

vaadin }>

Marcus Hellberg – Senior Vaadin Expert

Today's agenda

Presentation: Vaadin introduction

Presentation: Vaadin fundamentals

Lab 1: Building our first Vaadin app from scratch

Lab 2: Vaadin and Bluemix

Lab 3: Migrating a legacy view to Vaadin using Vaadin Designer

Presentation: Mobile applications

What is Vaadin?

Java API for HTML5 apps

WELCOME

QuickTickets Dashboard

Username



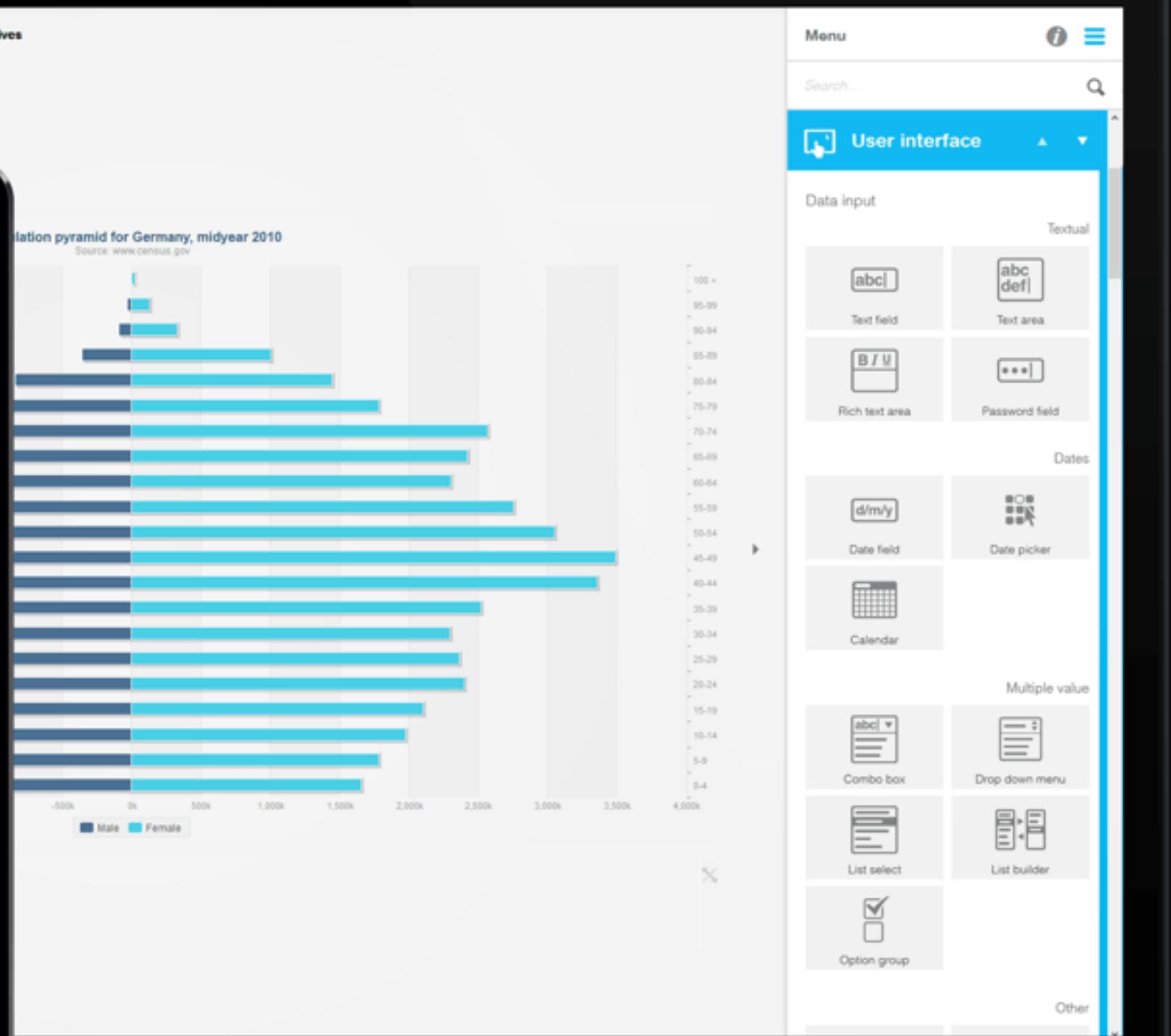
Password

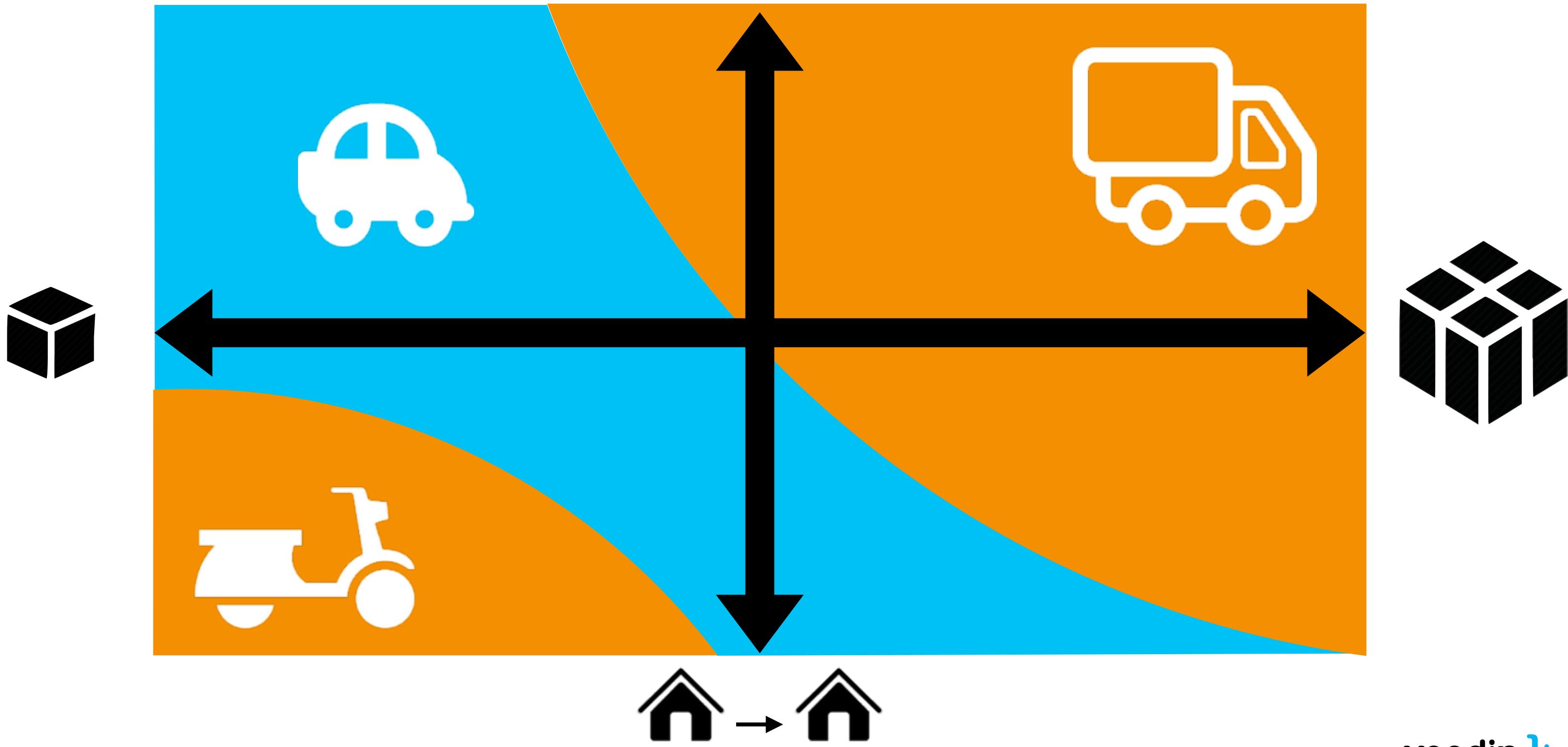
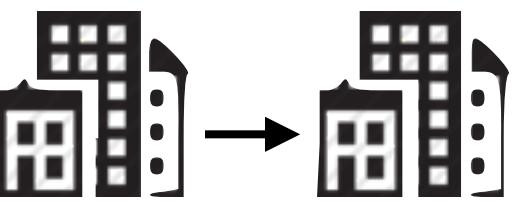


