



UNIVERSAL THEME

Tips & Tweaks

Marko Gorički
listopad 2019., HROUG

24. hroug
godišnja konferencija



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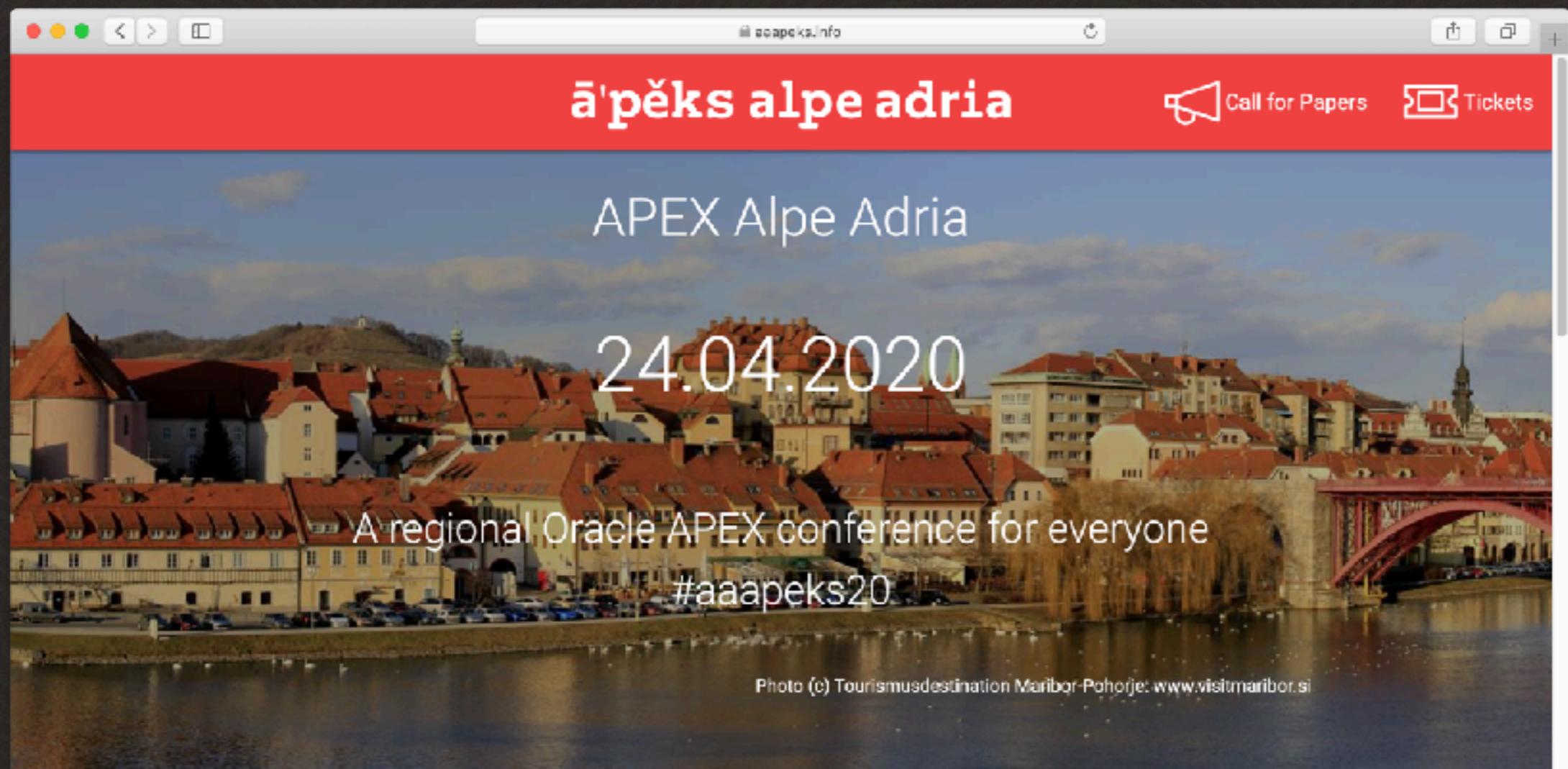
BLOG
SENSIBLE SOFTWARE ARCHITECTURE

- 10+ godina rada s APEX-om 😊
- HROUG, SIOUG, MakeIT, KSCOPE, APEX World, APEX Alpe Adria, APEX Connect
- APEX blog apexbyg.blogspot.com
- apex.world Member of the Year 2017.
- 

BLOG

SENSIBLE SOFTWARE ARCHITECTURE

- IT tvrtka fokusirana na savjetovanje i razvoj poslovnih rješenja
- tehnološki fokus - Oracle (APEX)
- APEX - razvoj, savjetovanje, edukacije, migracije, pluginovi...
- APEX solutions - HR management software



About the Conference

APEX Alpe Adria is a co-project of APEX enthusiasts of three countries: Slovenia, Croatia, Austria. Together we saw the need for an APEX event in the region. Of course we welcome attendees from just about everywhere.

Our [first conference in 2018](#) was a blazing success with 190 signed up attendees, the [second edition in 2019](#) raised the bar to 280 attendees!

<https://www.aaapeks.info>

Prije UT-a



#1 Puno različitih tema

Show Standard Themes 

Select a theme:

Scarlet (Theme 21) 

Bluejay (Theme 22) 

Uniforme (Theme 23) 

Cloudy (Theme 24) 

Blue Responsive (Theme 25) 

Productivity Applications (Theme 26) 

> Themes

> Compatibility

Cancel  Next > 

#2

Puno različitih predložaka

Oracle Application Express

Templates

Application 114 \ Shared Components \ Templates

Templates Subscription Publish Utilization History

Search Go Actions

Reset Create >

Type Name References Updated Updated By Default Theme Copy

Breadcrumb	Breadcrumb Menu	2			✓	28	
Breadcrumb	Hierarchical Menu	0				28	
Button	Button	2			✓	28	
Button	HTML button (legacy - APEX 6 migration)	0				26	
Button	Interactive Report Button	0				26	
Button	Interactive Report Button (Next)	0				26	
Button	Large Button	0				26	
Button	Large Button (Next)	0				28	
Button	Large Button (Previous)	0				28	
Button	Small Button	0				28	
Button	[+] Add Button	0				28	
Button	[>] Go To Button	0				26	
Button	[Text] Button	0				26	
Label	Hidden label, read by screen reader	0				26	
Label	No Label	0				26	
Label	Optional	1			✓	28	
Label	Optional with help	0				28	
Label	Required	0				28	
Label	Required with help	0				28	
Legacy Calendar	Calendar	1			✓	26	
Legacy Calendar	Calendar - Alternative	0				26	
Legacy Calendar	Small Calendar	0				26	
List	Button List	0				26	
List	DHTML Tree	0				28	

The Application Express engine controls the appearance of each page in an application using Templates. Templates define how pages, page controls, and page components display. To edit template attributes, select the template name. To preview a template, click the Run icon.

Tasks

- Replace templates in this application with templates from another application.
- View page template region position utilization.
- Theme Reports.
- Replace Templates.
- Unsubscribe Templates.

#2 Puno različitih predložaka

Button Template

```
1 <a href="#LINK#"class="uButton #BUTTON_CSS_CLASSES#" id="#BUTTON_ID#" #BUTTON_ATTRIBUTES# role="button"><span>#LABEL#</span></a>
```

Large Button Template

```
1 <a href="#LINK#"class="uButtonLarge #BUTTON_CSS_CLASSES#" id="#BUTTON_ID#" #BUTTON_ATTRIBUTES# role="button"><span>#LABEL#</span></a>
```

Small Button Template

```
1 <a href="#LINK#"class="uButtonSmall #BUTTON_CSS_CLASSES#" id="#BUTTON_ID#" #BUTTON_ATTRIBUTES# role="button"><span>#LABEL#</span></a>
```

