



Oracle Application Express 5

Universal Theme

Migration ins Universal Theme 1.1

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APEX Connect 2018

Facts & Figures

IT-Beratungsunternehmen
Branchen übergreifend
Hersteller neutral

Hauptsitz
Ratingen

Niederlassung
Frankfurt am Main

250 Beschäftigte



Zertifizierter
Partner von
Oracle und
Microsoft

Inhabergeführt

28 Mio. Euro
Umsatz

Gründung
1994



Ausbildungsbetrieb
Partner im dualen Studium

Oliver Lemm



Oliver Lemm

@OliverLemm

Tweets
2.731

Folge ich
120

Follower
816

OGh
APEX WORLD
2016 & 2017



Universal Theme 1.0

basics & history

- introduced with APEX 5.0 in august 2015
- developed and designed by shakeeb rahman
- features
 - Theme Roller
 - Template Options
 - Font Awesome Icons
 - Responsive Design / Grid Layout
 - Theme Styles
- theme number 42
- one theme for all
- <http://www.oracle.com/technetwork/developer-tools/apex/application-express/apex-50-new-features-2517998.html>

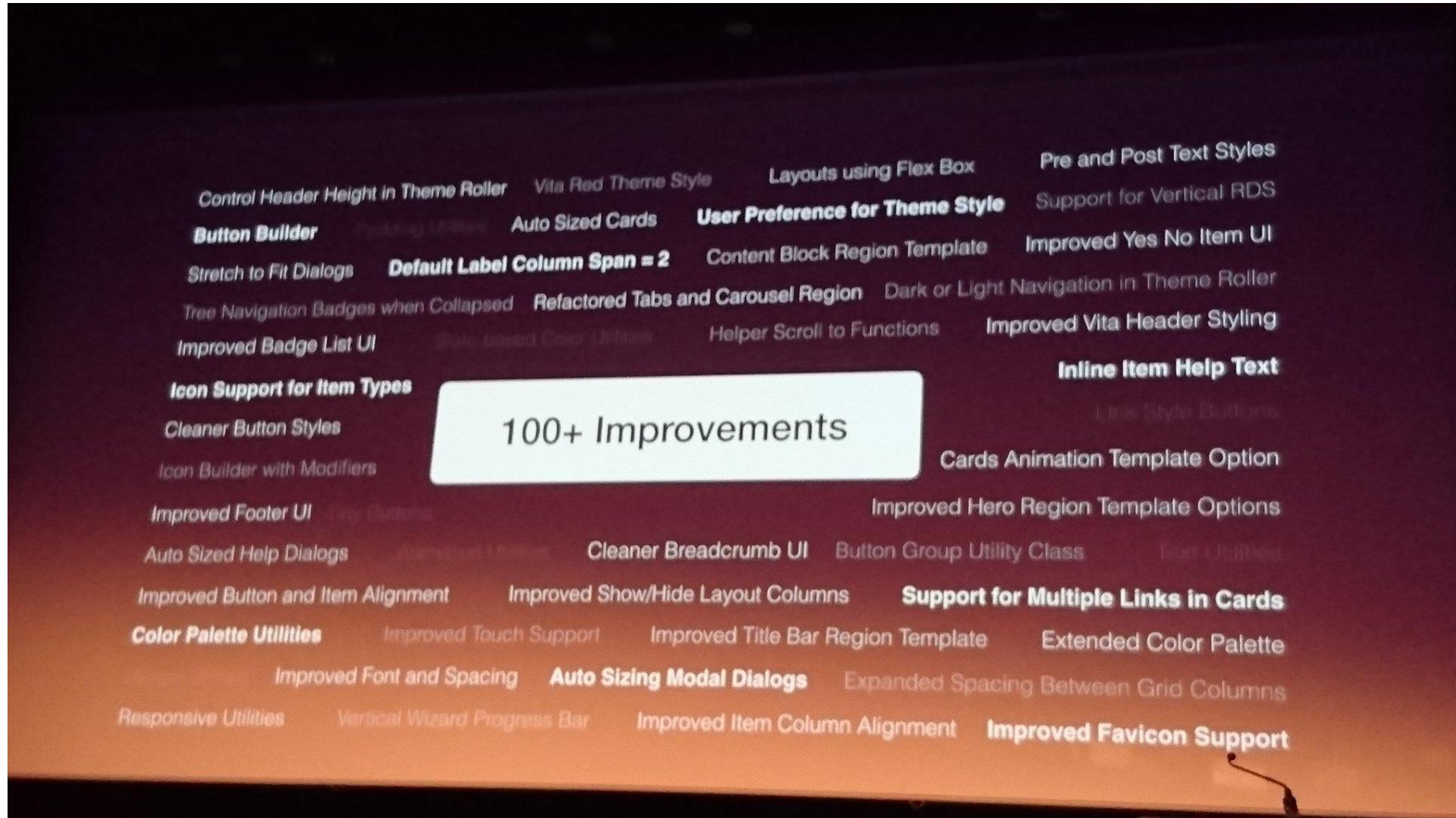
Universal Theme 1.1

basics & history

- Introduced with apex 5.1 in december 2016
- features
 - Declarative Right-to-Left Support
 - Per-User Theme Style Preference
 - Live Template Options
 - Font APEX Icon Library
 - Modal Dialog Auto Resize
 - Icons for Items and Inline Item Help Text
- only theme for native oracleJet and Interactive Grid support
- <http://www.oracle.com/technetwork/developer-tools/apex/learnmore/apex-51-new-features-3410526.html>

Universal Theme 1.1

by shakeeb rahman




Universal Theme

packaged app

<https://apex.oracle.com/ut>

<https://apex.oracle.com/pls/apexf?p=42>



Oracle Application Express 5

Universal Theme

Universal Theme is a responsive, versatile, and customizable user interface for your Application Express apps. It is designed uniquely for Application Express 5 to make it easy for developers to build beautiful, modern applications, at any scale, for any purpose, that work on any device.