Sign In

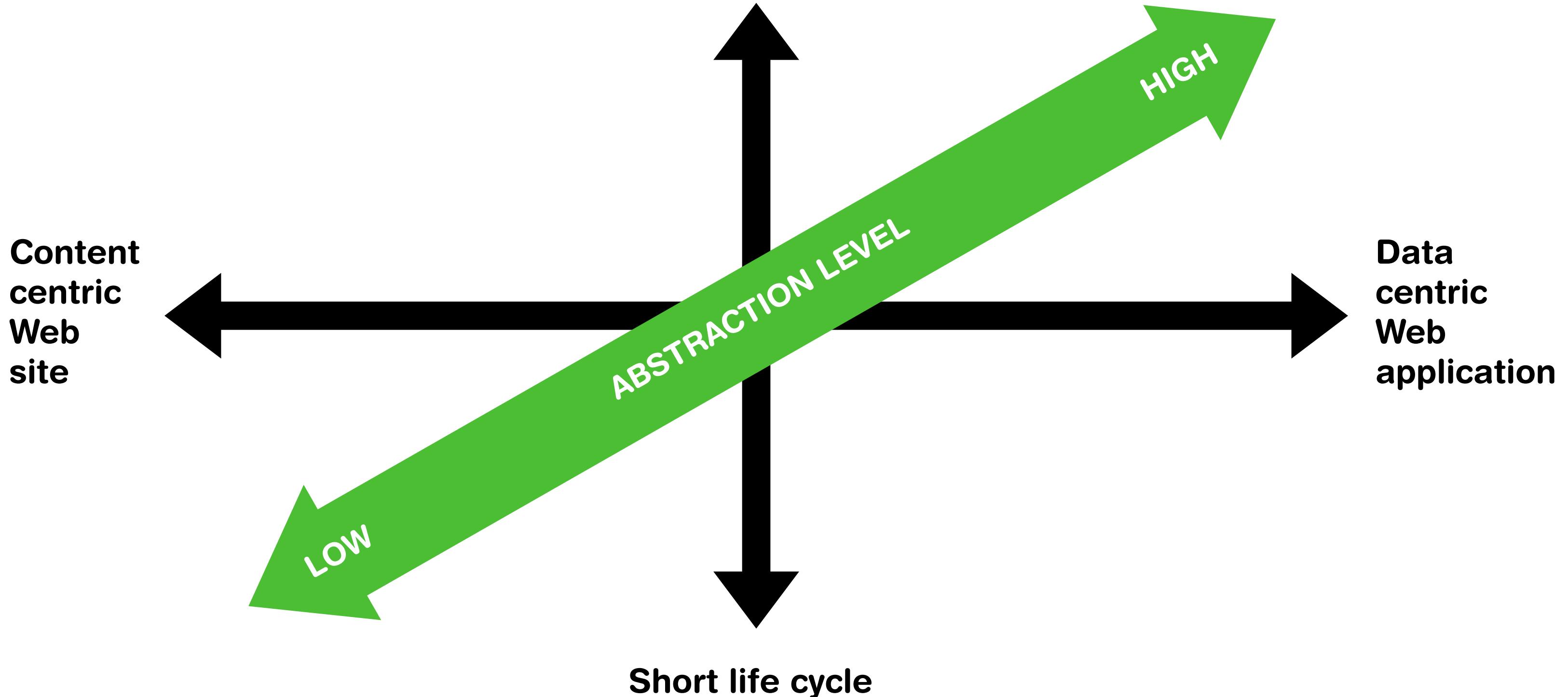


Remember me

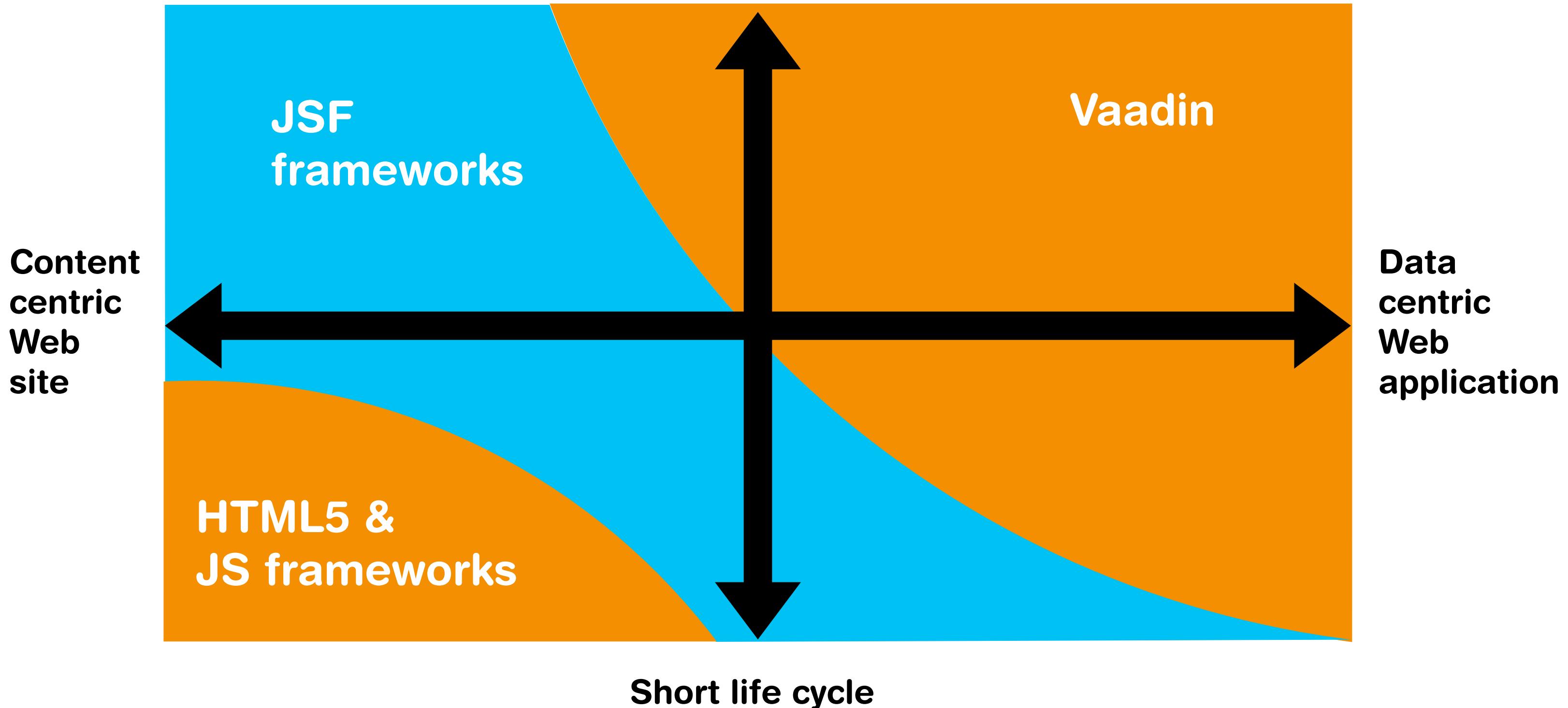




Long life cycle

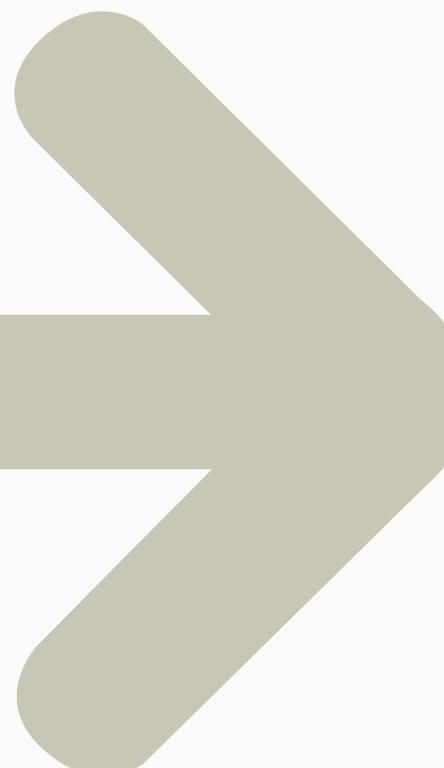


Long life cycle



