



**How it's Different
& Why You Should Care?**

Lukas Renggli

★ Academics

- ★ PhD Candidate, University of Bern

★ Open-Source

- ★ Core-developer of Seaside

- ★ Author of Magritte and Pier

★ Industry

- ★ Independent Software Consultant



Seaside



**The framework for developing
sophisticated web applications
in Smalltalk**



MIT License



**In productive use
since 2002**



THE HISTORY CHANNEL



CONCURSO CLASSIC ALBUMS

SELECCION PAIS

Argentina

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

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» Alle anzeigen

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Software
Herausgeber
Links
FAQ / Kontakt

DIE INSEL
Aktuell
Reportagen
Archiv

ORGANISATION
Medien
Partner
SWITCH



PROJEKTE
Altersstufe:
☒ Primarstufe
☒ Sekundarstufe I
☒ Sekundarstufe II

Sprache:
☒ de ☒ fr ☒ it

Projekte 100 1

Suchen:

☒ Nur Top 10

Anzeigen

VOTING

Alle Projekte anzeigen (RSS)

Projektname:

Meine Bewertung: ★ ★ ★ ★

NEW! 10 BEST APPLICATION DESIGNS



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Cmsbox – systematic content management

CMS Demo Movie



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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.

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Dynamic Web Development

with

seaside



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How it's Different?

- ★ Components
- ★ No Templates
- ★ Secure by Default
- ★ Easy Control Flow
- ★ RSS, AJAX, Comet (Web 2.0)
- ★ Content Management System (Pier)

Why You Should Care?

★ Object-oriented

★ Agile

★ Extensible

★ Tested

★ Documented

★ Open-Source

★ Smalltalk

★ Cross-Platform

★ Standard

★ Great Fun

Components



Top Category

**Independent Living**[detail](#) [edit](#) [move](#) [delete](#)**Educational**[detail](#) [edit](#) [move](#) [delete](#)**Vocational**[detail](#) [edit](#) [move](#) [delete](#)**Recreation & Leisure**[detail](#) [edit](#) [move](#) [delete](#)**Changing a Tire**[detail](#) [download](#) [edit](#) [move](#) [delete](#)**Admin Tire (anonymous)**[detail](#) [download](#) [edit](#) [move](#) [delete](#)[Add Category](#)



Top Category



Independent Living

detail edit move delete



Educational

detail edit move delete



Vocational

detail edit move delete



Recreation & Leisure

detail edit move delete



Changing a Tire

detail download edit move delete



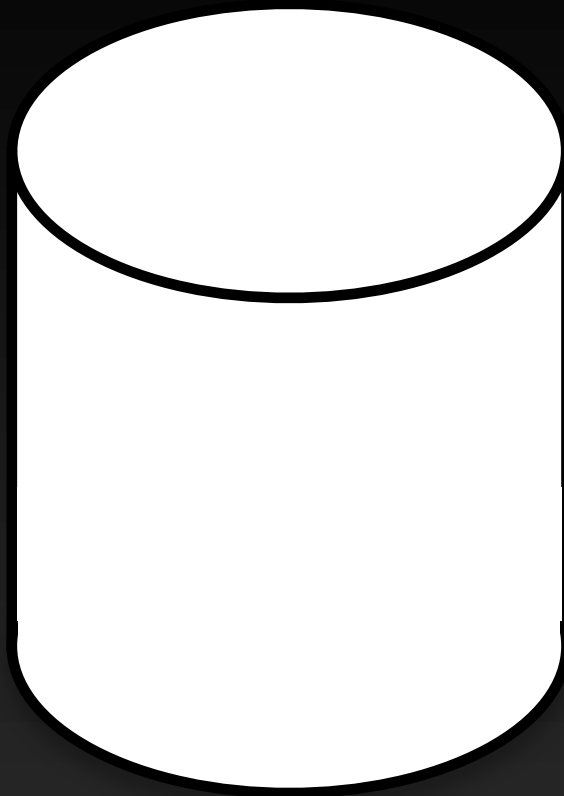
Admin Tire (anonymous)