- Getting Started
- Design
- Components
- Migration Guide
- Icons
- Reference

Migration Guide

The screenshot shows a web application interface for the 'Universal Theme' migration guide. On the left is a dark blue sidebar with a menu containing: 'Getting Started', 'Design', 'Components', 'Migration Guide' (highlighted), 'From Universal Theme v1.0', 'From Other Themes', 'Icons', and 'Reference'. The main content area has a blue header with a hamburger icon and the text 'Migration Guide'. Below this is a section titled 'Migrating from Universal Theme 1.0' with a sub-header icon. The text reads: 'If you are already using Universal Theme in your applications, you can easily take advantage of the updates in Application Express 5.1 without having to go through a lot of work.' A white box contains a blue checkmark icon and the text 'Updating to the Latest Universal Theme'. Below this is a section titled 'Migrating from Other Themes' with a paragraph: 'This guide will cover the steps involved in migrating to the Universal Theme. It will cover the pros and cons of Universal Theme, and how to go through the Theme Switch wizard. This guide also covers the post-migration phase: the immediate tasks, some best practices for working with Universal Theme, and a list of common problems and solutions encountered during and after the upgrade. Please note that this guide assumes you have a working knowledge of Application Express fundamentals.' At the bottom is a list of links: 'Why Migrate' (with a question mark icon), 'Migration Steps' (with a list icon), 'Post Migration' (with a checkmark icon), 'Bookmarklet' (with a bookmark icon), and 'FAQ' (with a list icon).

Universal Theme

Getting Started

Design

Components

Migration Guide

From Universal Theme v1.0

From Other Themes

Icons

Reference

Migration Guide

Migrating from Universal Theme 1.0

If you are already using Universal Theme in your applications, you can easily take advantage of the updates in Application Express 5.1 without having to go through a lot of work.

Updating to the Latest Universal Theme

Migrating from Other Themes

This guide will cover the steps involved in migrating to the Universal Theme. It will cover the pros and cons of Universal Theme, and how to go through the Theme Switch wizard. This guide also covers the post-migration phase: the immediate tasks, some best practices for working with Universal Theme, and a list of common problems and solutions encountered during and after the upgrade. Please note that this guide assumes you have a working knowledge of Application Express fundamentals.

- Why Migrate
- Migration Steps
- Post Migration
- Bookmarklet
- FAQ

Migrate from legacy theme to UT



- <https://de.slideshare.net/OliverLemm/mastering-universal-theme-with-corporate-design-from-union-investment-84565495>

Theme 1-26 and Theme 50 deprecated

only UT is supported

Migrate from UT 1.0 to 1.1

before installing or migrating

Export your Application

&

copy your application to another app ID

Migrate from UT 1.0 to 1.1

- Install APEX 5.1 (@apexins & images)
 - run application



before

Gültig bis ^A



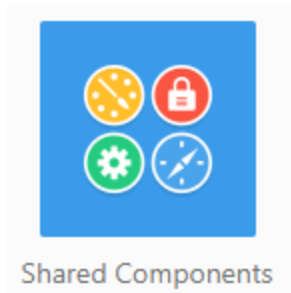
after

Gültig bis ^A



Migrate from UT 1.0 to 1.1

steps to ut 1.1

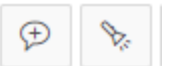


User Interface

- User Interface Attributes
- Themes
- Templates

Number ↑	Name	User Interface	Is Current	Subscribed From
42	Universal Theme - 42 *	Desktop	✓	Theme Repository

Application 104 \ Shared Components \ Themes \ Create / Edit Theme



Theme

Cancel Apply Changes

Show All Name Theme Subscri... JavaScript and ... Component De... Region Defaults Dialog Defaults Global Templat... Icons Image Styles Files

Theme Subscription

Verify Unsubscribe Refresh Theme

Subscribed to Standard Theme : **Universal Theme**

No themes subscribe to this theme.

Migrate from UT 1.0 to 1.1

verfiy

Verify Theme Subscription

×

This wizard looks at all theme attributes, templates and template options in the subscribing theme and raises errors for those that are not in sync with the master theme. The wizard also highlights any templates that are defined in the master theme but not yet published to the subscribing theme. To publish changes from the master theme to the subscribing theme, press the "Refresh" button at the end of the wizard.

Master Application ID **8842**

Master Theme ID **42**

Master Theme Name **Universal Theme**

Subscribing Application ID **104**

Subscribing Theme ID **42**

Subscribing Theme Name **Universal Theme**

Cancel

Verify

Verify Theme Subscription

×



Subscription Status

Current theme does not match master theme

Template Type	Template Name	Status
Theme Style	FondsProfiler2.0	Not subscribed
	Vista	Match
	Vita	Match
	Vita - Slate	Match
	Vita - Dark	Not Defined in Subscribing Theme
	Vita - Red	Not Defined in Subscribing Theme
Theme File	14410707216605380.css	Not subscribed

Cancel

Refresh Theme

Migrate from UT 1.0 to UT1.1

template changes (example)

Template Type	Template Name	Status
Theme Style	FondsProfiler2.0	Not subscribed
	Vista	Match
	Vita	Match
	Vita - Slate	Match
	Vita - Dark	Not Defined in Subscribing Theme
	Vita - Red	Not Defined in Subscribing Theme
Theme File	14410707216605380.css	Not subscribed
Breadcrumb	Breadcrumb	Out of Sync
Button	FPP - Icon	Not subscribed
	FPP - Text with Icon	Not subscribed
	Icon	Match
	Text	Match
	Text with Icon	Match
Field	Hidden	Out of Sync
	Optional	Out of Sync
	Optional - Above	Out of Sync
	Required	Out of Sync
	Required - Above	Out of Sync
Legacy Calendar	Calendar	Out of Sync

List	Badge List	Out of Sync
	Cards	Out of Sync
	FPP - Side Navigation Menu	Not subscribed
	Links List	Match
	Media List	Out of Sync
	Menu Bar	Out of Sync
	Menu Popup	Out of Sync
	Navigation Bar	Match
	Side Navigation Menu	Out of Sync
	Tabs	Out of Sync
	Top Navigation Menu	Match
	Wizard Progress	Template Options Mismatch
Page	Left Side Column	Out of Sync
	Left and Right Side Columns	Out of Sync
	Login	Out of Sync
	Master Detail	Out of Sync
	Minimal (No Navigation)	Out of Sync
	Modal Dialog	Out of Sync
	Right Side Column	Out of Sync
	Standard	Out of Sync
	Wizard Modal Dialog	Out of Sync

