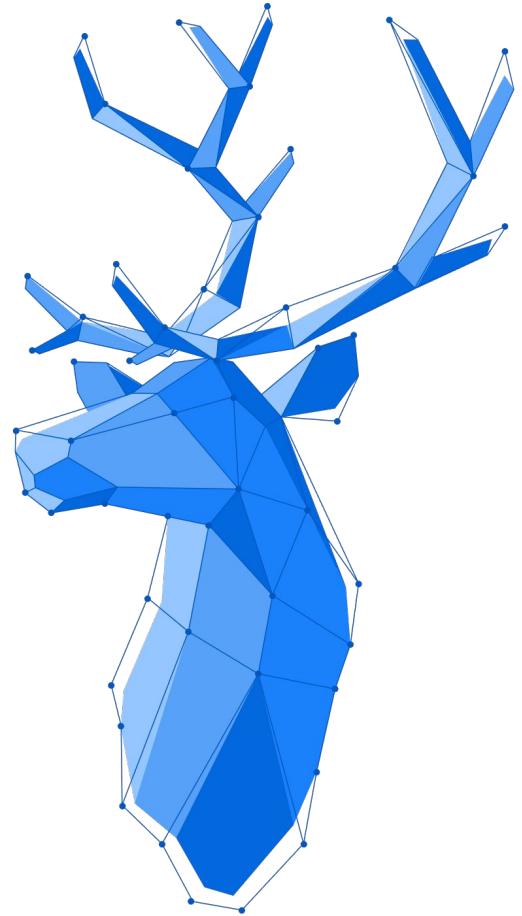


vaadin }>

Modern Web Development with Java: A practical Vaadin Flow Intro

Sebastian Kuehnau
Solution Architect



What is Vaadin?

and what is it good for?

Vaadin

Finnish word meaning
“female reindeer”



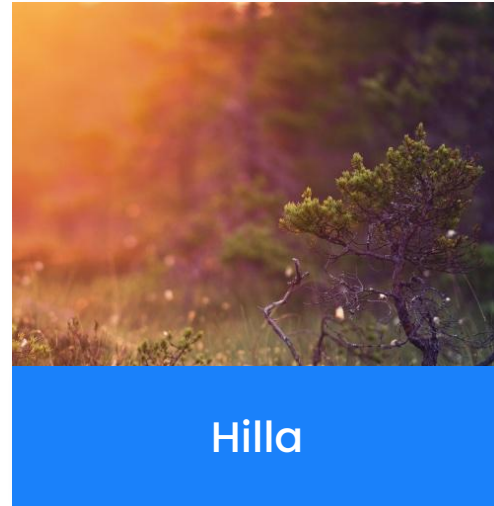
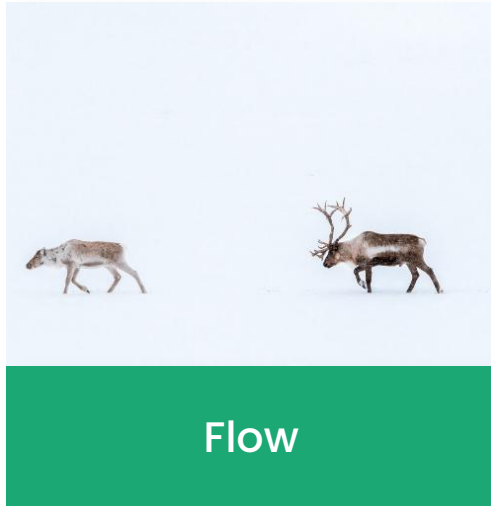
Vaadin

