

UI Theme Designer



Agenda

Theming in SAPUI5

UI Theme Designer

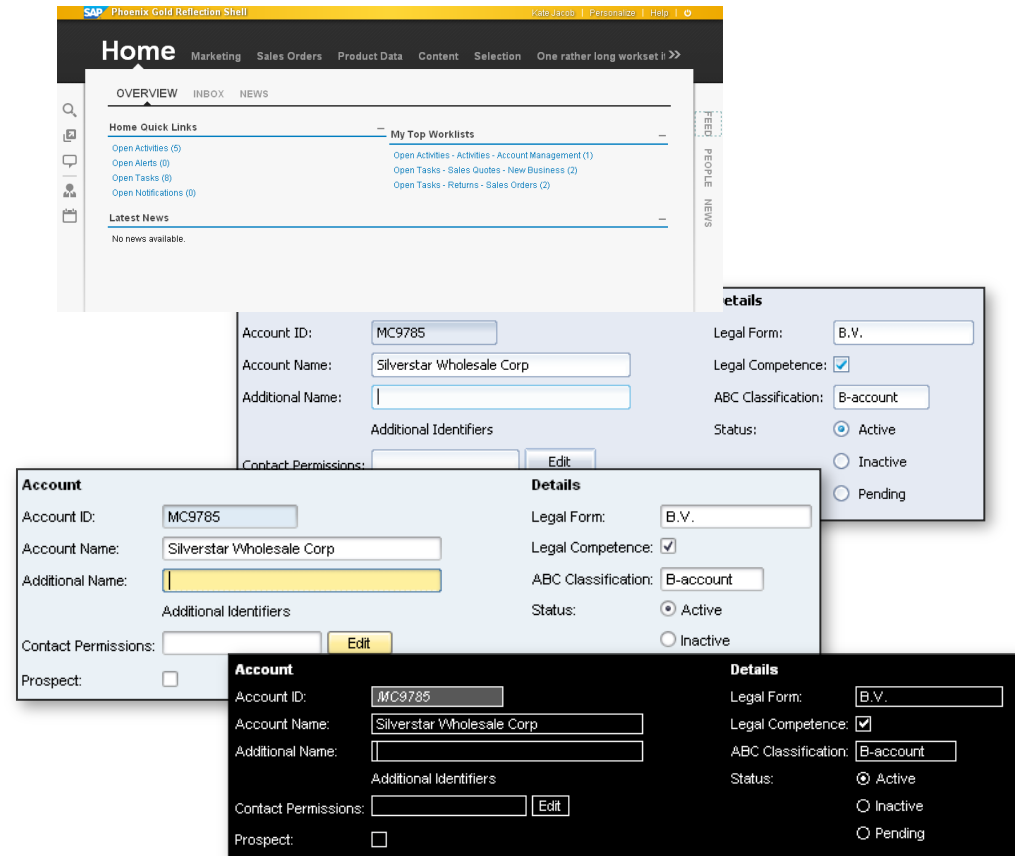


Theming in SAPUI5

Control Style and Themes: Supported themes

Themes shipped with UI5:

- Gold Reflection
- High Contrast Black



See all these themes showcased in an [example](#)

Adjusting styles

In some cases one needs to adjust parts of the theme using CSS

- One can add `<style>` or `<link>` tags in the HTML `<head>` tag to include new styles
 - These styles are always processed after the UI5 CSS from the themes
 - As the last processed CSS wins in case of multiple same CSS rules, the custom CSS always overwrites the standard UI5 CSS
 - The parts to be overwritten can be determined using tools like Firebug
 - It is also important to know that the id given to a control is also the id that the topmost HTML element of this control gets. Thus, this id can be used as a reference in CSS
- Using the `addStyleClass` method that every UI5 control has
 - One can add a CSS class to the top level HTML element of the UI5 control
 - See an example [here](#)

Theming in SAPUI5

See [general SAPUI5 theming concept](#)

- Based on CSS
- In addition: CSS Parameters (see next slide)
- CSS files are separated by control at development time
 - Additionally: `global.css`, `shared.css`
- Every theme uses „base“ theme CSS plus specific theme related CSS files on top
- Generator merges files and appends specific themes to base theme
 - Replaces CSS Parameter usages
 - Optional compression/optimization
 - Automatic right-to-left generation (For RTL languages like Hebrew)
 - One CSS file per control library (`library.css`)
 - SAPUI5 uses LESS to handle the CSS parameters (it also allows calculations, mixins,...)
- UI5 Framework handles theme switching at runtime

CSS Parameters

UI5 offers two main options to adjust themes

- Adjusting standard CSS directly with standard tools
- Changing parameters for the main features of a theme

Parameters

- Some values (often: colors) used for different elements
- Parameters: write once, reference often
- Parameters are mixed into the CSS of the controls
- The parameters are usually set in central files
- Using the LESS generator the parameter values are inserted and CSS only files are generated

```
@sapUiTextColor: #000000; /* text color is 'black' */
```

```
button {  
    color: @sapUiTextColor; /* current text color */  
    [...]  
}
```

CSS Parameters

Parameter values can be read at runtime with a JavaScript API

- This allows transferring UI5 theme parameters to own HTML parts
- Useful when one uses technology which cannot be influenced by CSS directly:
 - Canvas
 - WebGL

```
jQuery.sap.require("sap.ui.core.theming.Parameters");  
var myColor = sap.ui.core.theming.Parameters.get("sapUiSemanticErrorColor");
```




UI Theme Designer

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Parameters can be easily modified using the upcoming UI Theme Designer

- Easy CSS-free theming/branding as long as mainly colors need to be changed
- Live preview in real applications
- Other SAP UI technologies like Web Dynpro are also covered

The screenshot displays the SAP UI Theme Designer interface. At the top, it shows the title "Copy of sap_bluecrystal" and navigation options "Theme" and "Help". Below this, there are tabs for "Original" and "Preview". A "Target Pages" section lists "Approve Requisitions". The main area features a mobile device preview showing a search results page for "Bestellanforderungen (1)" with a search bar, a search result for "1003866" priced at "50.000,00 USD", and a product image of a "21\" Flat Screen Monitor". A configuration panel on the right includes "Quick" and "Expert" tabs, with "CSS" selected. It lists color parameters: Brand Color (#7000E0), Highlight Color (#FFCC00), Base Color (#808080), and Link Color (#00579e). An "Image" section shows a preview of a beach image and a text input field containing "uri(img/bg_white_transparent.pn)". A modal dialog titled "Assign Image" is open over the preview, prompting the user to "Drop image files here from your desktop" and showing a preview of the beach image.

Info Pages: SAP Fiori - Public

- [SAP Fiori - SAP User Experience Community](#)
- [Marketplace - Apps - SAP Fiori](#)
- help.sap.com/Fiori – Technical docs
- [SAP Community Network \(SCN\) – SAP Fiori - QA](#)

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