Prilagodba izgleda

Unos osobe

Spremi

Ime	<input type="text"/>
Prezime	<input type="text"/>

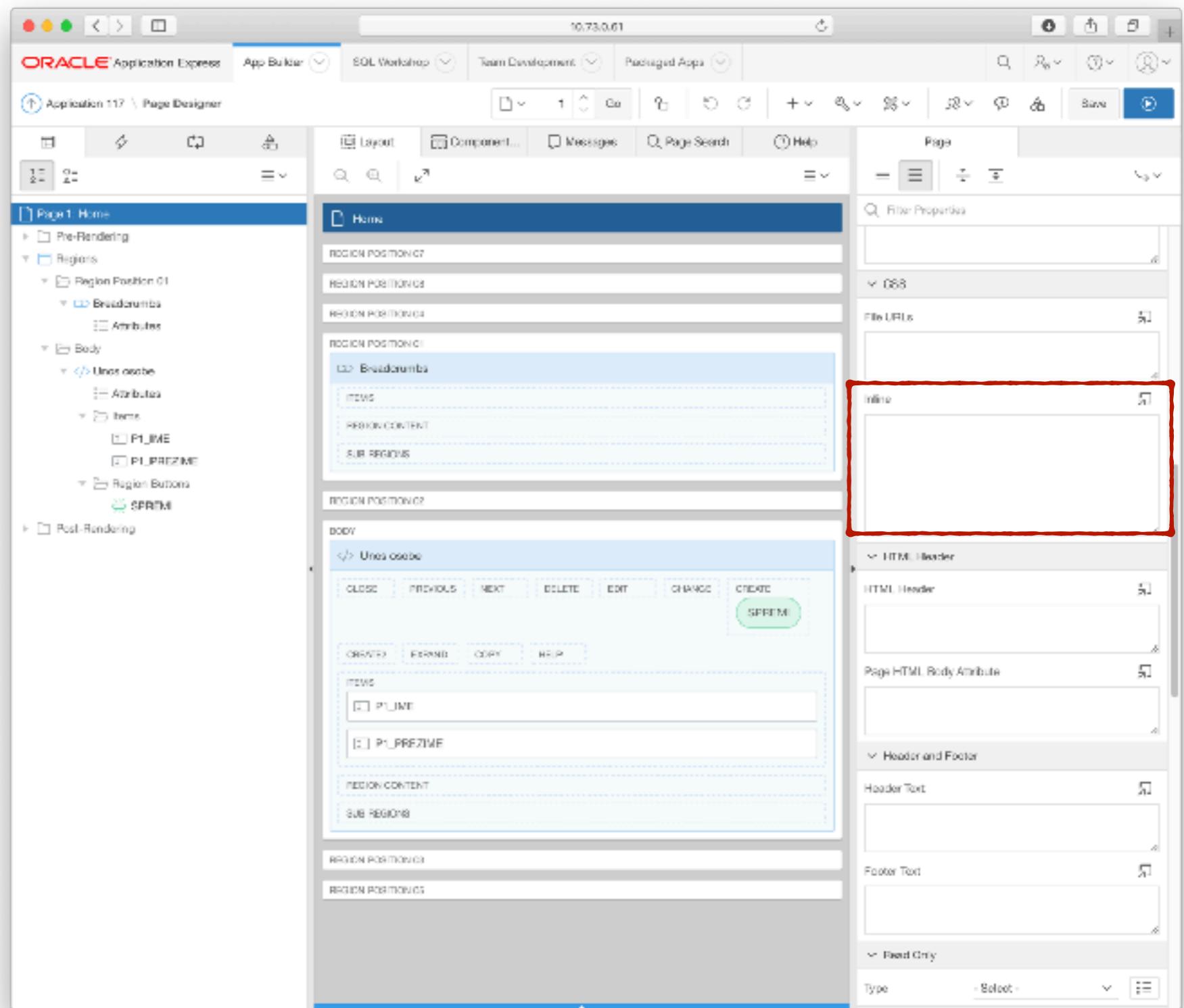
Prilagodba izgleda

Unos osobe

Spremi

Ime	<input type="text"/>
Prezime	<input type="text"/>

Prilagodba izgleda #1 Inline Page CSS





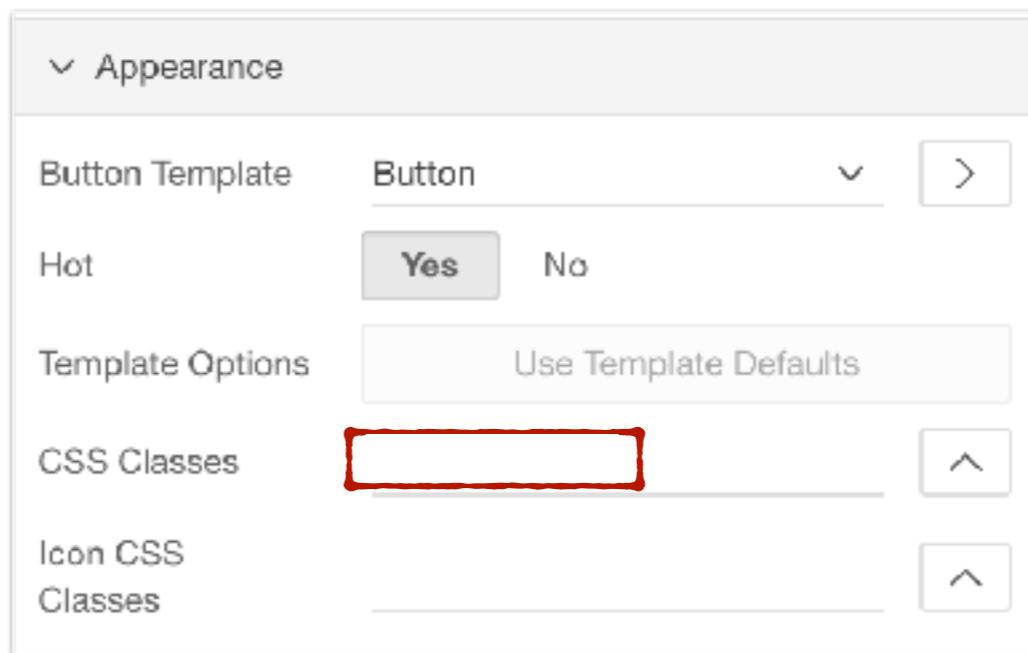
NO

Zašto je *inline* CSS Loš?

- povećava veličinu stranica
- nije ponovno iskoristiv
- nije minimiziran
- nema mogućnosti verzioniranja
- lako napraviti grešku
- teško za održavanje
- sporije za razvoj
- nema “keširanja”

Prilagodba izgleda

#2 CSS klasa + vanjska CSS datoteka



The screenshot shows a code editor window titled 'custom.css'. The file path is 'Users > Marko > Dropbox > Konferencije > 2019_HRDUG > other_files > # custom.css'. The code in the editor is:

```
# custom.css ■
Users > Marko > Dropbox > Konferencije > 2019_HRDUG > other_files > # custom.css > ...
1 a.uButton.uHotButtonRed {
2 border: 1px solid #EF5350 !important;
3 border-bottom: 1px solid #D32F2F !important;
4 }
5
6 a.uButton.uHotButtonRed span {
7 background-image: linear-gradient(#EF5350, #D32F2F) !important;
8 }
```

The status bar at the bottom of the editor shows: Line 9, Col 1, Spaces: 2, UTF-8, LF, CSS, and icons for search, refresh, and save.

Prilagodba izgleda

#3 kreiranje novog predloška + vanjska CSS datoteka

The screenshot shows two windows side-by-side. The top window is titled "Button Templates" and displays a list of 12 templates. The current template is named "Button Red". The bottom window is a code editor titled "custom.css" containing CSS rules for a button template. A red box highlights the class ".uButton.uHotButtonRed" in the code.

Top Window (Button Templates):

- 12 of 12
- Name: Button Red
- Show All
- Name
- Subscription
- Name: Button Red
- Identifier: BUTTON_HOT_RED

Bottom Window (Code Editor):

```
1 <a href="#LINK#" class="uButton uHotButtonRed #BUTTON_CSS_CLASSES#" id="#BUTTON_ID#" #BUTTON_ATTRIBUTES# role="button">
2   <span>#LABEL#</span>
3 </a>
```

custom.css

```
# custom.css ■
Users > Marko > Dropbox > Konferencije > 2019_HRDUG > other_files > # custom.css > ...
1  .uButton.uHotButtonRed {
2    border: 1px solid #EF5350 !important;
3    border-bottom: 1px solid #D32F2F !important;
4  }
5
6  .uButton.uHotButtonRed span {
7    background-image: linear-gradient(#EF5350, #D32F2F) !important;
8  }
```

File status: 0 changes, 0 errors, 0 warnings

Ln 9, Col 1 Spaces: 2 UTF-8 LF CSS

Problemi prije UT-a

- puno različitih tema i predložaka
- potrebno dobro poznavanje Web tehnologija i APEX-a
- strpljenje u radu s preglednicima



- puno vremena se trošilo na dizajn i probleme s dizajnom



Oracle Application Express

Universal Theme

Create Theme

Monthly Themes

A theme is a named collection of templates that defines the application user interface. Each theme contains templates for every type of application component and page control, including individual pages, regions, reports, lists, tables, breadcrumbs, buttons, and list of values. Templates contain HTML and variables that the Application Express engine substitutes with dynamic values at runtime.

Theme Type: All Themes

Theme
Simple Red (Theme 1)
Bullseye Blue (Theme 2)
Midnight Blue (Theme 3)
Coastal (Theme 4)
Sunrise (Theme 5)
Centered Blue (Theme 6)
Modern Blue (Theme 7)
Orange (Theme 8)
Simple Gray (Theme 9)
Sand (Theme 10)
Dark Sand (Theme 11)
Stone (Theme 12)
Classic Blue (Theme 13)
Simple Green (Theme 14)
Light Blue (Theme 15)
Dark Blue (Theme 16)
Sapphire (Theme 17)
Simplified Gray (Theme 18)
Red Grav (Theme 19)
Traditional Blue (Theme 20)
Scarlet (Theme 21)
Bleak (Theme 22)
Uniforms (Theme 23)
Daisy (Theme 24)
Blue Responsive (Theme 25)
Productivity Applications (Theme 26)

Next >

ORACLE Application Express 18.3.0.01

Application 105 \ Shared Components \ Themes

Themes Reports History

Number Name User Interface Current Subscribers Subscribers Page Templates Region Templates Button Templates List Templates

40 Universal Theme - 40 Desktop v4 Theme Repository 50 1 15 3 11

Tasks

- Copy Theme
- Delete Theme
- Export Theme
- Import Theme
- Change Identification Number
- Restore Theme
- Subscription
- Manage Workspaces
- Themes

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Application Express 5.14.0.0.0

A theme is a named collection of templates that defines every type of application component and page control, including breadcrumbs, buttons, and lists of values. Templates can substitute with dynamic values at runtime.

Theme Type: All Themes

Theme Simple Red (Theme 1)
Builder Blue (Theme 2)
Midnight Blue (Theme 3)
Solar (Theme 4)
Sunrise (Theme 5)
Centered Blue (Theme 6)
Modern Blue (Theme 7)
Orange (Theme 8)
Simple Gray (Theme 9)
Sand (Theme 10)
Dress Darling (Theme 11)
State (Theme 12)
Classic Blue (Theme 13)
Simple Green (Theme 14)
LightBlue (Theme 15)
Dark Blue (Theme 16)
Sapphire (Theme 17)
Simplified Gray (Theme 18)
Red Grav (Theme 19)
Traditional Blue (Theme 20)
Scarlet (Theme 21)
Blazey (Theme 22)
Unifroms (Theme 23)
Gleicy (Theme 24)
Blue Responsive (Theme 25)
Productivity Applications (Theme 26)

Cancel

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Application Express 5.14.0.0.08



Oracle Application Express

Universal Theme

responzivna

svestrana

prilagodljiva

#1 Theme Styles

#2 Theme Roller

#3 Template Options

Universal Theme Theme Styles

The screenshot displays a web-based application titled "Sample Database Application" with a blue header bar. The header includes the URL "tryapexnow.com", a user icon, and navigation links for "Help" and "Logout". A search bar at the top right says "Search customers, orders & products".

