

**seaside** 

**Seaside pour tous!**

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

# Agenda

- ★ Natural Flow
- ★ Reusable Components
- ★ Secure by Default
- ★ Web 2.0
- ★ Applications

# New book

★ <http://book.seaside.st>

★ Free open-source

In productive use  
since 2002

**metastyle.ch**

Welcome to Seaside-Hosting

**What is Seaside-Hosting?**

Seaside-Hosting is a free hosting service for non-commercial Seaside applications. In contrast to a standard file hosting or a virtual server hosting this service provides a simple to use interface to set up and run your Seaside applications. You can provide full access to your application within minutes.

Seaside-Hosting offers 128 MB of the space for saving the Seaside web application image and code files, e.g. pictures or other files which you want to use as part of your application.

**What sets Seaside-Hosting?**

Do not register for an account. Thus you can save time. If you need full access to the system, need a database, or if you have a commercial application, Seaside-Hosting does not offer access to our PHP, ASP, Perl, etc. If you need such a hosting or additional features, please contact us at [support@metastyle.ch](mailto:support@metastyle.ch).

What are the advantages?

- Free of charge
- Free of charge
- Free of charge

What are the options?

[Support](#) [Helpdesk](#)

**SqueakSource**

Welcome to SqueakSource, the smart Macintosh code repository for Squeak. To get started register your personal account and create any number of projects to host on our server. You'll immediately get all the necessary permissions to create and manage your account, projects and avatars. Detailed instructions can be found on the Help page.

This service is brought to you for free; it is backed up daily. Still, please make sure that you have your own proper backup and more than that our server give any accessibility guarantees. However, if you wish you can set up your own SqueakSource mirror; it is self hosted and can be downloaded from SqueakHub.

Please report any problems or suggestions to the Squeak Mailing List. Great!

We gratefully acknowledge the support of the Software Composition Group and the University of Bern for hosting this service.

**Statistics**

**Members (767)**  
 Recently joined: James Fynn, Rob Harris, Aaron Rowden, Marco Schmidt, ...  
 Most Active: Daniel Canessa, Marco Dierker, Soren Strauss, Vladimir Dakovski, ...

**Projects (837)**  
 Recently created: Perceptions, ThursdayMogul, Compensational, RemodalSignets, ...  
 Most Viewed: Squeak, Squeak, Squeak, Squeak, Squeak, Squeak, Squeak, ...  
 Most Downloaded: Squeak, Squeak, Squeak, Squeak, Squeak, Squeak, Squeak, ...

**PRO LIFE**

**PRO LIFE**

PRO LIFE

PRO LIFE

**Run BASIC**

Welcome to the Run BASIC site!

Run BASIC is a free online BASIC interpreter. You can write and run your own BASIC programs without installing any programming software on your computer. Run BASIC is based on the popular [Visual Basic](#) programming language, a derivative of BASIC programming since 1965.