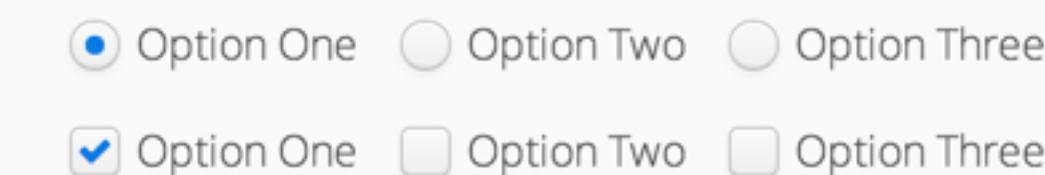
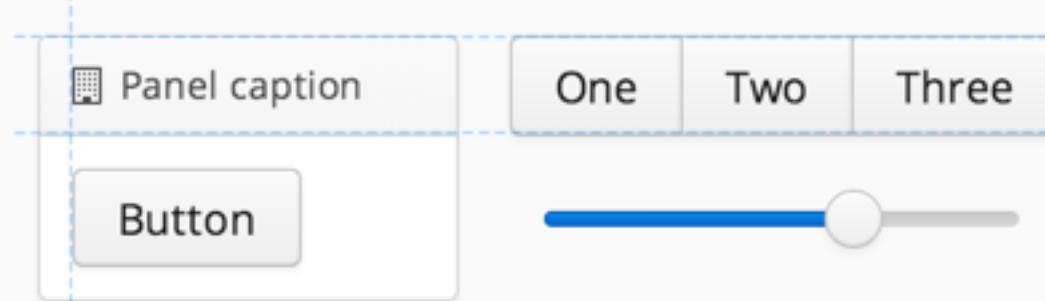
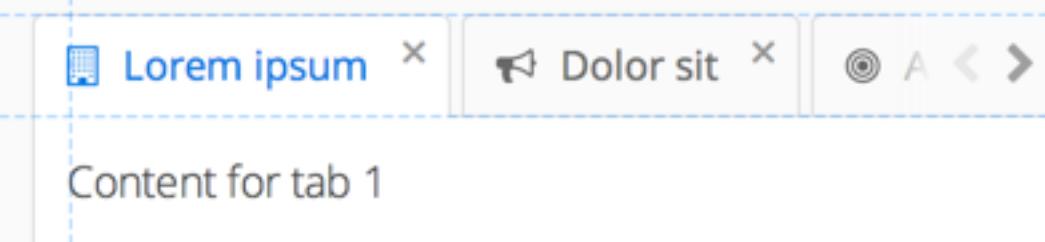
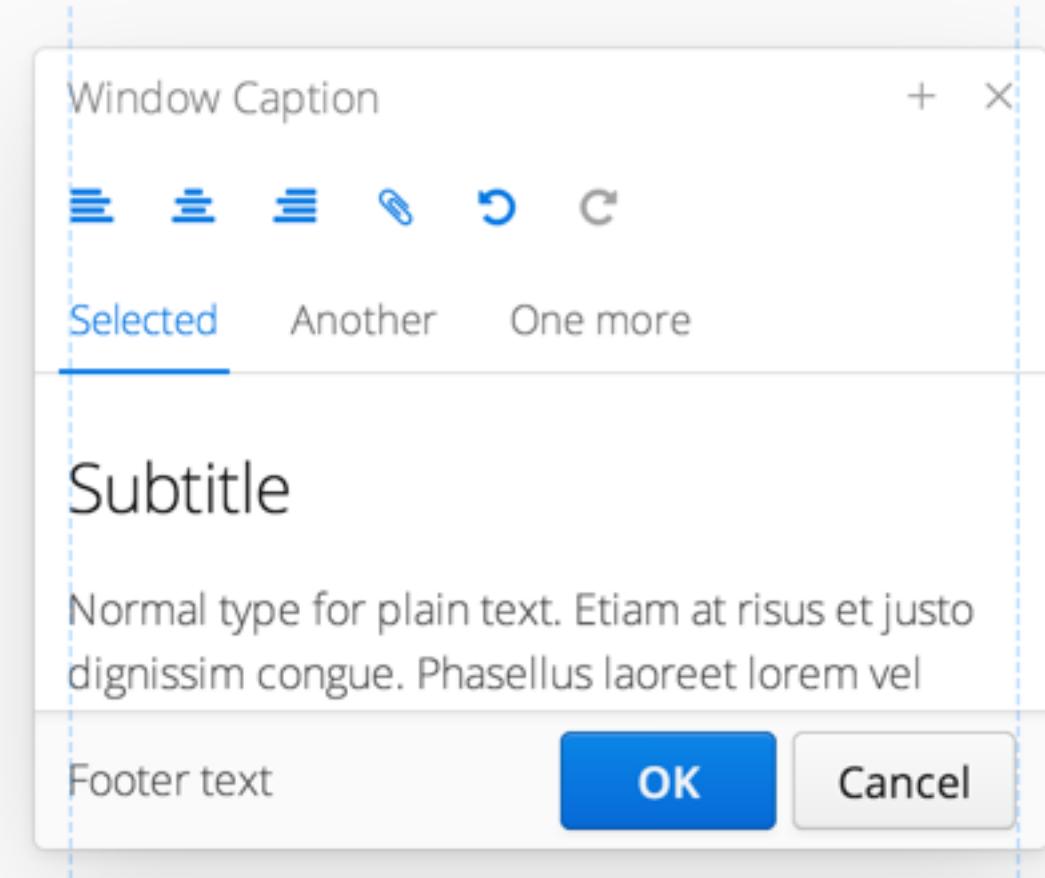
focus on productivity