A company creating Open Source web development tools and components

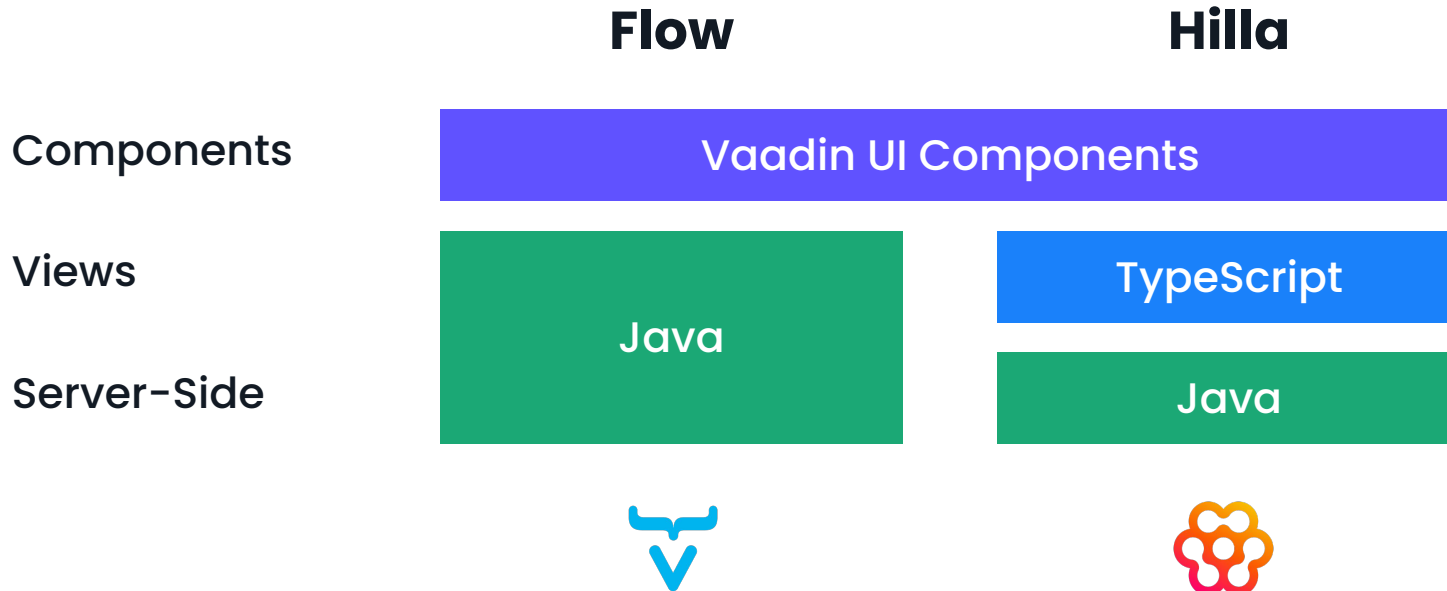


ONE COMPANY

Two Frameworks



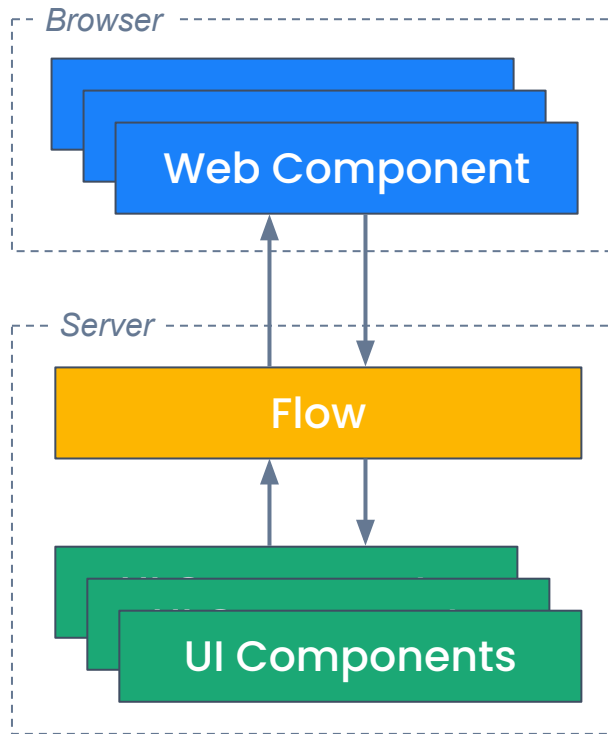
A development model that fits you



What is Flow?

- Framework to build web applications fully in Java
- UI components and various tools
- Type safe data-binding between backend and UI
- Server side architecture
- Automatic state synchronisation between Server and Browser
- Secure communication between browser and client
- Simple integration in the Java Ecosystem
- easy to extend Flow and using third party addons

Architecture



Flow Framework

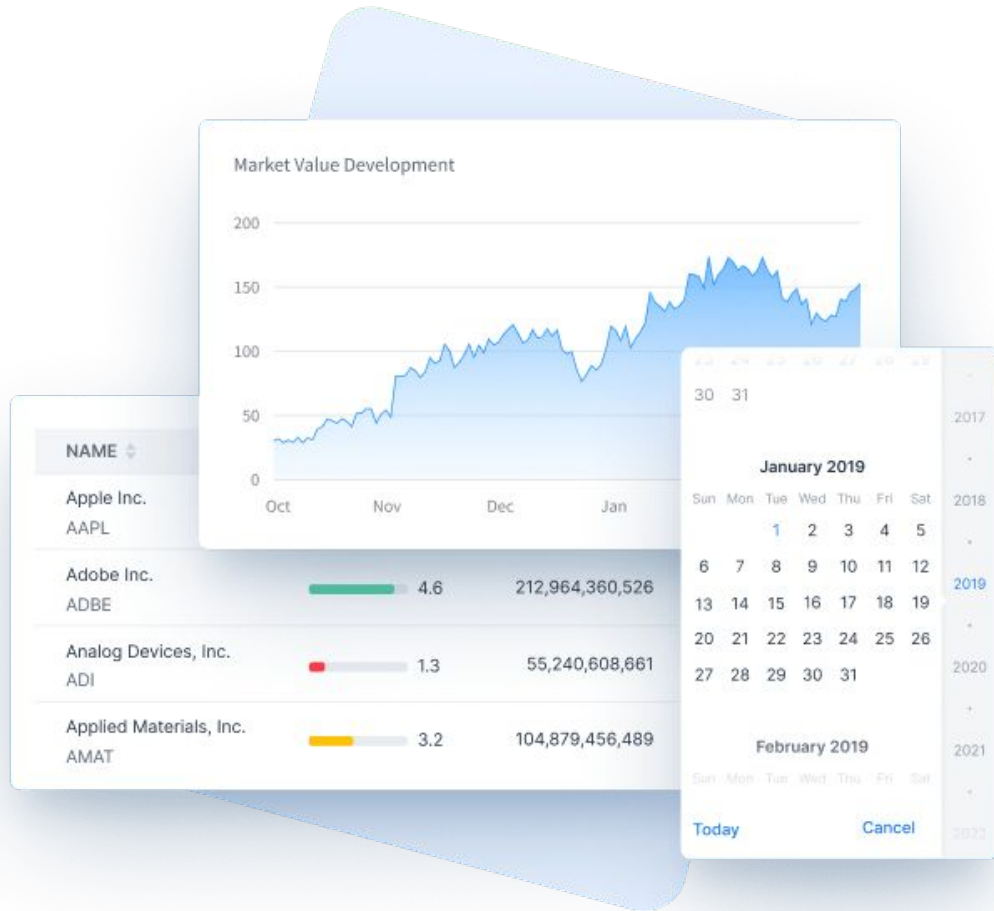
```
@Route(value = "")
public class HelloWorldView extends HorizontalLayout {

    public HelloWorldView() {
        var name = new TextField("Your name");
        var sayHello = new Button("Say hello",
            e -> Notification.show("Hello " + name.getValue()));

        add(name, sayHello);
        setMargin(true);
    }
}
```

