



GETTING STARTED WITH VAADIN

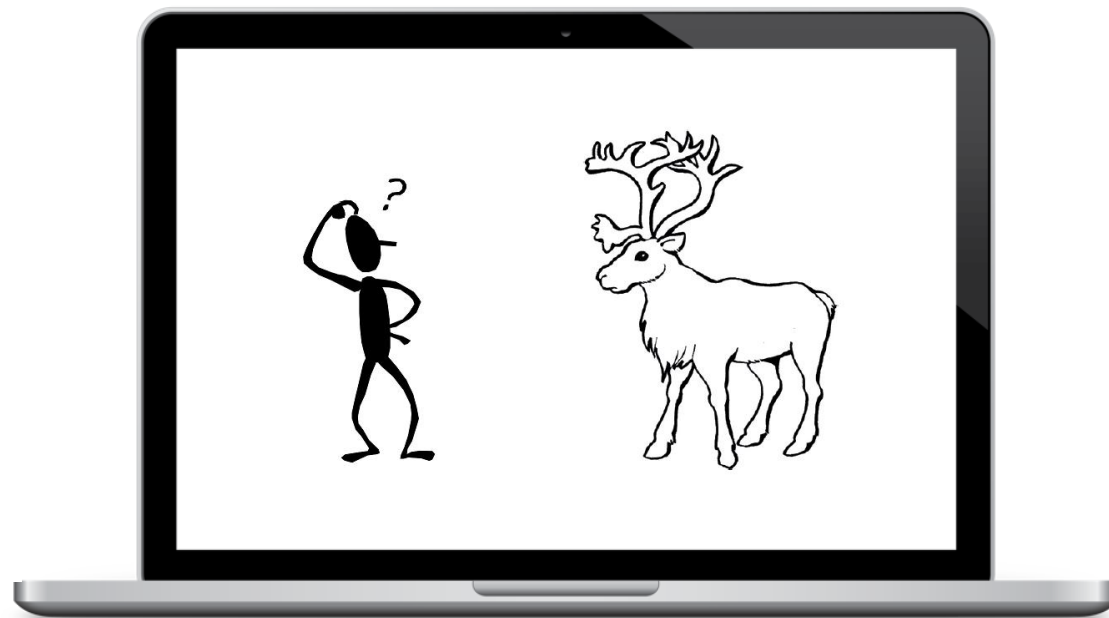
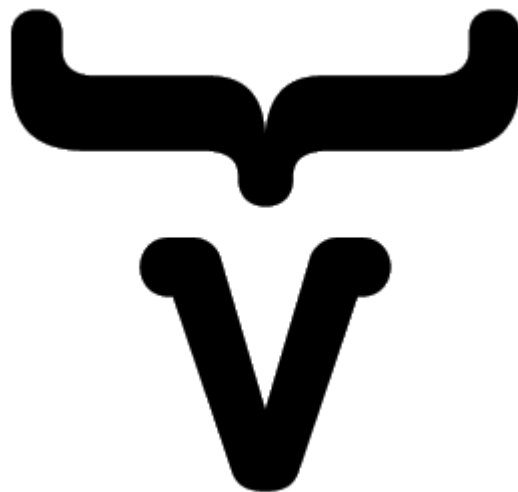
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Vaadin – the Finnish way

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- ◆ java } html >



Vaadin – what is it all about?

