

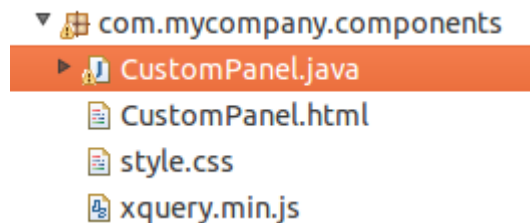
Resources

Grundlagen

- Resources: CSS, JS, PDF, Images, ...
- OO-Repräsentation: ResourceReference
- Statische Ressourcen
 - Package Resources
 - HeaderContributors
 - Resource Bundles
 - NIO Resources
- Dynamische Ressourcen
 - Custom Resources
 - JAX-RS-Annotationen
- Mounting an URL möglich
- Shared Resources

Package Resources

- Ressourcen in gleichem Package wie HTML + Java
- Distribution mit Komponenten (→ Abgeschlossenheit)
- PackageResourceReference
- Images: Responsive Design
- URL
 - `<Applikation>/wicket/resource/<Klasse>/<Name>-<ver-<id>>[.Dateiendung]`
 - `./wicket/resource/net.gfu.CustomPanel/calendar-ver-1297887542000.jpg`



Package Resources

- HTML

```
<html>
```

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

```
<body>
```

```
<wicket:panel>
```

Package resource image: ``

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

```
</body>
```

```
</html>
```

Package Resources

- Java

```
public class CustomPanel extends Panel {  
  
    public CustomPanel(String id) {  
        super(id);  
  
        Image image = new Image("packageResPicture",  
                                new PackageResourceReference(getClass(), "large.jpg"),  
                                new PackageResourceReference(getClass(), "medium.jpg"),  
                                new PackageResourceReference(getClass(), "small.jpg"));  
        image.setXValues("1024w", "640w", "320w");  
        image.setSizes("(min-width: 36em) 33.3vw", "100vw");  
  
        this.add(image);  
    }  
}
```

Header Contributors

- Interface *IHeaderContributor*
- Einfügen von Header Items in umgebende Page
 - CSSHeaderItem
 - JavaScriptHeaderItem
 - MetaDataHeaderItem
 - OnDomReadyHeaderItem
 - PriorityHeaderItem
 - ...
- Jede Komponente ist selbst HeaderContributor!

Header Contributors

- Java

```
public class MyComponent extends Component{

    @Override
    public void renderHead(IHeaderResponse response) {
        PackageResourceReference cssFile =
            new PackageResourceReference(this.getClass(), "style.css");
        CssHeaderItem cssItem = CssHeaderItem.forReference(cssFile);

        response.render(cssItem);
    }
}
```

Resource Bundles

- Zusammenfassung von Ressourcen (vgl. Grunt)
- Nicht zu verwechseln mit Java Resource Bundles!
- Registrierung in Application-Klasse
- Applikationsweite Verwendung

Resource Bundles

- Java

```
@Override
public void init() {
    super.init();

    getResourceBundles().addJavaScriptBundle(WicketApplication.class,
        "jqueryUiJs",
        jqueryJsReference,
        jqueryUiJsReference);

    getResourceBundles().addCssBundle(WicketApplication.class,
        "jqueryUiCss",
        jqueryCssReference,
        jqueryUiCssReference);
}
```

NIO Resources

- Zugriff auf Ressourcen mittels Java NIO (seit Wicket 7.2.0)
- Laden von Daten aus dem Dateisystem

- HTML

```
<video wicket:id="video"/>
```

- Java

```
URI uri =  
URI.create("jar:file:///videosFolder/videos.zip!/folderInZip/MyVideo.mp4");  
  
Path path = FileSystemResourceReference.getPath(uri);  
FileSystemResourceReference ref = new FileSystemResourceReference("myvideo", path);  
Video video = new Video("video", ref);  
add(video);
```

Custom Resources

- Einbindung dynamisch zu erstellender Inhalte
- Erzeugung bei Bedarf durch WriteCallback
- Direkter Zugriff auf ResourceResponse

```
public class RSSProducerResource extends AbstractResource {

    @Override
    protected ResourceResponse newResourceResponse(Attributes attributes) {
        ResourceResponse resourceResponse = new ResourceResponse();
        resourceResponse.setContentType("text/xml");
        resourceResponse.setTextEncoding("utf-8");

        resourceResponse.setWriteCallback(new WriteCallback()
        {
            @Override
            public void writeData(Attributes attributes) throws IOException
            {
                OutputStream outputStream = attributes.getResponse().getOutputStream();
                Writer writer = new OutputStreamWriter(outputStream);
                SyndFeedOutput output = new SyndFeedOutput();
                try {
                    output.output(getFeed(), writer);
                } catch (FeedException e) {
                    throw new WicketRuntimeException("Problems writing feed to response...");
                }
            }
        });

        return resourceResponse;
    }
    // Methode getFeed()...
}
```

Shared Resources

- Applikationsweit verfügbare Ressourcen
- Registrierung in Application-Klasse
- Einbindung nach Bedarf

Shared Resources

- Application-Klasse

```
@Override
public void init(){
    RSSProducerResource rssResource = new RSSProducerResource();
    // ...
    getSharedResources().add("globalRSSProducer", rssResource);
}
```

- Einbindende Komponente

```
add(new ResourceLink("globalRssLink", new
SharedResourceReference("globalRSSProducer")));
```