



# Themes and Styling

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# Topics

- OutSystems Themes
  - Theme definition
- Style Sheets
  - Editing CSS
  - Style Sheet Precedence
  - Applying Styles
- Layouts
  - Theme Web Blocks
  - Layout Block
  - Menu Block

# OutSystems Themes

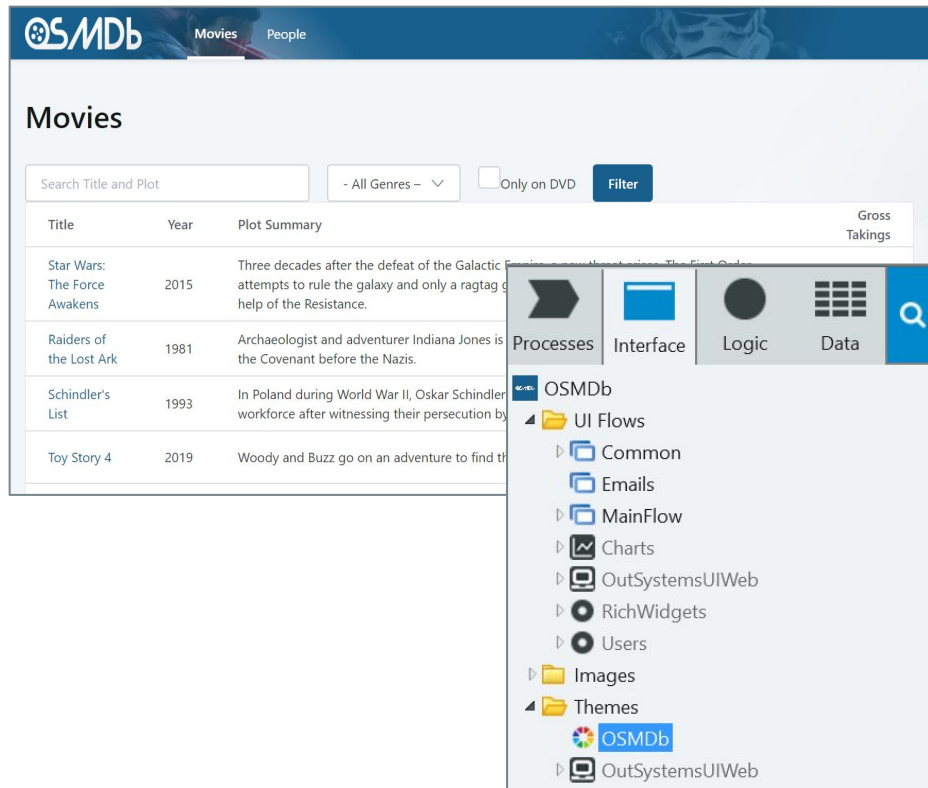
Define the look and feel of your application Screens

Themes can be applied to:

- Modules
- UI Flows

Each module has a default Theme

- New screens are created based on that theme by default



# What is a Theme?

A Theme defines the common styling properties for UI elements

- Base Theme
- Style sheet
  - Styles can override Base Theme styles
- Grid Type: Fixed, Fluid or None
- Common building blocks (web blocks)

A Theme can be defined in any module (including *Blank* modules)

- Can be shared between modules
- Modules can have multiple themes for different UI Flows

OSMDb Theme	
Name	OSMDb
Description	...
Public	Yes ▾
Mobile	No ▾
Base Theme	BaseTheme ▾
Style Sheet	/* =====: ...
OnException Handler	
Grid	
Grid Type	Fluid ▾
Columns	12
Gutter Width	30
Min. Width	
Max. Width	1280
Web Blocks	
Layout	Common\Layout ▾
Info Balloon	(None) ▾
Pop-up Editor	Layouts\LayoutPopup ▾
Email	(None) ▾
Header	▾
Menu	Common\Menu ▾
Footer	▾
Images	
True Image	▾
False Image	▾
Info Balloon Image	▾