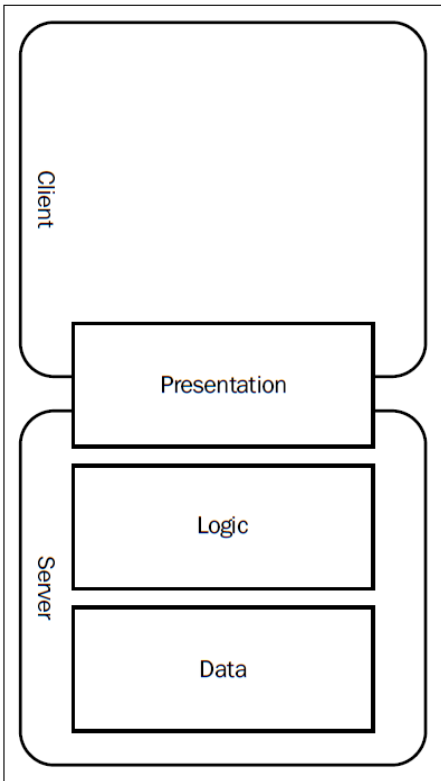
- ◆ Java web application development framework that is designed to make creation and maintenance of high quality web-based user easy
- ◆ Vaadin is a component-based Java web framework for making applications look great and perform well, making your users happy
- ◆ Vaadin is a UI framework for desktop-like webapps
- ◆ User interface framework for server side **rich web applications**

Rich Internet Applications (RIA)

Applications that make developers rich

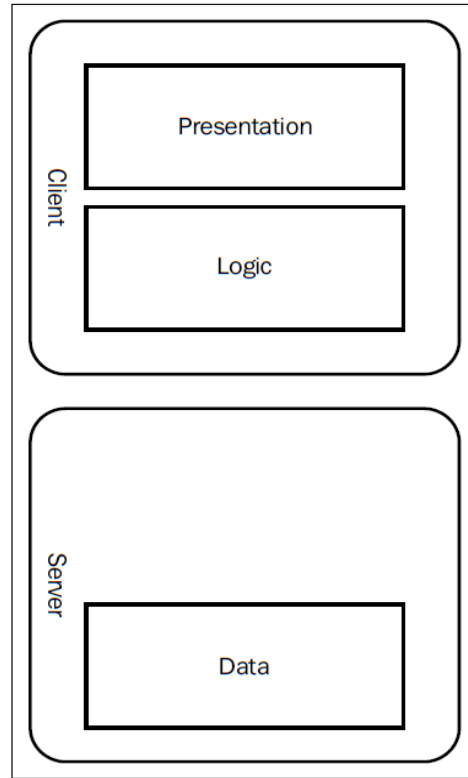
Rich Internet Applications (RIA) – architectures evolution

