Introduction to PrimeFaces

- What is PrimeFaces?
- PrimeFaces Component Overview

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What is PrimeFaces?

- PrimeFaces is an open-source JSF component library
- PrimeFaces is very easy to install and configure and has no dependencies (unless you use optional features)
- Web site with demo application: http://www.primefaces.org



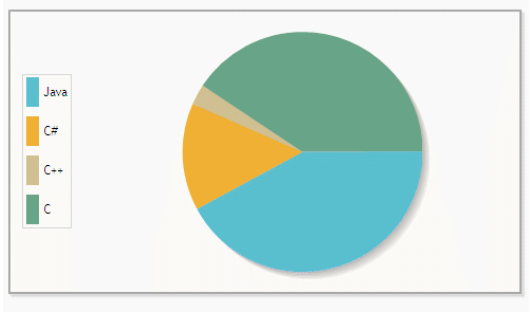
PrimeFaces was created by Cagatay Civici and is maintained by his company Prime Teknoloji.

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PrimeFaces Features

- Over 100 JSF components, many of which are Ajax enabled
- **Theme** (skinning) support; over 30 themes available
- Support for mobile Web applications
- Support for **Ajax push** applications





You can also create your own custom themes.

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Component Survey

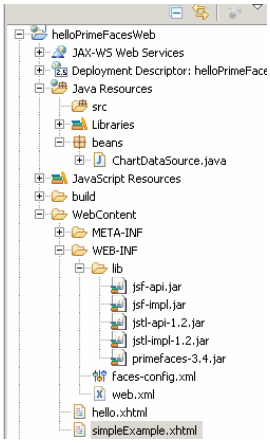
- PrimeFaces includes over 100 custom JSF components, including:
- Charting (e.g. bar and pie charts)
- Panels
- Google Maps
- Progress Bars
- Auto Complete Suggestion Boxes
- Many More



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Writing a PrimeFaces Application

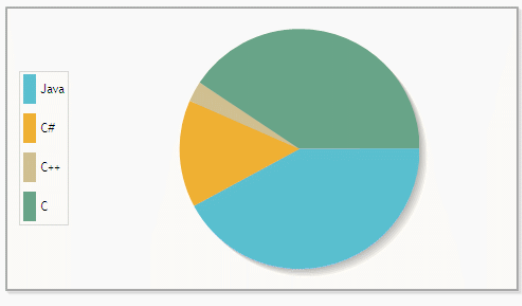
- Install PrimeFaces JAR and JSF implementation JARs (if necessary) into **WEB-INF/lib**
- Write XHTML views that use PrimeFaces components
- Configure JSF **managed beans** and navigation rules in the normal way
- Optionally download and configure a theme



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Simple PrimeFaces Example

```
1    <html xmlns="http://www.w3.org/1999/xhtml"
2       xmlns:h="http://java.sun.com/jsf/html"
3       xmlns:p="http://primefaces.org/ui">
4    <h:head>
5    </h:head>
6    <h:body>
7      <h:form>
8        <p:pieChart value="#{chartDataSource.model}"
9          legendPosition="w"/>
10     </h:form>
11   </h:body>
12   </html>
```



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Simple PrimeFaces Example, cont'd

```
1    package beans;
2
3    import javax.faces.bean.ManagedBean;
4    import javax.faces.bean.RequestScoped;
5    import org.primefaces.model.chart.PieChartModel;
6
7    @ManagedBean
8    @RequestScoped
9    public class ChartDataSource {
10       private PieChartModel model = new PieChartModel();
11
12       public ChartDataSource() {
13           model.set("Java", 678);
14           model.set("C#", 234);
15           model.set("C++", 45);
16           model.set("C", 656);
17       }
18
19       public PieChartModel getModel() {
20           return model;
21       }
22   }
```


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Chapter Summary

In this chapter, you learned:

- About the PrimeFaces component framework
- How to configure and write a simple PrimeFaces application

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