Customizing APEX Universal Theme

Practical Examples

Who are we?

APEX Experts is a small group of leading APEX Experts. Our goal is to become the number one address for APEX projects in the german speeking area.

Denes Kubicek

Markus Hohloch

Tobias Arnhold

Applikationsentwicklung

Analysys & Conception

Consulting & Coaching

Plug-in-Development

Database Configuration

Application Tuning

Fixed-Price Projects

APEX EXPERTS
NUR APEX, NUR EXPERTEN

Agenda

- Different Examples – Different Approaches
- Code stored in the Theme Roller
- Code stored in the File System – Path Syntax
- Modifying single Application Elements
- Item Container

APEX
EXPERTS
NUR APEX, NUR EXPERTEN

History

- Created a lots of different Templates for many applications starting with APEX 2.0
- The approach changed from version to version
- Difficulties after major version changes
- As of APEX 5 the things changed and the layout „security" becomes much higher with UT

Problems in the Past

- Templates – a lots of different templates
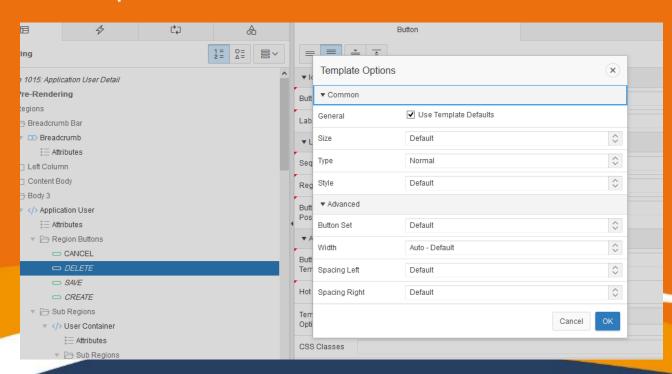- Table based and
- Required CSS Tuning

APEX
EXPERTS
NUR APEX, NUR EXPERTEN

Current Situation

- One Theme – 42
- Few Templates per Type
- Tuning with Template Options

APEX
EXPERTS
NUR APEX, NUR EXPERTEN

Current Situation

- Declarative
- One Click
- No Additional Template
- No CSS

Using Template Options

- Create your own - Examples

Approach I

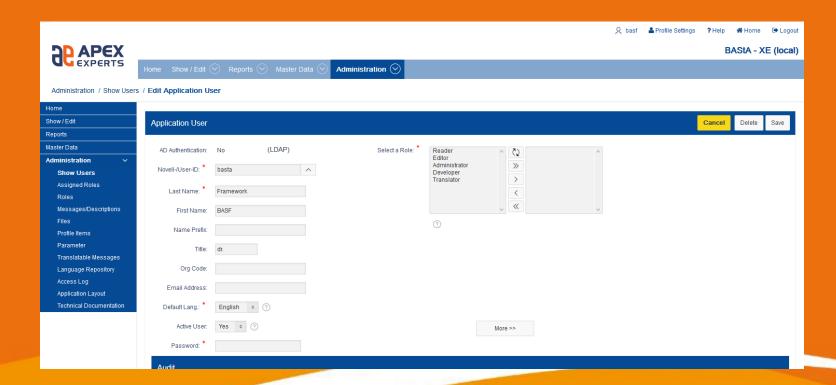- Placing Custom CSS in a single File – Theme Roller

Approach I

- Advantages:
  - Can be installed by using one packaged application on any server – no need to get anything from the file system.
  - It covers the basic needs – own template in the appropriate custom layout.
  - Can be extended by adding addtional code to the template or on pages.
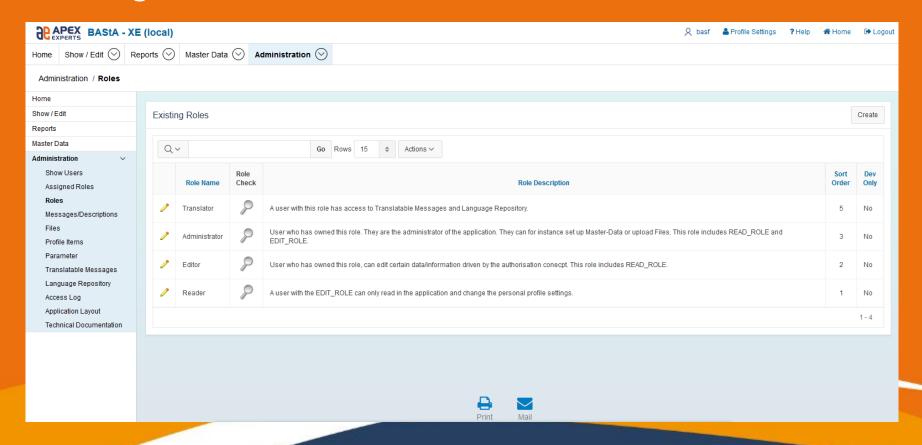
Approach II

