let's move the java world

Designing Reusable Web Components

Joonas Lehtinen / Vaadin



@joonaslehtinen

Agenda

Goal

Test app

Q&A

7



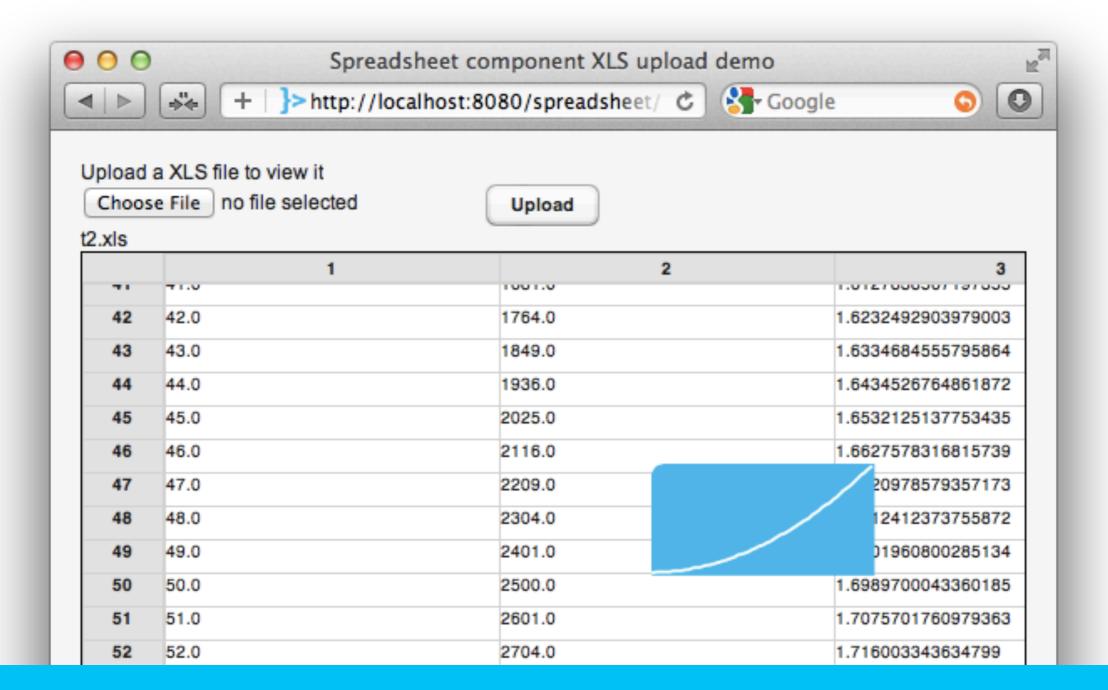
Technology

- •HTML5 / Canvas
- Google Web Toolkit
- Vaadin Framework

Designing Web Component Step-by-step







http://jole.virtuallypreinstalled.com/spreadsheet

57	57.0	3249.0	1.7558748556724912
58	58.0	3364.0	1.7634279935629371



```
public class SpreadsheetUploadDemo extends Root implements Receiver
   Upload upload = new Upload("Upload a XLS file to view it", this);
    Spreadsheet spreadsheet = new Spreadsheet();
    protected void init(WrappedRequest request) {
        setCaption("Spreadsheet component XLS upload demo");
        VerticalLayout vl = new VerticalLayout();
        vl.setMargin(true);
       vl.setSizeFull();
        vl.addComponent(upload);
        setContent(vl);
        vl.addComponent(spreadsheet);
        vl.setExpandRatio(spreadsheet, 1.0f);
        spreadsheet.setGraphEnabled(true);
    public OutputStream receiveUpload(final String filename, String mimeType) {
        ByteArrayOutputStream baos = new ByteArrayOutputStream() {
            public void close() throws IOException {
                super.close();
                spreadsheet.setCaption(filename);
                spreadsheet.readXLS(new ByteArrayInputStream(this.toByteArray()));
        };
        return baos;
```

Technology



HTML





<!doctype html>



Element	Description		
<article></article>	An independent piece of content for a document e.g. blog entry, forum entry		
<aside></aside>	A piece of content that is somehow related to the rest of the page		
<audio></audio>	Audio media content		
<canvas></canvas>	A component for rendering dynamic bitmap graphics on the fly. e.g games		
<command/>	A command that the user can invoke: a button, radio button or checkbox		
<datalist></datalist>	Together with the new list attribute for the <input/> element can be used to make combo boxes		
<details></details>	Additional information or controls that the user can obtain on demand, to provide details on the document, or parts of it		
<embed/>	Used for plug-in content		
<figure></figure>	A piece of self-contained flow content referenced as a single unit from the main flow of the document		
<figcaption></figcaption>	Caption for a <figure></figure>		
<footer></footer>	Footer for a section; may contain information about author, copyright information, etc.		
<header></header>	A group of introductory or navigation aids		
<hgroup></hgroup>	Header of a section		
<keygen/>	A key pair generation control for user authentication in forms		
<mark></mark>	A run of text in one document marker or highlighted for reference purposes		

"new shiny"



Cross-document messaging

Multimedia

WebGL

Offline storage

Markup improvements

Forms

Geolocation

CSS3

HTML

Document editing

Microdata

Canvas

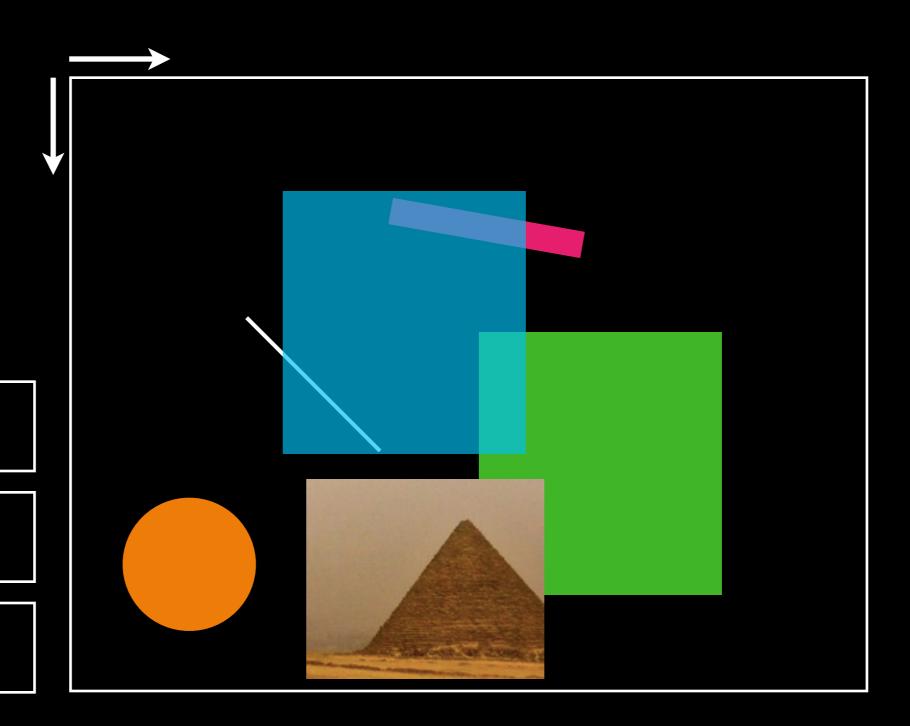
History management

File API



Drag-and-drop

Canvas



state

state

state



http://vj.jole.fi/



brought to you by

Microsoft

CONTENTS INCLUDE:

- Introduction to Canvas
- Browser Support and Hardware Acceleration
- What Canvas Can and Cannot Do
- A Comparison with SVG
- Canvas Performance
- Creating a Canvas and More!

HTML 5 Canvas

A Web Standard for Dynamic Graphics

By Simon Sarris

INTRODUCTION TO CANVAS

The HTML <canvas> element allows for on-the-fly creation of graphs, diagrams, games, and other visual elements and interactive media. It also allows for the rendering of 2D and 3D shapes and images, typically via JavaScript.

```
<canvas id="canvas1" width="500" height="500" ></canvas>
<script type="text/javascript">
var can = document.getElementById('canvas1');
var ctx = can.getContext('2d');
ctx.filtText("Hello World!", 50, 50);
```

Canvas is perhaps the most visible part of the new HTML5 feature set, with new demos, projects, and proofs of concept appearing daily.

Canvas is a very low-level drawing surface with commands for making lines, curves, rectangles, gradients and clipping regions built in. There is very little else in the way of graphics drawing, which allows programmers to create their own methods for several basic drawing functions such as blurring, tweening, and animation. Even drawing a dotted line is something that must be done by the programmer from scratch.

Canvas is an immediate drawing surface and has no scene graph. This means that once an image or shape is drawn to it, neither the Canvas nor its drawing context have any knowledge of what was just drawn.

For instance, to draw a line and have it move around, you need to do much more than simply change the points of the line. You must clear the Canvas (or part of it) and redraw the line with the new points. This contrasts greatly with SVG, where you would simply give the line a new position and be done with it.



You can visit the evolving specification for Canvas at the WHATWG site http://www.whatwg.org/specs/web-apps/current-work/multipage/ the-canvas-element.html.

Browser Support and Hardware Acceleration

Canvas is supported by Firefox 1.5 and later; Opera 9 and later; and newer versions of Safari, Chrome, and Internet Explorer 9 and 10.

The latest versions of these browsers support nearly all abilities of the Canvas element. A notable exception is drawFocusRing, which no browser supports effects.

Hardware acceleration is supported in some variation by all current browsers, though the performance gains differ. It is difficult to benchmark between the modern browsers because they are changing frequently, but so far IE9 seems to consistently get the most out of having a good GPU. On a machine with a good video card it is almost always the fastest at rendering massive amounts of images or canvas-to-canvas draws.

Accelerated IE9 also renders fillRect more than twice as fast as the other major browsers, allowing for impressive 2D particle effects [1]. Chrome often has the fastest path rendering but can be inconsistent between releases. All browsers render images and rects much faster than paths or text, so it is best to use images and rects if you can regardless of which browsers you are targeting.

