

# Java EE: Getting Started with JavaServer Faces

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## GETTING STARTED



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# Overview



**What Is JavaServer Faces?**

**Learning Path**

**Installing the Tools**

**Hello, World**



# What Is JavaServer Faces?



Server-side  
Component-based  
Web UI framework  
Part of Java EE



# Server-side

The code you write in a JavaServer Faces application runs on the server, but components can also include JavaScript code that runs on the client.



# Component-based

JavaServer Faces web applications are built using reusable, self-contained components as building blocks, making building webapps faster and easier.



# JavaServer Faces Components

#	Item	↕	Quantity	↕	Price	↕
1	Milk		2		€ 1.60	
2	Bread		1		€ 2.00	
3	Cheese		1		€ 4.75	
4	Tomatoes		6		€ 3.80	

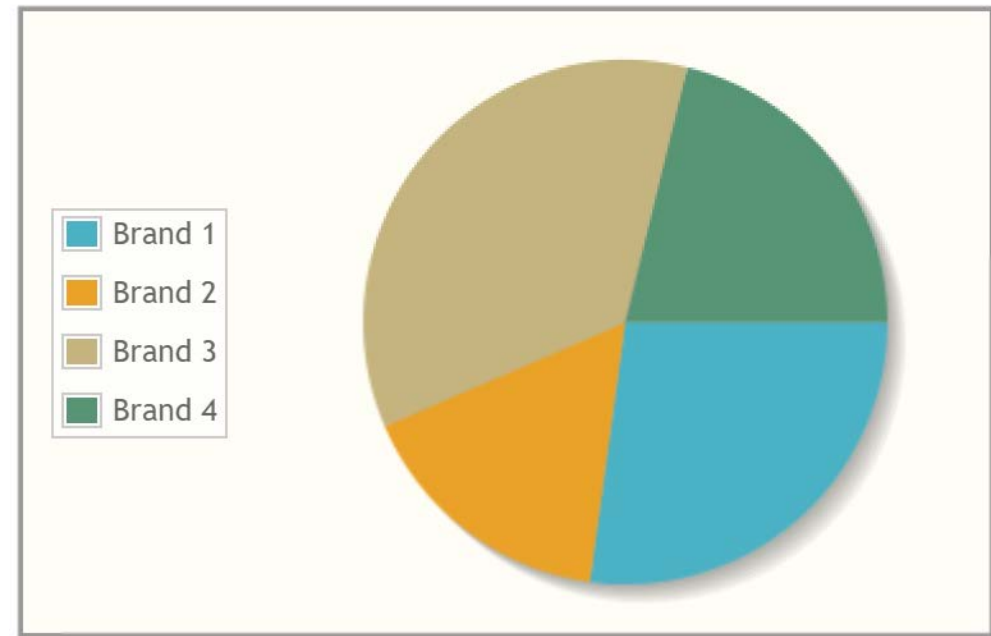
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# JavaServer Faces Components

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Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Simple Pie



# Component-based

JavaServer Faces web applications are built using reusable, self-contained components as building blocks, making building webapps faster and easier.





# Web UI framework

JavaServer Faces is focused on the user interface part of web applications – you define pages in the **Facelets** view definition language.



# Learning Path



## Prerequisites

- The Java programming language
- Basic knowledge of HTML, CSS, XML



# Learning Path



## Servlets and JSPs

- Java Web Fundamentals  
by Kevin Jones
- Java EE: Programming Servlets  
by Sekhar Srinivas



# Learning Path



## Java EE

- Java EE: The Big Picture  
by Antonio Goncalves
- Context and Dependency Injection  
by Antonio Goncalves
- Bean Validation  
by Antonio Goncalves
- The Java EE 7 Tutorial  
Oracle



# Learning Path



## Beyond This Course

- Java Persistence API  
by Antonio Goncalves



# Installing the Tools



Java Development Kit (JDK) 8

Java EE 7 SDK

Eclipse IDE

Optional: Apache Maven

# Installing the Tools



## Java Development Kit (JDK) 8

- <http://www.oracle.com/javase>
- Download the JDK; not the JRE
- Set the PATH environment variable

## Java EE 7 SDK

- Includes GlassFish 4
- <http://www.oracle.com/javaee>

# Installing the Tools



## Eclipse IDE

- <http://www.eclipse.org>
- Eclipse IDE for Java EE Developers
- Setup support for GlassFish 4



# Installing the Tools



## Optional: Apache Maven

- <http://maven.apache.org>
- Course: Maven Fundamentals  
by Bryan Hansen

# Demo



## Hello, World

- Deploying and running your first JavaServer Faces webapp



# Summary



## JavaServer Faces

- Server-side, component-based, web UI framework
- Part of Java EE

## Hello, World

Next: Creating Web Pages using Facelets