Execute the example programs by clicking on the tabs: [BASIC](#), [HTML](#), [XML](#), [JavaScript](#), [VBScript](#), [Shell](#), [FTP](#), [Telnet](#), [SSH](#), [SSH2](#), [SSH3](#), [SSH4](#), [SSH5](#), [SSH6](#), [SSH7](#), [SSH8](#), [SSH9](#), [SSH10](#), [SSH11](#), [SSH12](#), [SSH13](#), [SSH14](#), [SSH15](#), [SSH16](#), [SSH17](#), [SSH18](#), [SSH19](#), [SSH20](#), [SSH21](#), [SSH22](#), [SSH23](#), [SSH24](#), [SSH25](#), [SSH26](#), [SSH27](#), [SSH28](#), [SSH29](#), [SSH30](#), [SSH31](#), [SSH32](#), [SSH33](#), [SSH34](#), [SSH35](#), [SSH36](#), [SSH37](#), [SSH38](#), [SSH39](#), [SSH40](#), [SSH41](#), [SSH42](#), [SSH43](#), [SSH44](#), [SSH45](#), [SSH46](#), [SSH47](#), [SSH48](#), [SSH49](#), [SSH50](#), [SSH51](#), [SSH52](#), [SSH53](#), [SSH54](#), [SSH55](#), [SSH56](#), [SSH57](#), [SSH58](#), [SSH59](#), [SSH60](#), [SSH61](#), [SSH62](#), [SSH63](#), [SSH64](#), [SSH65](#), [SSH66](#), [SSH67](#), [SSH68](#), [SSH69](#), [SSH70](#), [SSH71](#), [SSH72](#), [SSH73](#), [SSH74](#), [SSH75](#), [SSH76](#), [SSH77](#), [SSH78](#), [SSH79](#), [SSH80](#), [SSH81](#), [SSH82](#), [SSH83](#), [SSH84](#), [SSH85](#), [SSH86](#), [SSH87](#), [SSH88](#), [SSH89](#), [SSH90](#), [SSH91](#), [SSH92](#), [SSH93](#), [SSH94](#), [SSH95](#), [SSH96](#), [SSH97](#), [SSH98](#), [SSH99](#), [SSH100](#).

**JUNIOR WITZ AWARD**

SWITZERLAND

Ein Initiative von SWITZ

**whooka**

Peter Hansmann

Meine Sportarten

Basel1 Dreiländereck

Basel2 Markt

Basel3 Münster

Basel4 Zoo

**Elemente ausschneiden, kopieren und einfügen**

Hier sind Sie richtig

Unglaublich einfach

**ShomeComponents Demonstration**

Date picker demo

Component description

home universität > abteilung kommunikation > drucksachen

**Bestellung Visitenkarten & Korrespondenzkarten**

**u<sup>b</sup> UNIVERSITÄT BERN**

Philosophisch-naturwissenschaftliche Fakultät

Software Composition Group

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[www.lukas-renggli.ch](http://www.lukas-renggli.ch)

Lukas Renggli  
 Software Entwickler

Zurück

**Best Western**

Photo data base of Best Western Swiss Hotels

Hotels Logos Regions Best Western Search Go! Basket

Aargau1 Aargau2 Aargau3 Aargau4

Basel1 Dreiländereck Basel2 Markt Basel3 Münster Basel4 Zoo

**WebWorkline**

Edit Activity: New Activity

Label Default Type

Text Field Money Field

Text Field Money Field

Text Field Number Field

**Projektauftrag \***

Übersicht

Dokumenten Referenz abc

Projektname Test Projekt

Autor Lukas Renggli

Ausgabestelle

Getungsbereich Überall

Team Lienhard Adrian Oe 123 Aufwand Pt 123

Verteiler

Auftragsbezeichnung

Auftraggeber Uni Bern

Pr Nr Abrechnung

Kostenträger

Start Datum 1 1 2003

End Datum

**PureNet Service Ltd**

Transaction Detail Report: 2007-05-04

Account: 5124

Revenue: American USD

Revenue: 152 - 15 Dollar

Hosting Units: 152

Providing Units: 152

**Ústav podnikové ekonomiky**

Novinky

Poslední změny

Yuko! Hlavní stránka | Statistika | Mapa

**Barnet**

NOTEBOOK ASUS A6R-AP9111 C40 I3MG U9AM BT

Notebook va výšce s 15.4" WXGA (1280x800) ColorBrite displejem, Processor Intel® Core™ M 440 (1.86GHz, 1MB cache) Intel® HD Graphics (2x32) (6MB), 4GB DDR2 RAM, 128MB SSD, 15.4" WXGA (1280x800) displej, optická mechanika DVD±RW SuperMulti Double Layer, grafika ATI Radeon Xpress 200M, síťová karta 10/100 Mb, moderní 260, Bluetooth, Wi-Fi 802.11g, Zelená kniha, video kamera 0.3MP, 4 do 1.5GB karta / SD-MSMC / MMC / SD / MMC / SDHC, 1x USB 2.0, 1x PCMCIA slot, Battery Li-Ion 6 článků, Bez OIS, (Neo-Express, Neton Internet Security, AM32VD 32M, ASUS Power Guard, Recovery 104 + 204 + 37.2 min, vlna 2.87 kg, Dodáváno s taškou a optickou myšičkou