The main content area features a "Dashboard" section with four large metrics:

- Monthly Sales:** \$0
- Monthly Orders:** 0
- Total Products:** 10
- Total Customers:** 7

Below the dashboard are two tables:

- Top Customers:**

Bradley, Eugene	2,760
Windsor Locks, CT - 1,000	
Logan, Edward	2,420
East Boston, MA - 1,000	
Dulles, John	2,380
Sterling, VA - 1,000	
Hartsfield, William	2,370
Atlanta, GA - 1,000	
LaGuardia, Fiorello	1,090
Brooklyn, NY - 5,000	
- Top Products:**

Jacket - 18 x \$150	\$2,700
Bag - 16 x \$125	\$2,000
Trousers - 21 x \$80	\$1,680
Ladies Shoes - 12 x \$120	\$1,440
Business Shirt - 23 x \$60	\$1,150

At the bottom of the page is a footer bar with links: Home, Application 902, Edit Page 1, Session, View Debug, Debug, Page Info, Quick Edit, Theme Roller, and a help icon.

Universal Theme Theme Styles

The screenshot displays a sample database application interface. On the left, a dark sidebar navigation includes Home, Customers (7), Products (10), Orders (10), Reports, and Administration. The main area shows a dashboard with large numbers: \$0 Monthly Sales and 10 Total Products. Below these are sections for Top Customers and Top Orders by Date, each with a list of items and their details. To the right, there's a section for Top Products and a Tags summary. A floating window titled 'Theme Roller' is open, showing a dropdown menu for 'Global Colors' where 'Vita (Current)' is selected. Other theme options shown include Vita - Dark, Vita - Red, and Vita - Scale.

Sample Database Application
Track and Manage Customers, Orders and Products

Dashboard

Top Customers

Bradley, Eugene	2,760
Logan, Edward	2,420
Dulles, John	2,380
Hartsfield, William	2,370
LaGuardia, Fiorello	1,090

Top Orders by Date

July 27, 2019	\$2380
July 13, 2019	\$1890
August 07, 2019	\$1640
August 24, 2019	\$1515
August 09, 2019	\$1090

Top Products

Jacket - 18 x \$150
Bag - 16 x \$125
Trousers - 21 x \$80
Ladies Shoes - 12 x \$75
Business Shirt - 23 x \$60

Tags

REPEAT CUSTOMER 3 TOP SELLER 2
LARGE ORDER 1

Home Application 902 Edit Page 1 Session View Debug Debug Page Info Quick Edit Theme Roller

The screenshot shows a web browser displaying the Oracle Database API Reference. The URL in the address bar is `docs.oracle.com`. The page title is "API Reference". The left sidebar contains a navigation tree with the following structure:

- Database / Oracle / Application Express / Release 19.1
- Help Center
- API Reference
 - + 16 APEX_EXPORT
 - + 17 APEX_INSTANCE_ADMIN
 - + 18 APEX_IR
 - + 19 APEX_ITEM
 - + 20 APEX_JAVASCRIPT
 - + 21 APEX_JSON
 - + 22 APEX_JWT
 - + 23 APEX_LANG
 - + 24 APEX_LDAP
 - + 25 APEX_MAIL
 - + 26 APEX_PKG_APP_INSTALL
 - + 27 APEX_PAGE
 - + 28 APEX_PLUGIN
 - + 29 APEX_PLUGIN_UTIL
 - + 30 APEX_REGION
 - + 31 APEX_SESSION
 - + 32 APEX_SPATIAL
 - + 33 APEX_STRING
 - 34 APEX_THEME
 - 34.1 CLEAR_ALL_USERS_STYLE Procedure
 - 34.2 CLEAR_USER_STYLE Procedure
 - 34.3 DISABLE_USER_STYLE Procedure
 - 34.4 ENABLE_USER_STYLE Procedure
 - 34.5 GET_USER_STYLE Function
 - 34.6 SET_CURRENT_STYLE Procedure
 - 34.7 SET_SESSION_STYLE Procedure

34 APEX_THEME

The `APEX_THEME` package contains utility functions for working with themes and theme styles.

`CLEAR_ALL_USERS_STYLE` Procedure

`CLEAR_USER_STYLE` Procedure

`DISABLE_USER_STYLE` Procedure

`ENABLE_USER_STYLE` Procedure

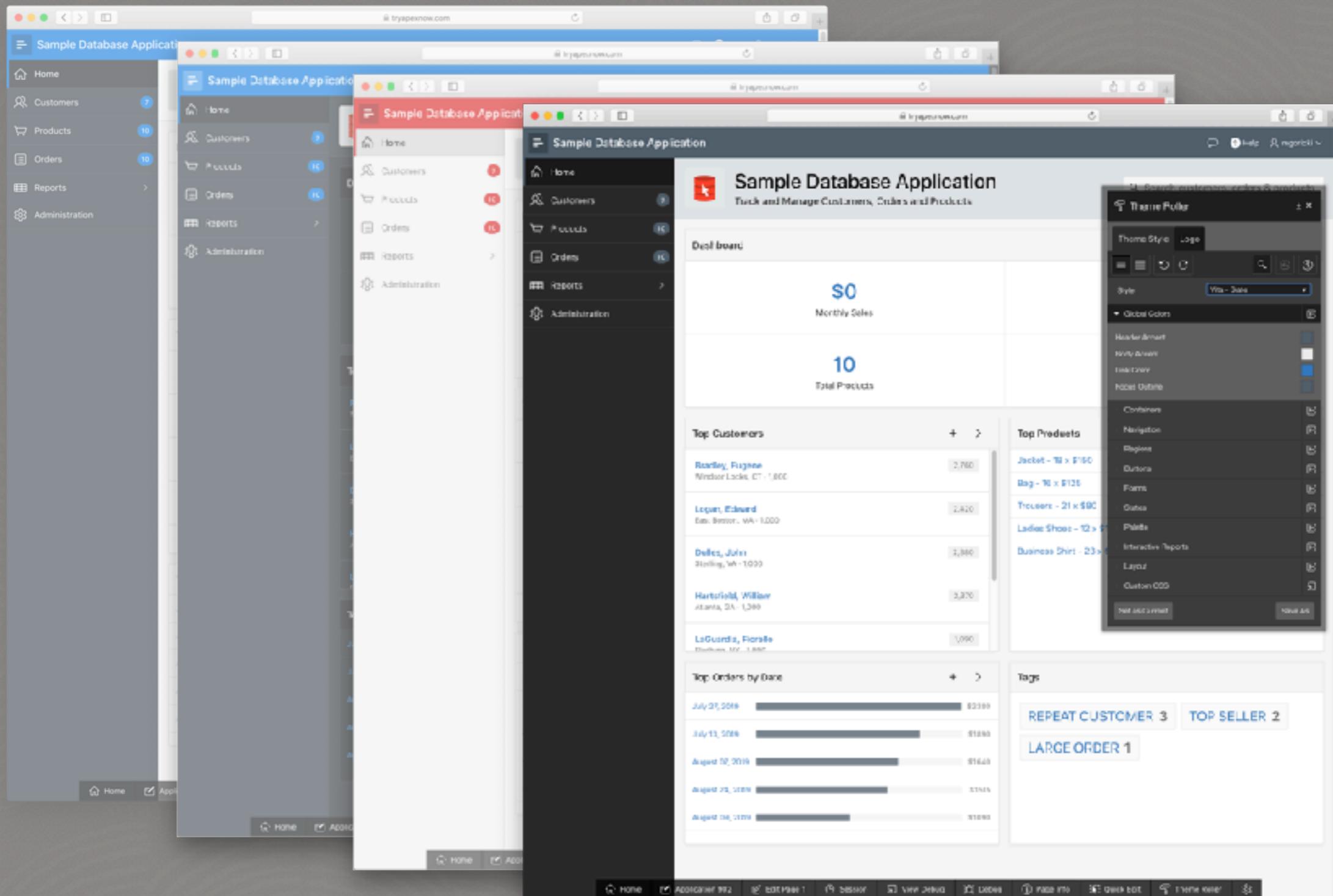
`GET_USER_STYLE` Function

`SET_CURRENT_STYLE` Procedure

`SET_SESSION_STYLE` Procedure

`SET_SESSION_STYLE_CSS` Procedure

`SET_USER_STYLE` Procedure



Universal Theme Theme Roller

The screenshot shows a web application interface titled "Sample Database Application" on a Mac OS X desktop. The application is running on the URL tryaceknow.com. The sidebar on the left contains links for Home, Customers (7), Products (10), Orders (10), Reports, and Administration. The main content area displays a dashboard with "Monthly Sales" (\$0) and "Total Products" (10). Below these are two tables: "Top Customers" and "Top Products". The "Top Customers" table lists five entries: Bradley, Eugene (2,700), Logan, Edward (2,420), Dulles, John (2,380), Hartsfield, William (2,370), and LaGuardia, Fiorello (1,090). The "Top Products" table lists five entries: Jacket - 18 x \$100, Bag - 16 x \$125, Trouters - 21 x \$80, Ladies Shoes - 12 x \$125, and Business Shirt - 25 x \$100. At the bottom of the dashboard are three status tags: REPEAT CUSTOMER 3, TOP SELLER 2, and LARGE ORDER 1. A "Theme Roller" panel is open on the right side of the screen, showing global colors for various UI components like Header Accent, Body Accent, Link Color, and Focus Outline, each with color swatches and preview boxes.