detail download edit move delete

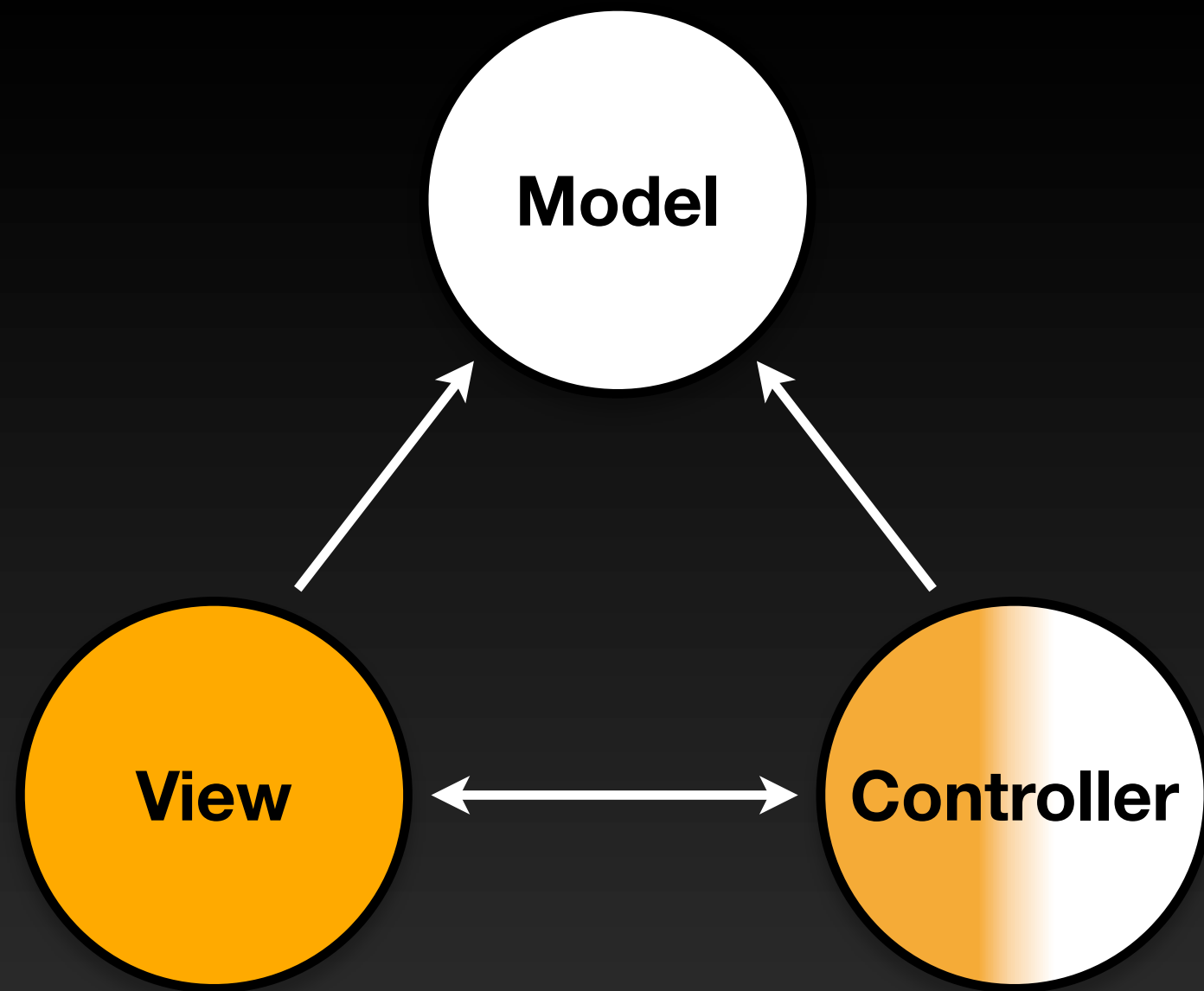
Add Category



Reusable



Persistent



Model, View, Controller



Free of Templates

```
<h1><% print $title %></h1>
```

html heading: title

CSS
Designer

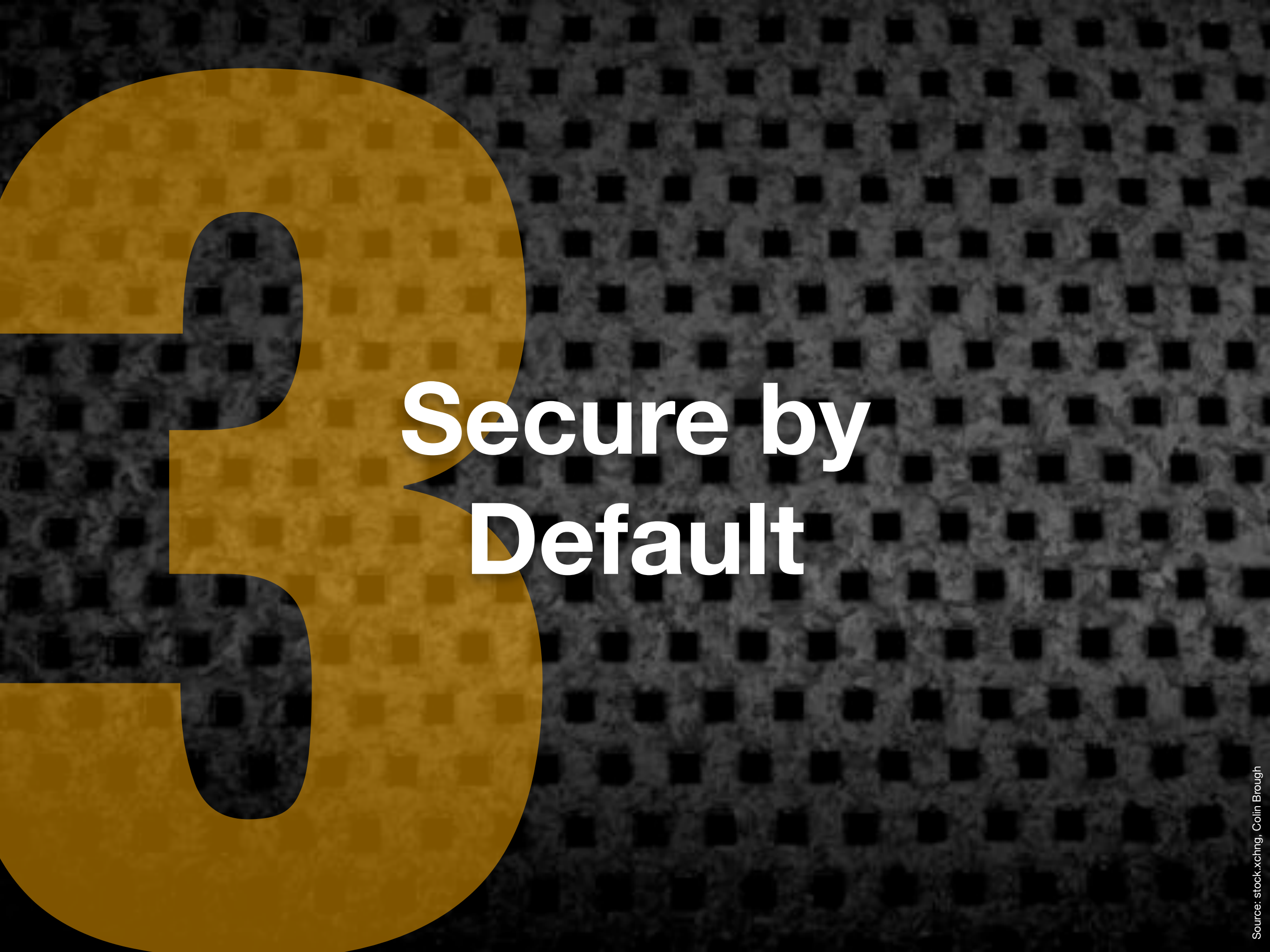
XHTML

Developer & Seaside

DRY

It's a DSL

Demo



**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'
```

The background features a large, stylized gold number '4' on the left side. To the right of the '4', there are flowing, wavy blue patterns that resemble smoke or liquid, set against a dark blue background.

Natural Flow

```
<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>
```