**reservetravel**

Search by City Address Airport Landmark

Check in date: # of nights: # of rooms: # of adults:

Hotel name: (optional)





THE HISTORY CHANNEL



# CONCURSO CLASSIC ALBUMS

SELECCIONE PAIS

Argentina

Ingresar



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

[CONOCE LOS GANADORES](#)





CMSBOX GEWINNT  
MASTER OF SWISS WEB



SYSTEM

SERVICE

FIRMA

DEMOS

FEATURES

VORTEILE

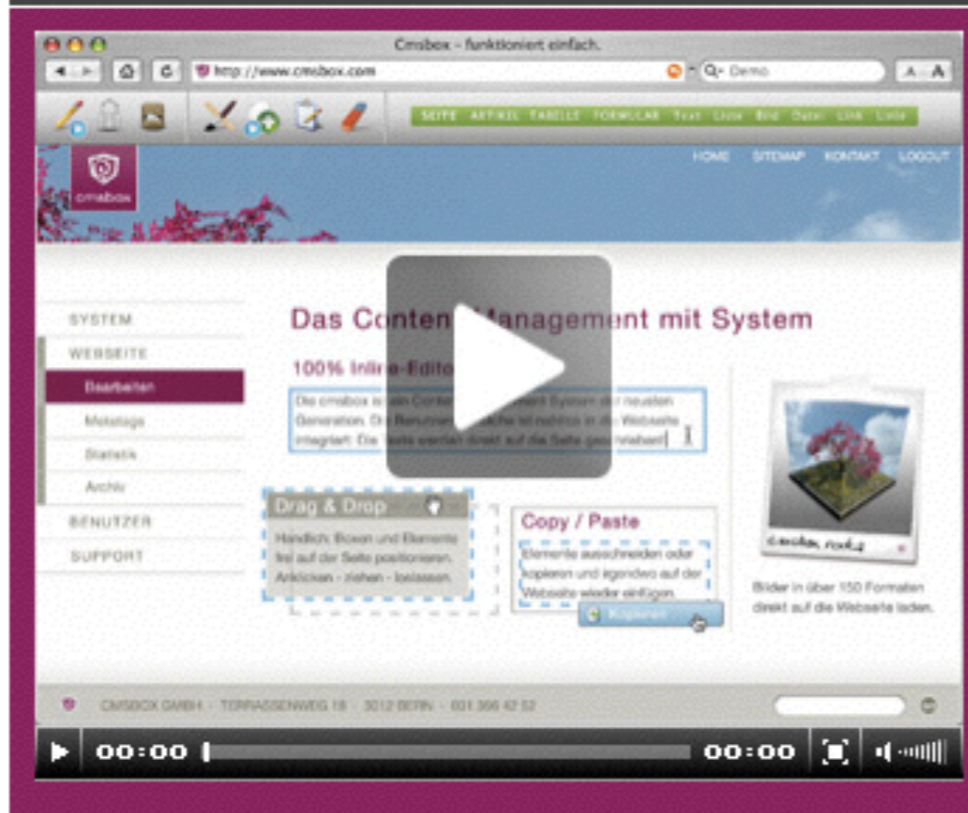
KUNDEN

TECHNOLOGIE

PREISE

## Cmsbox – Das Content Management mit System

### CMS Demo Movie



### Funktioniert einfach.

Die cmsbox ist ein Web-Baukasten der nächsten Generation. Die Benutzeroberfläche ist nahtlos in die Webseite integriert: Alle Elemente, wie Texte, Links oder Bilder werden direkt auf der eigenen Internetseite bearbeitet und können bequem per Drag & Drop positioniert werden.

