

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 speaking area.



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Applikationsentwicklung



Analysys & Conception



Consulting & Coaching



Plug-in-Development



Database Configuration



Application Tuning



Fixed-Price Projects

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

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

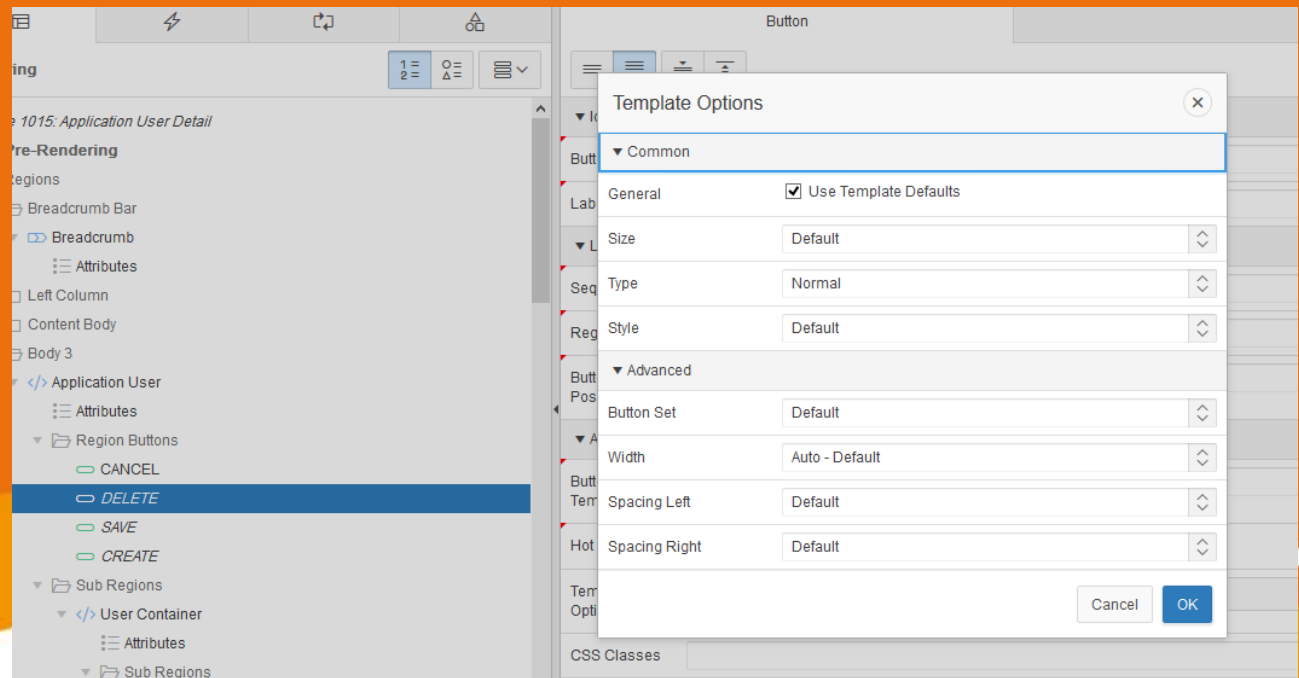
- Templates – a lots of different templates
- Table based and
- Required CSS Tuning

Current Situation

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

Current Situation

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



Using Template Options

- Create your own - Examples

Button Templates: 1 of 4 Name: My Yellow Button

Cancel Delete Apply Changes

Show All Name Subscription Template Options Definition Comments Substitution Strings

This template is local to this application and is unsubscribed. Individual templates can not be subscribed when the associated theme is subscribed. As an alternative to obtaining local templates, you could add new templates to the master theme, and then easily push or pull them into this application.

Template Options Add Template Option

Preset Template Options:

Size Default

Style Default

Type Normal

Advanced

Button Set Default

Spacing Left Default

Spacing Right Default

Width Auto - Default

Default Template Options: No matching template options defined.

Name	Sequence	CSS Classes	Group
My Yellow Button	60	myYellow	Type

Global Template Options

Approach I

- Placing Custom CSS in a single File – Theme Roller

The screenshot displays the APEX EXPERTS user management interface. A modal dialog titled "Benutzer bearbeiten" is open, showing the details for a user named "chantallink". The user's role is "Pfleger". The dialog includes fields for "Anrede" (Frau), "Vorname" (Chantal), "Nachname" (Link), and "E-Mail" (chantal.link@deutschebahn.com). There are also checkboxes for "Konto gesperrt" and "Passwort per Mail versenden?". A "Werke" section shows a list of "Instandhaltungswerk 1" and "Instandhaltungswerk 2". The dialog has buttons for "Löschen", "Abbrechen", and "Speichern".