- Using CSS Patch

Approach II

- Using CSS Patch

Approach II

- Reasons:
  - Loaded after the original ressources.
  - Overriding the originals with custom.
  - Changes on a more detailed level possible than with a Theme Roller.

Approach II

- How does it work:
  - THEMEPATH = [folder on the server containing a file structure]
  - THEME_COLOR = [Basic UI color, i.E. blue,red, …]
  - /blue (contains the logo images)
  - /[other colors] (corporate logo for {other colors set by THEME_COLOR})
  - /images (other images independant from the color style)

APEX EXPERTS
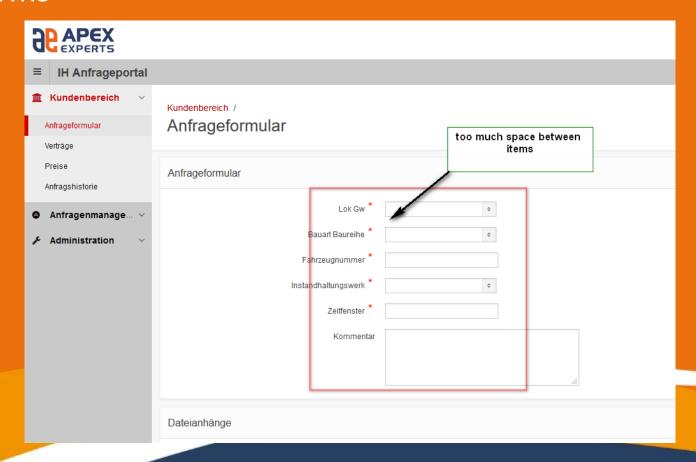NUR APEX, NUR EXPERTEN

Approach II

- How does it work:
  - Other files:
    - basf_ut.js: javascript functions for one layout
    - blue.style.css: css file for blue layout
    - sapui5.css: css for sap5 UI

Approach II

- How does it work:
  - Application > User Interfaces > Desktop > User Interface Details > JavaScript > File URL's

    - #THEMEPATH#basf_ut.js

APEX
EXPERTS
NUR APEX, NUR EXPERTEN

Modifying Single Application Elements

- Forms

Modifying Single Application Elements

- Forms

```css
.t-Form-labelContainer {display:block;white-space:nowrap}


.t-Form-inputContainer, .t-Form-inputContainer.col, .t-Form-labelContainer, .t-Form-
labelContainer.col {
  padding-top: .2rem !important;
  padding-right: .6rem !important;
  padding-bottom: .3rem !important;
  padding-left: .6rem !important;
}

.t-Body-contentInner {
    padding: 6px !important;
}
```
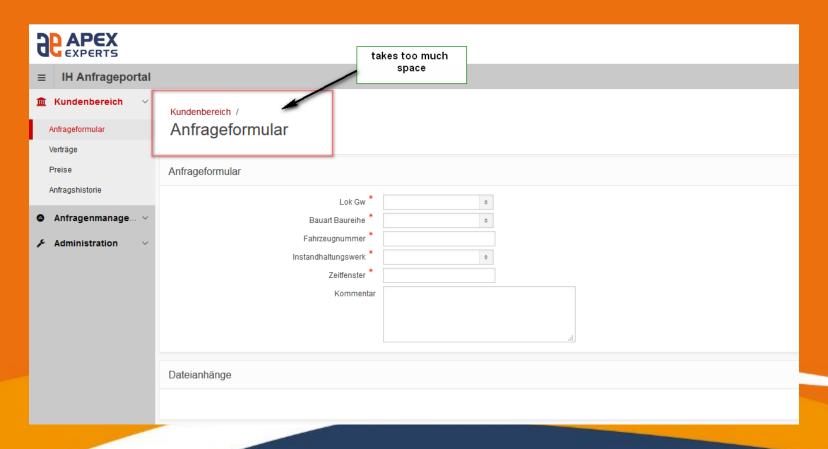
APEX
EXPERTS
NUR APEX, NUR EXPERTEN