User Interface Components



| |
|---------------|
| 9/2/14 |
| Option One |
| Option One |
| Option Two |
| Option Three |
| me@vaadin.com |
| Drop down |

| caption | description |
|------------------|-----------------------|
| Lorem ipsum | Dolor sit amet |
| Consectetur quid | Securi etiam tamquam |
| Eu fugiat | Nulla pariatur lorem |
| Ipsum dolor | Sit amet consectetur |
| Quid securi | Etiam tamquam eu |
| Fugiat nulla | Pariatur lorem ipsum |
| Dolor sit | Amet consectetur quid |



Server side

Server

Handled by Vaadin

50% less code

Write everything in Java

(or another JVM language like Scala, Groovy...)

Powerful theme builder

Combo Box

Combo box

Dropdown pressed

Focused

- Mauris iaculis
 - Porttitor posuere
 - Praesent id
 - Sed auctor neque
 - Eu tellus
 - Porttitor posuere
 - Praesen
 - Sed aucto
 - Eu tellus rhoncus
 - Quisque eget odio praesen

1-10 / 299

Combo Box

Focused field

- Mauris iaculis
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1-10 / 299

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1-10 / 299



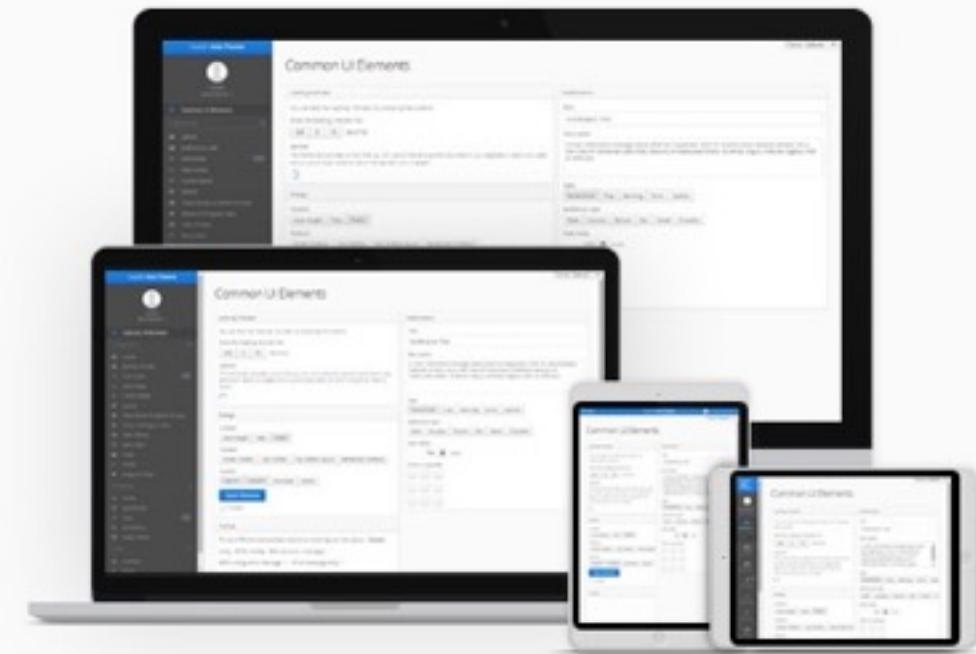
9/14



9/14



9/14



Apache 2.0

40% of Fortune 100 companies use Vaadin

150k+ active developers

#2 Java Web Framework

according to Open HUB stats

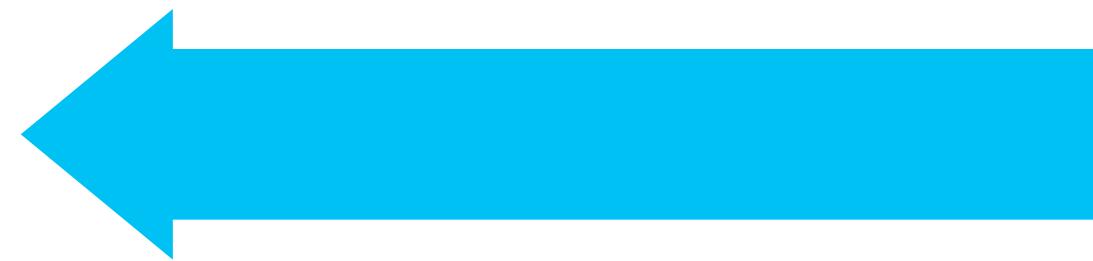
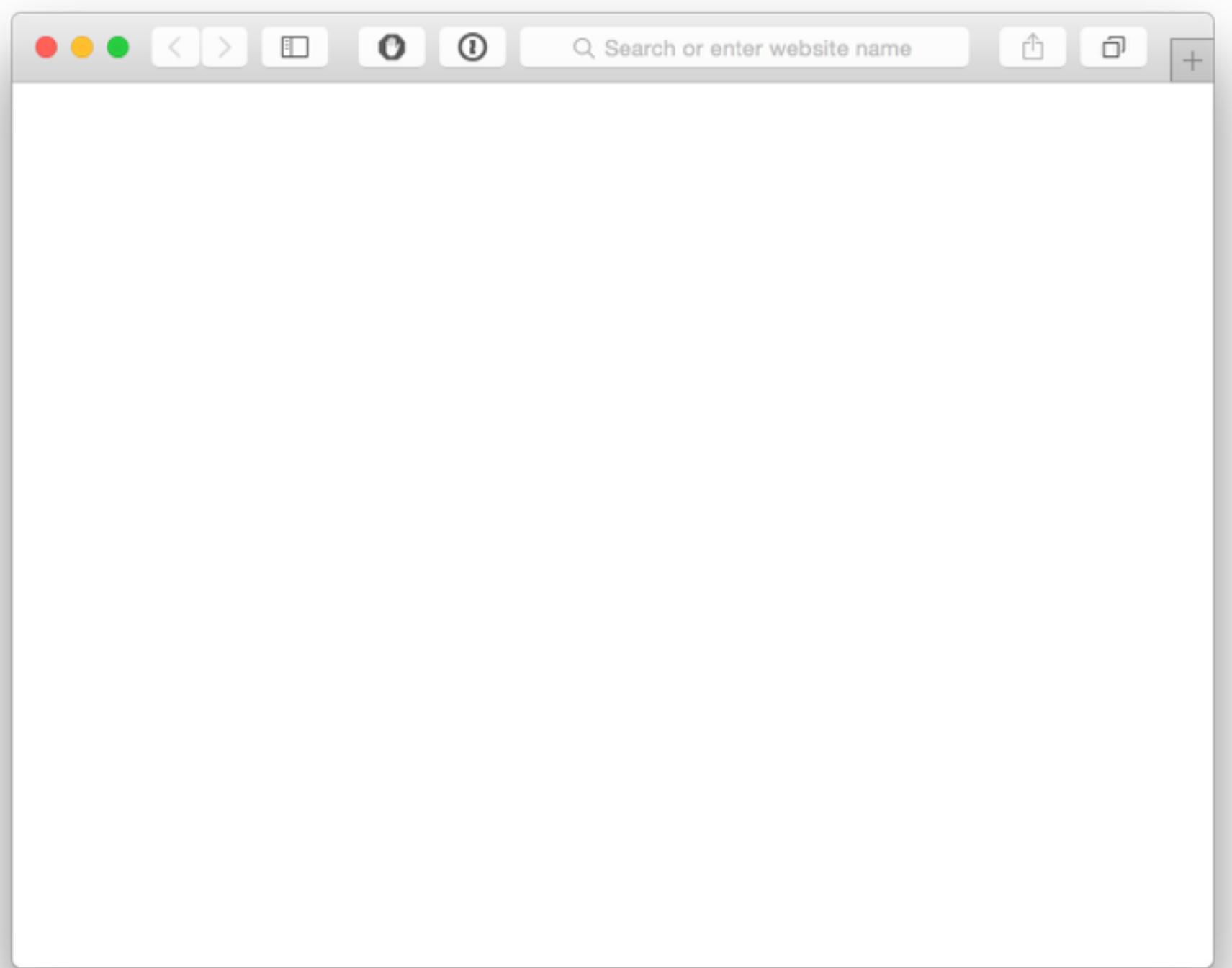