Sample Database Application

Track and Manage Customers, Orders and Products

Search customers, orders & products

Dashboard

\$0 Monthly Sales

10 Total Products

Top Customers

Bradley, Eugene	2,700
Logan, Edward	2,420
Dulles, John	2,380
Hartsfield, William	2,370
LaGuardia, Fiorello	1,090

Top Products

Jacket - 18 x \$100
Bag - 16 x \$125
Trouters - 21 x \$80
Ladies Shoes - 12 x \$125
Business Shirt - 25 x \$100

REPEAT CUSTOMER 3 TOP SELLER 2 LARGE ORDER 1

Theme Roller

Theme Style Logo

Global Colors

Header Accent Body Accent Link Color Focus Outline

Containers Navigation Regions Buttons Forms States Panels Interactive Reports Layout Custom CSS

Status Current Save As

Home Application 802 Edit Page 1 Session View Debug Debug Page Info Quick Edit Theme Roller

Universal Theme Theme Roller

The screenshot shows a web-based application titled "Sample Database Application" running on "tryaceknow.com". The main interface features a dark sidebar with yellow highlights for navigation. The sidebar includes links for Home, Customers (7), Products (10), Orders (10), Reports, and Administration. The main content area displays a dashboard with "Monthly Sales" (\$0) and "Total Products" (10). Below this are two sections: "Top Customers" and "Top Orders by Date". The "Top Customers" section lists five entries: Bradley, Eugene (Windham Locks, CT - 1,000), Logan, Edward (East Boston, MA - 1,000), Dulles, John (Sterling, VA - 1,000), Hartsfield, William (Atlanta, GA - 1,000), and LaGuardia, Flonello (Bronx, NY - 1,000). The "Top Orders by Date" section lists five orders: July 27, 2019 (\$2,000), July 13, 2019 (\$1,800), August 07, 2019 (\$1,600), August 24, 2019 (\$1,500), and August 09, 2019 (\$1,000). A search bar at the top right says "Search customers, orders & products". On the right side, a "Theme Roller" sidebar allows users to change colors and styles. A red box highlights the "Containers" section under "Global Colors", which includes options for Body, Actions Column, Title Bar, Header, and Left Side Column. The "Body" color is currently set to yellow. The "Theme Style" tab is selected in the top-left of the sidebar.

Sample Database Application
Track and Manage Customers, Orders and Products

Search customers, orders & products

Theme Roller

Theme Style Logo

Containers

Container Border Radius: 10px

Body (Yellow) Current

Global Colors

Containers

Body Actions Column Title Bar Header Left Side Column

Navigation Regions Buttons Forms States Palettes Interactive Reports Layout Custom CSS

Tags

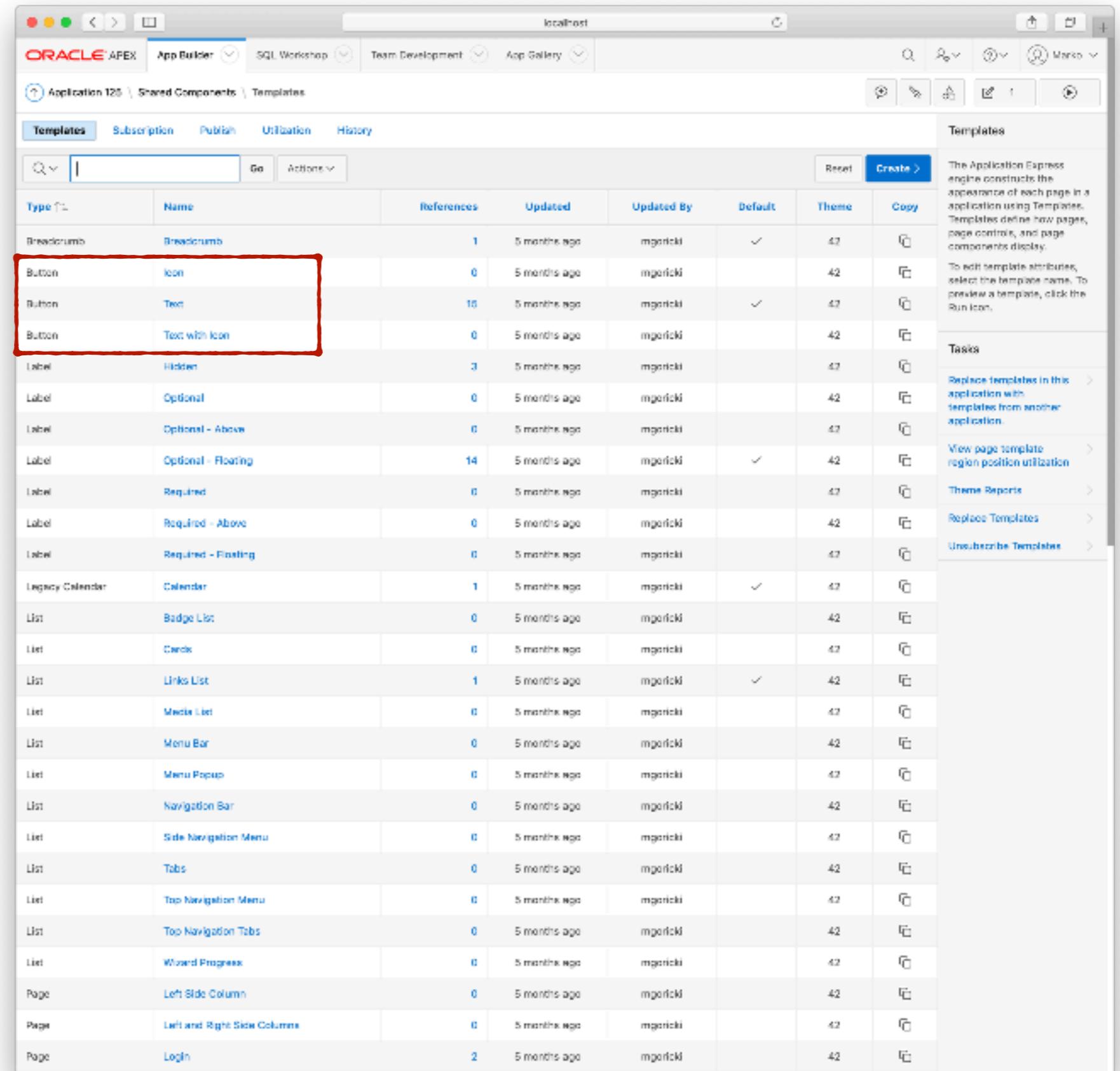
REPEAT CUSTOMER 3 TOP SELLER 2

LARGE ORDER 1

Save Current Save Save As

Home Application 802 Edit Page 1 Session View Debug Debug Page Info Quick Edit Theme Roller

Universal Theme Template Options



The screenshot shows the Oracle APEX App Builder interface, specifically the 'Templates' page. The page title is 'Application 125 | Shared Components | Templates'. The main content area displays a grid of template entries. A red box highlights three specific entries in the first column:

Type	Name	References	Updated	Updated By	Default	Theme	Copy
Breadcrumb	Breadcrumb	1	5 months ago	mgerickl	✓	42	
Button	icon	0	5 months ago	mgerickl		42	
Button	Text	18	5 months ago	mgerickl	✓	42	
Button	Text with icon	0	5 months ago	mgerickl		42	
Label	Hidden	3	5 months ago	mgerickl		42	
Label	Optional	0	5 months ago	mgerickl		42	
Label	Optional - Above	0	5 months ago	mgerickl		42	
Label	Optional - Floating	14	5 months ago	mgerickl	✓	42	
Label	Required	0	5 months ago	mgerickl		42	
Label	Required - Above	0	5 months ago	mgerickl		42	
Label	Required - Floating	0	5 months ago	mgerickl		42	
Legacy Calendar	Calendar	1	5 months ago	mgerickl	✓	42	
List	Badge List	0	5 months ago	mgerickl		42	
List	Cards	0	5 months ago	mgerickl		42	
List	Links List	1	5 months ago	mgerickl	✓	42	
List	Media List	0	5 months ago	mgerickl		42	
List	Menu Bar	0	5 months ago	mgerickl		42	
List	Menu Popup	0	5 months ago	mgerickl		42	
List	Navigation Bar	0	5 months ago	mgerickl		42	
List	Side Navigation Menu	0	5 months ago	mgerickl		42	
List	Tabs	0	5 months ago	mgerickl		42	
List	Top Navigation Menu	0	5 months ago	mgerickl		42	
List	Top Navigation Tabs	0	5 months ago	mgerickl		42	
List	Wizard Progress	0	5 months ago	mgerickl		42	
Page	Left Side Column	0	5 months ago	mgerickl		42	
Page	Left and Right Side Columns	0	5 months ago	mgerickl		42	
Page	Login	2	5 months ago	mgerickl		42	

The right sidebar contains a summary of template usage and navigation links:

- The Application Express engine constructs the appearance of each page in a application using Templates.
- Templates define how pages, page controls, and page components display.
- To edit template attributes, select the template name. To preview a template, click the Run icon.
- Tasks
 - Replace templates in this application with templates from another application.
 - View page template region position utilization.
 - Theme Reports.
 - Replace Templates.
 - Unsubscribe Templates.