Modifying Single Application Elements

- Forms (much better)

Modifying Single Application Elements

- Breadcrumbs

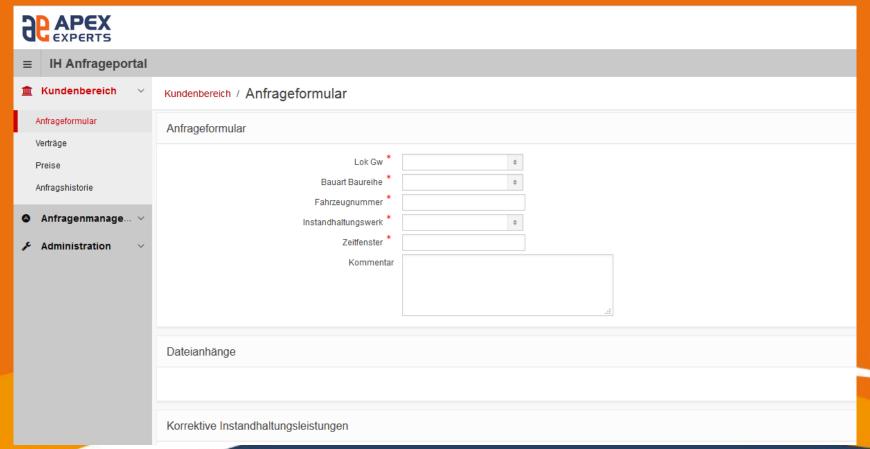# Modifying Single Application Elements

- Breadcrumbs

```
.t-BreadcrumbRegion-body {padding-top: 8px !important; padding-bottom: 6px !important; padding-left: 18px !important; }

.t-Breadcrumb  {display:flex;
  list-style:none;vertical-align:top !important}

.t-Breadcrumb-item {position:relative; bottom: -4px; left: 0px;}

.t-Breadcrumb-item:last-child {position:relative !important; bottom: 0px !important; left: 3px !important; font-size: 1.7em !important; }
```
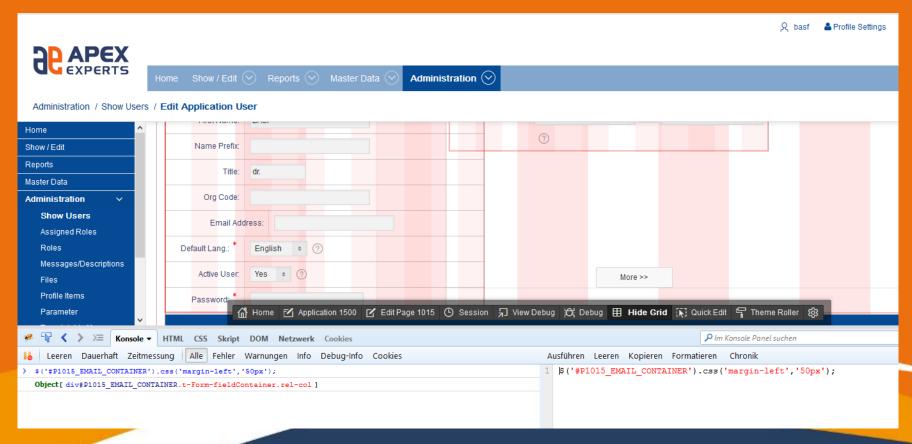
Modifying Single Application Elements

- Breadcrumbs (much better)

Modifying Single Application Elements

- Breadcrumbs

Modifying Single Application Elements

- Item Container

Modifying Single Application Elements

- Important for complex forms

Modifying Single Application Elements

- Important for complex forms