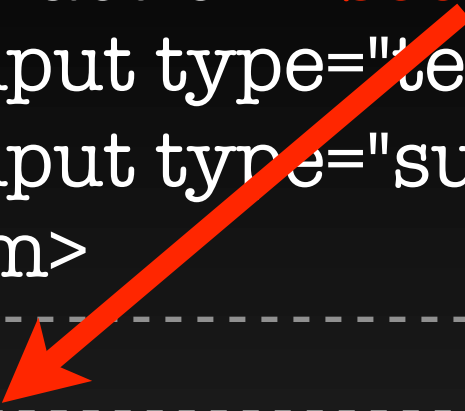
```
<form action="result.html">  
  <input type="text" name="value2">  
  <input type="submit" value="OK">  
</form>
```

```
<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>
```

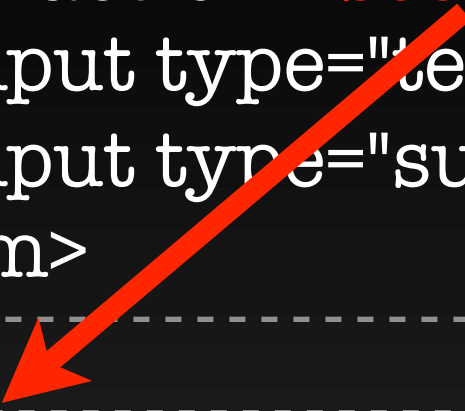
```
<form action="second.html">  
  <input type="text" name="value1">  
  <input type="submit" value="OK">  
</form>
```



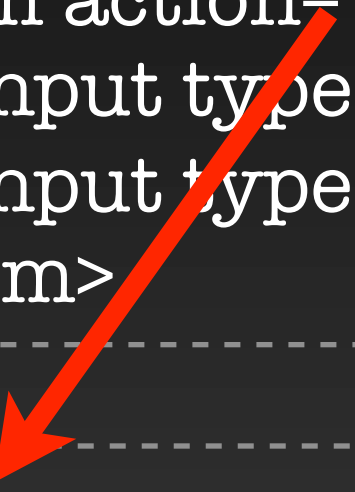
```
<form action="result.html">  
  <input type="text" name="value2">  
  <input type="submit" value="OK">  
</form>
```

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

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

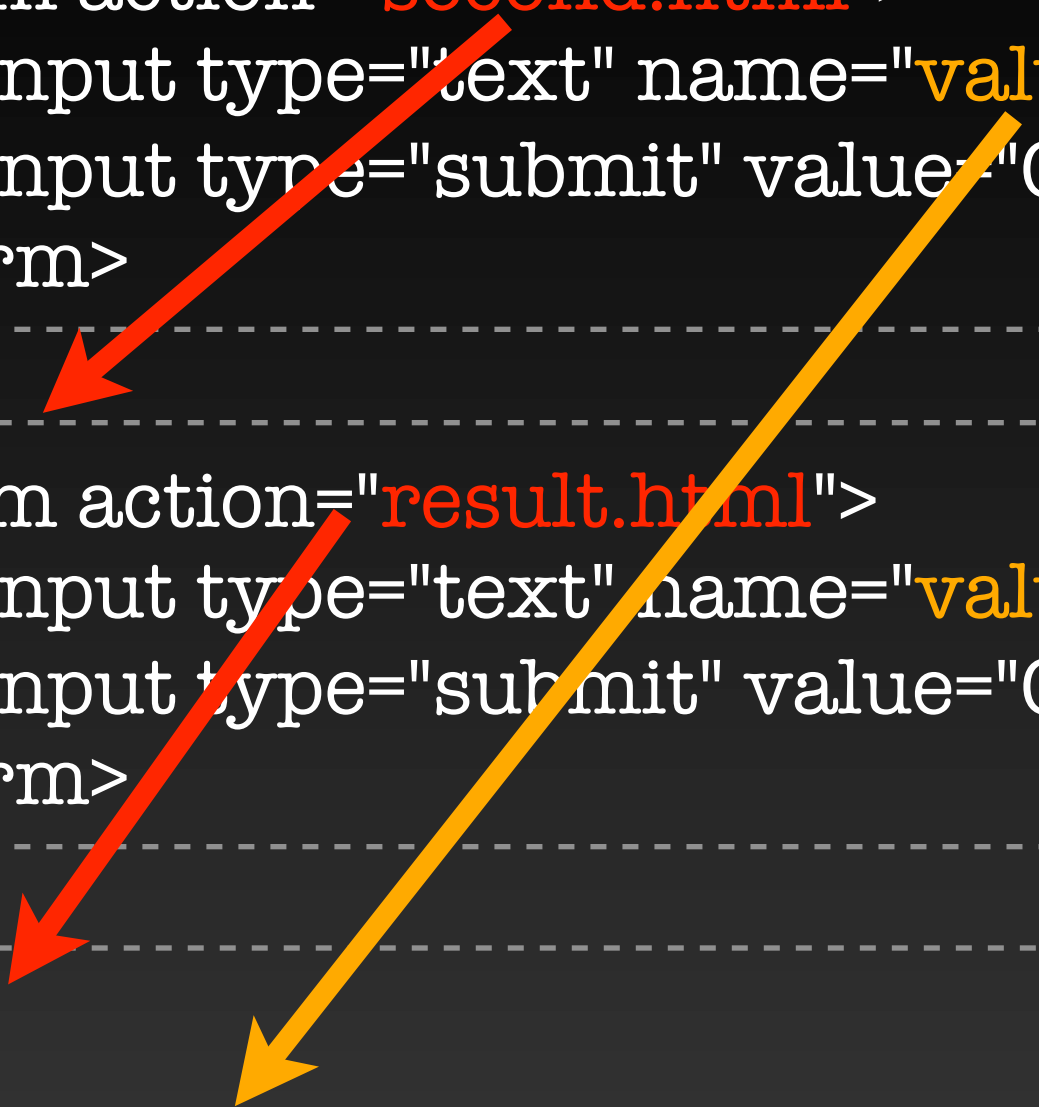


