

- **Tag 1 – Einführung**

- Installation
- Erste Anwendung
- Architektur

- **Tag 2 – Entwicklung**

- Models
- Darstellung
- Formulare
- Ajax



- **Tag 3 – Fortgeschrittene Themen**

- Tests
- Security & Deployment
- Lokalisierung & Internationalisierung
- Performance
- Best Practices

COMPONENTS

Labels

- Dynamische Ausgabe von Zeichenketten
- Convenience-Konstruktor ohne Model

- HTML

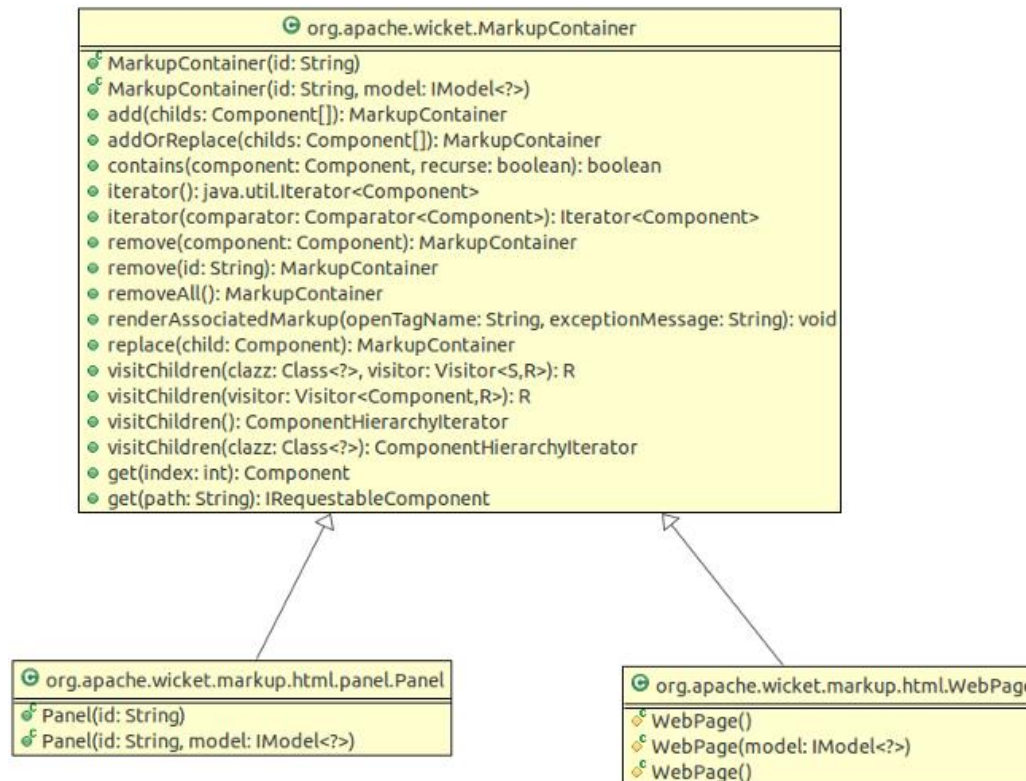
`<p>Anbieter des Trainings: </p>`

- Java

`add(new Label("trainer", "anderScore"));`

Panels

- Wiederverwendbare Container für Komponenten
- HTML + Java



Panels

- HTML: Panel

```
<html>
```

```
<head></head>
```

```
<body>
```

```
<wicket:panel>
```

```
    <!-- Diverse Labels. Äußeres Gerüst wird ignoriert! -->
```

```
</wicket:panel>
```

```
</body>
```

```
</html>
```

Panels

- Java: Panel

```
public class PersonPanel extends Panel {  
  
    public PersonPanel(String id, IModel<Person> person) {  
        super(id);  
        setDefaultModel(new CompoundPropertyModel(person));  
  
        add(new Label("name"));  
        add(new Label("surname"));  
        add(new Label("address"));  
        add(new Label("email"));  
        add(new Label("spouse.name"));  
    }  
}
```

Panels

- Java: Page

```
public class PersonPage extends WebPage {  
  
    public PersonPage() {  
        Person john = new Person("John", "Doe");  
        IModel<Person> person = new Model<>(john);  
  
        add(new PersonPanel("person", person));  
    }  
}
```