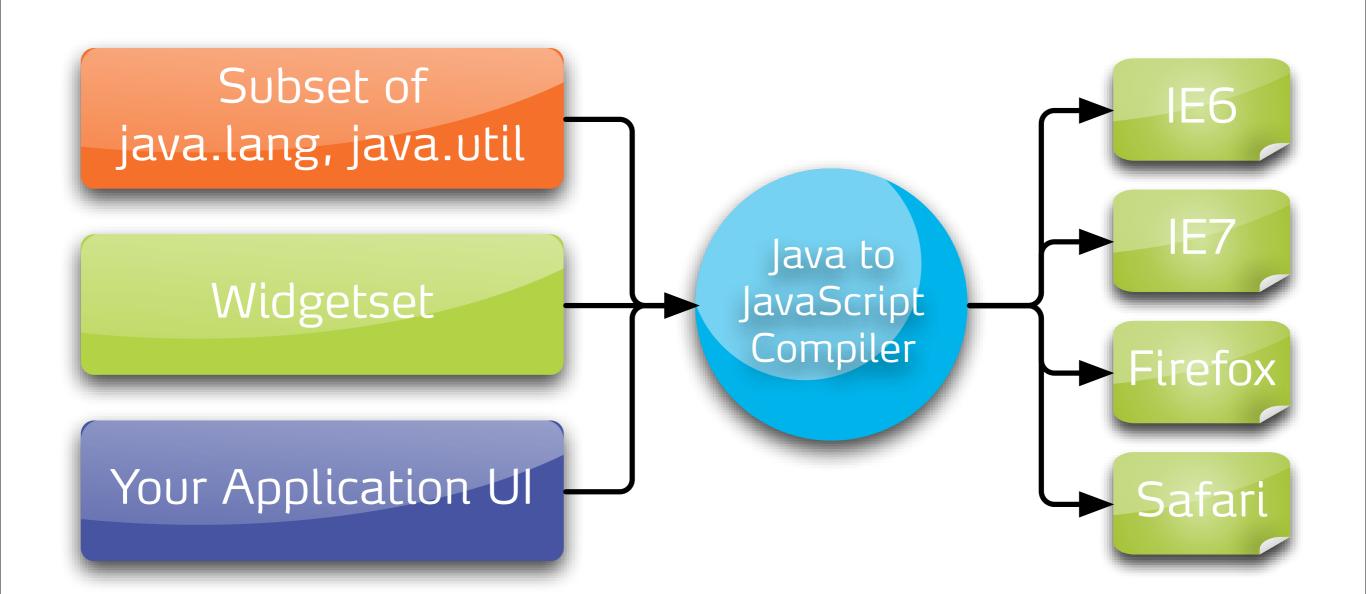
	Canvas	SVG	
Support	All modern versions of Chrome, Safari, Firefox, and Opera have at least some support. Internet Explorer 9+ has support. Almost all modern smart phones. Internet Explorer 7 and 8 have limited support through the excanvas library. Rapidly growing in popularity	SVG support in all modern browsers. Almost all modern smart phones.	
Statefulness • Bitmapped, immediate drawing surface • Shapes are drawn and nothing is remembered about their state.		Vector-based, retained drawing surface Every drawn shape is a DOM object.	
Other Consider- ations	Generally faster All event handling and statefulness must be programmed yourself. Canvas will be effectively disabled (rendering nothing) if scripting is disabled.	Generally slower, especially past 10,000 objects. Since all SVG elements are DOM objects, statefulness is built in and event handling is much easier. Easier for a designer to work with, many programs such as Illustrator can output SVG SVG has built-in support for animation.	
Accessi- bility	Difficult to interface with other DOM objects Working with text can be difficult. Recreating text-based DOM element functionality is strongly advised against, even in the specification litself. Cannot operate when scripting is disabled.	All SVG objects are already DOM objects. Text is searchable by the browser and web crawlers.	







Google Web Toolkit



simpler

- 100% Java
- Static typing
- Object oriented
- Excellent tooling



less bugs

- Stop debugging JavaScript spaghetti
- Ignore most browser differences



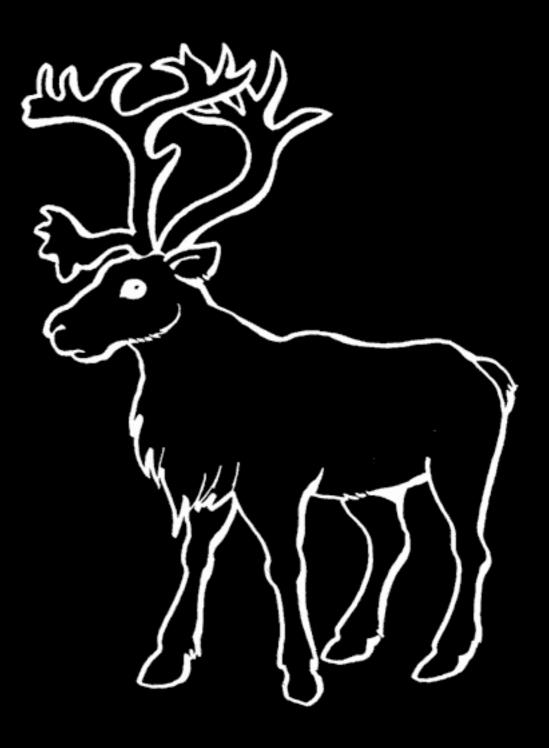
client-side

- Ul in client
- Asyncronous RPC
- Services (for UI)



vaadin >>

vaadin >>



Vaadin is a UI framework for rich web applications

java html >

Layers of abstraction

oackend server	frontend server	RPC	browser	browser
any language	any language	json / xml	java IIII	javascript
required	required	optional	optional	optional
required	required	required	required	optional
required	required	required	X	required



Vaadin UI component architecture

Server UI comp.

- Button, Table, Tree, ...
- API you program with
- State

HTTP(S)



Client UI comp.

- Rendering
- Event handling
- Runs on JavaScript

1

Java

Compiled with JDK



Java

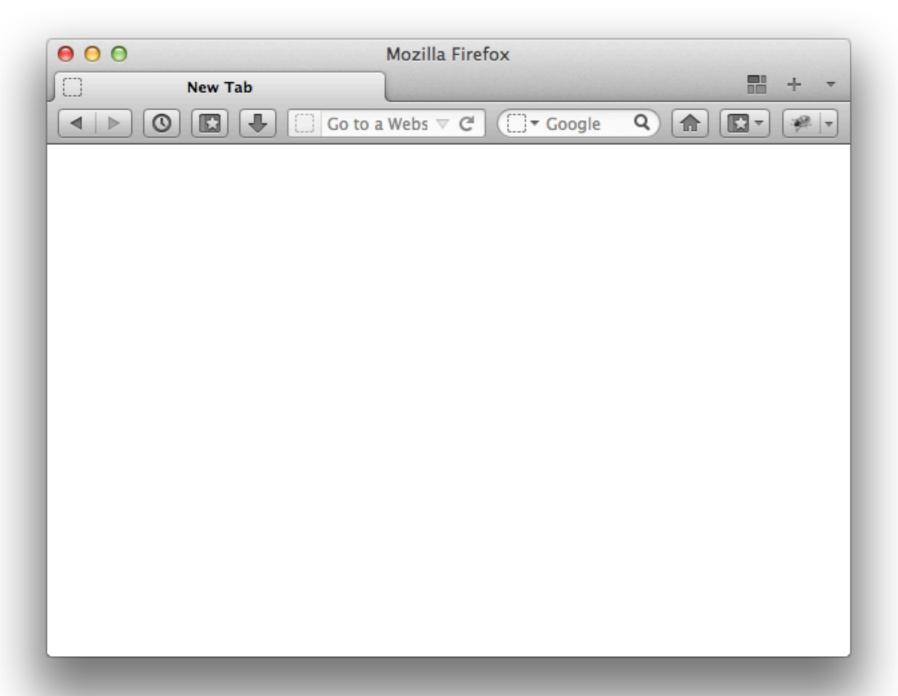
Google Web Toolkit



How does it work, really?

```
name = new TextField("Name");
greetButton = new Button("Greet");

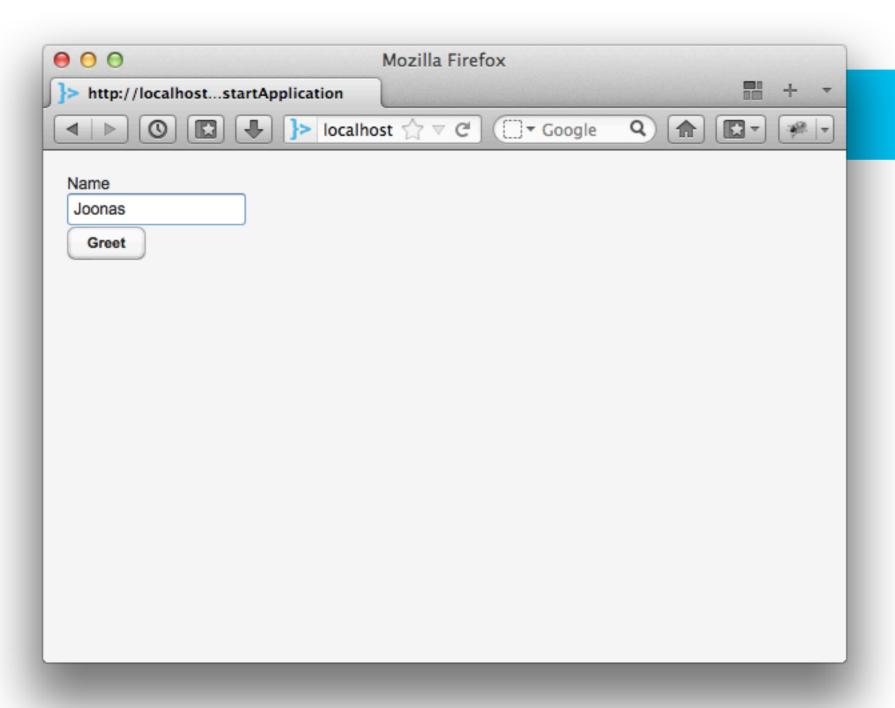
greetButton.addListener(new ClickListener() {
    public void buttonClick(ClickEvent event) {
        mainWindow.showNotification("Hi " + name);
    }
});
```