Popup LOV	Popup List of Values Template	Match
Region	Alert	Out of Sync
	Blank with Attributes	Match
	Buttons Container	Out of Sync
	Carousel Container	Out of Sync
	Collapsible	Template Options Mismatch
	FPP - Alert - Validation Result	Not subscribed
	Hero	Out of Sync
	Inline Dialog	Out of Sync
	Interactive Report	Match
	Login	Out of Sync
	Standard	Out of Sync
	Tabs Container	Match
	Title Bar	Match
	Wizard Container	Match
	Blank with Attributes (No Grid)	Not Defined in Subscribing Theme
	Content Block	Not Defined in Subscribing Theme
Report	Alerts	Match
	Badge List	Match
	Cards	Out of Sync
	Comments	Match
	Search Results	Match
	Standard	Match
	Timeline	Template Options Mismatch
	Value Attribute Pairs - Column	Match
	Value Attribute Pairs - Row	Match

Migrate from UT 1.0 to 1.1

template changes (example)

- Out of Sync 31 / 66 changed template types
Breadcrumb, Field, List, Page, Region, few Report
- Match 22 / 66 no change
Theme Styles, Button, some Region, many Report
- not subscribed 6 / 66 own or copied templates,
Theme Roller file
- Not Defined in Subscribing Theme 4 / 66 new styles, 2 regions
- Template Options Mismatch 3 / 66 wizard, collapsible region,
timeline report

Migrate from UT 1.0 to 1.1

refresh

Application 104 \ Shared Components \ Themes \ Create / Edit Theme

✓ Templates and template options refreshed from master theme.

after Refresh

- custom Theme Style
- custom Theme Roller
- custom Templates

Verify Theme Subscription

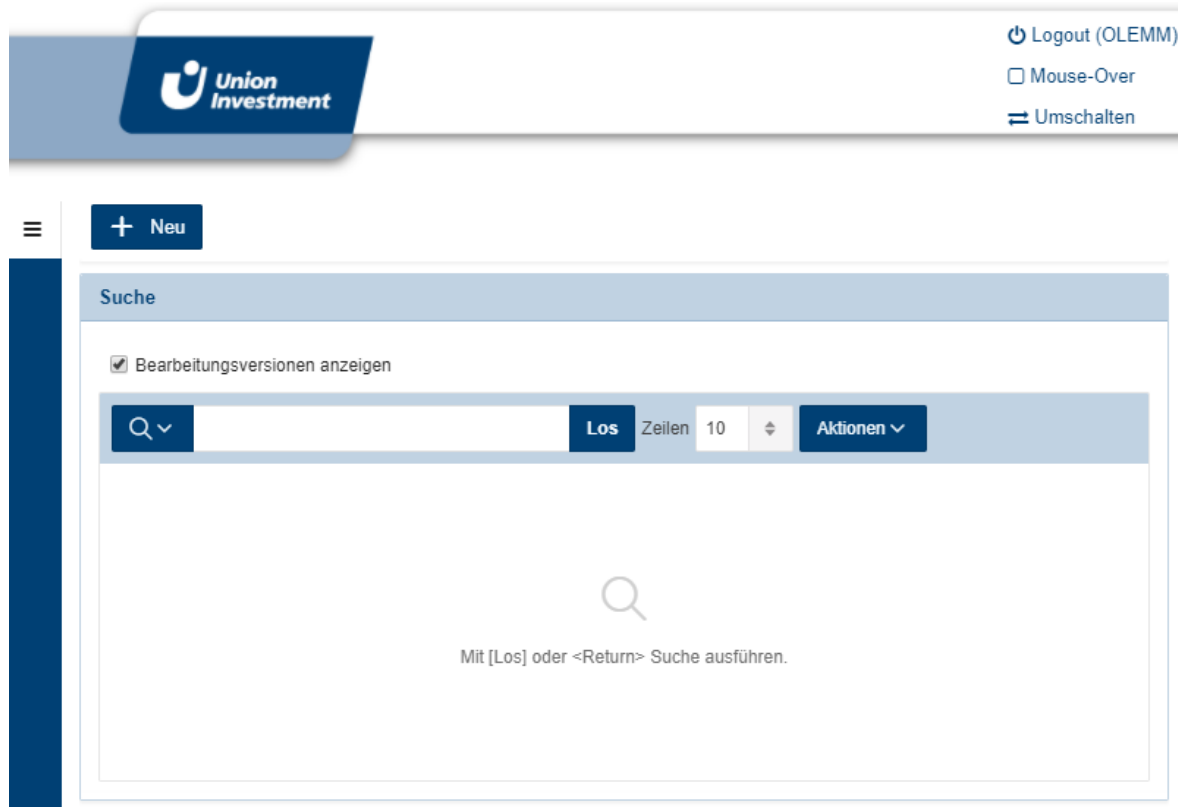
×

✓ Subscription Status
Current theme matches master theme

Template Type	Template Name	Status
Theme Style	FondsProfiler2.0	Not subscribed
Theme File	14410707216605380.css	Not subscribed
List	FPP - Side Navigation Menu	Not subscribed
Button	FPP - Icon	Not subscribed
	FPP - Text with Icon	Not subscribed
Region	FPP - Alert - Validation Result	Not subscribed