vaadin }>

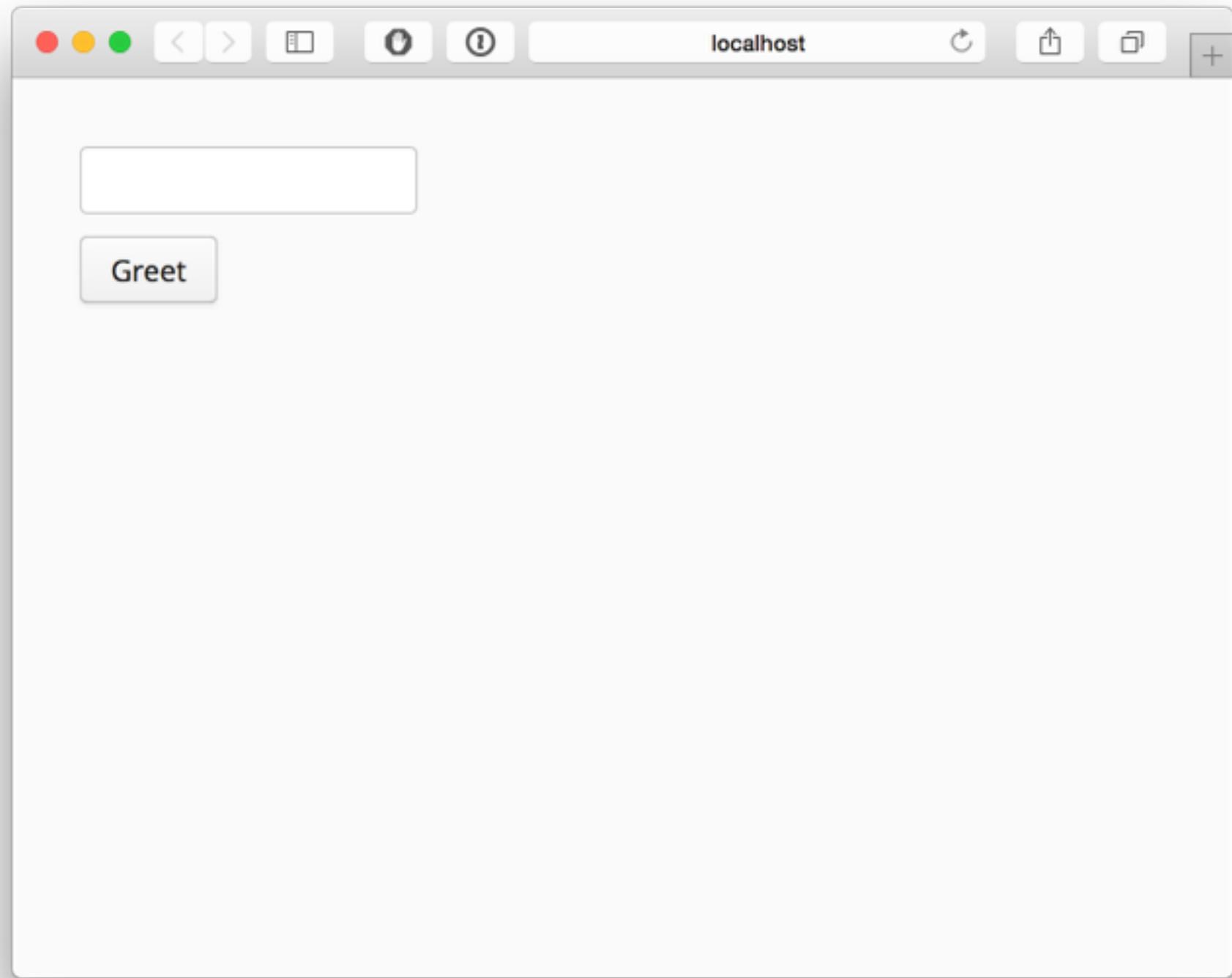
Show me the code

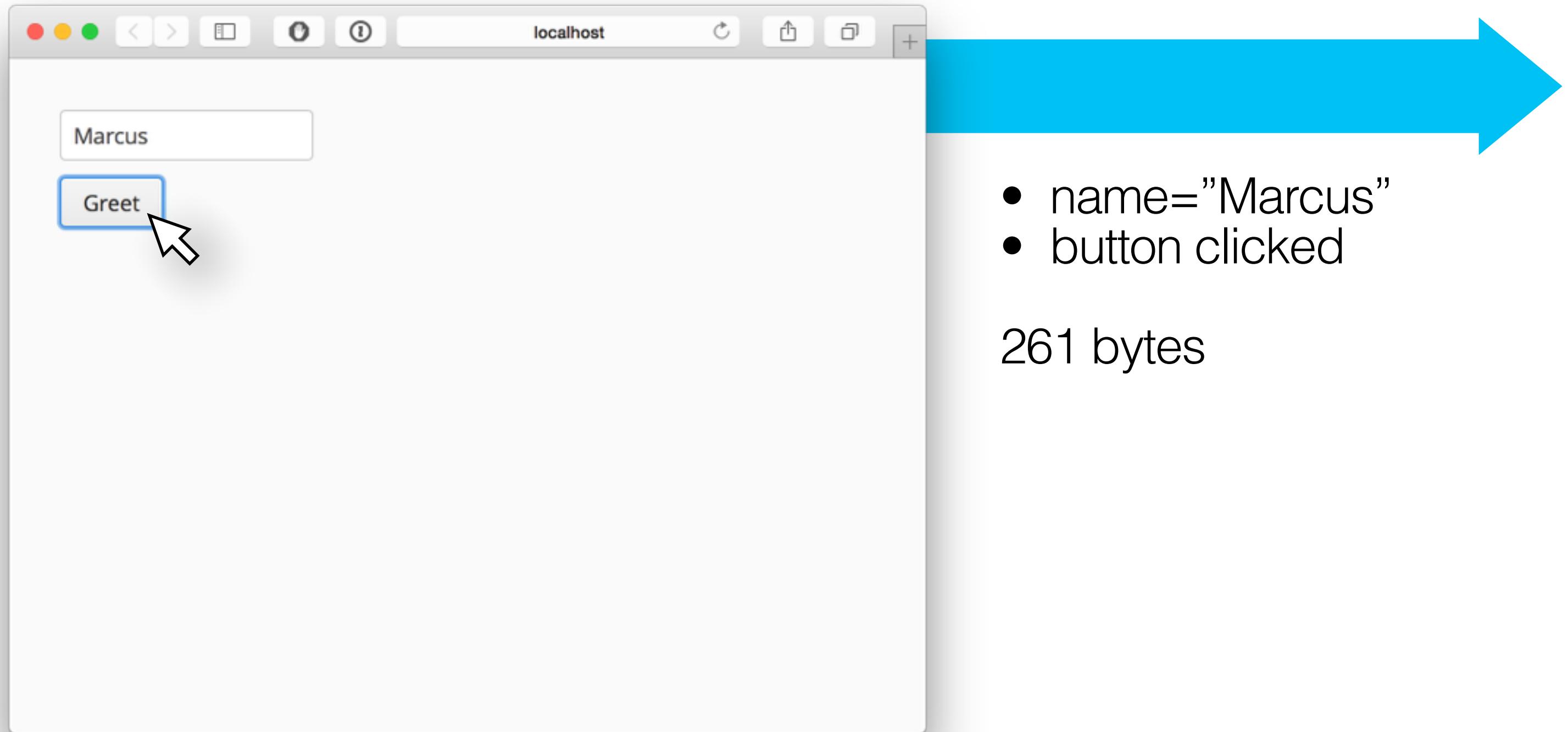
```
TextField name = new TextField();
Button button = new Button("Greet");
layout.addComponent(name, button);

button.addClickListener(event ->
    Notification.show("Hi, " + name.getValue()));
```