- Initial HTML
- CSS (theme)
- ImagesJavaScript

120k total



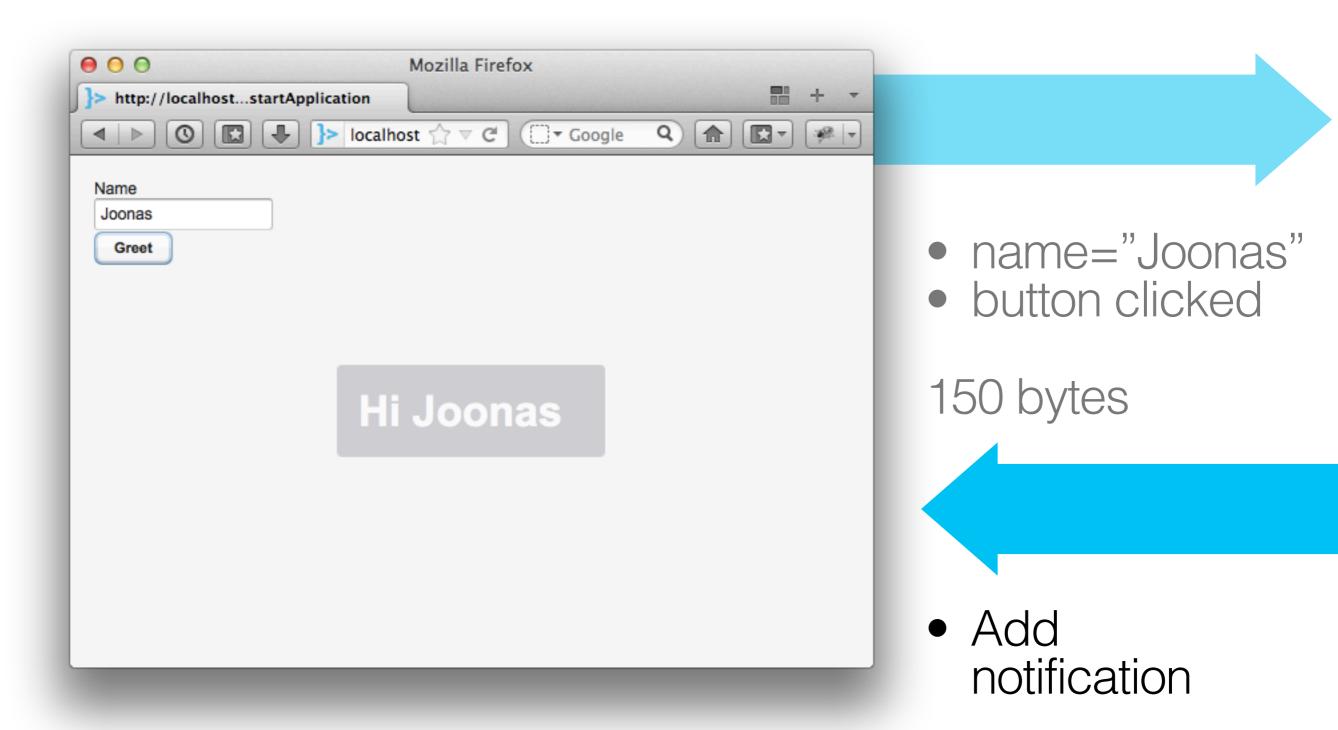


- name="Joonas"
- button clicked

150 bytes

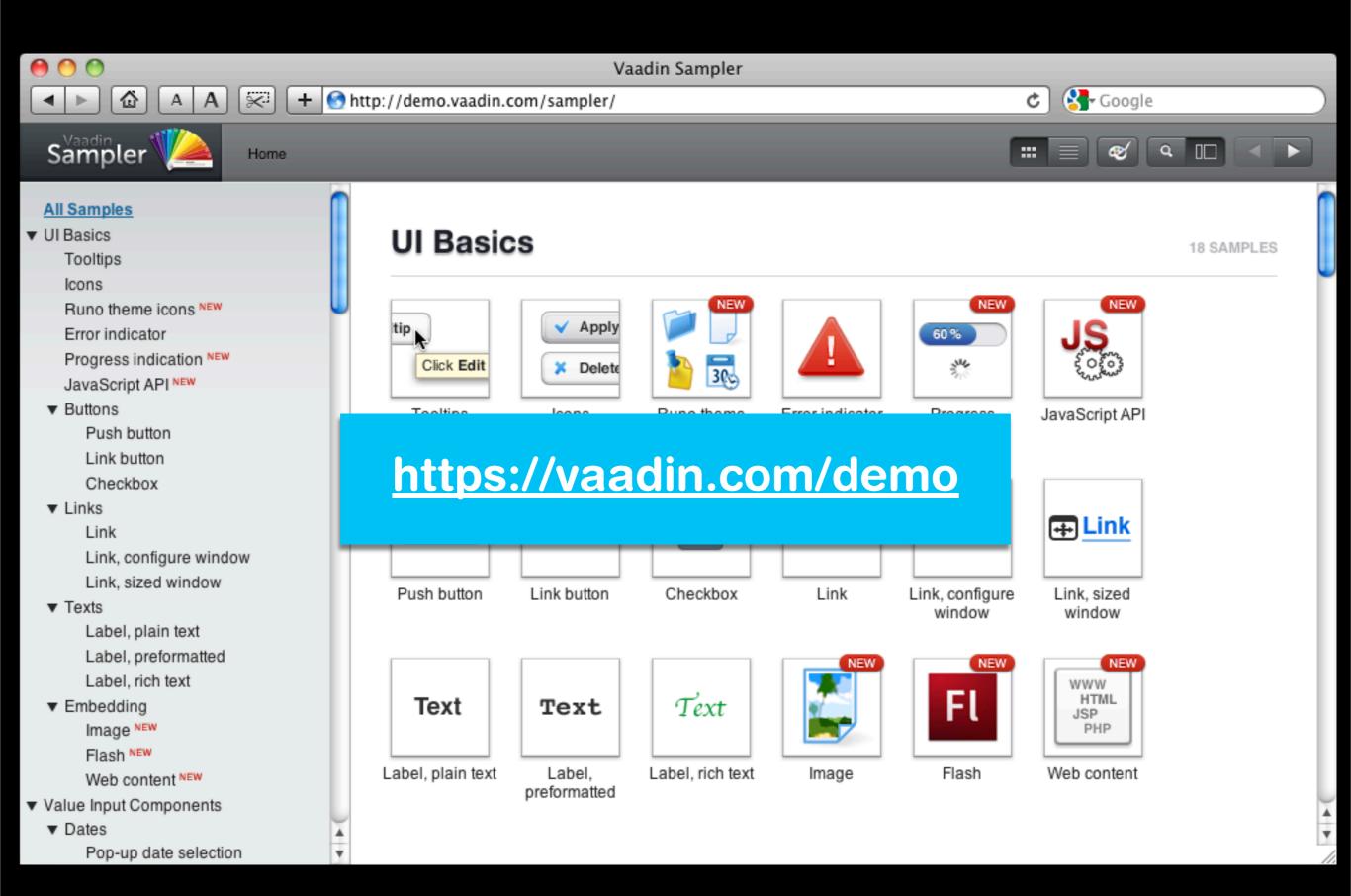


```
public void buttonClick(ClickEvent event) {
    mainWindow.showNotification("Hi " + name);
}
```

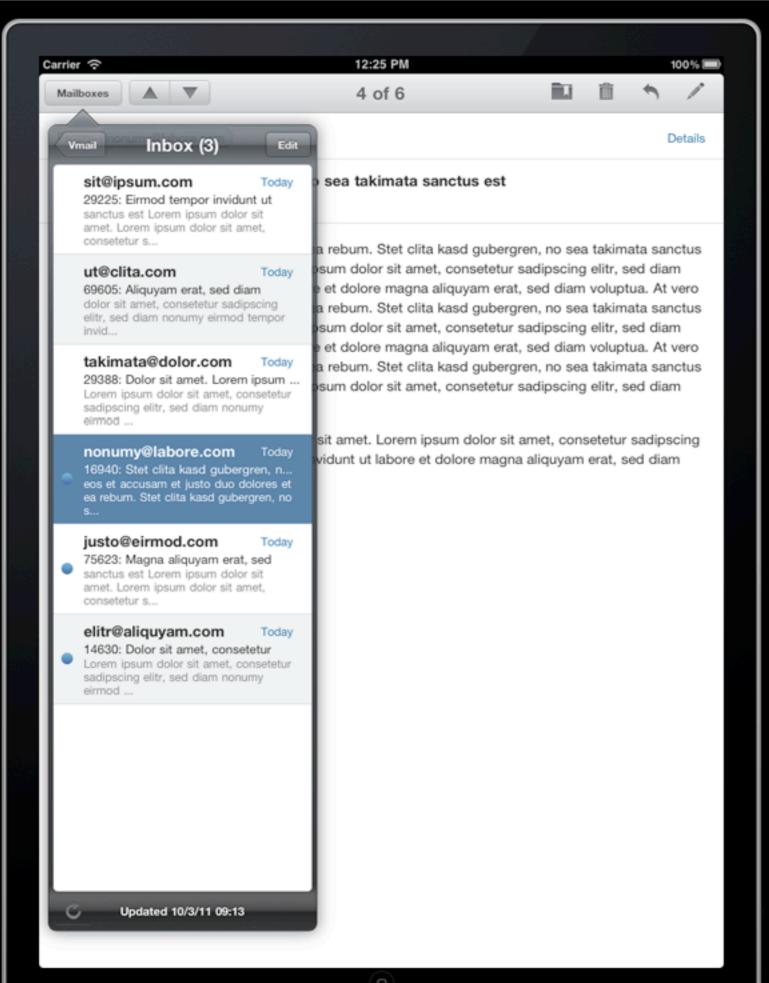




466 bytes











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UI Components

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Themes

Tools

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Pro Add-ons

Henri Muurimaa

Authoring

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My Ratings

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Help FAQ

Feedback

Most Recent Highest Rated Top Downloads

Showing

CERTIFIED STABLE BETA EXPERIMENTAL

« Previous

Next »

215 Results

Toolbox

In UI Components by Johan Anas

Toolbox is a component that may save some workspace by folding to some edge when not needed

Version 0.2.0 BETA

***** 8

89

Portal Layout

In UI Components by Alexander Pchelintsev

Display your components in a web-portal style!