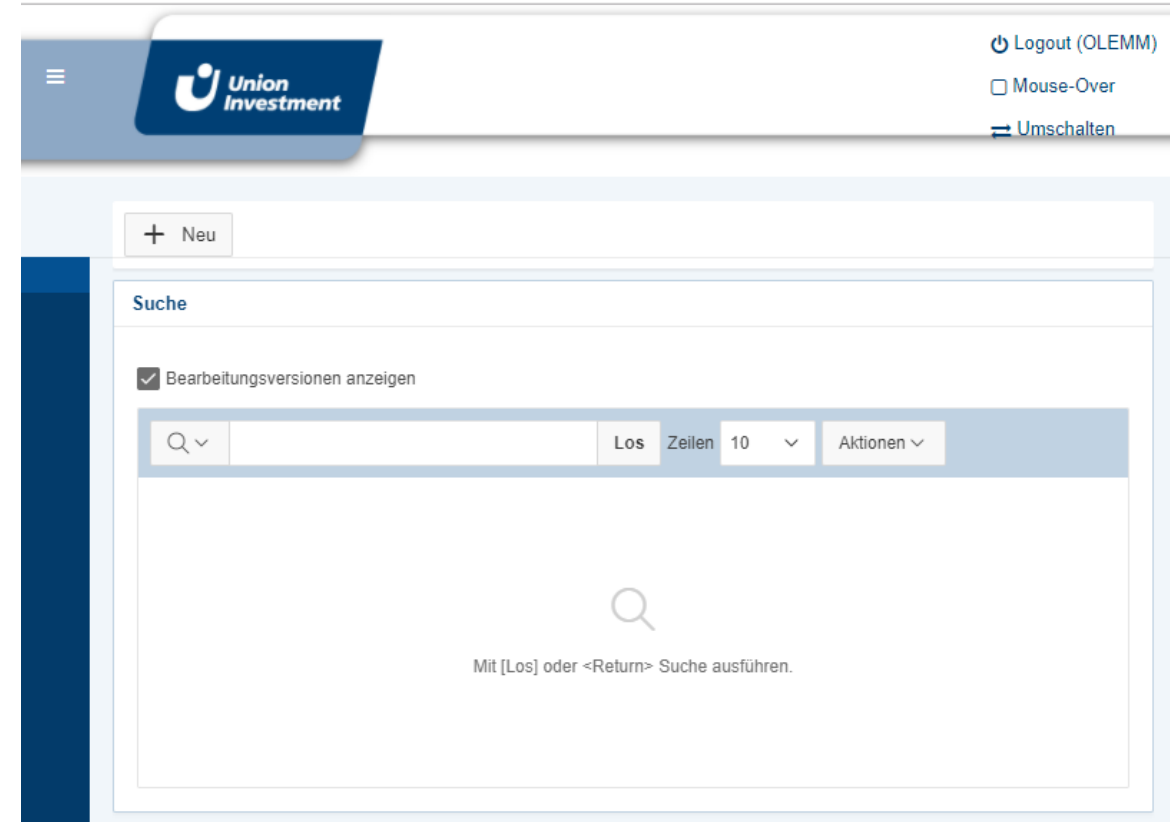
Migrate from UT 1.0 to 1.1

run app



The screenshot shows the Union Investment application interface for version 1.0. At the top, there is a dark blue header with the Union Investment logo on the left and a navigation menu on the right containing 'Logout (OLEMM)', 'Mouse-Over', and 'Umschalten'. Below the header is a light blue sidebar with a '+ Neu' button. The main content area is titled 'Suche' and contains a search bar with a magnifying glass icon and a dropdown arrow. To the right of the search bar are buttons for 'Los', 'Zeilen 10', and 'Aktionen'. A checkbox labeled 'Bearbeitungsversionen anzeigen' is checked. Below the search bar, there is a large search icon and the text 'Mit [Los] oder <Return> Suche ausführen.'

UT 1.0

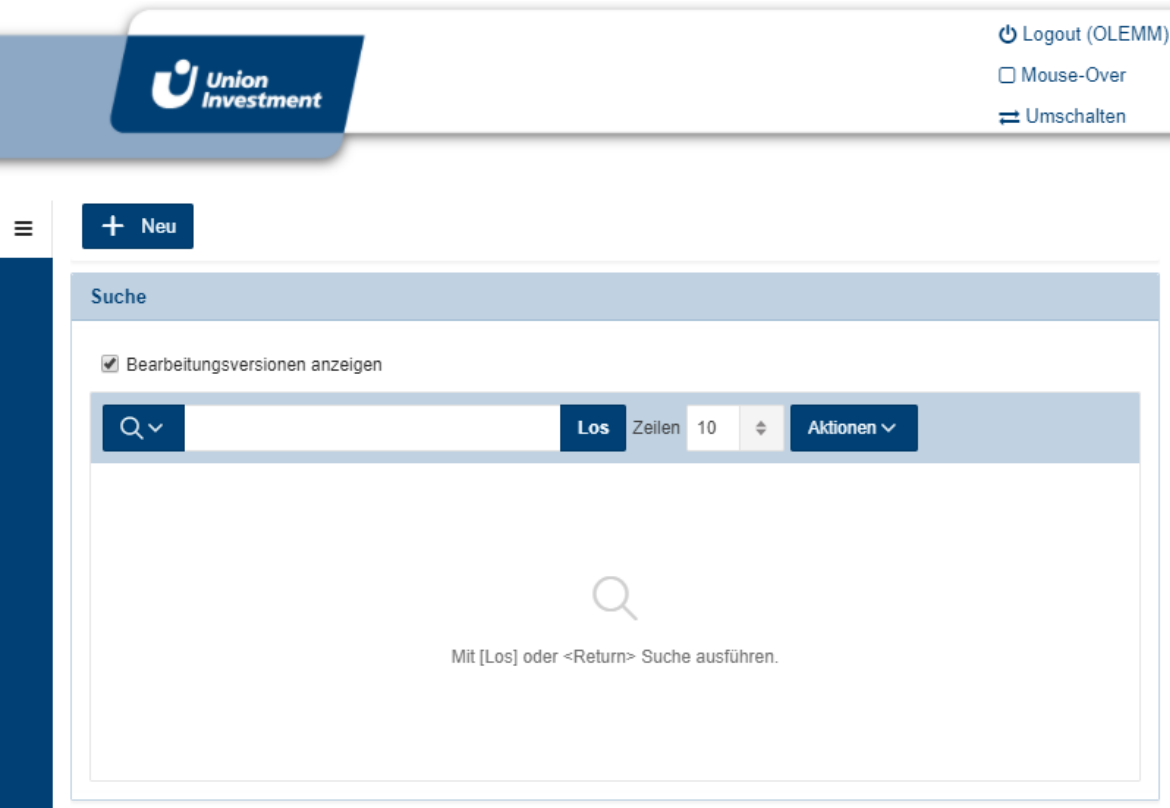


The screenshot shows the Union Investment application interface for version 1.1 after a refresh. The layout is similar to version 1.0, but with some visual changes. The top header is now light blue with the Union Investment logo on the left and the navigation menu on the right. The sidebar is dark blue with the '+ Neu' button. The main content area is titled 'Suche' and contains a search bar with a magnifying glass icon and a dropdown arrow. To the right of the search bar are buttons for 'Los', 'Zeilen 10', and 'Aktionen'. A checkbox labeled 'Bearbeitungsversionen anzeigen' is checked. Below the search bar, there is a large search icon and the text 'Mit [Los] oder <Return> Suche ausführen.'