- ★ Initial HTML
- ★ CSS (theme)
- ★ JavaScript



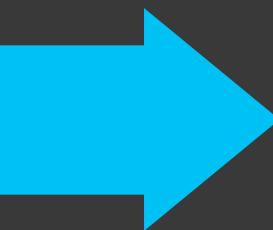


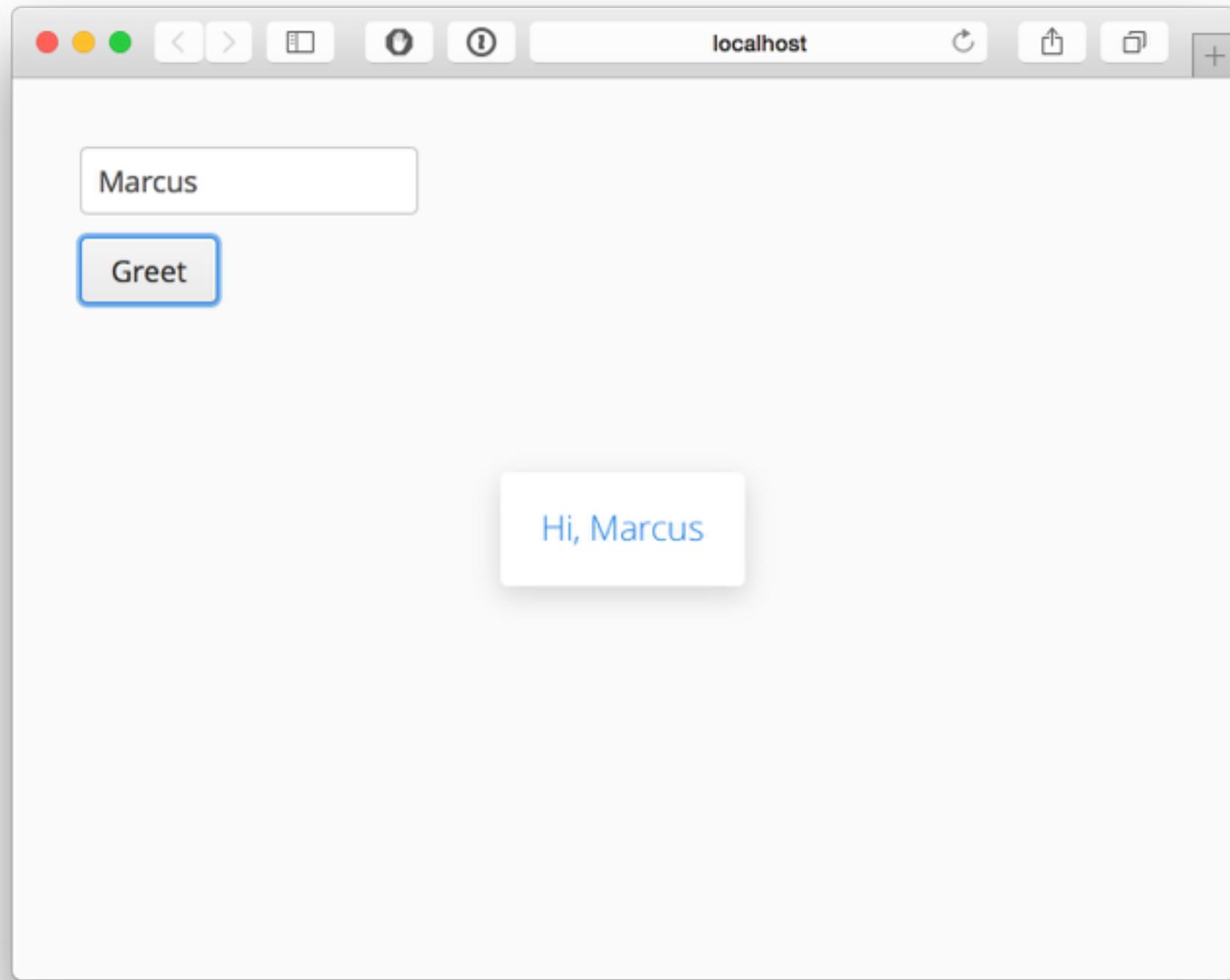
- name="Marcus"
- button clicked

261 bytes

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TextField name = new TextField();
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layout.addComponent(name, button);
```

```
button.addClickListener(event ->
    Notification.show("Hi, " + name.getValue()));
```





- name="Marcus"
- button clicked

261 bytes

- Add notification

267 bytes

Other features

Responsive layouts

The image displays three overlapping screenshots of a Vaadin application interface, specifically a dashboard for 'QuickTickets'. The interface is designed with a dark theme and features a sidebar on the left containing user information and navigation links.

Left Screenshot: Shows the main dashboard view with several key metrics and charts. At the top are two cards: 'Traffic' (61K) and 'Revenue / Day' (\$93M). Below these are sections for 'TOP GROSSING MOVIES' (a horizontal bar chart showing movie titles like 'The Book of Life' and 'Fury') and 'TOP 10 TITLES BY REVENUE' (a list of movies from 'The Maze Runner' to 'Dracula Untold').

Middle Screenshot: Shows a similar dashboard layout but with different data. The 'Revenue / Day' card shows a higher value of \$93M. The 'TOP GROSSING MOVIES' chart includes 'Gone Girl' and 'The Best Of Me'. The 'TOP 10 TITLES BY REVENUE' list is identical to the first screenshot.

Right Screenshot: Shows another variation of the dashboard. The 'Revenue / Day' card shows a lower value of \$93M. The 'TOP GROSSING MOVIES' chart includes 'Alexander and the Terrible, Horrible, No Good, Very Bad Day' and 'The Judge'. The 'TOP 10 TITLES BY REVENUE' list is identical to the first screenshot.

Common Elements: All three screenshots include a sidebar with a user profile (Michael Johnson), a 'Dashboard' button (with a blue badge indicating 2 notifications), and navigation links for 'Sales', 'Transactions', 'Reports', and 'Schedule'. A central 'NOTES' section at the bottom of the middle screenshot provides instructions for interacting with the application.

Server push

Works in all browsers

(no plugins required)

All of Java

JavaEE, Spring, or any
servlet container

Stable API

Millstone 3, 2002