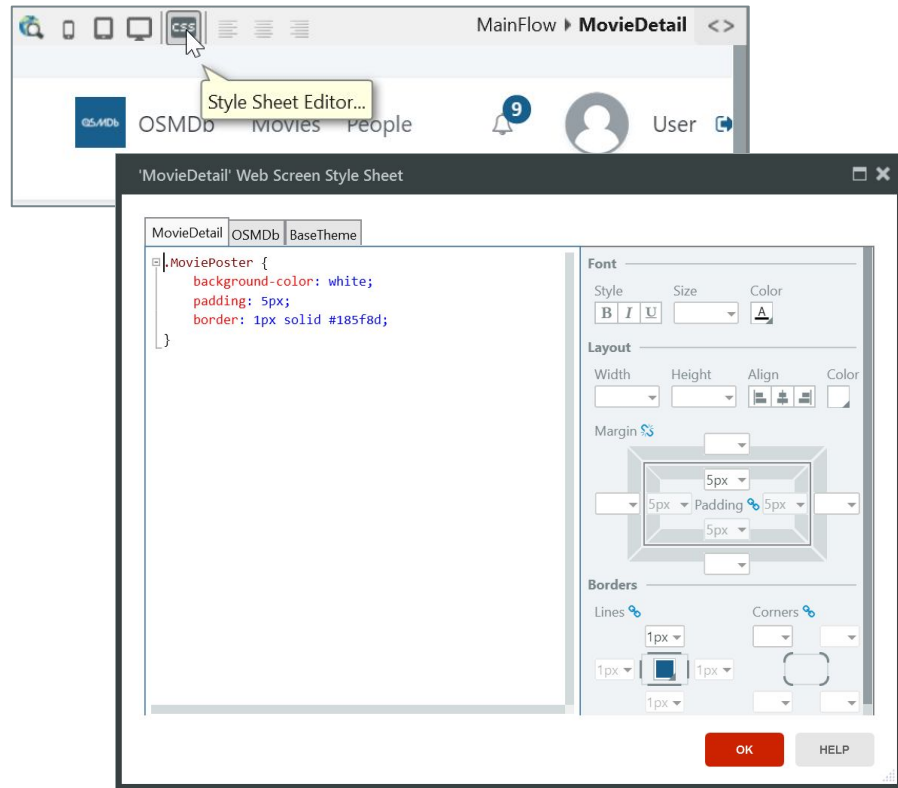
# Style Sheets in OutSystems

Style sheets define CSS Style Classes for various types of visual elements and are attached to specific elements, such as:

- Themes
- Web Screens and Emails
- Web Blocks

The Style Sheet Editor in Service Studio provides:

- Syntax highlight
- Auto-complete
- Visual styles editor



# Editing CSS

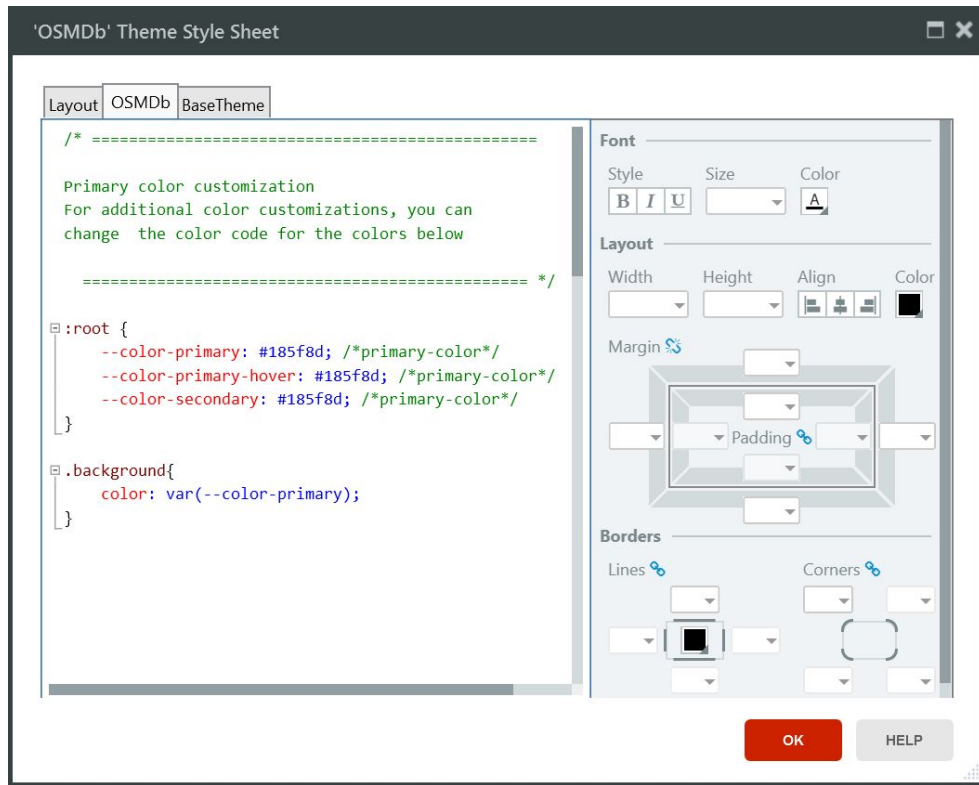
Possible to edit existing CSS Classes

- Except for the Base Theme

Changes are immediately visible in Service Studio

CSS Variables can be used to accelerate customization

- Define a variable and its value
- Use the variable
- Replacing the value affects all usages of the variable



# Style Sheet Precedence

- Style Sheets are loaded in the following order in Screens
- Style Classes can be overridden

## 1. Web Blocks

CSSWebBlock Web Block	
Name	CSSWebBlock
Description	...
Public	No
Icon	Default Icon
Advanced	
Cache in Minutes	
Style Sheet	.TestClass { background-color: green; } ...
JavaScript	...