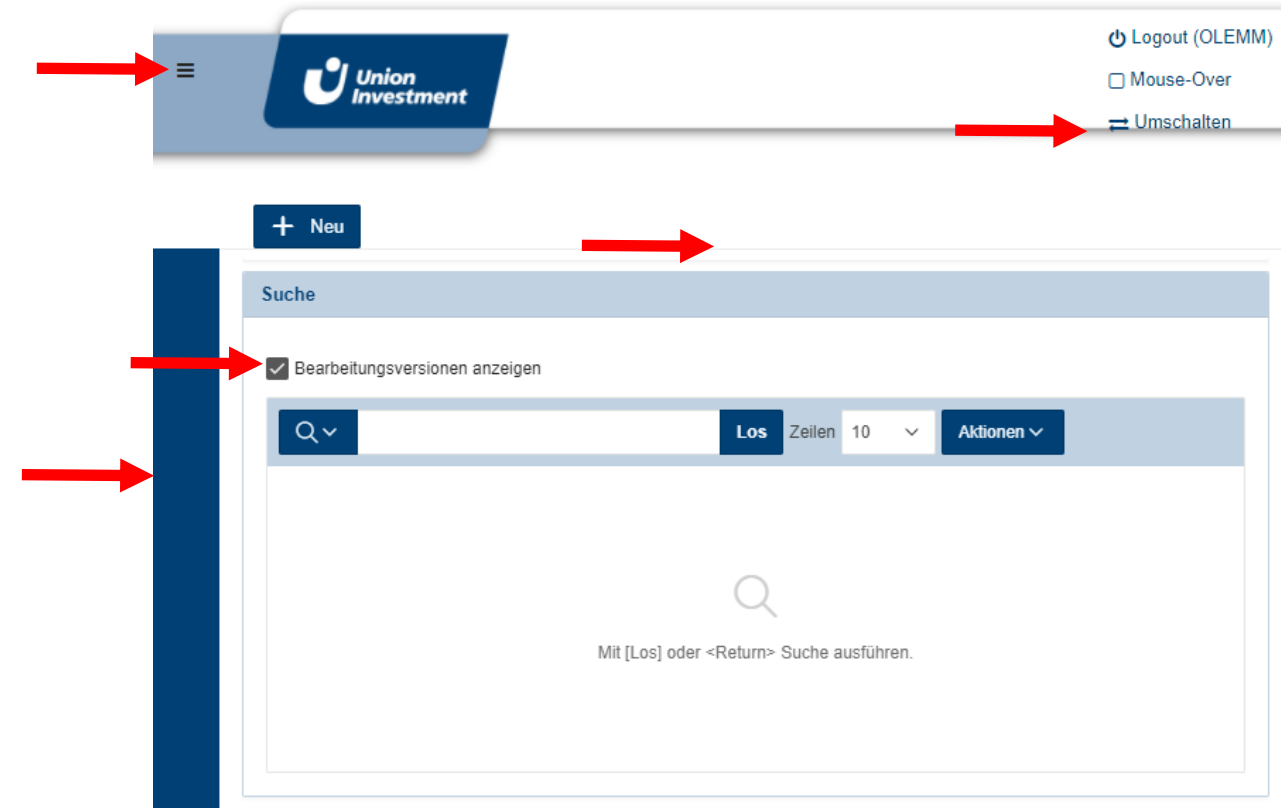
UT 1.1 after refresh

Migrate from UT 1.0 to 1.1

select custom style



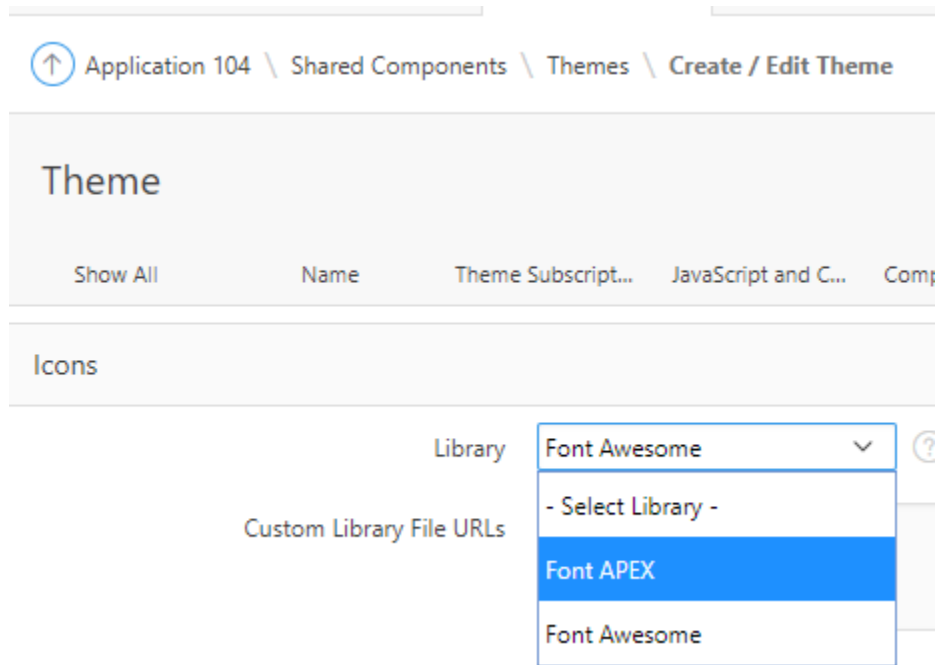
UT 1.0



UT 1.1 with custom style

Migrate Icons

Font Awesome => Font APEX



same Icon Class „fa“

Icon Class	Icon	Icon
fa-eye		
fa-power-off		
fa-square-o		
fa-check-square-o		
fa-angle-double-down		
fa-circle-o-notch		
fa-search		
fa-bars		
fa-unlock-alt		
fa-exchange		

Differences (1)

„Order“

Grunddaten des Fonds

Fondsname F

Zuständigkeit F
Institutionelle Kunden (IK)
Privatkunden (PK)

