'



&lt;script&gt;alert('xss');&lt;/script&gt;



# 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

Don't call Seaside,  
Seaside will call you



html anchor

```
callback: [ self inform: 'Hello World' ];  
with: 'Show Message'
```



```
<a href="/seaside/example1  
?_s=Ru8ZKgqjyOuDX3kf  
&_k=K5EQyqKE  
&32">Show Message</a>
```



# Web 2.0

# Deep JQuery Integration

Tight, but optional  
integration





*"I do enjoy Pharo"* Kent Beck

***A clean, innovative, open-source Smalltalk***

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

# 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.monkeysntatchbanana.com](http://www.monkeysntatchbanana.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)

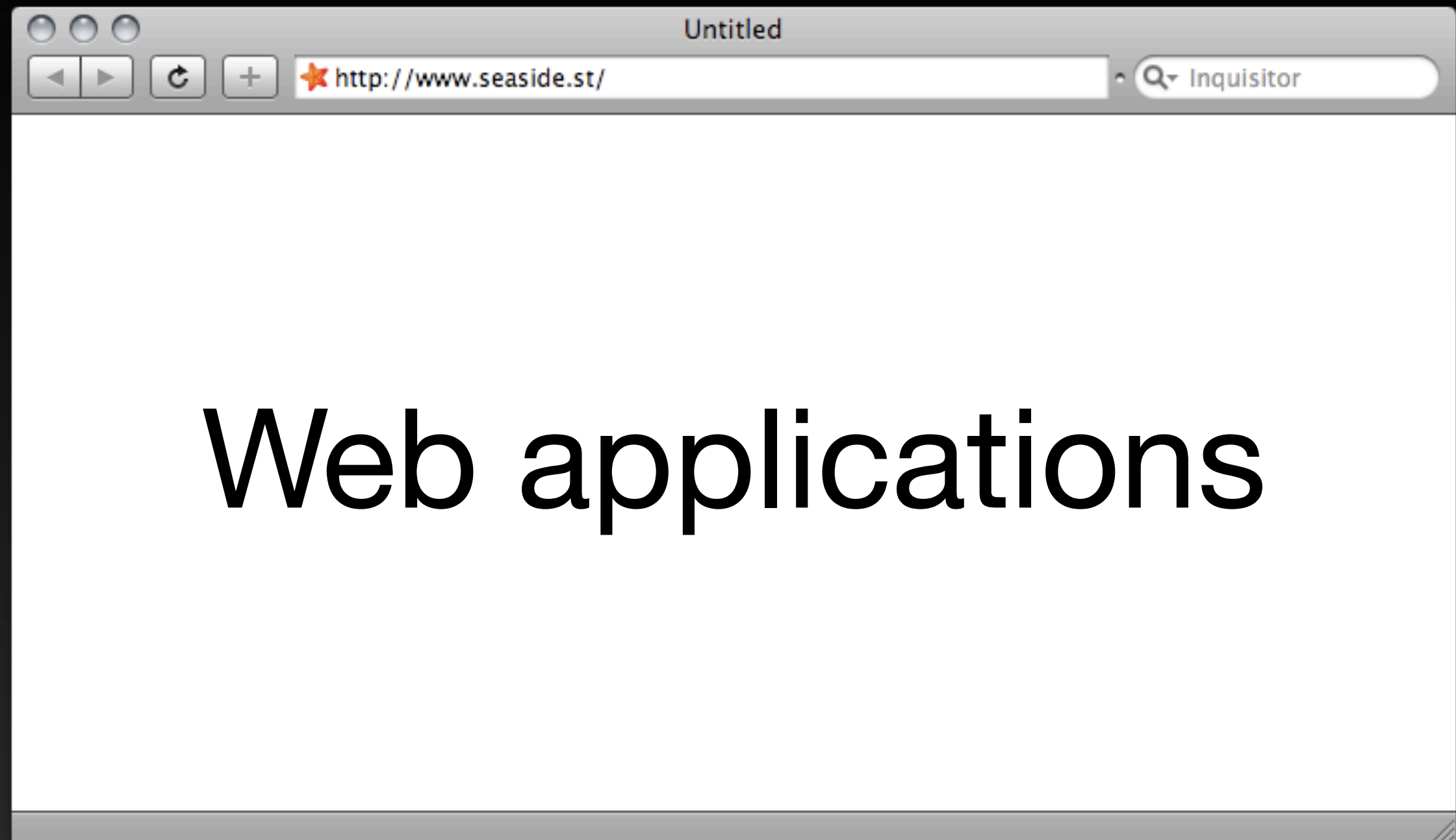
[www.sharedlogic.ca](http://www.sharedlogic.ca)

[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)

**Did you notice?**



# No URL fiddling

# No request parsing







Control flow at ease



# Seaside



## MIT License

# Interested in Seaside business in France