## 2. Theme

CSSLoadOrder Theme	
Name	CSSLoadOrder
Description	...
Public	Yes
Mobile	No
Base Theme	BaseTheme
Style Sheet	.TestClass { background-color: yellow; } ...
OnException Handler	

## 3. Screens and Emails

HomeScreen Web Screen	
Name	HomeScreen
Description	...
Public	No
Title	
Roles	
Anonymous	<input checked="" type="checkbox"/>
Registered	<input checked="" type="checkbox"/>
Advanced	
HTTP Security	
Integrated Authenti...	
Cache in Minutes	
Is Frequent Destinat...	No
Style Sheet	.TestClass { background-color: red; } ...
JavaScript	...

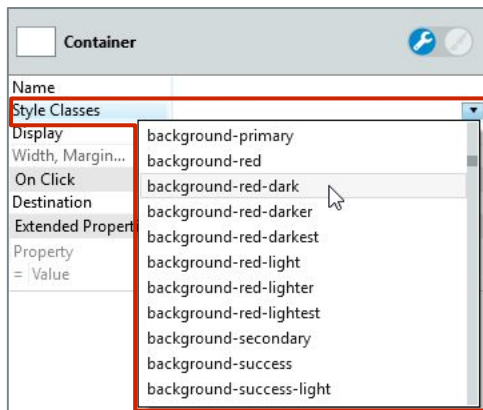
```
.TestClass {  
  background-color: red;  
}  
.TestClass {  
  background-color: yellow;  
}  
.TestClass {  
  background-color: green;  
}
```



# Applying Styles

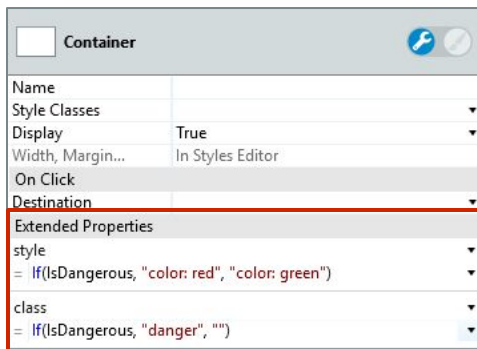
## Styles Property

Select existing style classes



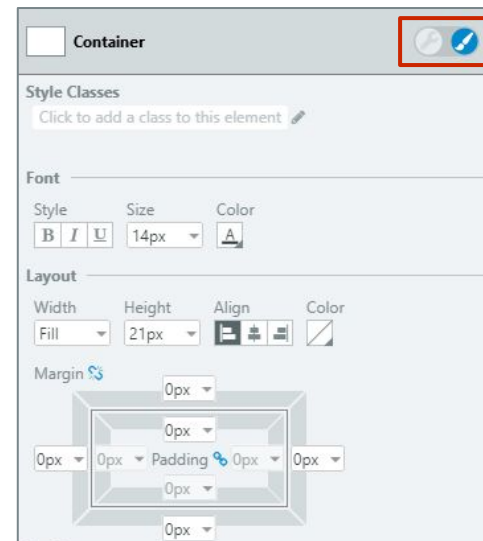
## Extended Properties

Define inline styles or classes based on runtime conditions



## Styles Editor

Visual CSS editor  
Allows promoting to style classes





# Theme Web Blocks

Define common layouts:

- Layout Block for new Screens
- Email Block for new Emails
- Header, Menu and Footer are used to fill Layout placeholders with the same name