Portfolio-Typ F ⓘ

Fondstyp F ⓘ

Fondsprofil gültig ab F
📅

Portfoliomanager F ⓘ

Vertreter Portfoliomanager F ⓘ

Kundenportfoliomanager F ⓘ

Produkt-/Accountmanager F ⓘ

1. Vertreter Produkt-/Accountmanager F ⓘ

Art des Fonds F Fonds / Hauptfonds Segment

Zugehöriger Hauptfonds

UT 1.0

```
.t-Form-inputContainer .a-Button--calendar, .t-Form-inputContainer  
input, .t-Form-inputContainer select, .t-Form-inputContainer textarea {  
  webkit order: 3;  
  ms flex order: 3;  
  order: 3;  
}
```

Grunddaten des Fonds

Fondsname F

Zuständigkeit F
Institutionelle Kunden (IK)
Privatkunden (PK)

Portfolio-Typ F ⓘ

Fondstyp F ⓘ

Fondsprofil gültig ab F
📅

Portfoliomanager F ⓘ

Vertreter Portfoliomanager F ⓘ

Kundenportfoliomanager F ⓘ

Produkt-/Accountmanager F ⓘ

1. Vertreter Produkt-/Accountmanager F ⓘ

Art des Fonds F Fonds / Hauptfonds Segment

Zugehöriger Hauptfonds

UT 1.1

Differences (2)

alert, warning and info Regions

⇌ Umschalten

✓ Die Eingaben wurden gespeichert. ✕

→ Umschalten

✓ Die Eingaben wurden gespeichert. ✕

✓ Speichern

⚠ Die Eingabeprüfung aller Felder liefert folgende Hinweise:

- Art: Sie müssen eine Art auswählen, da Sie eine Gruppe oder eine Zusatzauswahl bzw. Ausschluss angegeben h

✓ Speichern

⚠ Die Eingabeprüfung aller Felder liefert folgende Hinweise:

- Art: Sie müssen eine Limitierungsart auswählen, da Sie eine Gruppe oder eine Zusatzauswahl bzw. Ausschluss

Differences (3)

Default Label Span

		Elternknoten	0
		Status	1
		Text	Administration
		Position	130
		Seite	
		Navigations-URL	

UT 1.0

		Elternknoten	0
		Status	1
		Text	Administration
		Position	130
		Seite	
		Navigations-URL	

UT 1.1

Differences (4)

Interactive Report

Q v [] Los Aktionen v

1 - 15 von 4577 >

	Sprache	Sortierung	Gültig von	Gültig bis	Referenz 1	R
	DE	1	↑= ↓= ☰x ☰			
	EN	1	Q Filtern...			
	DE	2	Letzte 5 Jahre			
	EN	2	Letzte 2 Jahre			
	DE	1	Letztes Jahr			
	DE	2	Letzter Monat			
	DE	3	Letzte Woche			

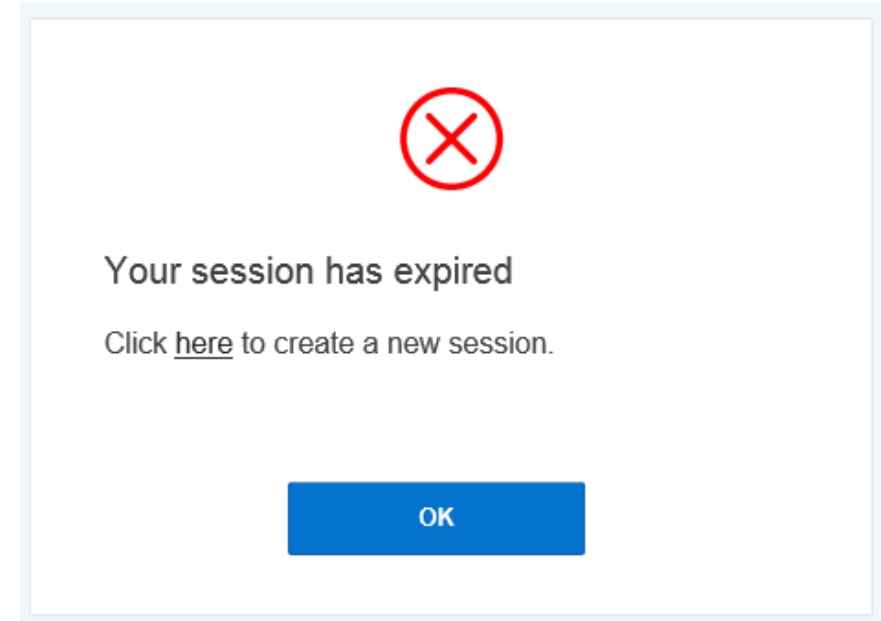
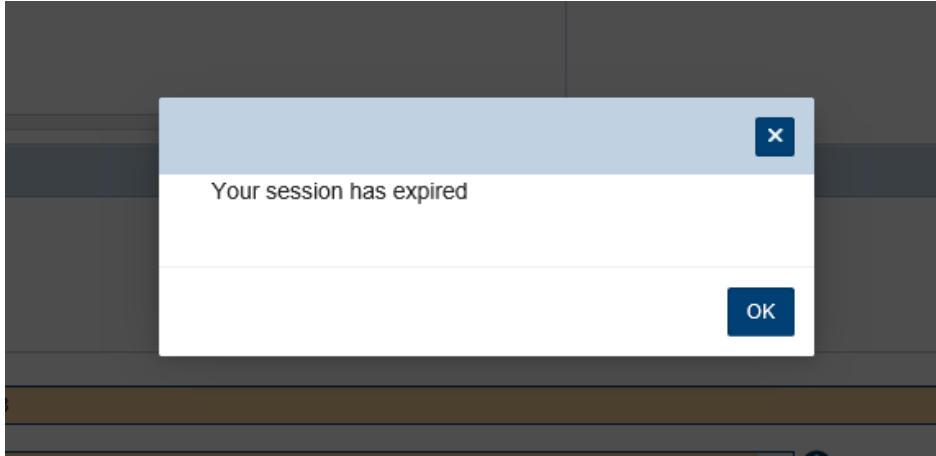
Q v [] Los Aktionen v

1 - 15 von 4577 >

	Sprache	Sortierung	Gültig von	Gültig bis	Referenz 1	Re
	DE	1	↑= ↓= ☰x ☰			
	EN	1	Q Filtern...			
	DE	2	01.01.1900 31.12.4000			
	EN	2	01.01.1900 31.12.4000			
	DE	1	01.01.1900 31.12.4000			
	DE	2	01.01.1900 02.01.1900			
	DE	3	01.01.1900 31.12.4000			
	DE	4	01.01.1900 31.12.4000			