Benutzer bearbeiten

Benutzername *
chantallink

Anrede
Frau

Vorname
Chantal

Nachname
Link

E-Mail *
chantal.link@deutschebahn.com

Benutzerrolle:
 Administratoren
 Pfleger
 Kunde

Konto gesperrt
 Passwort per Mail versenden?

Werke:
Instandhaltungswerk 1
Instandhaltungswerk 2

Passwort zurücksetzen

Löschen Abbrechen Speichern

ADMIN Abmelden

gültig bis Rollen

gültig bis	Rollen
	Administratoren
	Pfleger
	Pfleger
	Pfleger

5.0

Ansprechpartner Entwickelt von APEX Experts

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 additional code to the template or on pages.

Approach II

- Using CSS Patch

The screenshot displays the 'Edit Application User' interface in the APEX EXPERTS system. The page header includes the user 'basf', navigation links for Profile Settings, Help, Home, and Logout, and the system name 'BASTA - XE (local)'. The breadcrumb trail is 'Administration / Show Users / Edit Application User'. The left sidebar lists navigation options, with 'Administration' expanded to show 'Show Users'. The main form area contains the following fields and controls:

- AD Authentication:** No (LDAP)
- Novell-/User-ID:** basta
- Last Name:** Framework
- First Name:** BASF
- Name Prefix:** (empty)
- Title:** dr.
- Org Code:** (empty)
- Email Address:** (empty)
- Default Lang.:** English
- Active User:** Yes
- Password:** (empty)
- Select a Role:** A dropdown menu with options: Reader, Editor, Administrator, Developer, Translator.
- Buttons:** Cancel, Delete, Save, and More >>

Approach II

- Using CSS Patch

Administration / Roles

Existing Roles Create

Search: Go Rows: 15 Actions:

	Role Name	Role Check	Role Description	Sort Order	Dev Only
	Translator		A user with this role has access to Translatable Messages and Language Repository.	5	No
	Administrator		User who has owned this role. They are the administrator of the application. They can for instance set up Master-Data or upload Files. This role includes READ_ROLE and EDIT_ROLE.	3	No
	Editor		User who has owned this role, can edit certain data/information driven by the authorisation concept. This role includes READ_ROLE.	2	No
	Reader		A user with the EDIT_ROLE can only read in the application and change the personal profile settings.	1	No

1 - 4

Print Mail

Approach II

- Reasons:
 - Loaded after the original resources.
 - 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)

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

Modifying Single Application Elements

- Forms

The screenshot displays the APEX EXPERTS IH Anfrageportal interface. The left sidebar contains navigation items: **Kundenbereich** (with sub-items: Anfrageformular, Verträge, Preise, Anfragshistorie), **Anfragenmanage...**, and **Administration**. The main content area is titled **Anfrageformular** and contains a form with the following fields:

- Lok Gw * (dropdown menu)
- Bauart Baureihe * (dropdown menu)
- Fahrzeugnummer * (text input)
- Instandhaltungswerk * (dropdown menu)
- Zeitfenster * (text input)
- Kommentar (text area)

A red rectangular box highlights the form fields. A callout box with a green border and the text "too much space between items" has an arrow pointing to the gap between the "Lok Gw" and "Bauart Baureihe" fields.

Dateianhänge

Modifying Single Application Elements

- Forms

```
.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;
}
```

Modifying Single Application Elements

- Forms (much better)

The screenshot displays the APEX EXPERTS IH Anfrageportal interface. The top navigation bar includes the logo and the text 'IH Anfrageportal'. A left sidebar menu lists various options: 'Kundenbereich', 'Anfrageformular', 'Verträge', 'Preise', 'Anfragshistorie', 'Anfragenmanage...', and 'Administration'. The main content area is titled 'Anfrageformular' and contains the following fields:

- Lok Gw * (dropdown menu)
- Bauart Baureihe * (dropdown menu)
- Fahrzeugnummer * (text input)
- Instandhaltungswerk * (dropdown menu)
- Zeitraum * (text input)
- Kommentar (text area)

Below the form, there are sections for 'Dateianhänge' and 'Korrektive Instandhaltungsleistungen'.