Universal Theme Template Options

Text Button Template

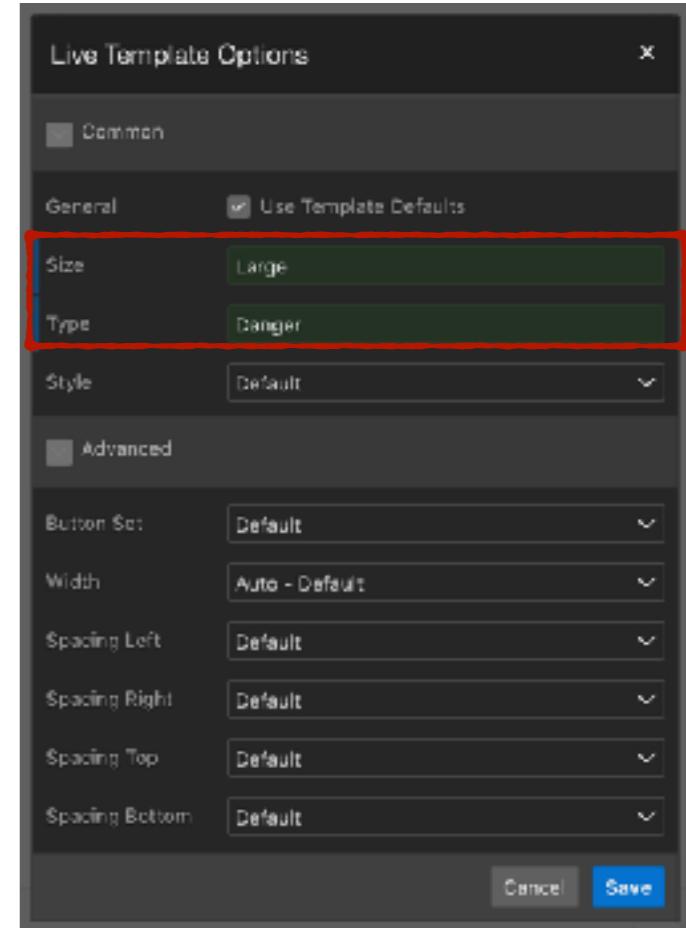
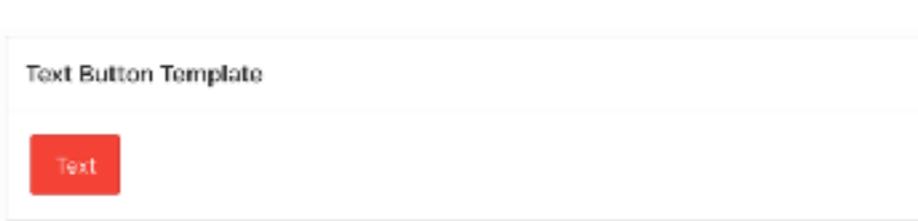
Text

```
<button onclick="#JAVASCRIPT#"  
        class="t-Button #BUTTON_CSS_CLASSES#" // Red box here  
        type="button" #BUTTON_ATTRIBUTES#  
        id="#BUTTON_ID#">  
    <span class="t-Button-label">#LABEL#</span>  
</button>
```



```
<button onclick="#" // Red box here  
        class="t-Button" // Red box here  
        type="button"  
        id="..." style="#">  
    <span class="t-Button-label">Text</span>  
</button>
```

Universal Theme Template Options



```
<button onclick="#JAVASCRIPT#"
        class="t-Button #BUTTON_CSS_CLASSES#"
        type="button" #BUTTON_ATTRIBUTES#
        id="#BUTTON_ID#>
    <span class="t-Button-label">#LABEL#</span>
</button>
```



```
<button onclick="..."
        class="t-Button t-Button--large t-Button--danger"
        type="button"
        id="..." style=""
    <span class="t-Button-label">Text</span>
</button>
```

Universal Theme Template Options

Universal Theme

Getting Started

Design

Components

Activity Timeline

Alert

Badges List

Breadcrumb

Buttons

Text Only

Icon Only

Text with Icon

Button Group

Button Container

Calendars

Cards

Carousel

Charts

Collapsible

Comments

Data Tables and Reports

Forms

Help Text

Hero

Lists

List View

Menu Bar

Menu Popup

Modal Dialogs and Popups

PL/SQL Dynamic Content

Components \ Buttons \ Text Only

Show All About Examples

About

This is your standard button in Universal Theme

Set Text as the Button Template.

Examples

1. Default

Small Button

Default Button

Large Button

Small Hot Button

Default Hot Button

Large Hot Button

2. Variations

Default Style

Default Hot

Default Warning

Default Success

Default Danger

Default Primary

Simple Style

Simple Hot

Simple Warning

Simple Success

Simple Danger

Simple Primary

Link Style

Link Hot

Link Warning

Link Success

Link Danger

Link Primary

Template Options

Size

Default

Tiny

A very small button.

Small

A small button.

Large

A large button.

Type

Normal

Primary

Warning

Danger

The screenshot displays the Oracle APEX Universal Theme template options page for buttons. The left sidebar lists various components and their sub-options. The main content area shows a 'Text Only' example with a text input field and a 'About' section describing it as a standard button. It then transitions into 'Examples' and 'Variations' sections. The 'Variations' section shows a grid of buttons in different colors and sizes. Below this, the 'Template Options' section allows users to configure the size (tiny, small, large) and type (normal, primary, warning, danger) of the buttons. The 'Normal' option is selected under 'Type'.

tryapexnow.com

ORACLE APEX App Builder SQL Workshop Team Development App Gallery

Application 382 \ Page Designer

Page 4: Multi Edit Template Options

Pre-Rendering Regions Content Body Multi Edit Template Options Attributes Items PM_TEXT_1 PM_TEXT_2 PM_SELECT Post-Rendering

Template Options

Common General Use Template Defaults Stretch Form Item Size Large

Advanced Item Pre Text Default Item Post Text Default Top Margin Default Bottom Margin Default Left Margin Default Right Margin Default

Cancel OK

Regions Items Buttons

Breadcrumbs Calendar Chart Classic Report Column Toggle Report

Faceted Search Form Help Text Interactive Grid Interactive

Identification Type Label Label Layout Sequence Region Multi Edit Template Options Start New Row Column Automatic Column Span Automatic Column CSS Classes Column Attributes Appearance Template Optional - Floating Template Options Value Varies CSS Classes Icon Format Mask Validation Value Required Advanced CSS Classes Custom Attributes Warn on Unsaved Page Default

New in APEX 19.2

tryapexnow.com

ORACLE APEx App Builder SQL Workshop Team Development App Gallery

Application 2006 \ Shared Components \ Themes

Themes Reports History

Actions ▾ Reset Switch Theme Create >

Number ↑	Name	User Interface	Is Universal Theme	Is Current	Subscribed From	Subscribers	Templates	Page Templates	Region Templates	Button Templates	List Templates
42	Universal Theme - d2 -	Desktop	✓	✓	Theme Repository		81	9	16	3	12

1 - 1

Themes

A Theme is a named collection of templates used to define the user interface of an application.

Tasks

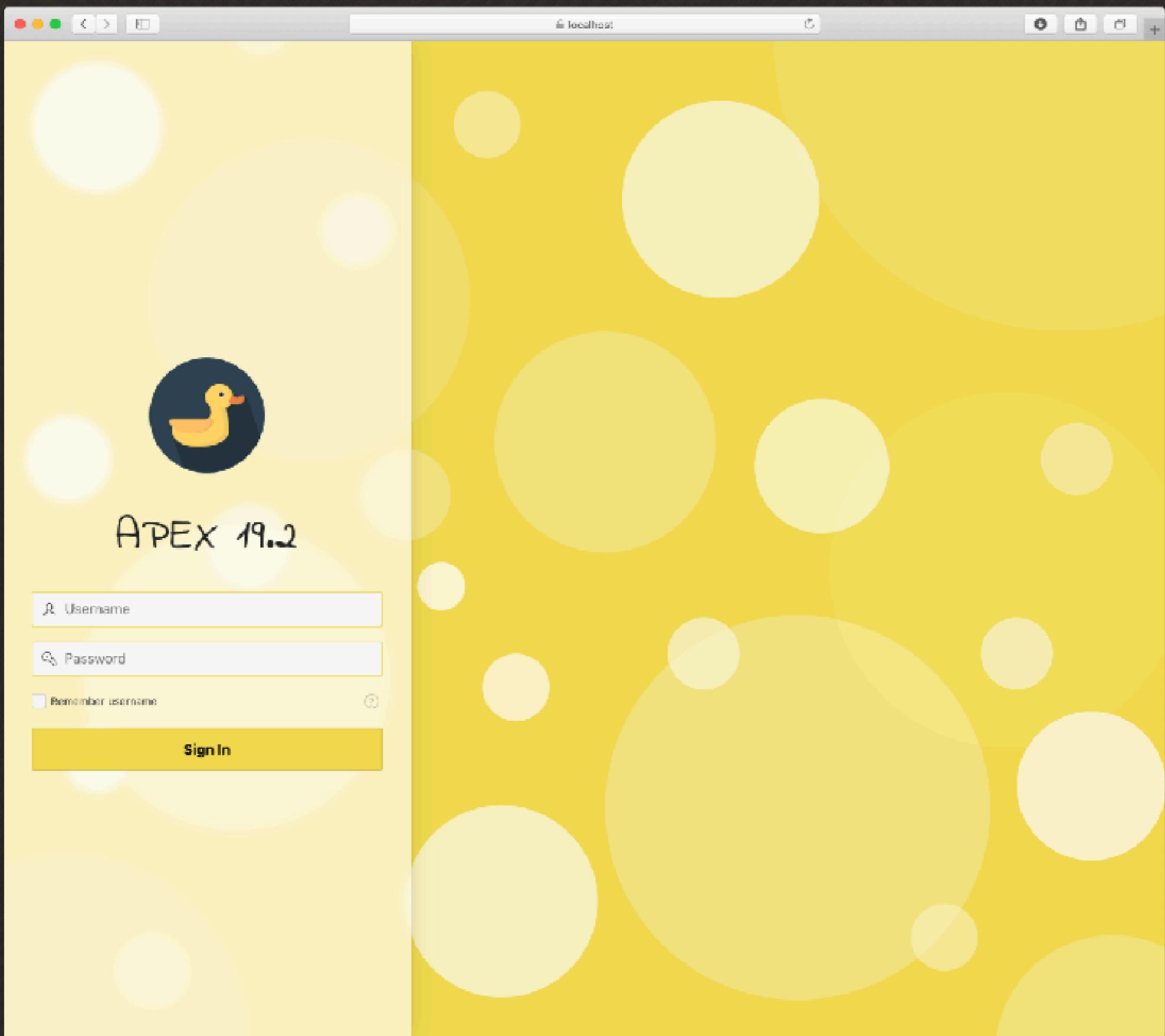
- Copy Theme >
- Delete Theme >
- Export Theme >
- Import Theme >
- Change Identification Number >
- Restore Theme Subscription >
- Manage Workspace Themes >

mgorlick@gmail.com mgorlick on

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Application Express 18.2.0.0.10