Differences (5)

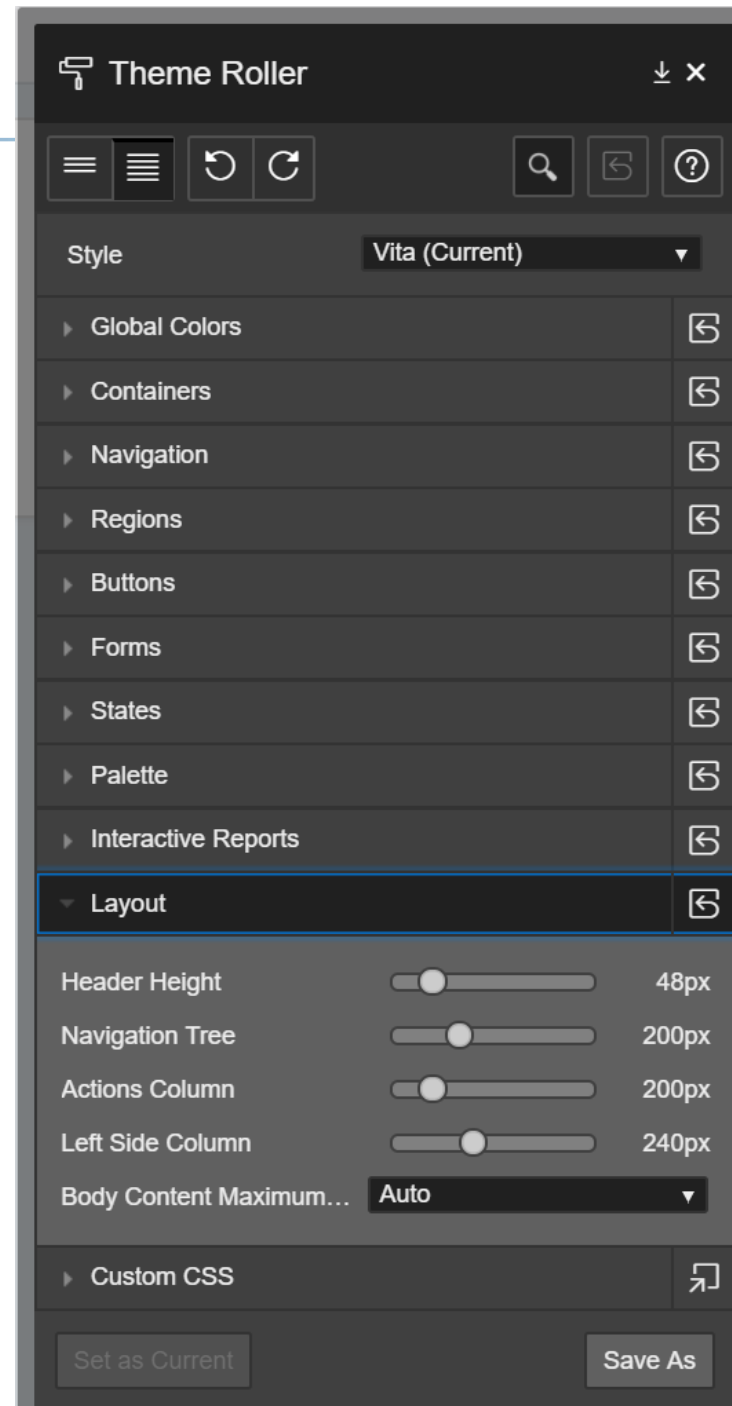
Session Timeout



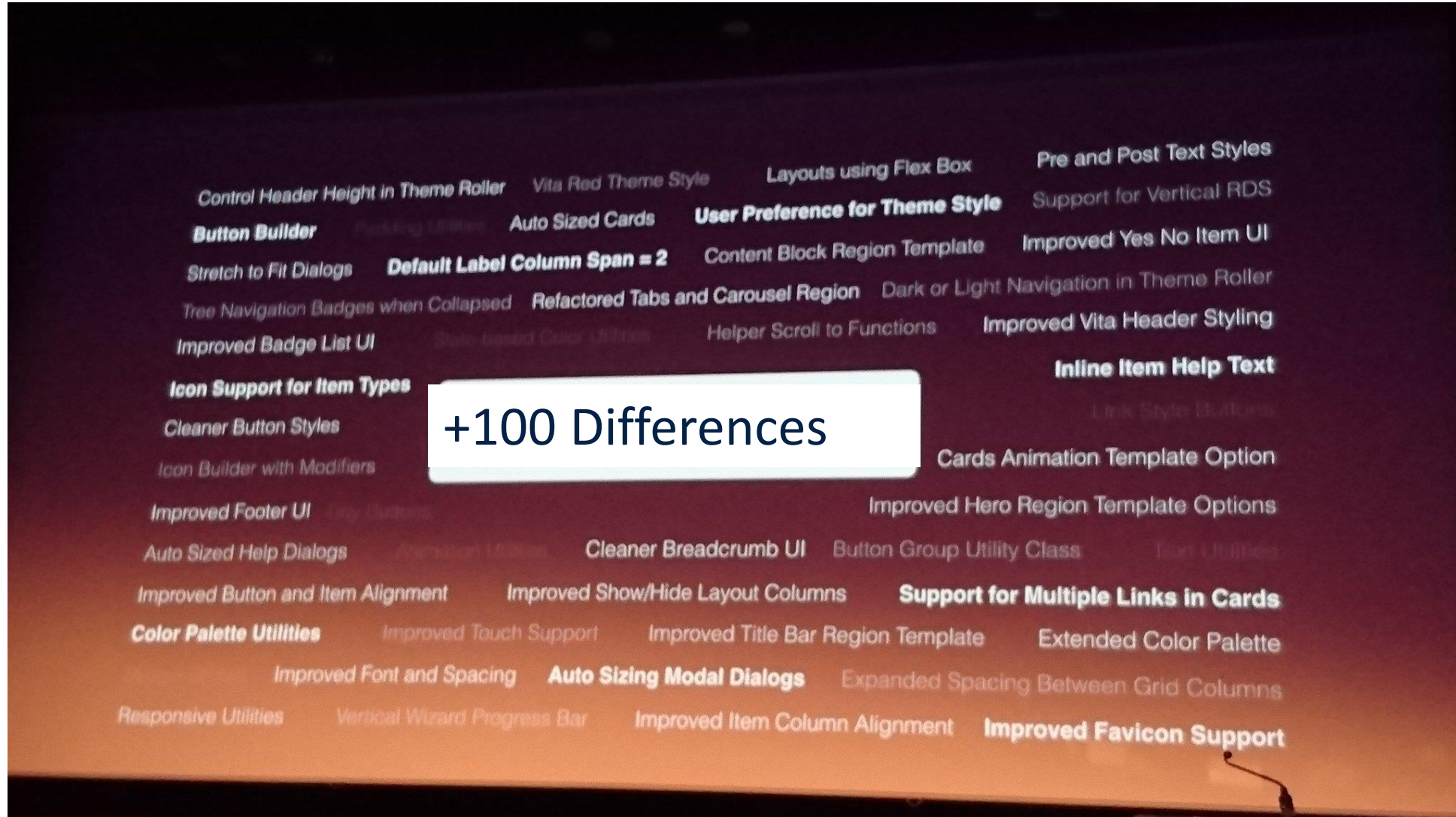
Differences (6)