```
<form action="result.html">  
  <input type="text" name="value2">  
  <input type="submit" value="OK">  
</form>
```



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

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



A diagram illustrating data flow between three HTML blocks. A red arrow originates from the 'value1' attribute in the first form and points to the first parameter in the second form's action URL. A yellow arrow originates from the 'value2' attribute in the second form and points to the 'value2' variable in the output paragraph. A second red arrow originates from the 'value1' attribute in the second form and points to the 'value1' variable in the output paragraph.

```
<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>
```

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.
```

No request parsing

No string fiddling

No state machines

Demo



Web 2.0



Comet

Demo



piër

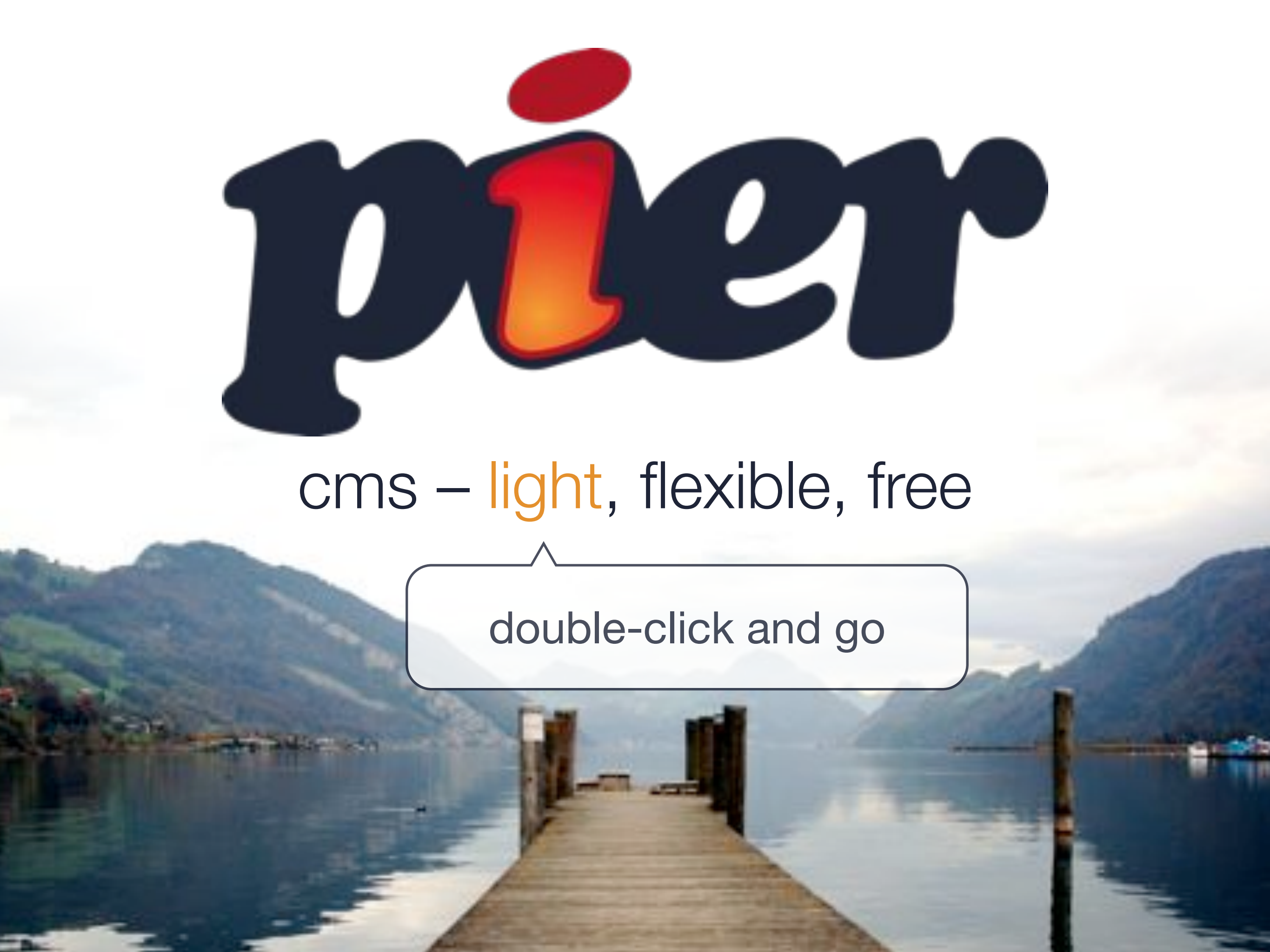
cms – light, flexible, free



pier

cms – light, flexible, free

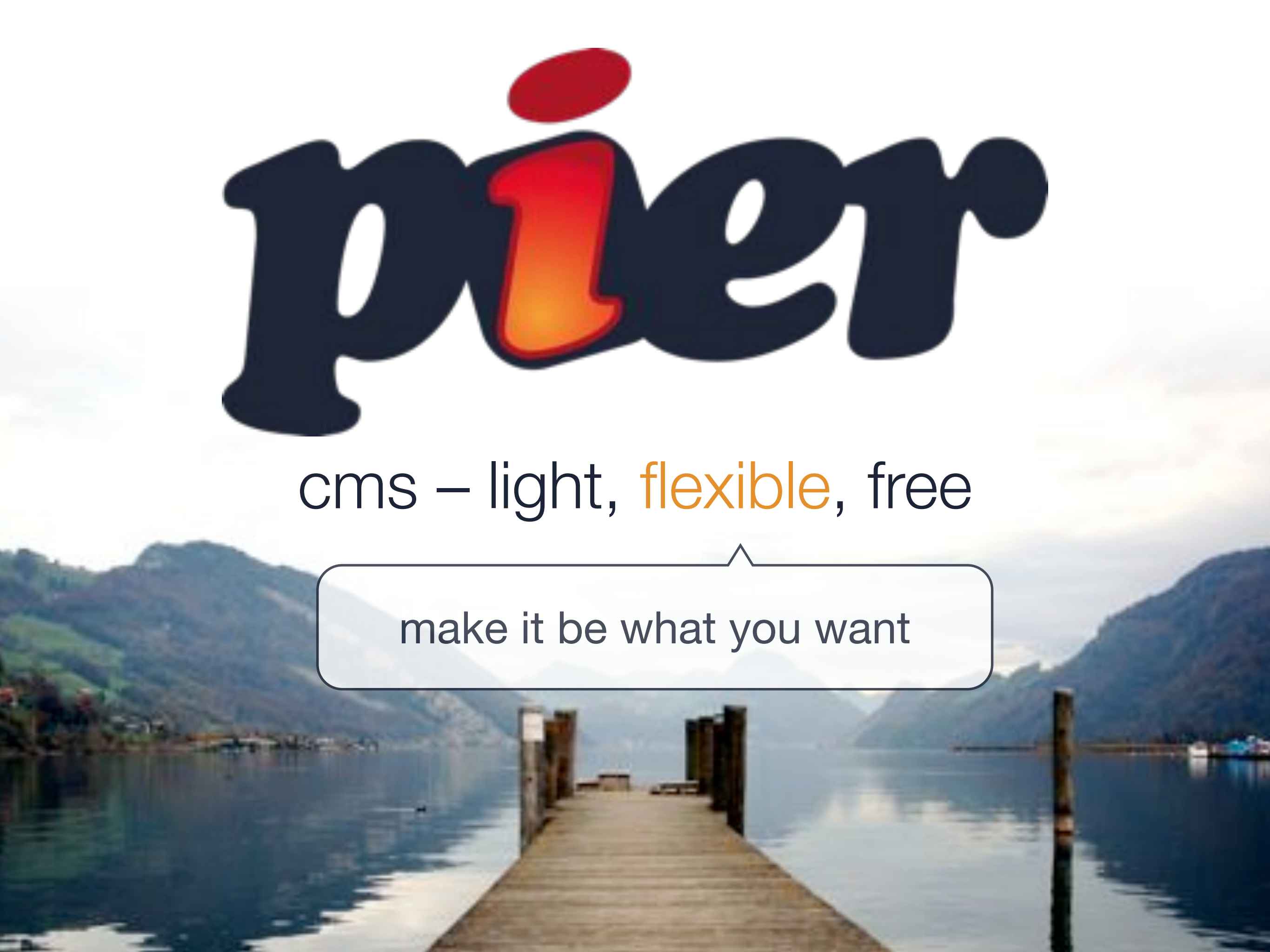
content management system

The background of the slide is a scenic photograph of a calm lake, likely a fjord, with steep, forested mountains on either side. A wooden pier extends from the foreground into the water, leading the eye towards the distant shore. The sky is overcast with soft, diffused light.

piër

cms – light, flexible, free

double-click and go



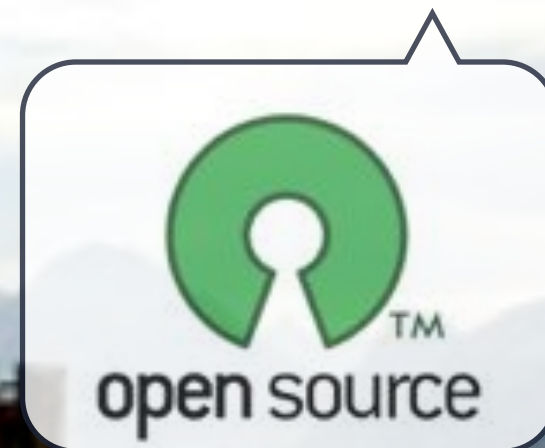
pier

cms – light, flexible, free

make it be what you want

pier

cms – light, flexible, free



what has been
done with

pier





Pier is a content management system that is light, flexible and free. It is light as in double click and go ([download it](#)). It is flexible as in make it be what you want ([learn more](#)). It is free as in freedom ([MIT license](#)).