The screenshot shows the Oracle Application Express (APEx) interface for managing themes. The main content area displays a table of themes, with the first row highlighted. The 'Subscribed From' column for this row contains the text 'Theme Repository', which is enclosed in a red rectangular box. The table includes columns for Number, Name, User Interface, Is Universal Theme, Is Current, Subscribed From, Subscribers, Templates, Page Templates, Region Templates, Button Templates, and List Templates. The 'Subscribed From' column header is also highlighted with a red box. To the right of the table, there is a sidebar titled 'Themes' with a detailed description and a list of tasks such as Copy Theme, Delete Theme, Export Theme, Import Theme, Change Identification Number, Restore Theme Subscription, and Manage Workspace Themes. At the bottom of the page, there are navigation links for mgorlick and copyright information.



Application 2006 | Shared Components \ Themes \ Create / Edit Theme

Cancel **Apply Changes**

Themes
A Theme is a named collection of templates used to define the user interface of an application.

Tasks
[View Templates](#) >
[Delete Theme](#) >

Theme

Name: Application: 2006 ⓘ
Theme Number: 42 ⓘ
Name: Universal Theme ⓘ
Identifier: UNIVERSAL_THEME ⓘ
Navigation Type: List ⓘ
Navigation Bar Implementation: List ⓘ
Description: ⓘ

Theme Subscription
Subscribed to Standard Theme : Universal Theme
No themes subscribe to this theme.

JavaScript and Cascading Style Sheets

JavaScript File URLs: #IMAGE_PREFIX#Libraries/apex/#MIN_DIRECTORY#widget.stickyWidget.js?v=#APEX_VERSION# ⓘ
#THEME_IMAGES#js/theme42#MIN#.js?v=#APEX_VERSION# ⓘ

CSS File URLs: #THEME_IMAGES#css/Core#MIN#.css?v=#APEX_VERSION# ⓘ

Component Defaults

Specify component defaults by component type.

Page	Standard	ⓘ
Navigation Bar List	Navigation Bar	ⓘ
Navigation Menu List Position	Side	ⓘ
Navigation Menu List (Top)	Top Navigation Menu	ⓘ
Navigation Menu List (Side)	Side Navigation Menu	ⓘ
Login Page	Login	ⓘ
Error Page	Login	ⓘ
Printer Friendly Page	Standard	ⓘ

1 Verify 2 Refresh Theme

tryapexnow.com

ORACLE APEX App Builder SQL Workshop Team Development App Gallery

Application 2006 \ Shared Components \ Themes \ Create / Edit Theme

Theme

Name Application: 2006 ⓘ Theme Number: 42 ⓘ Name: Universal Theme ⓘ Identifier: UNIVERSAL_THEME ⓘ Navigation Type: List ⓘ Navigation Bar Implementation: List ⓘ Description: ⓘ

Theme Subscription

Subscribed to Standard Theme : Universal Theme

No themes subscribe to this theme.

JavaScript and Cascading Style Sheets

JavaScript File URLs: #IMAGE_PREFIX#libraries/apex/#MIN_DIRECTORY#widget.stickyWidget.js?v=#APEX_VERSION# #THEME_IMAGES#js/theme42#MIN#.js?v=#APEX_VERSION#

CSS File URLs: #THEME_IMAGES#css/Core#MIN#.css?v=#APEX_VERSION#

Component Defaults

Specify component defaults by component type.

Page: Standard ⓘ Navigation Bar List: Navigation Bar ⓘ Navigation Menu List Position: Side ⓘ Navigation Menu List (Top): Top Navigation Menu ⓘ Navigation Menu List (Side): Side Navigation Menu ⓘ Login Page: Login ⓘ Error Page: Login ⓘ Printer Friendly Page: Standard ⓘ

Themes

A Theme is a named collection of templates used to define the user interface of an application.

Tasks

[View Templates](#) > [Delete Theme](#) >

 A large red 'X' mark is overlaid on the 'Unsubscribe' button in the 'Theme Subscription' section.

tryapexnow.com

ORACLE APEX App Builder SQL Workshop Team Development App Gallery

Application 2006 | Shared Components | Themes | Create / Edit Theme

Theme

Name Application: 2006

Theme Number: 42

Name: Universal Theme

Identifier: UNIVERSAL_THEME

Navigation Type: List

Navigation Bar Implementation: List

Description:

Theme Subscription

Subscribed to Standard Theme : Universal Theme

No themes subscribe to this theme.

JavaScript and Cascading Style Sheets

JavaScript File URLs: #IMAGE_PREFIX#library#THEME_IMAGES#js/the

CSS File URLs: #THEME_IMAGES#css/Core@MIN#.css?v=#APEX_VERSION#

Component Defaults

Specify component defaults by component type.

Page: Standard

Navigation Bar List: Navigation Bar

Navigation Menu List Position: Side

Navigation Menu List (Top): Top Navigation Menu

Navigation Menu List (Side): Side Navigation Menu

Login Page: Login

Error Page: Login

Printer Friendly Page: Standard

Cancel Apply Changes

Themes

A Theme is a named collection of template used to define the user interface of an application.

Tasks

[View Templates](#)

[Delete Theme](#)

The screenshot shows a theme configuration screen. A red circle highlights the 'Navigation Bar List' dropdown, which is set to 'Navigation Bar'. A large red 'X' is drawn over the 'Unsubscribe' button in the theme preview area, indicating it is not being used. A red hand-drawn arrow points from the 'Navigation Bar List' dropdown towards the 'Unsubscribe' button.

Content Modifiers

Dark Mode

12-column Flexible Grid

Responsive Design

Various Page Templates

Button Builder

Font APEX Library

Layout Modifiers

JavaScript API

Color and Status Mod

Accessibility Tested

Touch Gestures

Carousel

Mobile Ready

Sample Application

Right to Left Support

Responsive Classes

Mobile Patterns

Live Template Options

JavaScript Events



Prilagodba teme

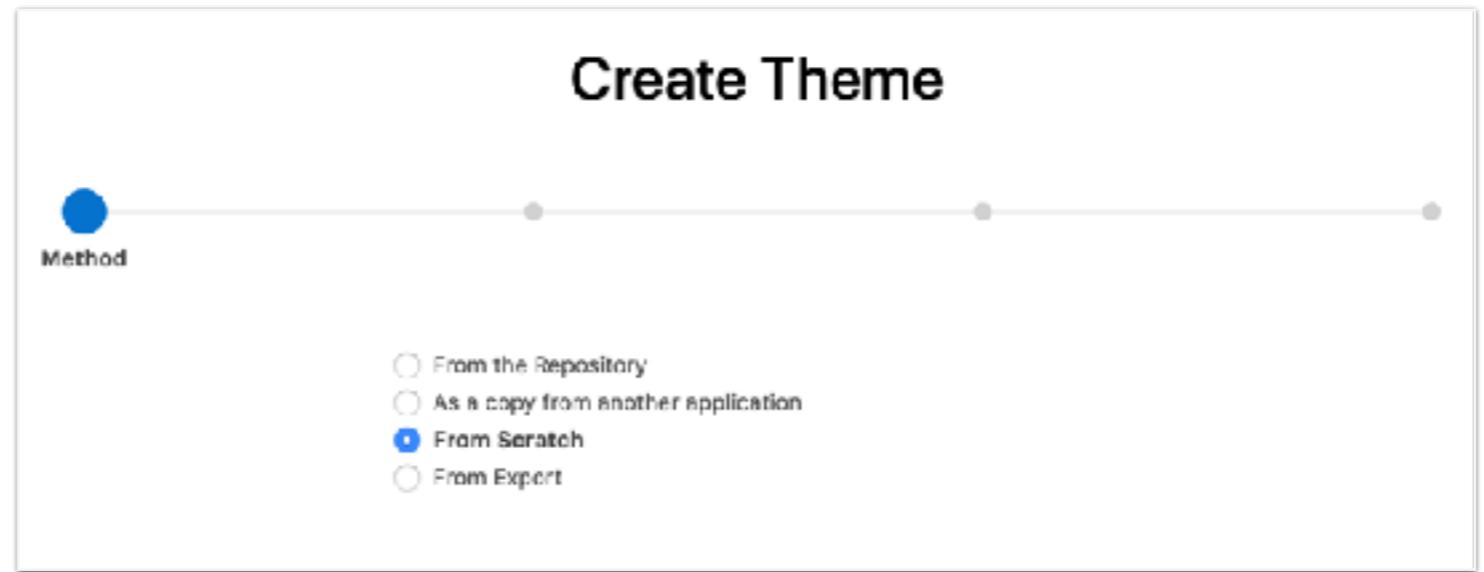
#1 izrada nove teme (*from scratch*)

#2 korištenje *3rd party* tema

#3 prilagodba UT-a

#1 izrada nove teme (*from scratch*)

- dugotrajan razvoj
- teško održavanje
- problemi kod nadogradnje
- napredno poznavanje Web tehnologija i APEX-a
- pogodno za Web projekte ili aplikacije gde je fokus na sučelju



#2 korištenje 3rd party tema

www.materialapex.com

The screenshot shows the homepage of materialapex.com. The header includes a navigation bar with 'Material APEX', a search bar, settings, and a logout button. The main content features a scenic background of snow-capped mountains at sunset. Text on the page reads 'A modern responsive theme for Oracle APEX' and 'Based on Google's Material Design guidelines.' Three icons representing different devices (monitor, smartphone, tablet) are displayed. A call-to-action button labeled 'About Material Design' is visible. Below it, a paragraph explains that Material Design is a design language created by Google, combining classic principles with innovation and technology to provide a unified user experience across platforms. Three decorative icons are shown at the bottom: a red airplane, a smiling face, and geometric shapes.