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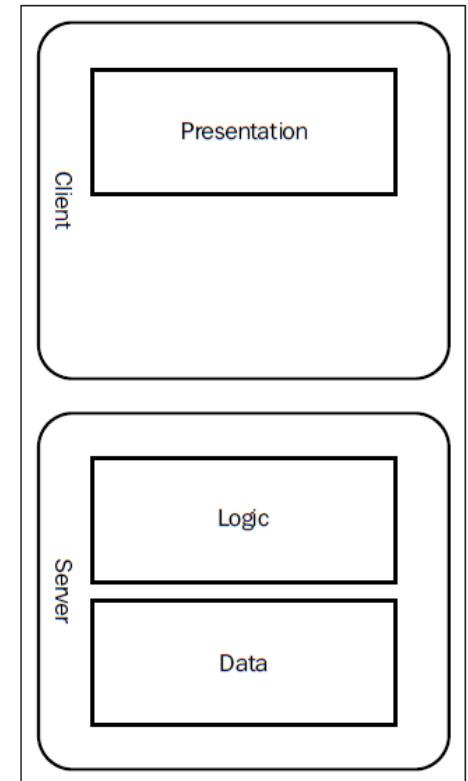
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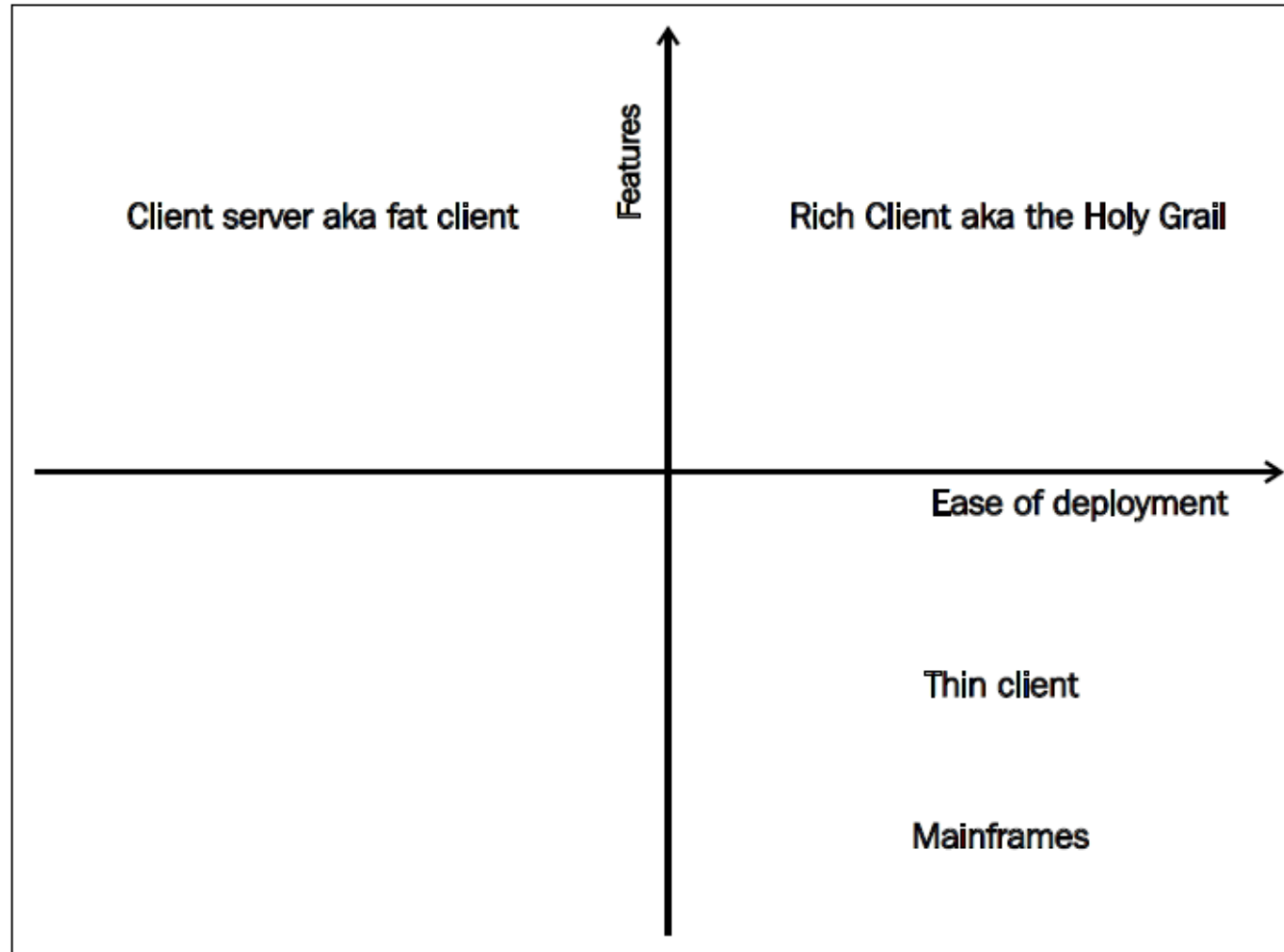


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Rich Internet Applications (RIA) – features vs. ease of deployment



Rich Internet Applications (RIA) - Thin client limitations

- ◆ Poor choice of controls
- ◆ Many unrelated technologies
- ◆ Browser compatibility
- ◆ Page flow paradigm

Technologies behind Vaadin

- ◆ HTML and JavaScript
- ◆ CSS and Saas
- ◆ AJAX
- ◆ GWT
- ◆ Servlets

So what is Vaadin finally all about?