Version 1.3.1 BETA

Jefferson

*** 12

322

DontPush OzoneLayer

In Miscellaneous by Matti Tahvonen

A customized communication mechanism to eliminate the need for pushing or polling

Version 0.3.5 EXPERIMENTAL ★★★★ 3

60

In Tools by Marlon Richert

Separation of Presentation and Content

Version 0.0.4 EXPERIMENTAL No ratings yet

14

326

MathQuill integration

In UI Components by Risto Yrjänä

Vaadin integration of the MathQuill javascript library. Enables WYSIWYG editing of math in the browser without images.

Version 0.9.1 BETA

No ratings yet

3

Wizards for Vaadin

In UI Components by Teemu Pöntelin

Simple way to create multi-step wizards

Version 0.4.1 EXPERIMENTAL ★★★★ 7

ContextHelp

In UI Components by Jonatan Krongvist

Provides contextual help for Vaadin applications.

Spring Stuff

In Tools by Archie Cobbs

Makes Vaadin and Spring eternally happy together

Download for Free

vaadin.com/book

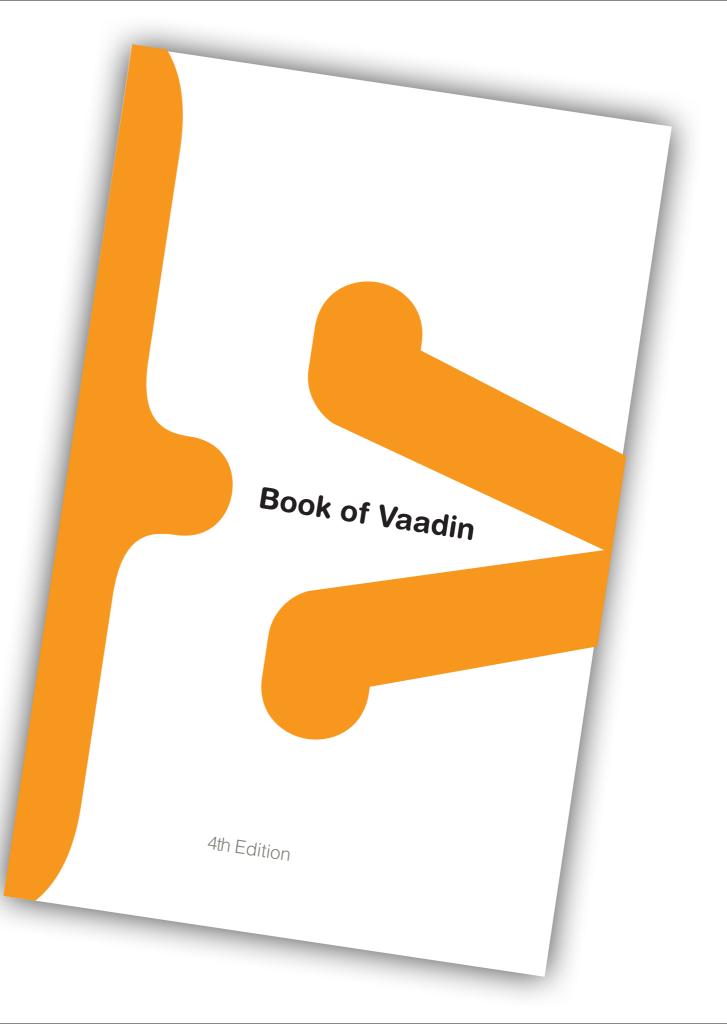
















CONTENTS INCLUDE:

- About Vaadin
- Creating An Application
- Components
- Layout Components
- Themes
- Data Binding and more...

Getting Started with Vaadin

By Marko Grönroos

ABOUT VAADIN

Vaadin is a server-side Ajax web application development framework that allows you to build web applications just like with traditional desktop frameworks, such as AWT or Swing. An application is built from user interface components contained hierarchically in layout components.

In the server-driven model, the application code runs on a server, while the actual user interaction is handled by a client-side engine running in the browser. The client-server communications and any client-side technologies, such as HTML and JavaScript, are invisible to the developer. As the client-side engine runs as JavaScript in the browser, there is no need to install plug-ins. Vaadin is released under the Apache License 2.0.

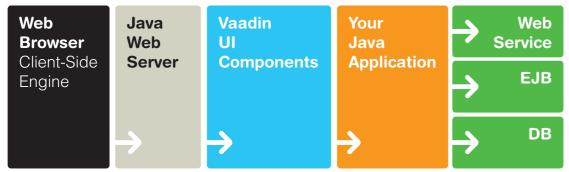


Figure 1: Vaadin Client-Server Architecture

If the built-in selection of components is not enough, you can

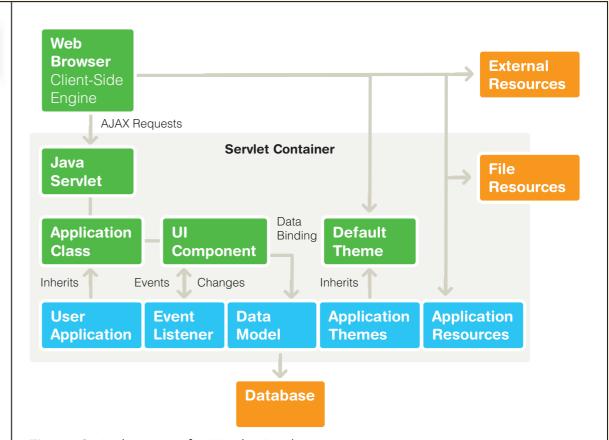


Figure 2: Architecture for Vaadin Applications



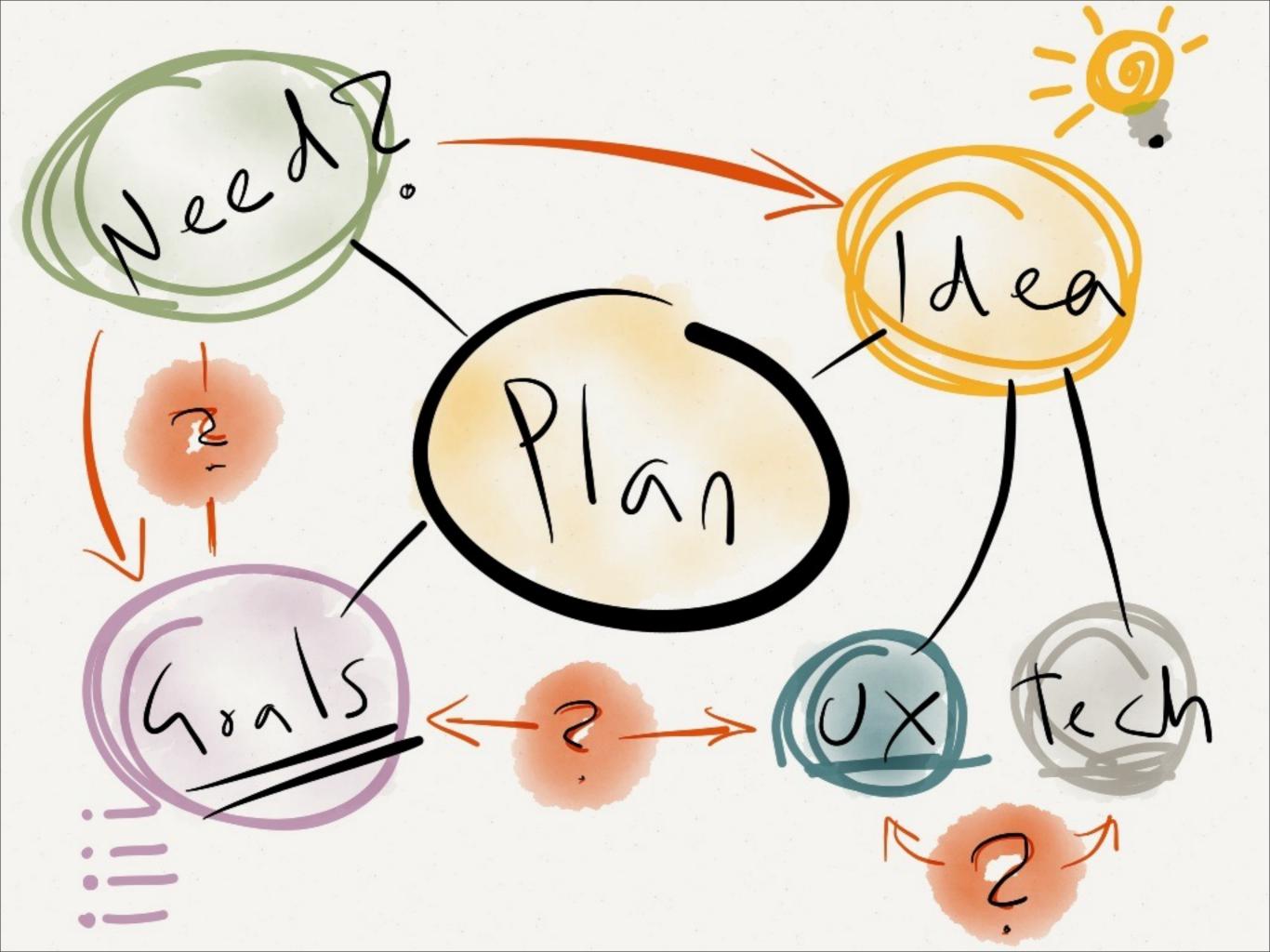
Event Listeners

In the event-driven model, user interaction with user interface components triggers server-side events, which you can handle