Modifying Single Application Elements

- Breadcrumbs

The screenshot displays the APEX EXPERTS IH Anfrageportal interface. The breadcrumb trail 'Kundenbereich / Anfrageformular' is highlighted with a red box. A green box with an arrow points to the breadcrumb, containing the text 'takes too much space'. The main content area shows the 'Anfrageformular' form with fields for 'Lok Gw', 'Bauart Baureihe', 'Fahrzeugnummer', 'Instandhaltungswerk', 'Zeifenster', and 'Kommentar'. The 'Dateianhänge' section is visible at the bottom.

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)

The screenshot displays the user interface of the APEX EXPERTS IH Anfrageportal. At the top left is the logo for APEX EXPERTS. Below it is a navigation bar with the text 'IH Anfrageportal'. A sidebar on the left contains a menu with the following items: 'Kundenbereich' (with a dropdown arrow), 'Anfrageformular' (highlighted in red), 'Verträge', 'Preise', 'Anfragshistorie', 'Anfragenmanage...' (with a dropdown arrow), and 'Administration' (with a dropdown arrow). The main content area shows a breadcrumb trail: 'Kundenbereich / Anfrageformular'. Below the breadcrumb is the title 'Anfrageformular'. The form contains several fields: 'Lok Gw' (dropdown), 'Bauart Baureihe' (dropdown), 'Fahrzeugnummer' (text input), 'Instandhaltungswerk' (dropdown), 'Zeitfenster' (text input), and 'Kommentar' (text area). Below the form are sections for 'Dateianhänge' and 'Korrektive Instandhaltungsleistungen'.

Modifying Single Application Elements

- Breadcrumbs

The screenshot displays the APEX EXPERTS IH Anfrageportal interface. The breadcrumb trail 'Kundenbereich / Anfrageformular' is highlighted with a red box. A green box with an arrow points to it, containing the text 'takes too much space'. The main content area shows the 'Anfrageformular' with several input fields: 'Lok Gw', 'Bauart Baureihe', 'Fahrzeugnummer', 'Instandhaltungswerk', 'Zeitraum', and 'Kommentar'. The 'Dateianhänge' section is visible at the bottom.

Modifying Single Application Elements

- Item Container

The screenshot displays the APEX EXPERTS web application interface. The top navigation bar includes the logo and menu items: Home, Show / Edit, Reports, Master Data, and Administration. The current page is titled "Administration / Show Users / Edit Application User".

The main content area shows a form for editing a user. The form fields are:

- Name Prefix:
- Title:
- Org Code:
- Email Address:
- Default Lang.: (with a help icon)
- Active User: (with a help icon)
- Password:

A red grid overlay is visible on the form, indicating a CSS modification. The browser's developer console is open at the bottom, showing the following CSS rule being applied:

```
$('#P1015_EMAIL_CONTAINER').css('margin-left', '50px');
```

The console also shows the object being modified: `Object[div#P1015_EMAIL_CONTAINER.t-Form-fieldContainer.rel-col]`.

Modifying Single Application Elements

- Important for complex forms

Konzernvertragsdatenbank (TU)

Startseite Verträge / Suchen / Vertrag - Details **100374719**

Verträge

Suchen

Persönliche Arbeitsmappe

Reports

Administration

Persönliche Daten

Grunddaten Vertragspartner Termine Zahlungsströme Sonstige Nachtrag Bürgschaft

Terminaten

Status * **aktuell**

Laufzeit (*) 21.11.2005 - [TT.MM.JJJJ]

Wiedervorlage-Termin (*) 31.10.2014 [TT.MM.JJJJ]

Notiz zum Wiedervorlagetermin (*) kann erstmals von NVG und RSW am 31.12.2023 und dann jährlich zum Ende des Kalenderjahres gekündigt werden

Kündigung * einmalig [TT.MM.JJJJ]

fristgerecht

sonstige

Gewährleistung

Modifying Single Application Elements

- Important for complex forms

Konzernvertragsdatenbank (TU)

Startseite Verträge Verträge Suchen Suchen Persönliche Arbeitsmappe Reports Administration Persönliche Daten

Verträge / Suchen / Vertrag - Details **100374719**

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Kündigung * einmalig

fristgerecht Monate -- Bitte wählen --

sonstige

Gewährleistung

Es sind keine Gewährleistungen zugeordnet.