### Einfach professionell.

Die cmsbox sorgt dafür, dass die Webseite immer perfekt aussieht: Mit zentral definierten Formatvorlagen und einem flexiblen Spaltenlayout passen sich alle Inhalte automatisch an das individuelle Design der Webseite an.

>> Mehr sehen

>> Partner werden



HOME SITEMAP PDF SPEICHERN KONTAKT LOGIN

GO



# 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.

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

Your logo here

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

**Sign up now**

Or find out more...  
**How you create a database**  
**Free Commons account**  
**Our blog**  
**Contact us**

Existing user? [Click here to login.](#)

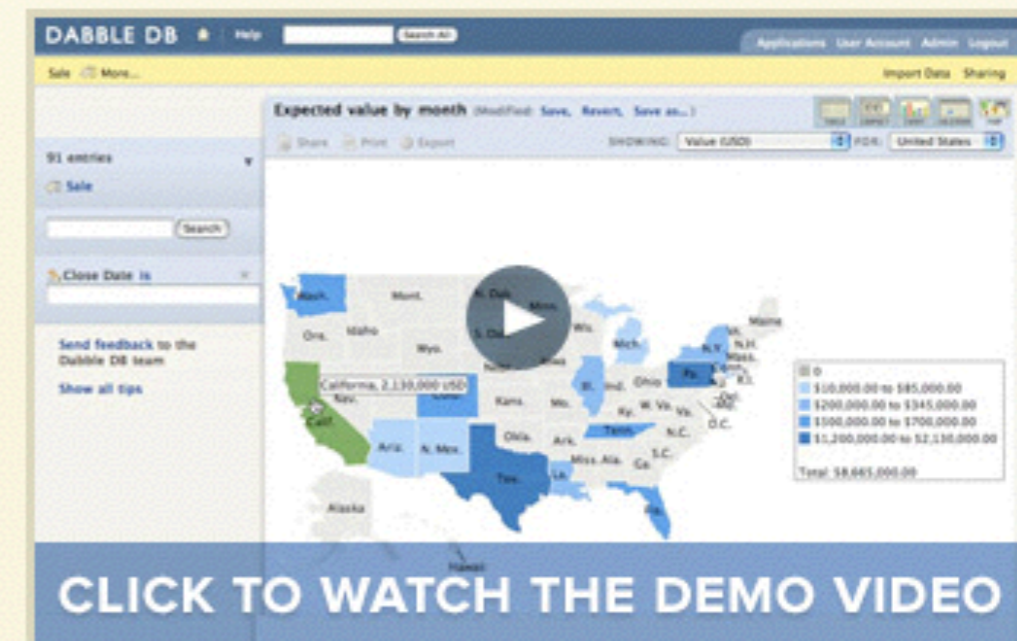
## Try Dabble DB right now Free for 1 month

Pricing starts at \$10 per month for private plans.  
Free for public data!

**Sign up: 1 Month Free Private Trial**

No credit card needed. Upgrade to a paid plan or to **Dabble DB Commons** at any time.

Not sure? [Watch our 8-minute demo](#) to see Dabble DB in action.



**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

# CONTENTS

### 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.





## Selling made easy

Wish you could **sell more** on eBay?  
Then start using **auctomatic**.

The screenshot shows the 'Inventory' management page in the auctomatic application. The interface includes a search bar, navigation tabs for 'Dashboard', 'Sell', and 'Manage', and a table of inventory items. The table has columns for SKU, Product Name, Unit Cost, In Stock, For Sale, Sold, and Folders. Several items are selected, including various MacBook and iPhone models.