Designing Step-by-step

Designing Step-by-step

Plan Patage Design Implement Test Distribute



Need We can not get the UX we need with the existing widgets

Goals

- List of
- real
- quantifiable
- requirements
- for UX

Example goals

- Load and view data in XLS files
- Show visual overview for numeric cols
- Must support 1000 cell tables
- Supports the latest Firefox & Chrome



Nail down
the minimum viable
set of supported
browser versions
with the customer



ldea

UX [how it is used]



Tech [how it works]



ample	Measured value	Date
1	9,983341664683	1.1.2012
2	19,86693307951	2.1.2012
3	29,55202066613	3.1.2012
4	38,94183423087	4.1.2012
5	47,94255386042	5.1.2012
6	56,4642473395	6.1.2012
7	64,42176872377	7.1.2012
8	71,73560908995	8.1.2012
9	78,33269096275	9.1.2012
10	84,14709848079	10.1.2012
11	89,12073600614	11.1.2012
12	93,20390859672	12.1.2012
13	96,35581854172	
14	98,54497299885	
15	99,74949866041	
16	99,95736030415	
17	99,16648104525	
18	97,38476308782	
19	94,63000,976874	
20	90,929742	
21	86,3209366	
22	80,84964038	
23	74,57052121767	
24	67,54631805512	3
25	59,8472144104	
26	51,55013718215	
27	42,73798802338	
21		Avg: 0.95
28	33 40881501550	
28	33,49881501559	
29	23,9249329214	29.1.2012
29 30	23,9249329214 14,11200080599	29.1.2012 30.1.2012
29 30 31	23,9249329214 14,11200080599 4,158066243329	29.1.2012 30.1.2012 31.1.2012
29 30 31 32	23,9249329214 14,11200080599 4,158066243329 -5,837414342758	29.1.2012 30.1.2012 31.1.2012 1.2.2012
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29 30 31 32 33 34	23,9249329214 14,11200080599 4,158066243329 -5,837414342758 -15,77456941432 -25,55411020268	29.1.2012 30.1.2012 31.1.2012 1.2.2012 2.2.2012 3.2.2012
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29 30 31 32 33 34 35 36 37 38 39 40	23,9249329214 14,11200080599 4,158066243329 -5,837414342758 -15,77456941432 -25,55411020268 -35,07832276896 -44,25204432949 -52,98361409085 -61,18578909427 -68,7766159184 -75,68024953079 -81,82771110644	29.1.2012 30.1.2012 31.1.2012 1.2.2012 2.2.2012 3.2.2012 4.2.2012 5.2.2012 6.2.2012 7.2.2012 8.2.2012 9.2.2012 10.2.2012
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47 -99,99232575641



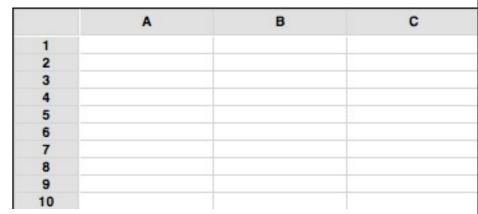
Don's (canvas) Spredsheet View

Always start from defined goals - never let idea to rule your design



1. Stat; c ITML Browser Compatil

```
.v-spreadsheet .row13 { height: 12px; top: 177px;}
        .v-spreadsheet .row14 { height: 12px; top: 190px;}
        .v-spreadsheet .col1 { width: 99px; left: 50px;}
        .v-spreadsheet .col2 { width: 99px; left: 150px;}
        .v-spreadsheet .col3 { width: 99px; left: 250px; }
        .v-spreadsheet .col4 { width: 99px; left: 350px; }
        .v-spreadsheet .col5 { width: 99px; left: 450px; }
        .v-spreadsheet .col6 { width: 99px; left: 550px; }
    </style>
</head>
<body>
    <div class="v-spreadsheet" id="elem">
        <div class="sheet" id="sheet">
            <div class="c col1 row1"></div>
            <div class="c col2 row1"></div>
            <div class="c col3 row1"></div>
            <div class="c col4 row1"></div>
            <div class="c col5 row1"></div>
            <div class="c col6 row1"></div>
            <div class="rh row1">1</div>
            <div class="c col1 row2"></div>
            <div class="c col2 row2"></div>
            <div class="c col3 row2"></div>
            <div class="c col4 row2"></div>
            <div class="c col5 row2"></div>
            <div class="c col6 row2"></div>
            <div class="rh row2">2</div>
            <div class="c col1 row3"></div>
```



Works with target browsers?



```
Interactions
   padding-top: 2px;
   border-right: 2px solid #d6d6d6;
                                                                      work with target
   border-bottom: 2px solid #d6d6d6;
   border-top: 1px solid #d6d6d6;
                                                                      browsers?
</style>
</head>
                                                                      Performance is
<body>
                                                                      good enough for
   <div class="v-spreadsheet" id="elem">
       <div class="sheet" id="sheet">
                                                                      target data?
       </div>
   </div>
   <script>
          var totalrows = 100;
          var totalcols = 13;
          var isIE = navigator&&navigator.userAgent&&navigator.userAgent.match(/\bMSIE ([678])\./);
          function insertCSS(css) {
              var stylesheet = document.styleSheets[0];
              if (isIE) {
                 stylesheet.cssText += css;
              } else {
                 stylesheet.insertRule(css, stylesheet.cssRules.length);
          document.getElementById("elem").onscroll = function() {
              var e = document.getElementById("elem");
              var l = e.scrollLeft;
              var classes = document.styleSheets[0].rules || document.styleSheets[0].cssRules
```



Proto DOD

- Includes main use-cases
- Works in target browsers
- Handles enough data



Never start design or implementation before prototyping browser compatibility and performance



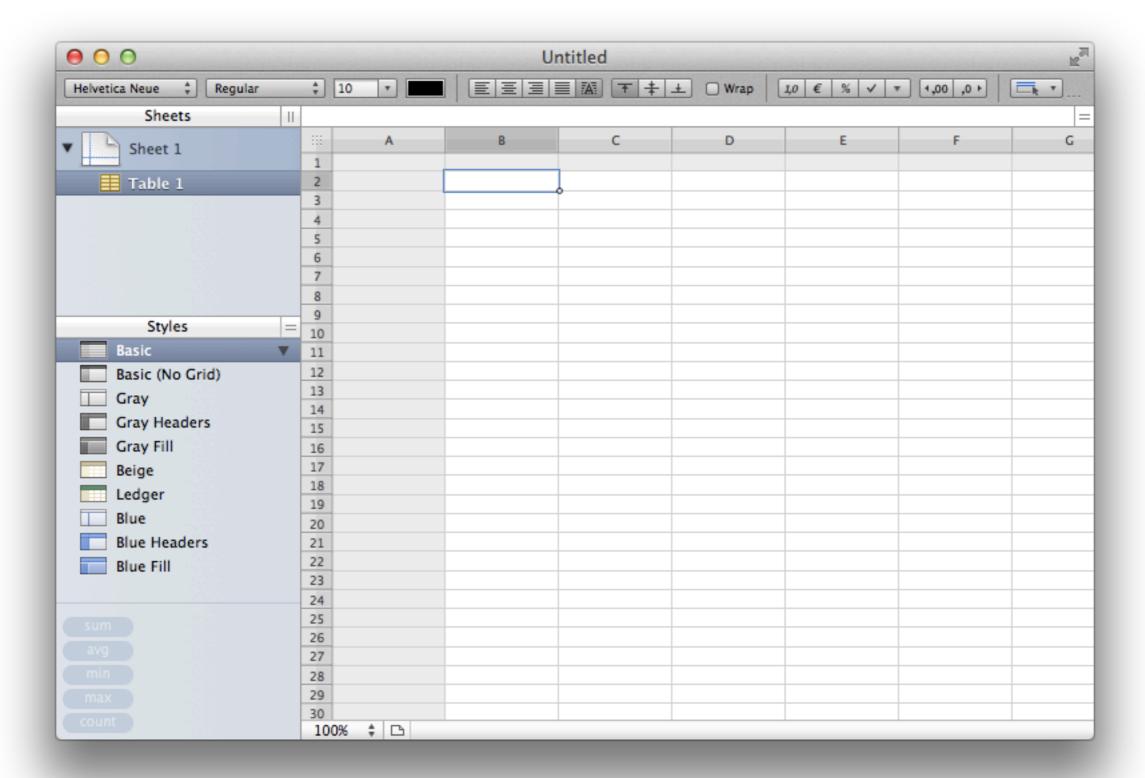
e Sign rchitecture

Design UX and API first. Never continue from the prototype implementation



Drawing detailed wireframes and mockups and testing them with users will save time later





Shamelessly copy UX. Then your users already know how to use it.



Sprendsheet View BSTRACTCOMPONENT CONNECTOR Sprindsheet Model Spreadsheet Connector ABSTRAU COMPINENTO Vaadin Spreaksheet Upload Demi SERVER

Aim for multilayered design that lets your users (developers) change behavior of your component



Don's (canvas) Spredsheet View

DOM classes and CSS restrictions must be documented to make styling easy



20 Mplement

Keep component project separate from your real application project



Demo application must include all features and serve as example for your users



▼ spreadsheet [spreadsheet master] ▼ # src/main/java org.vaadin.spreadsheet Spreadsheet.java ▼ org.vaadin.spreadsheet.gwt ▼ Compublic ▼ spreadsheet styles.css SpreadsheetWidgetSet.gwt.xml org.vaadin.spreadsheet.gwt.client SpreadsheetConnector.java SpreadsheetModel.java SpreadsheetState.java SpreadsheetView.java x rebel.xml src/test/java ▶ ■ JRE System Library [J2SE-1.5] Maven Dependencies design ▶ कि src ▶ (⇒ target licensing.txt pom.xml README.markdown

Invest in project setup with a rapid save-to-see cycle and a robust build script. These might not be the same thing.