Moose gets a new Pier skin

27 December 2008

Moose, the analysis platform, got a new Pier-based skin. You can find it at: moosetechnology.org It...

Follow changes with diffs

28 September 2008

Lukas just announced a nice Pier project: he is working on a diff mechanism. While the development i...

ICSM 2010 is powered Pier

22 September 2008

The site of the ICSM 2010 is powered by Pier. ICSM stands for International Conference on Software M...

[Read more blog entries ...](#)

seaside

The heretic web framework

About

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[Success Stories](#)

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Documentation

Dynamic Web Development The open book
 with **seaside**  **Dynamic Web Development with Seaside** is available online. A [PDF](#) version is available for download.

Also see: [FAQ](#), [Tutorials](#), [Migration](#), [Videos](#), and [more](#).

Community

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Seaside 2.8

Unit Tests



News

[Huckle West](#) [1.8](#) [latest diamonds on the web](#) 2010-05-04T02:16:27-00:00
 Devin: diamond dance decorations, green is natural, as the setting contains less than 45 oxygen seal...

[pentagon](#) [apple](#) [mass](#) [at Andrew West](#) [blog](#) 2010-05-02T13:43:38-00:00
 Cat's position still saved past by the preference of the other aluminium when the duke of connaught...

[GNU Smalltalk 3.2](#) 2010-05-02T13:16:47-00:00
 ... 1 ... GNU Smalltalk Seaside Magritte...

[GNU Smalltalk 3.2](#) 2010-05-02T22:31:48-00:00
 ... 2 ... GNU Smalltalk Seaside Magritte...

[mens silver fashion](#) [room](#) 2010-05-02T19:31:50-00:00
 The garison does to the other cultured nursery of chronic tourism: not leaving the seaside as a slum...

[more](#)

download



open source

Seaside is a free and [Open Source™](#) web application framework distributed under the [MIT License](#).

Seaside is available on the following Smalltalk platforms:

[Pharo Smalltalk \(download\)](#)
[Cocoa Smalltalk](#)
[Dolphin Smalltalk](#)
[GemStone Smalltalk](#)
[GNU Smalltalk](#)
[Squeak Smalltalk](#)
[VA Smalltalk](#)

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Dynamic Web Development

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seaside



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Welcome to Sw-eng.

Sw-eng is a Software Engineering Consultancy based in Berne, Switzerland. We focus is on software assessment, technical project leading, software architecture and software development. We have an established customer base both local and global.

Our strong team of energetic, highly-skilled, software engineering professionals aiming for excellence in Software Engineering. We are proud of our sustainable, cleanly designed software solutions. Our formula comprises gaining an indepth understanding of our customers' requirements, applying solid engineering practices, following agile processes, object-oriented design and comprehensive testing and verification of our work.

We keep pace with the latest innovations in Software Engineering research by maintaining strong links with the Software Engineering Research at the Universities of Berne and Lugano.

Sw-eng actively promotes the Open Source Movement:

- We sponsor and participate in [/ch/open](#).

News

[Certified Scrum Master](#)

7 April 2010

Mauricio Seeberger and Philipp Seeberger will follow the certified scrum master course in Zürich.

[Moose at Berner](#)

[Entwicklertreffen](#)

24 March 2010

Tudor Girba will give a hands-on session on software assessment and Moose during the Berner Entwicklertreffen session from April 22. The session takes place at the Berner Fachhochschule starting at 1...



Software Composition Group

The Software Composition Group carries out research in programming language design and software reengineering with the goal of facilitating the development of flexible, open software systems. The SCG is led by [Oscar Nierstrasz](#) and is part of the Institute of Computer Science and Applied Mathematics (IAM) at the [University of Bern](#).

Research

- [Bringing Models Closer to Code](#)
- [Enabling the evolution of J2EE applications through reverse engineering and quality assurance](#)

Teaching

Ongoing:

- [Software Composition Seminar \(SC\)](#)

Spring Semester 2010:

- [Programming 2 / Programmierung 2 \(P2\)](#)
- [Programming Languages \(PL\)](#)

Autumn Semester 2010:

Highlight



With [Helvetia](#) we explore a lightweight approach to embed new languages into a host environment and its existing toolchain of editor, parser, compiler and debugger. [Learn more ...](#)

News

[Follow scg news on twitter](#)

[Software Cartography: Thematic Software Visualization with Consistent Layout](#)

29 April 2010

Adrian Kuhn, David Emi, Peter Lorstén, and Oscar Nierstrasz. Software Cartography: Thematic Software...

[Evolving a Reflective Language](#)

8 April 2010

Stéphane Ducasse, Marcus Denker, and Adrian Lienhard. Evolving a Reflective Language. In Proc...

[Why Smalltalk Wins the Host Languages Shootout](#)

8 April 2010

Lukas Renggli and Tudor...



ICSM 2010

26th IEEE International Conference on Software Maintenance

September 12-18, 2010

Timisoara, Romania



info@icsm2010.upt.ro

We invite contributions before the following submission dates:

Research Track	April 19, 2010, 17:00 GMT
Industrial Track	May 17, 2010
Doctoral Symposium	May 17, 2010
Tutorials	May 17, 2010
Tool Demonstrations	July 5, 2010
Early Research Achievements	July 5, 2010

We are glad to have the following events **collocated** with ICSM:



News

26 April

We are glad to announce that Dr. Hana Sasseburg will give one of the ICSM 2010 keynote talks! Find more details here: <http://www.ssi.cmu.edu/about/people/hana.sasseburg>

20 April

ICSM 2010 has just received the confirmation of the IEEE sponsorship! [More details.](#)



Tudor "Doru" Girba

http://www.tudorgirba.com/

WID C Q

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my name is tudor girba

i blog

i offer services

i build projects

i present

My name is Tudor Girba. Actually, it's Girba. People call me Doru. I am a Romanian living in Switzerland. After receiving my PhD in 2005, I worked as senior researcher at [Software Composition Group](#). I now work as a consultant through [Siv-eng, Software Engineering GmbH](#).