- ◆ Collection of predefined controls transformable to HTML/CSS/Java Script
- ◆ Each control is represent by a Java class and has properties to manage the layout
- ◆ Build HTML pages by writing in Java – the dream of every backend developer
- ◆ Customize the appearance of your controls by building CSS themes
- ◆ The Java servlet framework is used to handle the HTTP request coming out of the Vaadin controls

Vaadin Integration

- ◆ Level 1: Out-of-the-box or available through an add-on, no effort required (JPA, Hibernate, EclipseLink; A bunch of widget add-ons, such as tree tables, popup buttons, contextual menus and many more. Runs on IE, Chrome, Firefox, Safari, Opera, iOS, Android. Supports Eclipse, IntelliJ IDEA, Netbeans, Maven, Ant, Spring Roo. Can run on almost all Servlet Containers)
- ◆ Level 2: More or less documented (Spring, CDI, GWT extensions like Ext-GWT and Smart GWT)
- ◆ Level 3: Possible with effort (Apache iBatis, MongoDB, OSGi, Groovy, Clojure, Scala)

Vaadin Demo

Demo Vaadin application please, sit back and enjoy

Pros

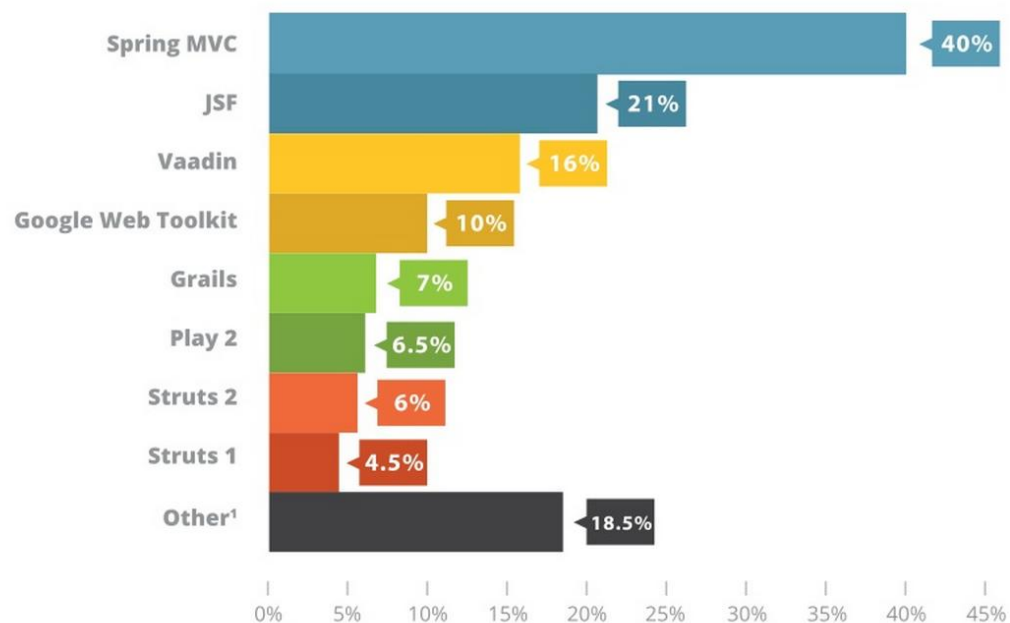
- ◆ Apache License, easy integration, plugins for the major Java IDEs
- ◆ Uses GWT under the hood, it supports all browsers that the version of GWT also supports, conforms to standards such as HTML and CSS
- ◆ Full blown documentation available (Product documentation, tutorials, API documentation)
- ◆ Good commercial support and free user forums
- ◆ Course/webinar offerings