Component Add-on Project Setup HOWTO

This howto walks you through a complete setup for a project for developing, building and publishing your own Vaadin UI component add-ons. The goal here is not to teach how to write an add-on, but to make the process of setting up your project environment as smooth as possible. I hope this encourages you to try building and publishing your own add-ons:)

Goals for the project environment

- · Fully automated build with Maven
- · Allow anyone to re-build your project easily regardless of the IDE:s
- Almost instant save-build-deploy-try cycle
- Simple
- Project
- Easy

Install

https://vaadin.com/wiki/-/wiki/Main/Component+Add-on+Project+Setup+HOWTO

If you do n

- Eclipse IDE for Java EE developers from http://www.eclipse.org (Indigo Service Release 1 was used in this howto)
- Google Chrome browser from https://www.google.com/chrome/ (other browsers will do, but Chrome is recommended)
- Eclipse plugins: m4e-wtp, vaadin, egit (optional) and jrebel (optional) from Marketplace (just select Help->Marketplace... from the menu)

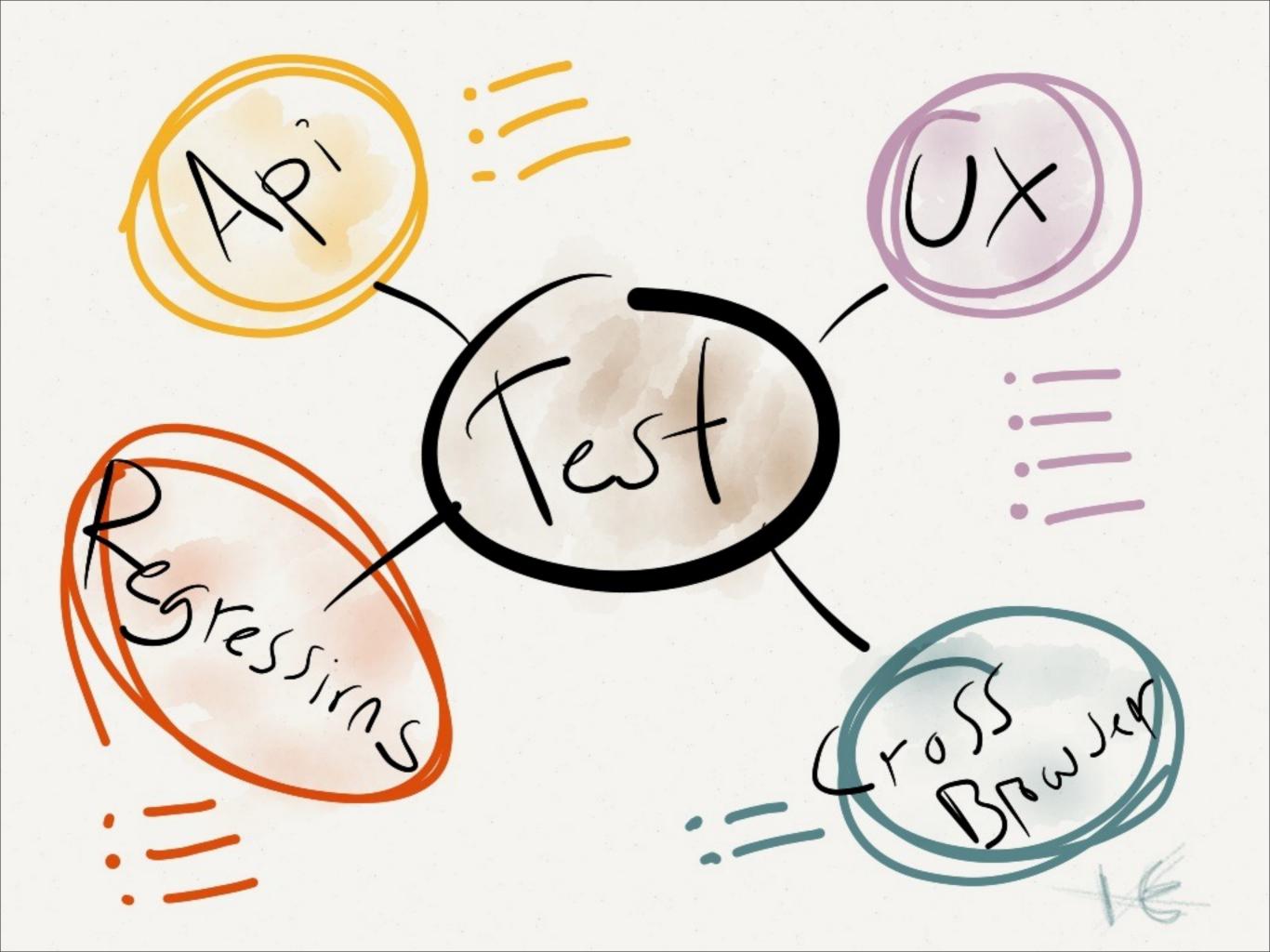
Create a new widget project

Start project creation wizard: File -> New -> Other ... -> "Maven Project"

Give a proper name for your project and save it under workspace. For this exapmle I am building a list widget and name it MyList.

Ensure that your Maven architype catalogs contain http://repo1.maven.org/maven2/archetype-catalog.xml as remote catalog and select it.

Select vaadin-archetype-widget from the list.



There is no substitute for manual testing and user experience testing



Skip test driven development, but invest in regression testing



Pixel level regression tests take time to set up, but will be worth it



Never trust that your changes would not break other browsers and skip cross-browser testing

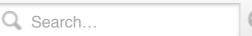


It is impossible to use too much time in polishing UX for a reusable component.



Distribute Feedback





Files

Commits

Explore Gist Blog Help

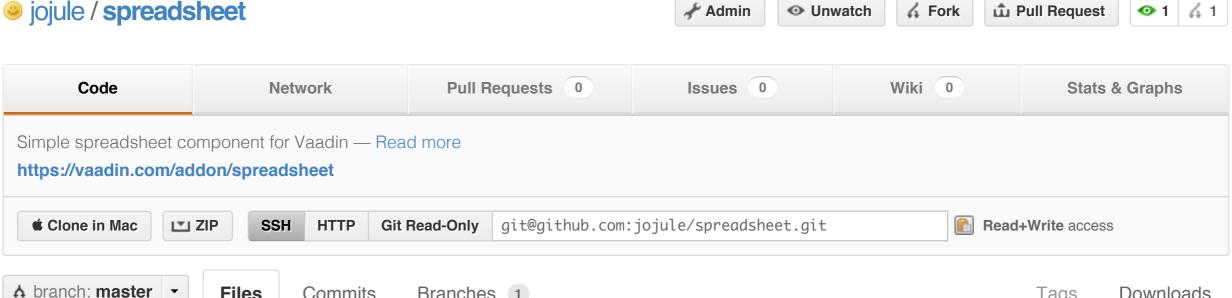
Branches 1



Tags









https://github.com/jojule/spreadsheet

.67b1

Downloads

spreadsheet /

name	age	message	history
design	a day ago	Developing [Joonas Lehtinen]	
	19 hours ago	Version 0.1 [Joonas Lehtinen]	
README.markdown	4 hours ago	Update README.markdown [jojule]	
licensing.txt	19 hours ago	Version 0.1 [Joonas Lehtinen]	
pom.xml	18 hours ago	Fixed add-on name [Joonas Lehtinen]	



Spreadsheet for Vaadin

The widget shows a spreadsheet - either from XLS file or by setting the cell contents programmatically.

This version is very limited and should be considered to be an early alpha -version. Try out the demo to see if it would be useful for you. I mainly built it for an upcoming presentation.

SpreadsheetView class should be also usable in GWT without Vaadin Framework, but then you must implement SpreadsheetModel by yourself.

Dependencies

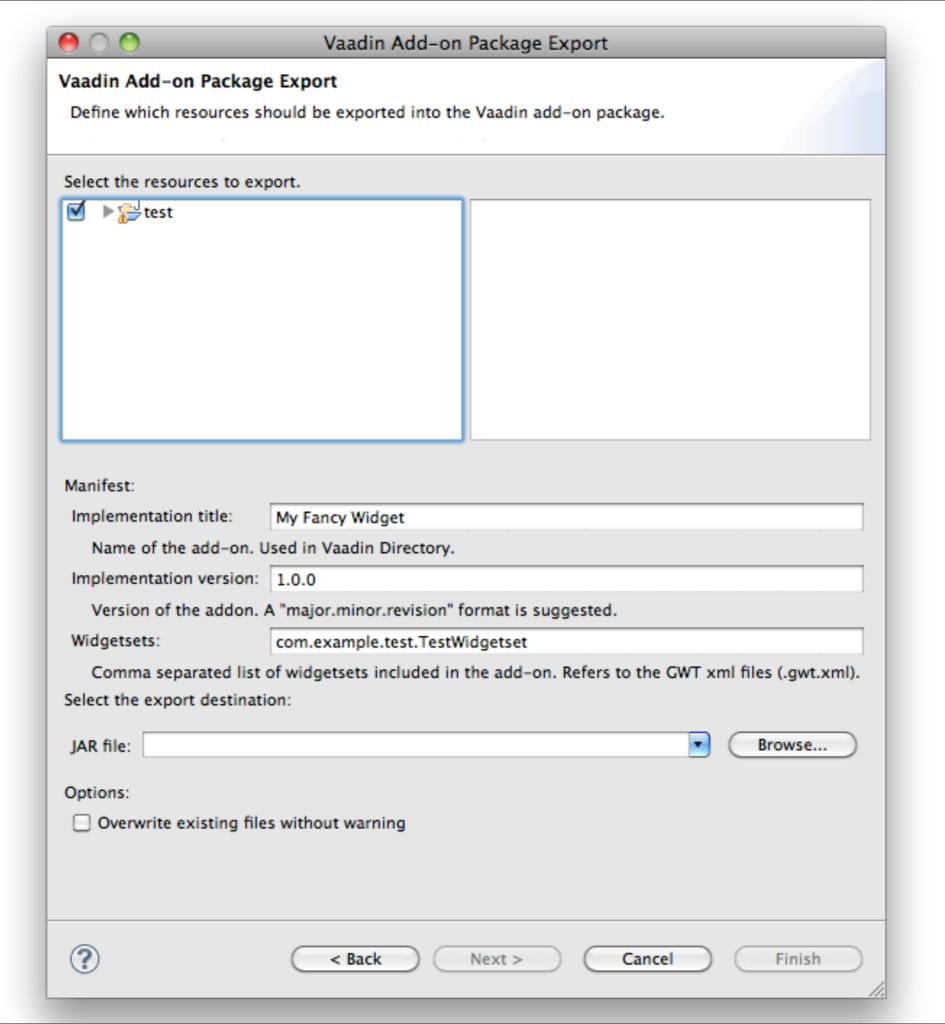
- Apache POI 3.8 http://poi.apache.org/
- Apache Commons Codec 1.5 Required by POI http://commons.apache.org/codec/

Release notes

Initial release with severe limitations:

- All columns and rows have fixed sizes
- No cell styling is supported
- No graphs are supported
- No merged cells are supported
- Performance for larger spreadsheets is really bad
- Only one spreadsheet widget is supported on screen at once

License & Author





Upload New Add-on

Select a category to post your new add-on to.