Not Secure — materialapex.com

Material APEX

Search Settings LOGOUT

A modern responsive theme for

Oracle APEX

Based on Google's Material Design guidelines.

About Material Design

Created and designed by Google, Material Design is a design language that combines the classic principles of successful design along with innovation and technology. Google's goal is to develop a system of design that allows for a unified user experience across all their products on any platform.





Prilagodba UT

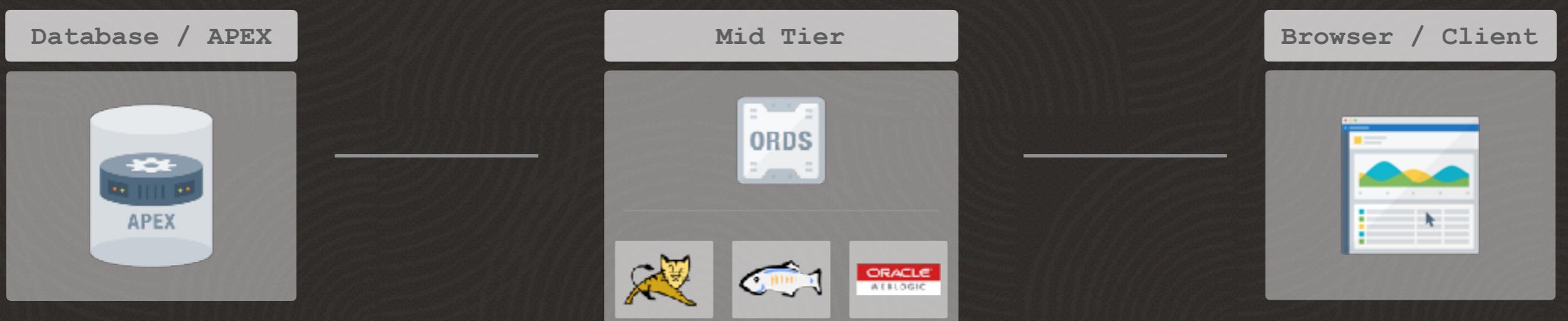
- *override CSS-a*
- kreiranje novih predložaka



#1 Gdje smjestiti datoteke?

#2 Kako referencirati datoteke?

#3 Kako strukturirati CSS kod?



#1 Gdje smjestiti datoteke?

Custom Static



Database / APEX



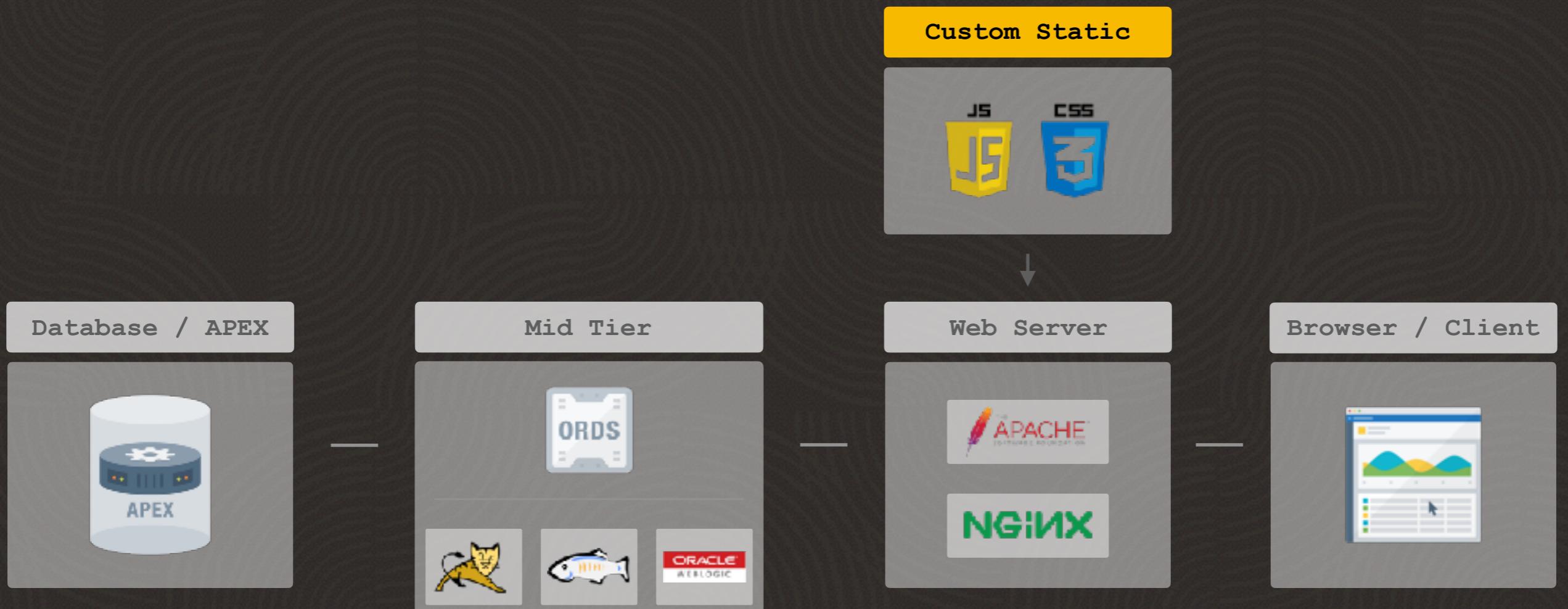
Mid Tier



Browser / Client



#1 Gdje smjestiti datoteke?



#1 Gdje smjestiti datoteke?

Application	Shared Components > User Interfaces > User Interface Details > CSS > File URLs
Theme	Shared Components > Themes > Create > File URLs
Template	Shared Components > Templates > CSS > File URLs
Plugin	Shared Components > Plug-ins > Files
Page	Page Designer > Page X > CSS > File URLs
Inline	<code><link rel="stylesheet" href="#APP_IMAGES#custom.css" type="text/css"></script></code>

Application	Shared Components > User Interfaces > User Interface Details > CSS > File URLs
Theme	<i>Shared Components > Themes > Create > File URLs</i>
Template	<i>Shared Components > Templates > CSS > File URLs</i>
Plugin	Shared Components > Plug-ins > Files
Page	Page Designer > Page X > CSS > File URLs
Inline	<link rel="stylesheet" href="#APP_IMAGES#custom.css" type="text/css"></script>

The screenshot shows the 'User Interface Details' page for a database object. The top navigation bar includes tabs for 'Definition', 'Security', 'Globalization', and 'User Interface' (which is selected). Below the tabs are buttons for 'Cancel', 'Delete', and 'Apply Changes'. The main content area is divided into several sections:

- JavaScript**: Contains fields for 'Content Delivery Network' (set to 'None (use Web Server)'), 'File URLs' (containing '#APP_IMAGES#js/customMINE.js'), and options for 'Include Deprecated or Disupported Javascript Functions' (checkboxes for 'Pre 18.1' and '18.x') and 'Include jQuery Migrate' (checkbox).
- Cascading Style Sheets**: Contains a field for 'File URLs' (containing '#APP_IMAGES#css/customMINE.css'). This field is highlighted with a red rectangular border.
- Concatenated Files**: A section with a 'Create Concatenated File >' button.

#2 Kako referencirati datoteke

#3

Kako strukturirati CSS kod?



- minification reduce development time
- concatenation reduce repeating tasks
- source mapping increase maintainability
- error handling better modularization
- easy file upload performance boost
- browser synchronization enhanced teamwork

Struktura

- ▶ dist
- ▼ src
 - ▶ images
 - ▶ css
 - ▶ js



Source (SRC) direktorij

- ▶ dist
- ▼ src
 - ▼ css
 - 000_general.css
 - 010_header.css
 - 020_regions.css
 - 030_reports.css
 - 040_buttons.css
 - 040_items.css
 - 090_login.css
 - 100_page_001.css
 - 100_page_002.css
 - 100_page_003.css
 - ▶ images
 - ▶ js



Distribution (DIST)

- ▼ dist
 - ▼ css
 - custom.min.css
 - custom.css
 - custom.css.map
 - ▶ js
 - ▶ images
 - ▶ src



Sample Database Application

tryapexnow.com

Help

Logout

Home

Customers 7

Products 10

Orders 10

Reports >

Administration

Sample Database Application

Track and Manage Customers, Orders and Products

Dashboard

\$0 Monthly Sales

0 Monthly Orders

10 Total Products

7 Total Customers

Top Customers

Bradley, Eugene	2,700
Windsor Locks, CT - 1,000	
Logan, Edward	2,420
East Boston, MA - 1,000	
Dulles, John	2,300
Sterling, VA - 1,000	
Hartfield, William	2,270
Atlanta, GA - 1,000	
LaGuardia, Fiorello	1,050
Pearl River, NY - 1,000	