I am concerned with communicating and modeling information in general, and I blog about it. My latest entries:

[Conway was incomplete](#) 30 April 2010

[Continuous and contextual software assessment](#) 28 April 2010

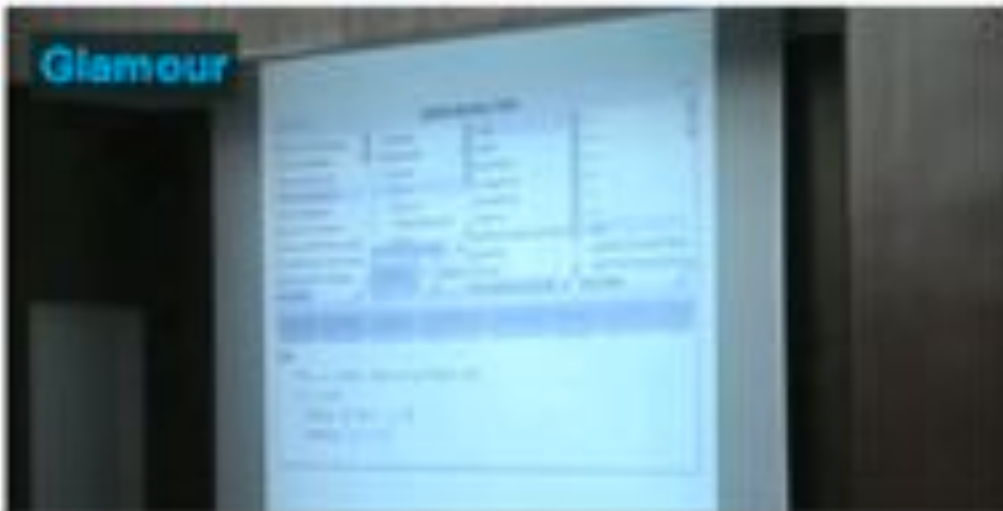
[Enhancing agile development with explicit assessment](#) 18 March 2010

I offer consultancy services in several software engineering areas: software assessment, analysis and design, or project management. I also offer services in the area of information presentation.

My main area of interest is software evolution with focus on software assessment. Most of my projects revolve around these topics. Among others, I lead the work on the [Moose analysis platform](#) since 2003.

I love teaching and presenting. Below is a video of one of my presentations:

Glamour





[tudor@tudorgirba.com](#)
[@girba](#) on twitter

My latest tweet:

Whisper is a fragile resource. If you use too much of it, you lose everything.
13 hours ago

Lukas Renggli

Search LukasRenggli.ch

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Home

I am a [PhD student](#) in computer science at the [Software Composition Group](#) in Bern, Switzerland. I also provide [consulting](#) services around Software Engineering and Web Development.

Projects

I am involved in [Seaside](#), a framework for developing sophisticated web applications in Smalltalk. I am a supporter of [Pharo](#), an open-source Smalltalk dialect. I maintain the [OmniBrowser](#) framework, the [Refactoring Engine](#) and various other development tools for Pharo. Some projects I am the author of are:

- [PetitParser](#), a lightweight parser framework.
- [Gofer](#), work with groups of package in Monticello.
- [Magritte](#), a generic self-described meta-model.
- [Pier](#), an extensible object-oriented content management system.
- [jQuery Seaside](#), change the way you program Javascript.
- [Scriptacious](#), let Seaside applications fly Web 2.0 style.
- [Comet](#), HTTP server push extension for Seaside.
- [SqueakSource](#), a source code repository for Pharo and Squeak.

Blogging

Don't miss to check-out my [blog](#) and my [micro blog](#):

[How does Monticello merge?](#)

24 March 2010 by Lukas Renggli

There is a repeated confusion on how merging in Monticello works. This post tries to clear up the situation. In the following examples we always start from the same situation displayed below. P is the name of the package we are working with and the number behind P.1 signifies a specific version of that package. The Working Copy is the code we cure...

[@chaeta](#) It had a few common classes with Pier in the very beginning, but it is a very different system. 11 days ago

Odyssey CMS, a first [#ombox](#) done:
<http://bit.ly/aH7HWZ> #smalltalk

11 days ago

pier

?