Note, that if you're updating a previous add-on, that is done by editing the add-on from the list above.



UI Components





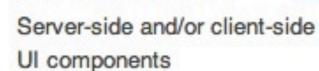
Data Components

Components related to the

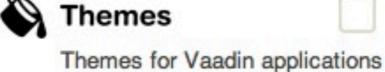
Vaadin data model, e.g.

Container or Validator

implementations



Tools for Vaadin developers







Miscellaneous



Other Vaadin add-ons

Upload Add-on Package



Download Learn Discuss

Contribute

Add-ons

Pro



Directory

Q Search Add-ons

Browse

All

UI Components

Data Components

Themes

Tools

Miscellaneous

Guest

Authoring

Subscribe RSS Help

FAQ

Feedback

PaperStack

In UI Components by Tomi Virkki ★★★★★ 11 ♣ 194

Report this add-on

Version 0.8.1 (latest)

Maturity **EXPERIMENTAL**

Apache License 2.0 License

Vaadin 6.2 upwards **Browser Compatibility**

5 6

7 8

10

3 4 5

Overview

PaperStack is a component container whose subcomponents are presented sequentially, one subcomponent at a time. User can switch between the subcomponents by mouse dragging the upper right corner of a view revealing the underlying subcomponent simultaneously. The transition effect simulates leafing through a stack of papers.

Highlights







Release notes

Download Now Version 0.8.1 (86 kB)



Maven POM



<dependency>

<groupId>org.vaadin.addons</groupId> <artifactId>paperstack</artifactId> <version>0.8.1</version>