SKU	Product Name	Unit Cost	In Stock	For Sale	Sold	Folders
MACBOOK_P...	MacBook Po...	39.00	0	0	2	Electronics
MACBOOK_P...	MacBook Pro...	59.00	7	0	1	Electronics
BELKIN_TRA...	Belkin iPod T...	39.00	3	2	2	Electronics
POWERBOOK...	PowerBook 17"	1100.00	1	0	0	Laptops, Dis...
IPOD_20GB	iPod 20GB	109.00	1	0	0	Electronics
CLAMSHELL...	Clamshell iB...	499.00	1	1	0	Laptops, Dis...
MACBOOK_P...	MacBook Pro...	1899.00	2	1	3	Laptops
IPHONE_4GB	iPhone 4GB	200.00	0	0	0	Electronics
IPHONE_8GB	iPhone 8GB	319.00	26	3	4	Electronics
MACBOOK_B...	Macbook (Bl...	1599.00	8	2	1	Laptops, Elec...
MACBOOK_W...	Macbook (W...	1399.00	11	2	2	Laptops, Elec...
IPOD_NANO...	iPod Nano 8GB	149.99	0	0	0	Electronics
IPOD_NANO...	iPod Nano 4GB	99.00	3	1	1	Electronics

*"Essential to anyone handling high volumes of listings"*  
— Pete Cashmore, Mashable



### Inventory Management

Stay on top of your stock



### Auctions

Create great-looking auctions quickly



### Pictures

Store and edit your pictures

[Take the tour](#)

OR

[Sign up now](#)



Demo

# Natural Flow



Seaside

http://localhost/seaside/example1?\_s=AXXWC Google

**First number**

New Session Configure

Seaside

http://localhost/seaside/example1?\_s=AXXI Google

**Second number**

New Session Configure

Seaside

http://localhost/seaside/example1?\_s=AXXI Google

**5**

New Session Configure Toggle Halos Profiler Memory Terminate XHTML 1/10 ms

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

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

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



Who cares about  
HTTP anyway?

seaside 

is different

Concentrate on  
your application ...



... no manual  
request parsing

... no XML  
configuration files



# 3 user interactions

3 lines of code

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

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

```
self inform: value1 + value2.
```




**X := A call: B**



**B**

answer:




**X** := 





# Challenges

- ★ Hide continuations from developers
- ★ Combine objects and continuations
- ★ Multiple control flow on a single page
- ★ Optimize the use of continuations