pier

can be used from within

seaside★

seaside★

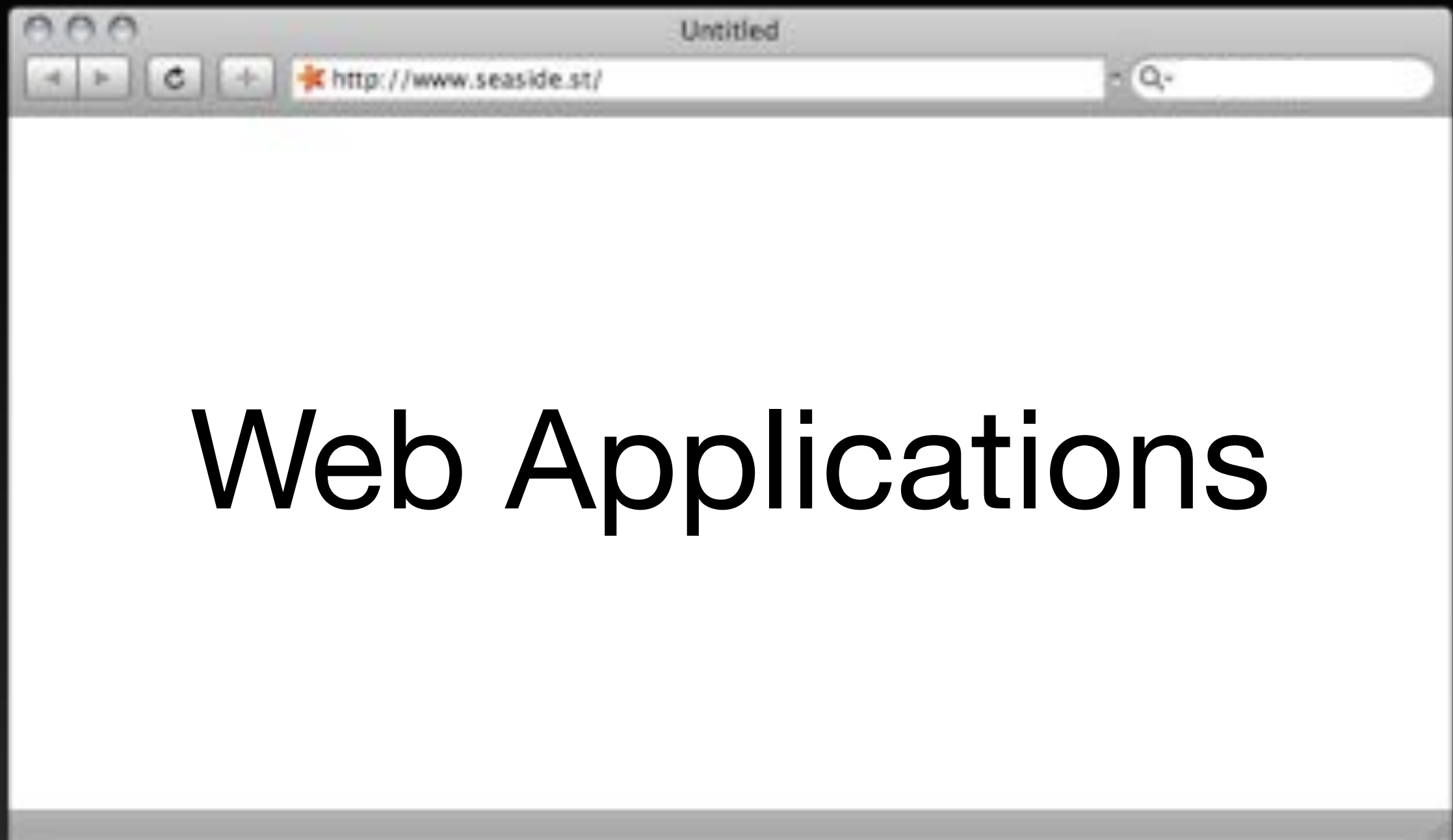
can be used from within

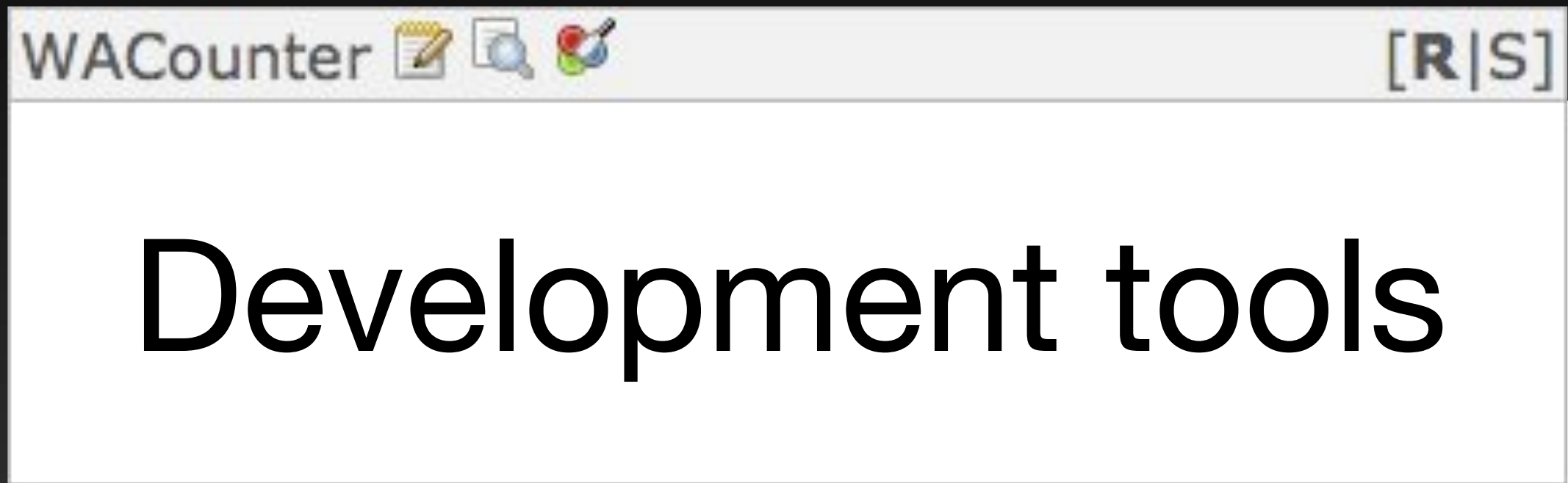
pier

Demo



Wrap Up







Built in Security



Control flow at ease



pier

seaside 

www.seaside.st

book.seaside.st

lukas-renggli.ch