Templating

- Vorgabe eines gemeinsamen Rahmens
 - Header
 - Navigation
 - Content
 - Footer
- Strategie
 - Panels für gemeinsame Bereiche konstruieren
 - Panels zu Template Page zusammenbauen
 - Subpages: Nutzung von Java und Markup Inheritance
 - Subpages: Spezifischen Content definieren
- Spezielle Tags
 - wicket:child
 - wicket:extend

Templating

- HTML: Template Page

```
<html>
```

```
<head></head>
```

```
<body>
```

```
<div id="header" wicket:id="headerPanel">header</div>
```

```
<div id="body">
```

```
  <div id="menu" wicket:id="menuPanel">menu</div>
```

```
  <wicket:child/>
```

```
</div>
```

```
<div id="footer" wicket:id="footerPanel">footer</div>
```

```
</body>
```

```
</html>
```

Templating

- Java: Template Page

```
public class GFUTemplate extends WebPage {  
  
    private Panel headerPanel;  
    private Panel menuPanel;  
    private Panel footerPanel;  
  
    public GFUTemplate() {  
        add(headerPanel = new HeaderPanel("headerPanel"));  
        add(menuPanel = new MenuPanel("menuPanel"));  
        add(footerPanel = new FooterPanel("footerPanel"));  
    }  
}
```

Templating

- HTML: Page

`<html>`

`<head></head>`

`<body>`

`<wicket:extend>`

<!-- Tags für die gewünschten Komponenten einfügen -->

`</wicket:extend>`

`</body>`

`</html>`

Templating

- Java: Page

```
public class PersonPage extends GFUTemplate {  
  
    public PersonPage() {  
        super();  
  
        // Gewünschte Komponenten einfügen  
    }  
}
```

Repeater

- Mehrfaches Anzeigen von Elementen
- Beispiel: Listen
- Alternativen in Wicket
 - RepeatingView
 - ListView
 - DataView

RepeatingView

- Wiederholung eines einfachen Markup-Fragments

- HTML

```
<ul>  
  <li wicket:id="listItems"></li>  
</ul>
```

- Java

```
RepeatingView listItems = new RepeatingView("listItems");
```

```
listItems.add(new Label(listItems.newChildId(), Model.of("green")));  
listItems.add(new Label(listItems.newChildId(), Model.of("blue")));  
listItems.add(new Label(listItems.newChildId(), Model.of("red")));
```

ListView

- Darstellung komplexeren Markups
- Jedes Element wird zu eigenem ListItem
- HTML

```
<div wicket:id="persons">  
  <div><b>Full name: </b></div>  
  <div wicket:id="fullName"></div>  
</div>
```

ListView

- Java

```
public HomePage(final PageParameters parameters) {  
    List<Person> persons = Arrays.asList(new Person("John", "Doe"));  
  
    add(new ListView<Person>("persons", persons) {  
  
        @Override  
        protected void populateItem(ListItem<Person> item) {  
            item.add(new Label("fullName",  
                               new PropertyModel(item.getModel(), "fullName")));  
        }  
    });  
}
```


DataView

- Effiziente Darstellung großer Datenmengen
- DataProvider
 - Paging, Sorting
 - ListDataProvider
 - SortableDataProvider
- HTML

```
<table>
  <tr>
    <th>Name</th><th>Vorname</th>
  </tr>
  <tr wicket:id="rows">
    <td wicket:id="dataRow"></td>
  </tr>
</table>
```

DataView

- Java

//Methode außerhalb definiert

```
List<Person> persons = loadPersons();
```

```
ListDataProvider<Person> listDataProvider = new ListDataProvider<>(persons);
```

```
DataView<Person> dataView = new DataView<>("rows", listDataProvider) {
```

```
    @Override
```

```
    protected void populateItem(Item<Person> item) {
```

```
        Person person = item.getModelObject();
```

```
        RepeatingView repeatingView = new RepeatingView("dataRow");
```

```
        repeatingView.add(new Label(repeatingView.newChildId(), person.getName()));
```

```
        repeatingView.add(new Label(repeatingView.newChildId(), person.getSurname()));
```

```
        item.add(repeatingView);
```

```
    }
```

```
};
```

```
add(dataView);
```