```
public Button(java.lang.String caption,  
    Button.ClickListener listener)
```

Creates a new push button with click
listener.

Parameters:

caption – Button caption

listener – Button click listener

Vaadin 7, 2014

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Creates a new push button with click
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Built in security

Extendable

Add-ons Tooling Book Labs Maven Spring

Add-ons

Expand your possibilities
with add-on components



Vaadin Spreadsheet

Let users create, edit, link and share Excel documents online.

Search

Top lists

Upload



Feedback

Search from 520 add-ons...

 UI Components Data Components Themes Tools Miscellaneous

All Vaadin versions



A-Z

Top Downloads

Highest Rated

Most Recent

Search results (520 add-ons found)

Data Components

Lazy Query Container
by Tommi Laukkainen

Lazy Query Container addon provides container with support for normal reads and lazy loading reads from sources like WebService client, JDBC connection, JPA context, NoSQL database or Java

UI Components

GridFileDownloader
by Anna Koskinen

FileDownloader for Grid

UI Components

Mediaelementjs Player
by Bryson Dunn

A server-side MediaElement.js player component. Add dynamic Audio & Video players to your applications

UI Components

Mouse Events Extension
by Marcus Hellberg

Extension for adding support for mouseover and mouseout events to Vaadin Components

UI Components

Stepper
by Risto Yrjänä

Field component that allows stepping through values via given up/down controls.