</dependency>

<repository>

<id>vaadin-addons</id>

<url>http://maven.vaadin.com/vaadinaddons</url>

</repository>

Related Links

- Discussion Forum
- Online Demo
- Source Code

Share



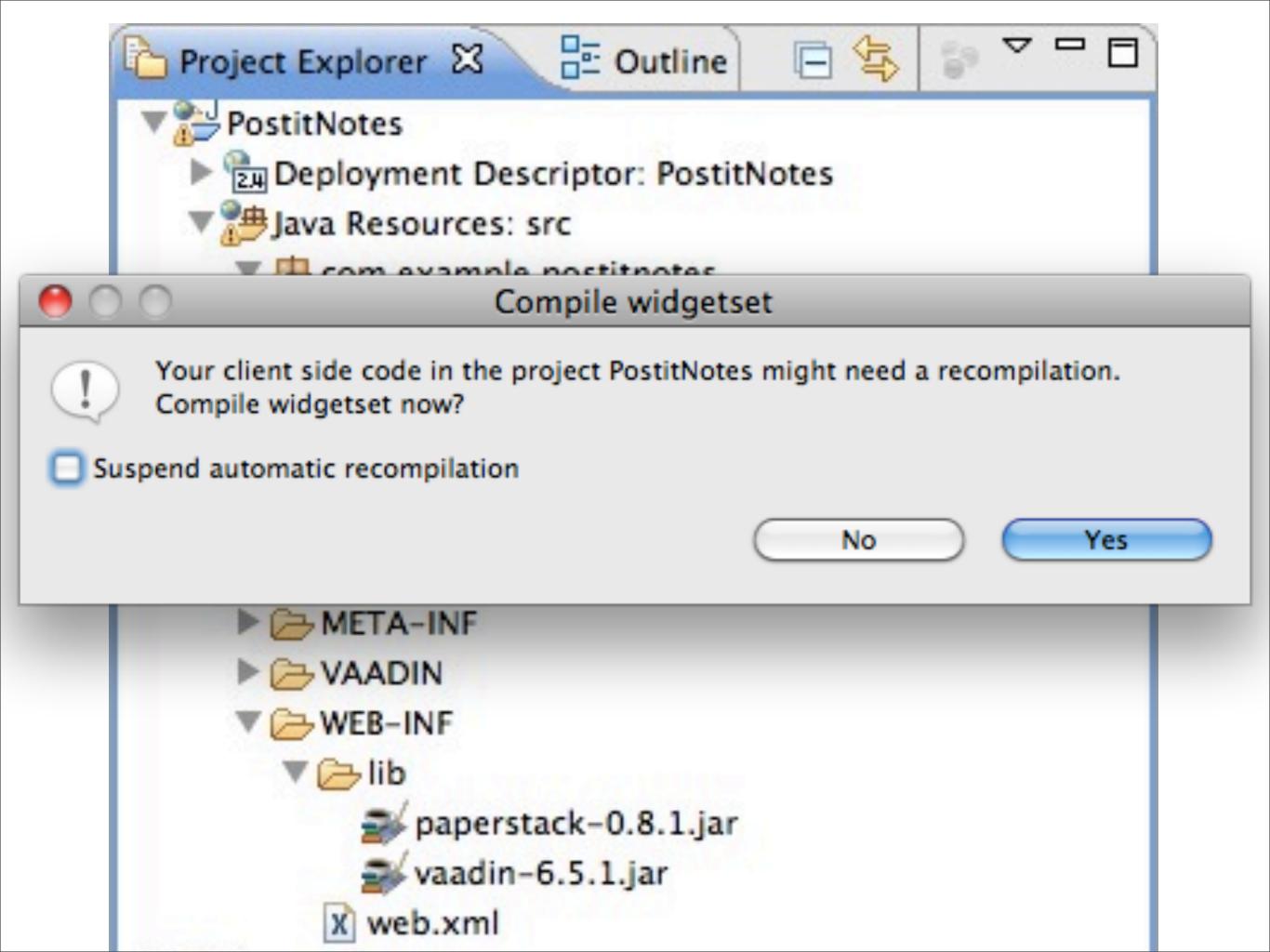






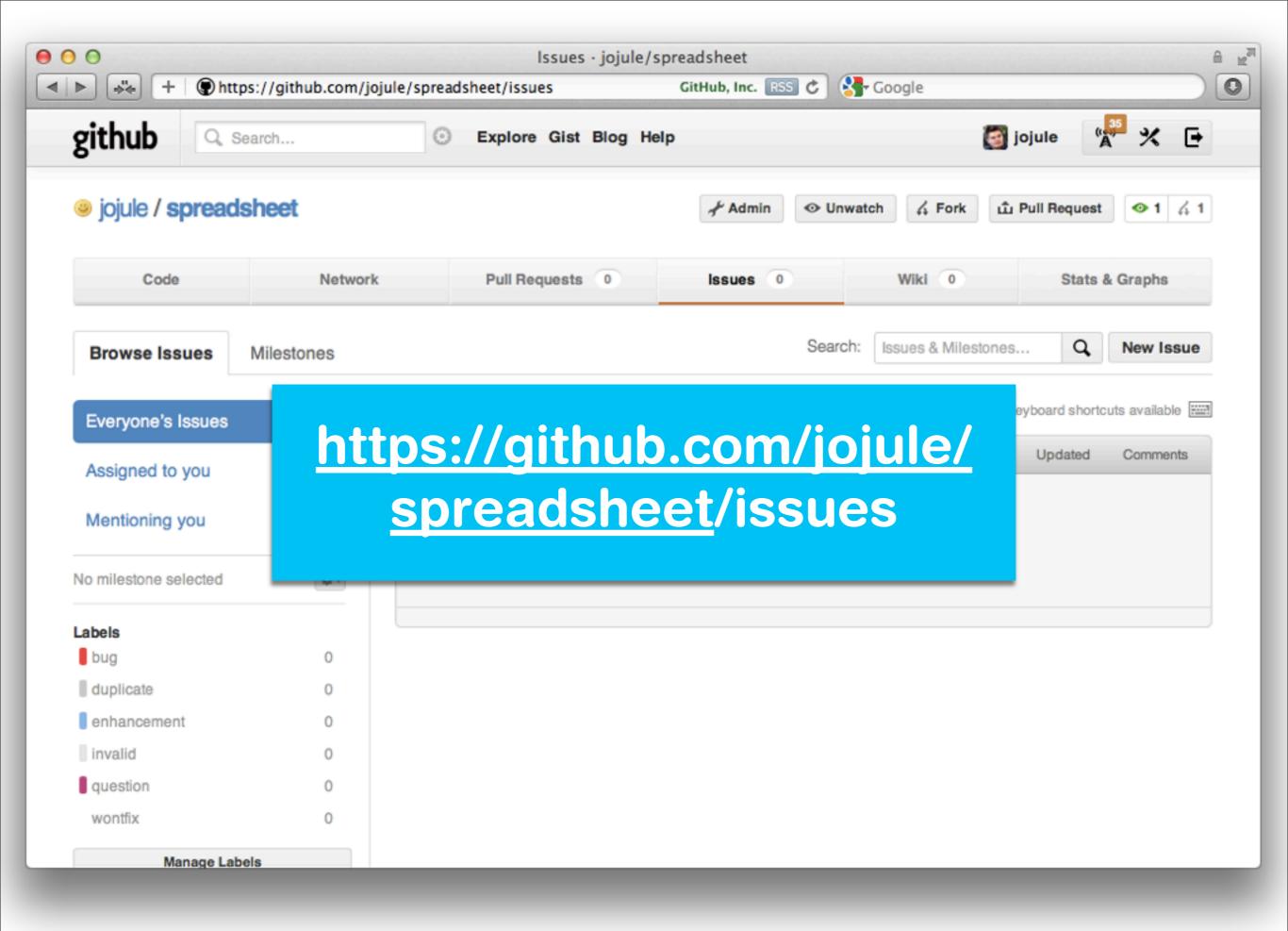


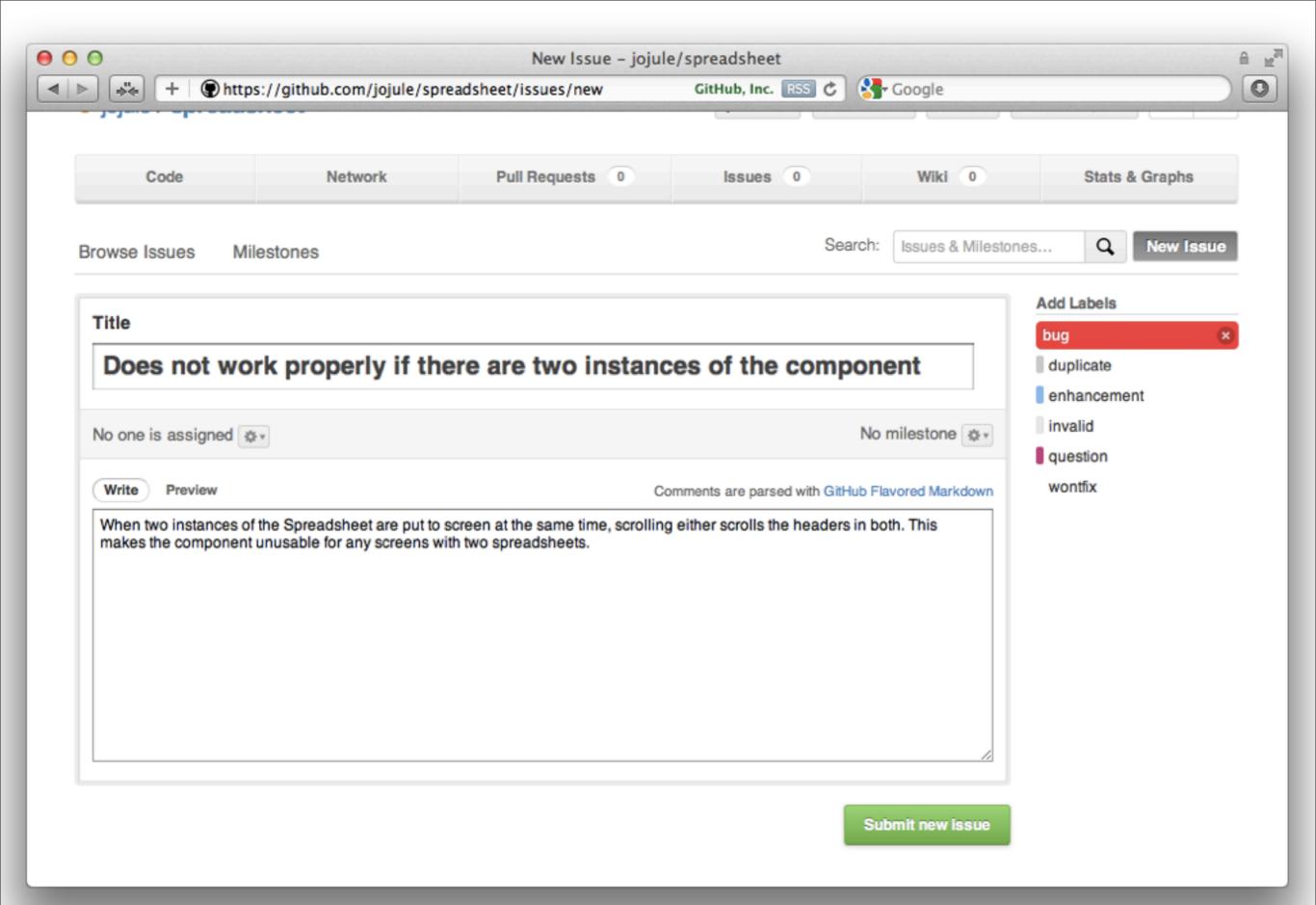
Permalink to this add-on:

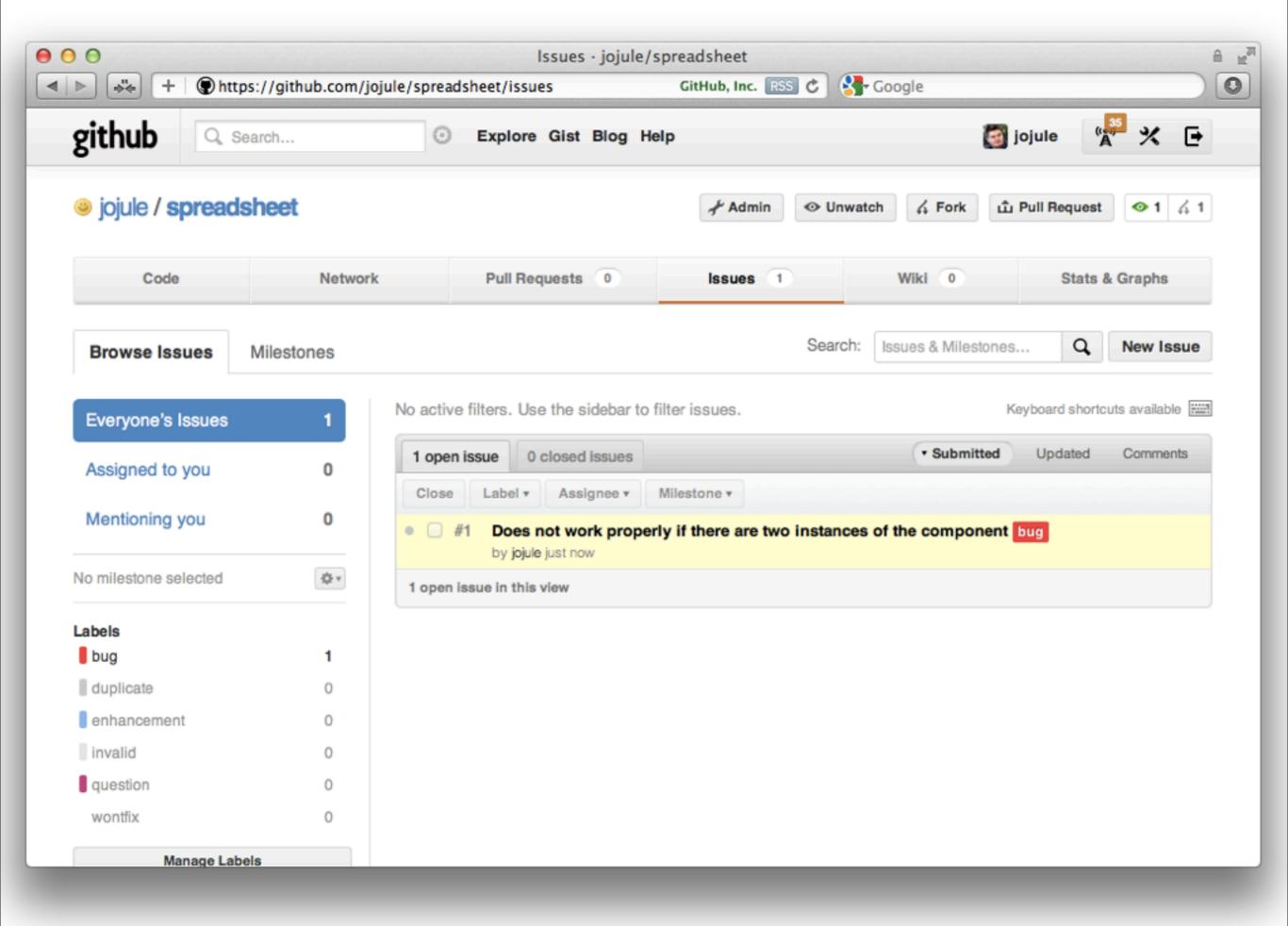


```
PaperStack notes = new PaperStack();
 @Override
 public void init() {
    HorizontalLayout lo= new HorizontalLayout();
    Window mainWindow = new Window("Postitnotes Application", lo);
     lo.setSizeFull();
     lo.addComponent(notes);
     lo.setComponentAlignment(notes, Alignment.MIDDLE_CENTER);
     setMainWindow(mainWindow);
    notes.setWidth("350px");
    notes.setHeight("350px");
    notes.addComponent(new Label("<h1>TODO / Today</h1><div style='font-size: 24px'>" +
       "Enjoy the conference...</div>", Label.CONTENT_XHTML), "#fef49c");
    notes.addComponent(new Label("<h1>TODO / Tomorrow</h1><div style='font-size: 24px'>" +
       "Learn Vaadin!</div>", Label.CONTENT_XHTML), "#b2ffa1");
    notes.addComponent(new Label("<div style='font-size: 60px'><center><br/>br/><br/>" +
       "DOUBLE<br/>
br/><br/>
SPEED</center></div>", Label.CONTENT_XHTML), "#b2ffa1");
     com.vaadin.ui.RichTextArea rta = new RichTextArea();
     rta.setSizeFull();
     notes.addComponent(rta);
     rta.setValue("<span style='font-size: 35pt; color: green;'>You can use any " +
       "Vaadin components here...</span>");
                                                             vaadin
```









Support HOWTO

Issue reported by actual user!

Ignore. wont-fix in best case. (the usual open source way)

Fix after 6 months, maybe...

Fix immediately and thank the user who reported it



Q&A



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Questions?



joonas@vaadin.com vaadin.com/joonas @joonaslehtinen