# 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%
Wyseier Christoph	6%
Lutz Niklaus	1%
Marschall Philippe	1%

Types



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

Register work

Reports

Filter

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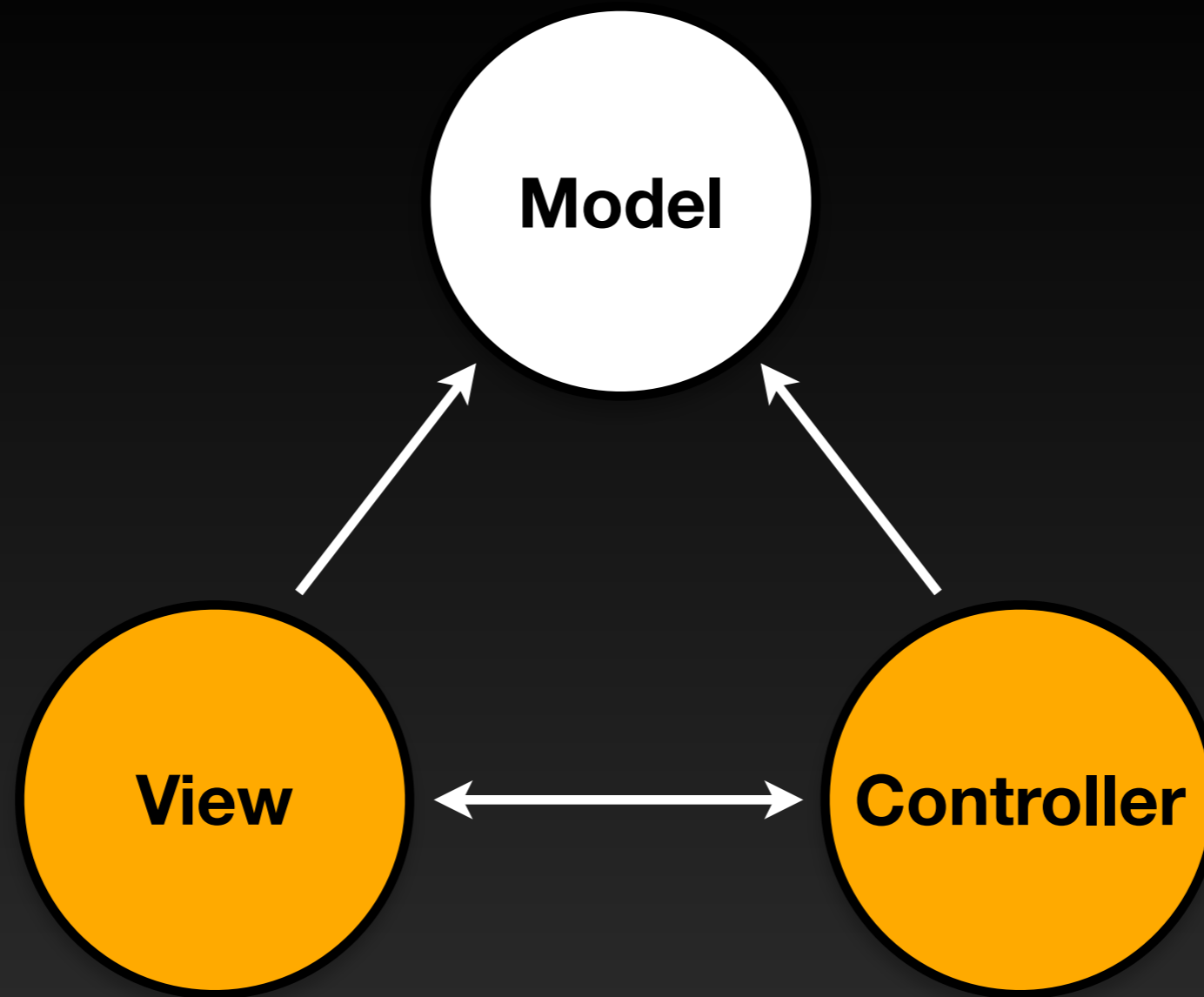


Components

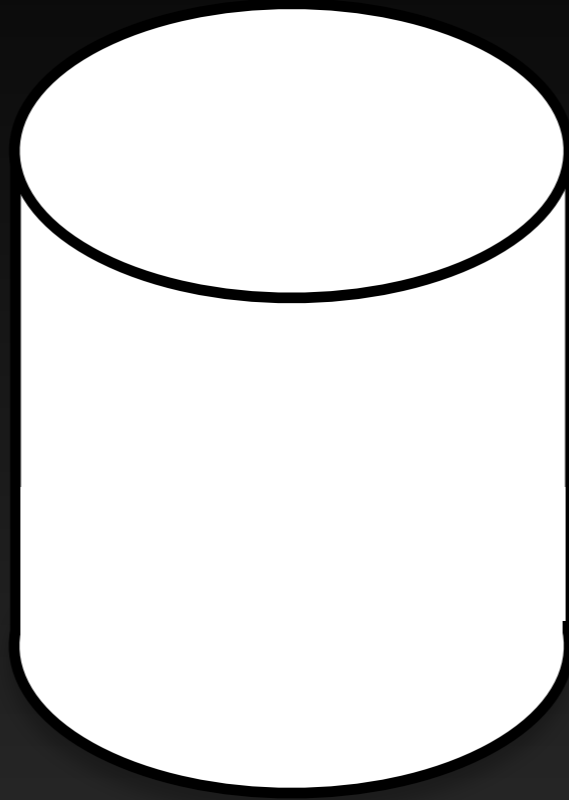
are cool



**Reuseable**



**Model, View, Controller**



**Persistent**



**Valid**



CSS  
Designer

# XHTML

Developer & Seaside

**DRY**

Don't Repeat Yourself

# Domain Specific Language



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>
```

Demo

A large, semi-transparent, dark gray letter 'B' is positioned on the left side of the image, serving as a background element. The text 'Secure by Default' is centered to the right of the 'B'.

**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=Ru8ZKgqjy0uDX3kf  
&_k=K5EQyqKE  
&32">Show Message</a>
```

A large, dark gray, stylized number '4' is positioned on the left side of the image. It has a thick, blocky appearance with a slight shadow effect.