Miscellaneous

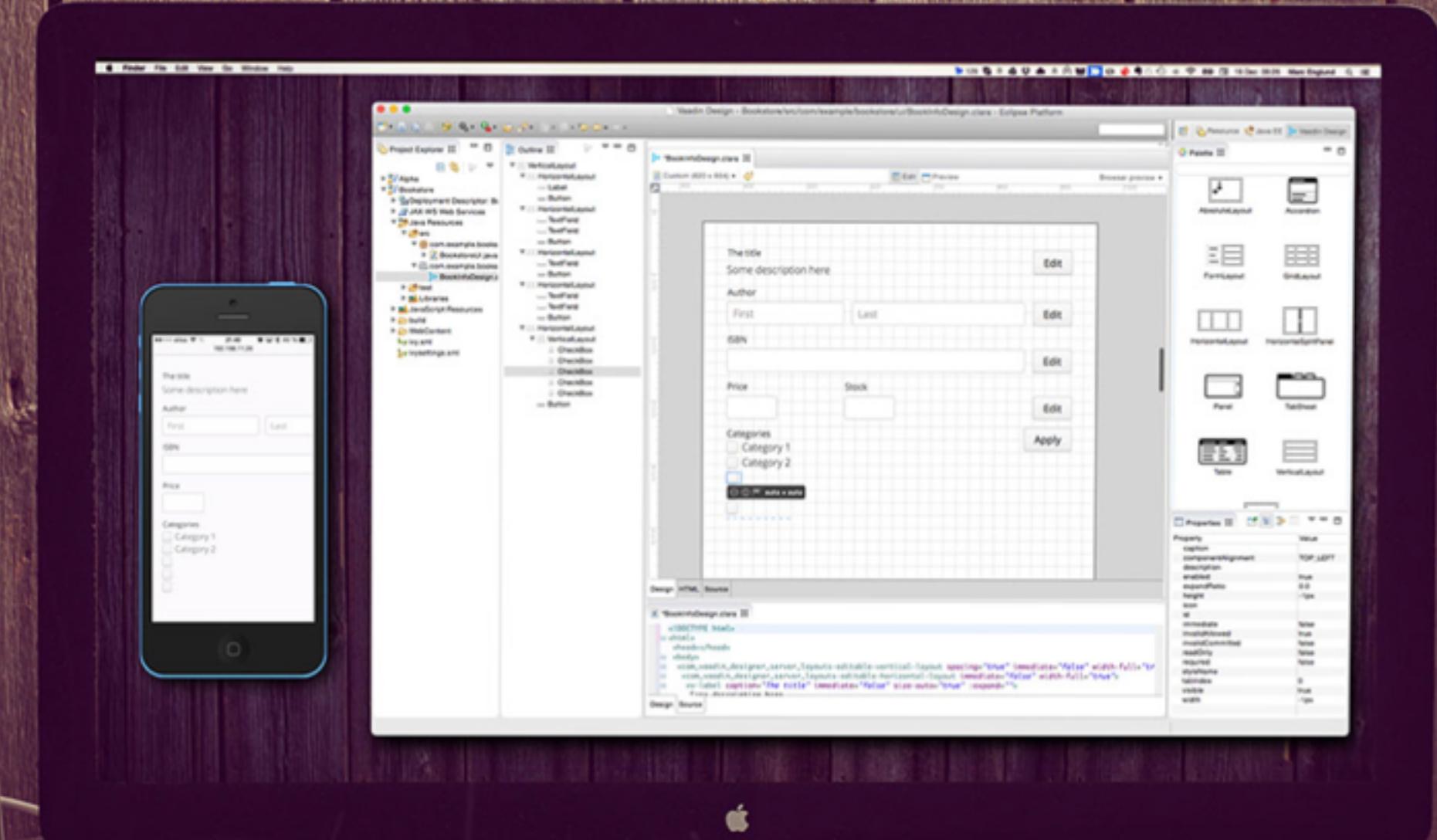
Viritin
by Matti Tahvonen

What apache-commons and Guava libraries does for Java, Viritin does it for Vaadin

GWT and JS components



Designer





Vaadin Spreadsheet

Basic Styling

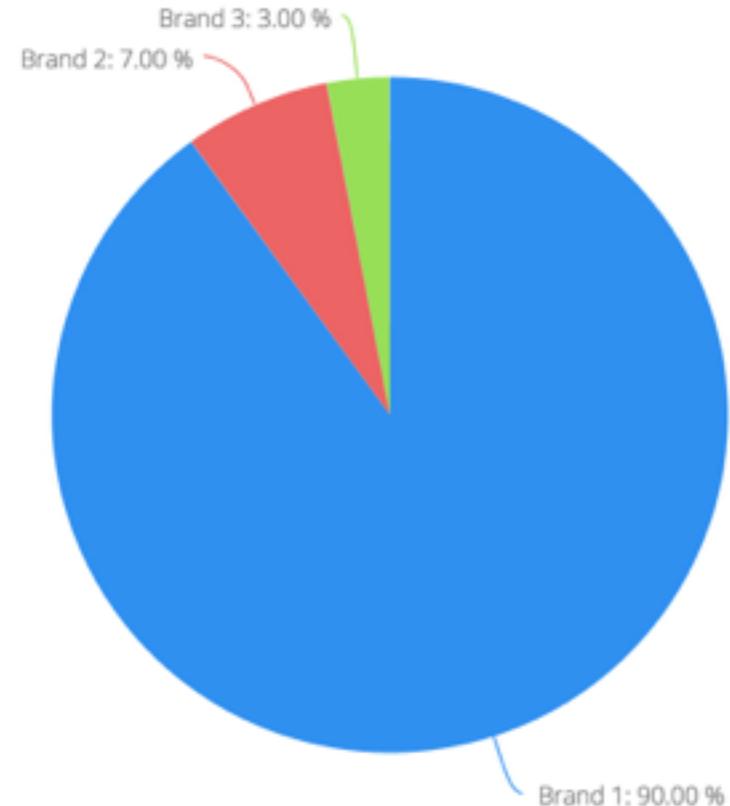
Chart

Components

Report Mode

▶ MS Excel Support

This is chart title



| A1 | | Edit this spreadsheet to alter chart title and data | | | | | | | | | | | | | | | | |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R |
| 1 | Edit this spreadsheet to alter chart title and data | | | | | | | | | | | | | | | | | |
| 2 | This is chart title | | | | | | | | | | | | | | | | | |
| 3 | Category | Amount | | | | | | | | | | | | | | | | |
| 4 | Brand 1 | 90 | | | | | | | | | | | | | | | | |
| 5 | Brand 2 | 7 | | | | | | | | | | | | | | | | |
| 6 | Brand 3 | 3 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | |



Source code on Github



Vaadin Charts

[Home page](#) · [JavaDoc](#) · [Manual](#)

Filter examples

▼ Column and Bar

[Bar with Negative Stack](#)

[Basic Bar](#)

[Basic Column](#)

[Basic Column with Point Width and Ra](#)

[Column with Drilldown](#)

Column with Negative Values

[Column with Rotated Labels](#)

[Dual Axes Line and Column](#)

[Stacked and Grouped Column](#)

[Stacked Bar](#)

[Stacked Column](#)

[Stacked Percentage Column](#)

[Toggled Series Visibility](#)

▶ Pie

▶ Area

▶ Line and Scatter

▶ Dynamic

▶ Combinations

▶ Other

[Example](#)

[Source](#)

Charts Theme: Valo Light

Column chart with negative values