Top Products

Jacket - 18 x \$150	\$2,700
Bag - 16 x \$125	\$2,000
Trousers - 21 x \$80	\$1,680
Ladies Shoes - 12 x \$120	\$1,440
Business Shirt - 23 x \$60	\$1,150

Top Orders by Date

July 22, 2019	\$2,380
July 15, 2019	\$1,890
August 07, 2019	\$1,640
August 24, 2019	\$1,575
August 09, 2019	\$1,090

Tags

REPEAT CUSTOMER 3 TOP SELLER 2

LARGE ORDER 1

localhost

Sample Database Application

Track and Manage Customers, Orders and Products

Home

Customers 7

Products 10

Orders 10

Reports >

Administration

Dashboard

\$0 Monthly Sales 0 Monthly Orders

10 Total Products 7 Total Customers

Top Customers

Bradley, Eugene	2,700
Windsor Locks, CT - 1,000	
Logan, Edward	2,420
East Boston, MA - 1,000	
Dulles, John	2,300
Stauning, VA - 1,000	
Hartsfield, William	2,270
Atlanta, GA - 1,000	
LaGuardia, Fiorello	1,050
Peterson, Alice - 9,999	

Top Products

Jacket - 18 x \$750	\$2,700
Bag - 16 x \$125	\$2,000
Trousers - 21 x \$80	\$1,680
Ladies Shoes - 12 x \$120	\$1,440
Business Shirt - 23 x \$50	\$1,150

Top Orders by Date

July 22, 2019	\$2,380
July 15, 2019	\$1,890
August 02, 2019	\$1,640
August 24, 2019	\$1,616
August 09, 2019	\$1,090

Tags

- REPEAT CUSTOMER 3
- TOP SELLER 2
- LARGE ORDER 1

020_regions.css — nitro

020_regions.css X

```
src > css > # 020_regions.css > ...
1  /* Tag Region Start */
2  .a-TagCloud .a-TagCloud-item{
3      display:block;
4  }
5  .a-TagCloud .a-TagCloud-link{
6      background-color:transparent;
7      color:#5c5c5c;
8      font-size:16px;
9      line-height: 20px;
10     position:relative;
11     border:none;
12     padding-left: 0;
13     margin-right: 0;
14 }
15 .a-TagCloud .a-TagCloud-link:hover{
16     box-shadow: none;
17 }
18 .a-TagCloud .a-TagCloud-link .a-TagCloud-count{
19     background-color:#efcc88;
20     color:#ffffff;
21     padding:4px 10px;
22     border-radius: 50%;
23     position:absolute;
24     right: 0;
25     top: 0;
26 }
27 /* Tag Region End */
```

EXPLORER

> OPEN EDITORS

< NITRO

- > dist
- < src
 - < css
 - # 000_general.css
 - # 010_header.css
 - # 020_regions.css**
 - # 030_reports.css
 - # 040_buttons.css
 - # 050_items.css
 - # 090_login.css
 - # 100_page_001.css
 - # 100_page_002.css
 - # 100_page_003.css
 - > images
 - > js

< OUTLINE

< SSH FILE SYSTEMS

① 0 ▲ 0

Ln 27, Col 21 Spaces: 2 UTF-8 LF CSS ⚙ ⌂

100_page_001.css — nitro

EXPLORER # 020_regions.css # 100_page_001.css ●

OPEN EDITORS 1 UNSAVED

NITRO

- dist
- css
 - # custom.css
 - # custom.css.map
 - # custom.min.css
- images
- js
- src
 - css
 - # 000_general.css
 - # 010_header.css
 - # 020_regions.css
 - # 030_reports.css
 - # 040_buttons.css
 - # 050_items.css
 - # 090_login.css
 - # 100_page_001.css
 - # 100_page_002.css
 - # 100_page_003.css
 - images
 - js

src > css > # 100_page_001.css > ...

```
1  /* Tag Region Start */
2  .page-1 .a-TagCloud .a-TagCloud-item{
3      display:block;
4  }
5  .page-1 .a-TagCloud .a-TagCloud-link{
6      background-color:transparent;
7      color:#5c5c5c;
8      font-size:16px;
9      line-height: 20px;
10     position:relative;
11     border:none;
12     padding-left: 0;
13     margin-right: 0;
14 }
15 .page-1 .a-TagCloud .a-TagCloud-link:hover{
16     box-shadow: none;
17 }
18 .page-1 .a-TagCloud .a-TagCloud-link .a-TagCloud-count{
19     background-color:#dfcc00;
20     color:#ffffff;
21     padding:4px 10px;
22     border-radius: 50%;
23     position: absolute;
24     right: 0;
25     top: 0;
26 }
27 /* Tag Region End */
```

OUTLINE

SSH FILE SYSTEMS

0 0 ▲ 0

Ln 27, Col 21 Spaces: 2 UTF-8 LF CSS ⌂ ⌂

Kreiranje novih predložaka

Type	Name	References	Updated	Updated By	Default	Theme	Cards	Subscribed From	Actions
Breadcrumb	Breadcrumb	10	5 days ago	mgoricki	✓	42		Theme	
Button	Icon	8	5 days ago	mgoricki		42		Theme	
Button	Text	98	5 days ago	mgoricki	✓	42		Theme	
Button	Text with Icon	1	5 days ago	mgoricki		42		Theme	
Label	Hidden	4	5 days ago	mgoricki		42		Theme	
Label	Optional	1	5 days ago	mgoricki		42		Theme	
Label	Optional - Above	1	5 days ago	mgoricki		42		Theme	
Label	Optional - Floating	14	5 days ago	mgoricki	✓	42		Theme	
Label	Featured	1	5 days ago	mgoricki		42		Theme	
Label	Required - Above	1	5 days ago	mgoricki		42		Theme	
Label	Required - Floating	1	5 days ago	mgoricki		42		Theme	
Legacy Calendar	Calendar	1	5 days ago	mgoricki	✓	42		Theme	
List	Badge List	1	5 days ago	mgoricki		42		Theme	
List	Cards	1	5 days ago	mgoricki		42		Theme	
List	Links List	1	5 days ago	mgoricki	✓	42		Theme	
List	Media List	4	5 days ago	mgoricki		42		Theme	
List	Menu Bar	1	5 days ago	mgoricki		42		Theme	
List	Menu Popup	1	5 days ago	mgoricki		42		Theme	
List	Navigation Bar	1	5 days ago	mgoricki		42		Theme	
List	Side Navigation Menu	1	5 days ago	mgoricki		42		Theme	
List	Tabs	1	5 days ago	mgoricki		42		Theme	
List	Top Navigation Items	1	5 days ago	mgoricki		42		Theme	
List	Top Navigation Tabs	1	5 days ago	mgoricki		42		Theme	
List	Wizard Progress	1	5 days ago	mgoricki		42		Theme	

Kreiranje novih predložaka

The screenshot shows the Oracle APEX application interface. The title bar reads "ORACLE APEX". The top navigation bar includes links for "Apex Builder", "SQL Workshop", "Team Development", "Apex Gallery", and "Logout". Below the navigation bar, the breadcrumb path is "Application 124 | Shared Components | Templates". A success message "Button Template Copied." is displayed. The main content area is titled "Templates" and contains a table with columns: Type, Name, Refreshes, Updated, Updated By, Default, Theme, Copy, and Subscribed From. The table lists various template types such as Breadcrumb, Button, Icon, Text, Text with icon, Label, Hides, Optional, Required, Calendar, BadgeList, Cards, Links list, Media List, Menu Bar, Menu Popup, NavigationBar, Side Navigation Menu, Tabs, and Top Navigation Menu. The row for "Button" is highlighted with a red border. On the right side of the screen, there is a sidebar with sections like "Tasks", "Replace templates in this application with templates from another application.", "View page template region position utilization", "Theme Reports", "Replace Templates", and "Unsubscribe Templates".

Type	Name	Refreshes	Updated	Updated By	Default	Theme	Copy	Subscribed From
Breadcrumb	Breadcrumb	10	5 days ago	mgoricki	✓	42		Theme
Button	Copy of Text	0	1 second ago	mgoricki		42		
Button	Icon	8	5 days ago	mgoricki		42		Theme
Button	Text	38	5 days ago	mgoricki	✓	42		Theme
Button	Text with icon	1	5 days ago	mgoricki		42		Theme
Label	Hides	4	5 days ago	mgoricki		42		Theme
Label	Optional	0	9 days ago	mgoricki		42		Theme
Label	Optional - Above	3	5 days ago	mgoricki		42		Theme
Label	Optional - Floating	14	5 days ago	mgoricki	✓	42		Theme
Label	Required	0	6 days ago	mgoricki		42		Theme
Label	Required - Above	0	5 days ago	mgoricki		42		Theme
Label	Required - Floating	0	6 days ago	mgoricki		42		Theme
Legacy Calendar	Calendar	1	5 days ago	mgoricki	✓	42		Theme
List	BadgeList	0	5 days ago	mgoricki		42		Theme
List	Cards	3	6 days ago	mgoricki		42		Theme
List	Links list	1	5 days ago	mgoricki	✓	42		Theme
List	Media List	4	5 days ago	mgoricki		42		Theme
List	Menu Bar	0	5 days ago	mgoricki		42		Theme
List	Menu Popup	0	5 days ago	mgoricki		42		Theme
List	NavigationBar	0	6 days ago	mgoricki		42		Theme
List	Side Navigation Menu	0	5 days ago	mgoricki		42		Theme
List	Tabs	0	5 days ago	mgoricki		42		Theme
List	Top Navigation Menu	0	6 days ago	mgoricki		42		Theme

DO

- ✓ korištenje UT
- ✓ Theme Options & Theme Roller
- ✓ prilagodba UT + APEX Nitro



Don't

- inline CSS/JS
- unsubscribe UT-a
- izrada nove teme (from scratch)



Pitanja?

Hvala!