**Web 2.0**





**AJAX**



Tight, but **optional**  
integration

Say it in Smalltalk

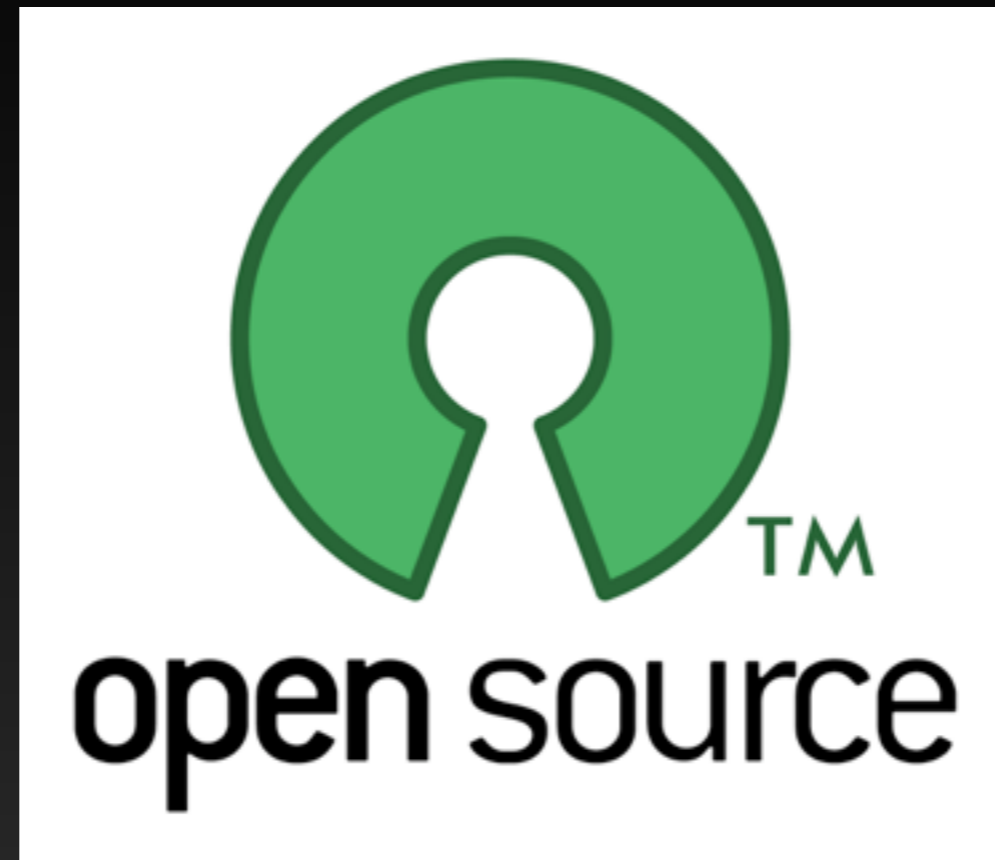


# Comet





**Seaside**



**MIT License**



**Squeak/Pharo**



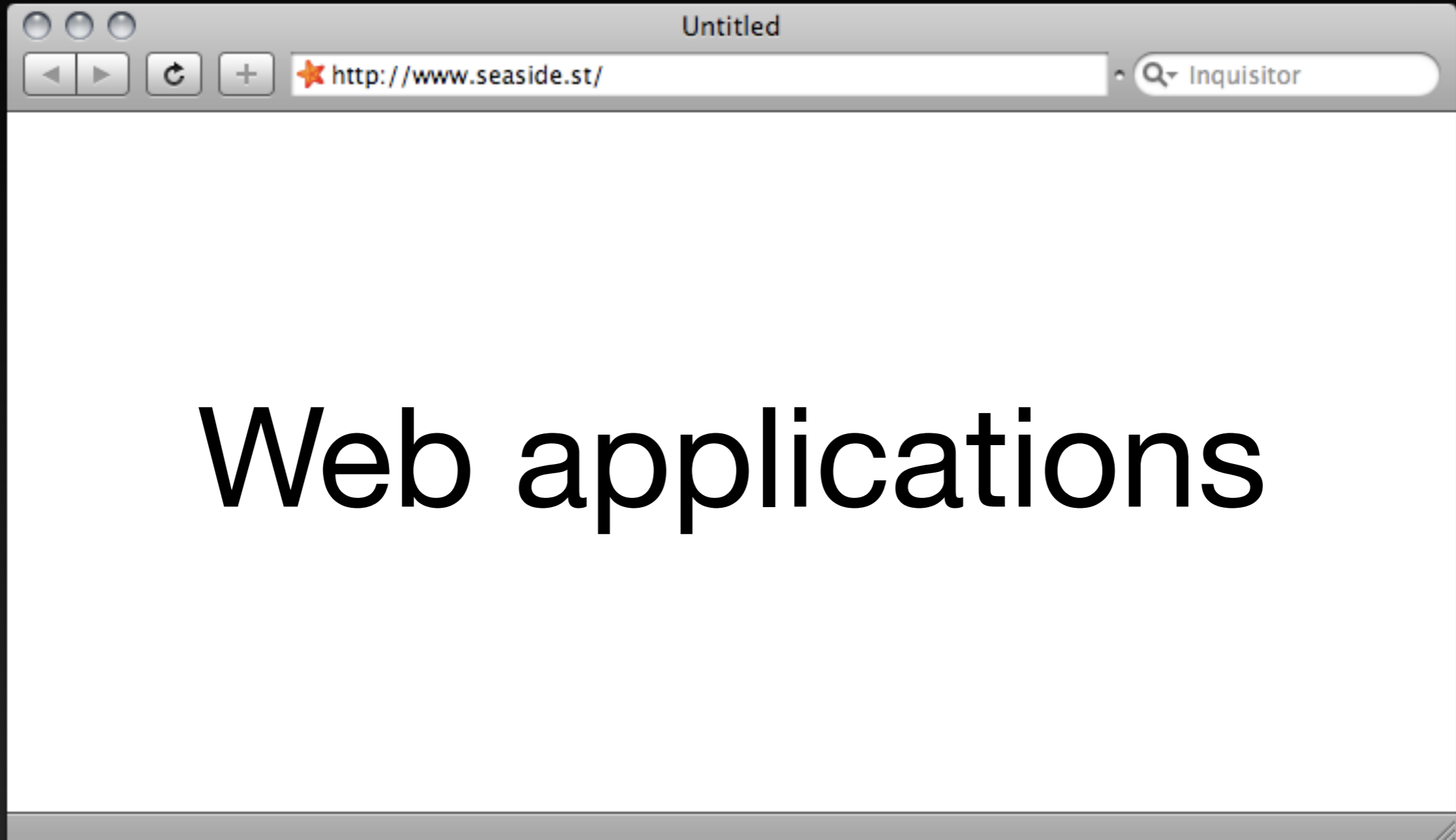
**GNU Smalltalk**

 **Cincom**®

  
**GEMSTONE**®



**Did you notice?**



Web applications

No URL fiddling

No request parsing

WACounter   

[R|S]

# Development tools



Control flow at ease

**seaside** 

[www.seaside.st](http://www.seaside.st)

[www.lukas-renggli.ch](http://www.lukas-renggli.ch)