Theme Roller

- More entitites to change
- More standards to define
- But still no font type, font size
- And maximum restrictions in width



Differences (6...n)



Warn on unsaved Changes

Application 117 \ Page Designer

Page

1 2

Page 2: Read Only

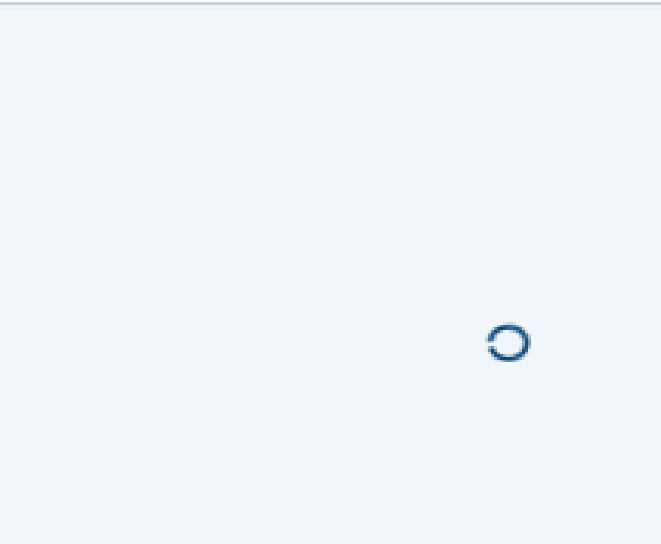
- Pre-Rendering
- Regions
 - Content Body
 - Lazy Loading
 - Columns
 - Attributes

warn

Navigation

Warn on Unsaved Changes No

Loading Icon



Template Options

- Template options on subscribed templates not changeable
- Template options on subscribed templates not expandable
- Template options on UT 1.1 still not usable

Button – before UT and with UT 1.1

Filter Properties

Identification

Button Name: SAVE_PAGE

Label: Speichern

Layout

Sequence: 20

Region: Buttons

Button Position: Top of Region

Horizontal Alignment: Left

Appearance

Button Template: FPP Seite speichern

Hot: Yes No

Template Options: Use Template Defaults

CSS Classes

Icon CSS Classes

Filter Properties

Identification

Button Name: SAVE_PAGE

Label: Speichern

Layout

Sequence: 10

Region: ...Buttons left

Button Position: Below Region

Horizontal Alignment: Left

Appearance

Button Template: FPP - Text with Icon

Hot: Yes No

Template Options: Use Template Defaults, Left

CSS Classes

Icon CSS Classes: uicd_ok

Buttons – before UT and with UT 1.1

Behavior

Action: Submit Page

Execute Validations: Yes No

Warn on Unsaved Changes: Do Not Check

Database Action: - Select -

Advanced

Static ID: _____

Custom Attributes: _____

Server-side Condition

Type: PL/SQL Expression

PL/SQL Expression

```
authentication_pkg.schreibrecht_or_admin(  
  p_username      => :APP_USER  
  ,p_fonds_zustaendigkeiten => :AI_FONDS_ZUSTAENDIGKEITEN  
  ,p_apex_page     => :APP_PAGE_ID  
  ,p_app_type      => :AI_APP_TYPE  
  ,p_bereich_key_1 => fpp_app_pkg.c_bereich_prd  
)
```

Security

Authorization Scheme: - Select -

Configuration

Build Option: - Select -

Behavior

Action: Defined by Dynamic Action

Execute Validations: Yes No

Database Action: - Select -

Advanced

Static ID: button_save_page

Custom Attributes: data-action="SAVE" name="P&APP_PAGE_ID._SAVE_PAGE"

Server-side Condition

Type: - Select -

Security

Authorization Scheme: kann Seite speichern

Configuration

Build Option: - Select -

Modal Dialog

- Auto Resize
- Side Effects

The screenshot shows a modal dialog titled "Fondsprofil Zusatzfunktionen" with a close button (X) in the top right corner. Below the title bar, there is a row of five buttons: "Kopieren", "Sperrung", "Report öffnen", "AK-Kürzel wechseln", and "Änderungsbildschirm anzeigen".

The main content area is titled "Sperrung" and contains the following form elements:

- "Beginn der Sperrung": A date input field containing "25.04.2018" with a calendar icon, followed by a time selection field showing "11" and "15" with dropdown arrows.
- "Dauer": A dropdown menu with the text "bitte auswählen".
- "Sperrung anderer Benutzer entfernen": A checkbox that is currently unchecked.
- "Profil sperren": A button with a lock icon.

APEX 5.1 & UT 1.1

Release Changes

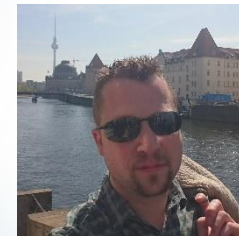
- **Deprecated**

- APEX_UTIL.SET_CURRENT_THEME_STYLE
- Theme 1-26 & 50

- **Desupported**

- Page Body Header & Include Standard JavaScript and CSS
- Region Classic Tree
- Items Datepicker (Classic), Stop and Start Grid Layout
- Buttons Pre Text; Post Text

- <https://docs.oracle.com/database/apex-5.1/HTMRN/toc.htm#HTMRN-GUID-876FE8D6-2423-469B-92E3-8C1D16438E21>



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