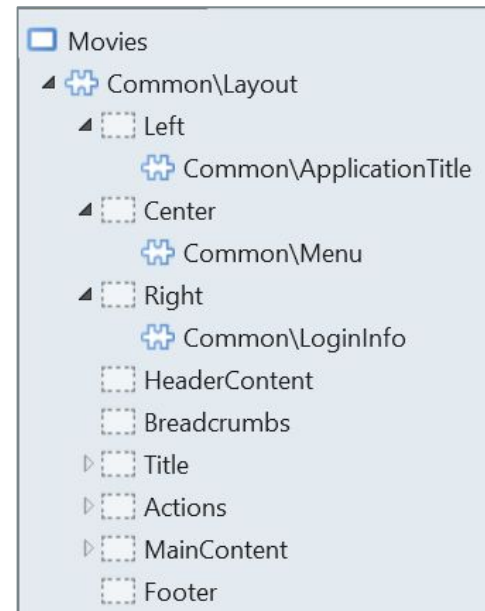
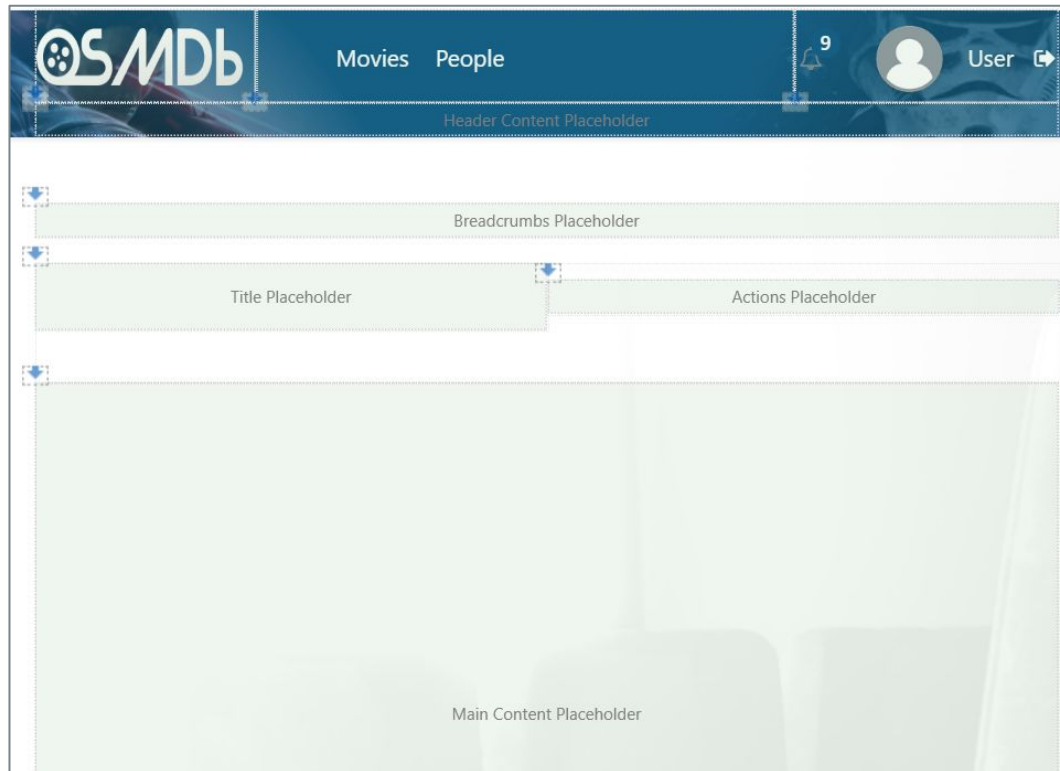
Changing the Theme's Web Block properties only affect new elements

- Screens already created with the previous Layout are not modified

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True Image	
False Image	
Info Balloon Image	

# Layout Web Block for Screens

Layout Block defines the base structure of new Screens that are created



# Menu Block

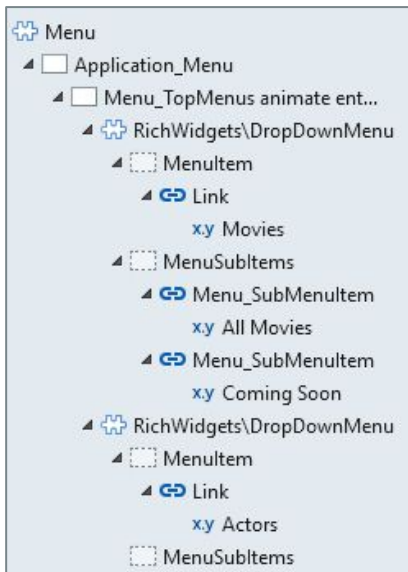
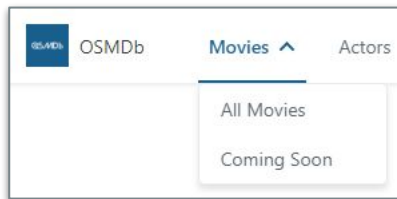
Support for two-levels of menu items

*MenuItem* and *MenuSubItem* Static Entities hold the Caption (or name) of menu items

Drag and drop a Screen to the Menu:

- Adds a record to the Static Entity
- Adds a DropDownMenu to the Menu Block
- Adds the link containing an expression

Input Parameters are used to highlight active menu and submenu options



# Summary

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  - Editing CSS
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A low-angle, long-exposure photograph of a city skyline at night. The image features several tall skyscrapers with illuminated windows. In the foreground, there are bright, horizontal light trails from traffic, suggesting a busy street. The overall atmosphere is dynamic and modern.

**Themes and Styling**  
**Thank You!**