Cons

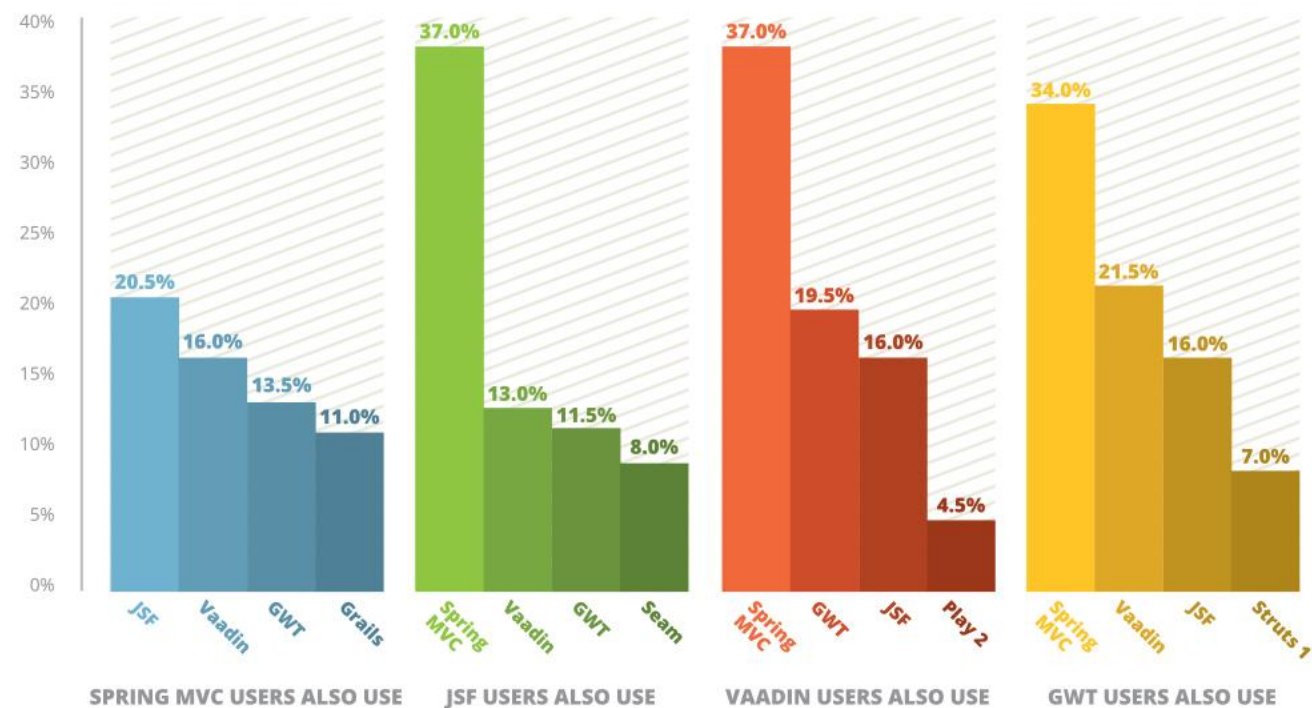
- ◆ Not as scalable (UI state is stored in the server memory)
- ◆ No offline mode (Server is always required)
- ◆ High memory footprint and network traffic
- ◆ Despite of improving GWT and contribute to it – all GWT issues are its issues, too
- ◆ In case of complex problem, knowledge of underlying technologies may be required

Vaadin and its related/competitive technologies

Web frameworks in use *



What % of a framework's users also use something else?



* Multiple selections were possible and the results were normalized to exclude non-users
¹ Including Wicket, Seam, Tapestry, Play 1, ZK framework, VRaptor and about 40 others



Additional resources

- ◆ Book of Vaadin: <https://vaadin.com/book>
- ◆ Learning Vaadin 7: <https://www.packtpub.com/web-development/learning-vadin-7-second-edition>
- ◆ Vaadin 7 Cookbook: <https://www.packtpub.com/web-development/vadin-7-cookbook>
- ◆ Vaadin 7 UI Design By Example Beginner's Guide: <https://www.packtpub.com/application-development/vadin-7-ui-design-example-beginner%E2%80%99s-guide>

Questions & Answers

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THANK YOU!