Components

- 50+ Built-in components
- Common Architecture
- Web components
- Framework agnostic
- Accessibility



Community

- Focus in good Developer Experience
- Open source community with +200k members
- Support via vaadin.com/forum, GitHub, StackOverflow and Discord
- Meetups and other Events or even more

SUBTITLE

How to start with Flow?

- start.vaadin.com to create your own Vaadin Project
- **Starter** project on github.com/vaadin
 - Spring, CDI, Gradle, Quarkus
- Maven Archetypes

```
mvn -B archetype:generate \  
-DarchetypeGroupId=com.vaadin \  
-DarchetypeArtifactId=vaadin-archetype-application \  
-DarchetypeVersion=LATEST \  
-DgroupId=org.example \  
-DartifactId=my-webapp \  
-Dversion=1.0-SNAPSHOT
```

- vaadin.com/start

Project structure

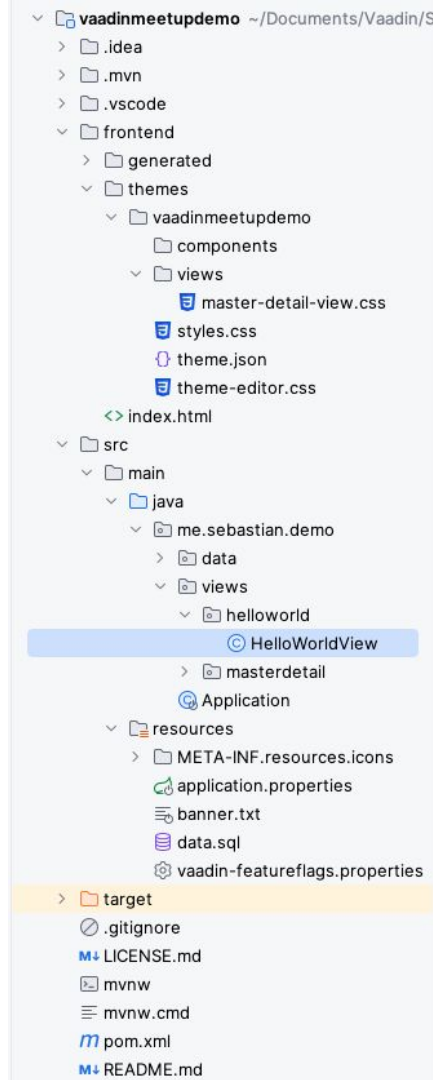
src/main/java for Java sources

pom.xml Maven project configuration

frontend for client side resources, e.g. js, HTML, CSS files

No node _modules, package.json, package-lock.json for npm (*only after installing individual web components*)

No vite.config.ts auto generated file for Vite, frontend build tooling



Let's code

Hello World ...

Let's code

Hello World ...





Vaadin 24

Supported Technologies

- Java 17, Maven 3.5, Gradle 7.3
- Node 18
- Spring Boot 3.0
- Evergreen Browsers + Safari 15
- TC 10.1, Jetty 12, Payara 6, WF 27, JBoss 8.0
- Unsupported Karaf & OSGi

Tools

TestBench

Designer

Multiplatform Runtime

Collaboration Kit

Design System Publisher

Observability Kit

Azure Cloud Kit

SSO Kit

Modernization Tool Kit



WE'D LIKE TO TALK

Contact us

Website

<https://vaadin.com>

Email

seb@vaadin.com

Twitter/X

[@vaadin](https://twitter.com/vaadin)

[@seb_vaadin](https://twitter.com/seb_vaadin)

Onsite

Vaadin % Scaling Spaces

Kopernikusstr. 35 in Berlin 10245

