

# COMPONENTS

## Labels

- Dynamische Ausgabe von Zeichenketten
- Convenience-Konstruktor ohne Model

- HTML

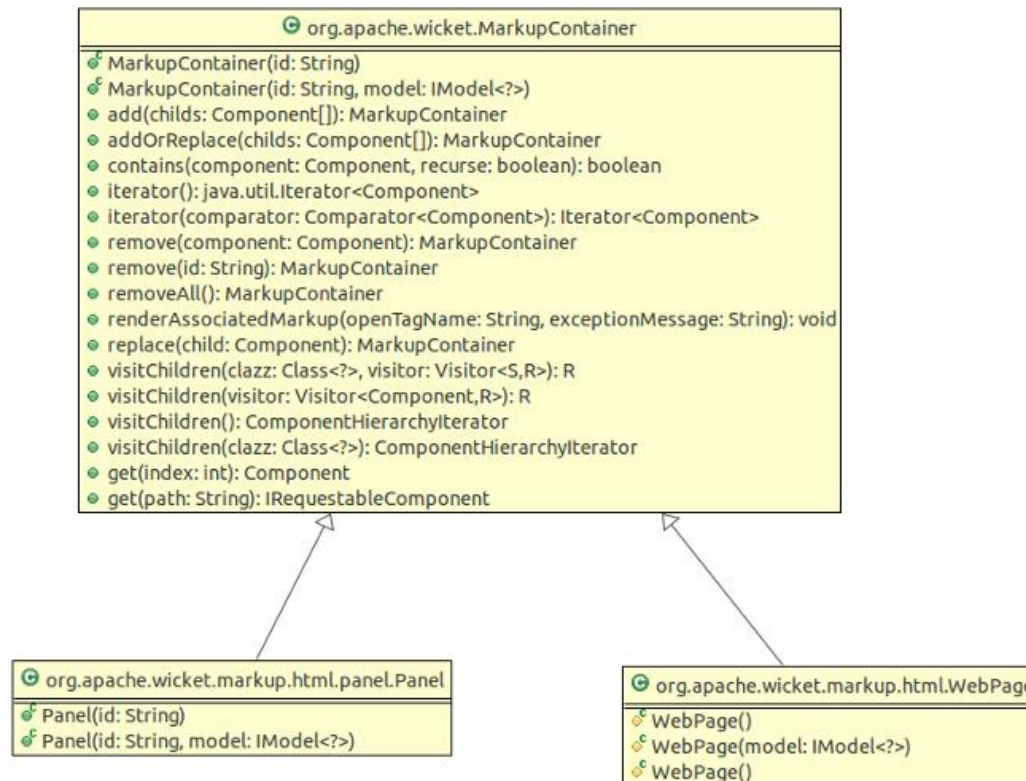
`<p>Anbieter des Trainings: <span wicket:id="trainer"></span></p>`

- Java

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

## 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 Component headerPanel;  
    private Component menuPanel;  
    private Component 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(), "green"));  
listItems.add(new Label(listItems.newChildId(), "blue"));  
listItems.add(new Label(listItems.newChildId(), "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);
```