

# **UI5 Web Components**

## **Version 1.0**

Elena Stoyanova, SAP Labs Bulgaria

Ilhan Myumyun, SAP Labs Bulgaria

July 7<sup>th</sup>/8<sup>th</sup>, 2022



# Agenda

UI5 Web Components **Story**

UI5 Web Components **1.0**

UI5 Web Components **Enterprise Qualities**

UI5 Web Components in 



UI5 Web Components **in UI5**

UI5 Web Components **Ecosystem**

UI5 Web Components **Roadmap**

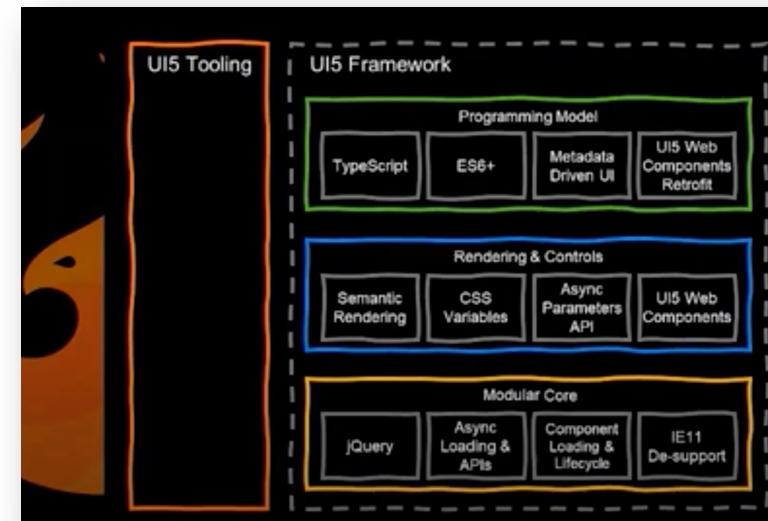
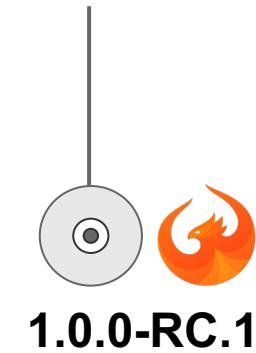
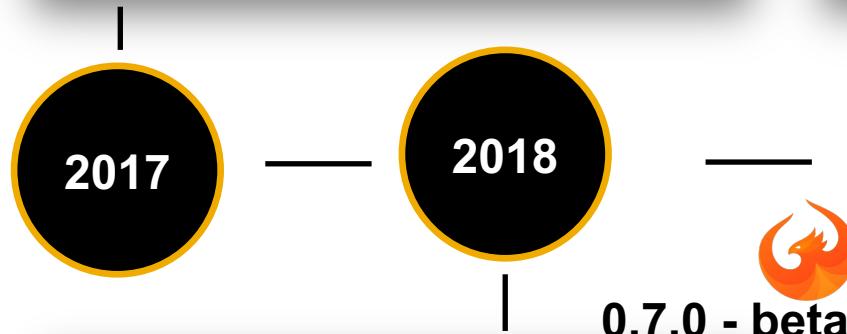
Q & A

# UI5 Web Components Story



UI5con HYBRID

# UI5 Web Components Time machine



HYBRID

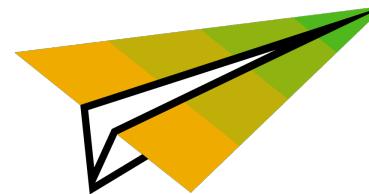
# UI5 Web Components in a Nutshell



Easy to consume



Future-proof



Lightweight



Enterprise Ready

# UI5 Web Components in a Nutshell



```
<h2>UI5 Web Components</h2>  
  
<button>add</ui5-button>  
<input />  
  
<ul>  
  <li>Apples</li>  
  <li>Oranges</li>  
  <li>Bananas</li>  
</ul>
```



```
<ui5-title>UI5 Web Components</ui5-title>  
  
<ui5-button>add</ui5-button>  
<ui5-input></ui5-input>  
  
<ui5-list>  
  <ui5-li>Apples</ui5-li>  
  <ui5-li>Oranges</ui5-li>  
  <ui5-li>Bananas</li>  
</ui5-list>
```

A screenshot of a browser window displaying a UI5 Web Component application. The title bar says "UI5 Web Components". Inside, there is a "Hello" input field containing "Hello", a blue "add" button, and a list of fruits: Apples, Oranges, and Bananas.

```
UI5 Web Components  
  
Hello  
+ add  
Apples  
Oranges  
Bananas
```

A screenshot of a browser window displaying a more complex UI5 Web Component application. The title bar says "UI5 Web Components". It features a "Hello" input field with an "X" button, a " + add" button, and a list of fruits: Apples, Oranges, and Bananas. Each fruit item has a "Available" link next to it. The "Oranges" item is highlighted with a blue border.

```
UI5 Web Components  
Hello  
+ add  
Apples Available >  
Oranges Re-stock >  
Bananas Re-stock >
```

The **1.0** is here!

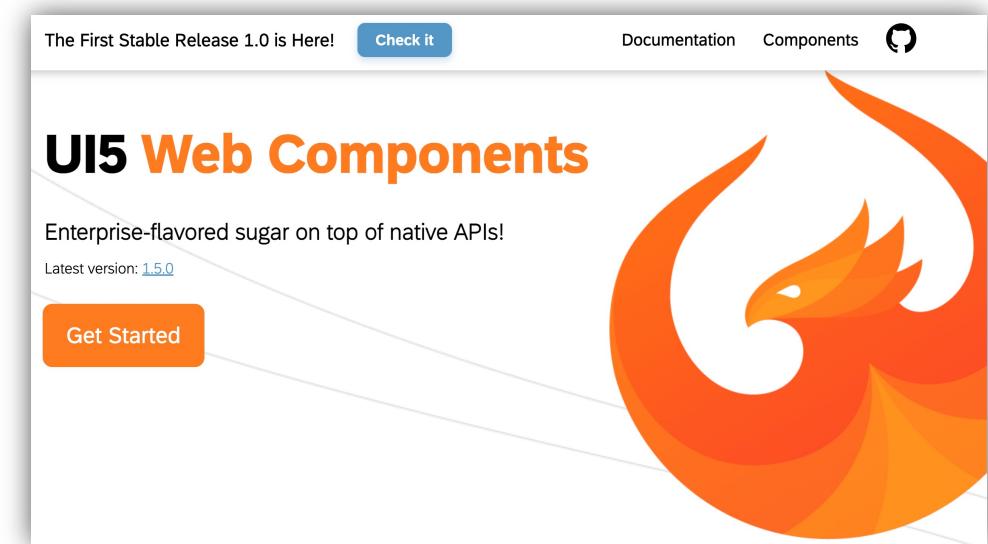
**UI5con HYBRID** 

# UI5 Web Components Stable Release 1.0



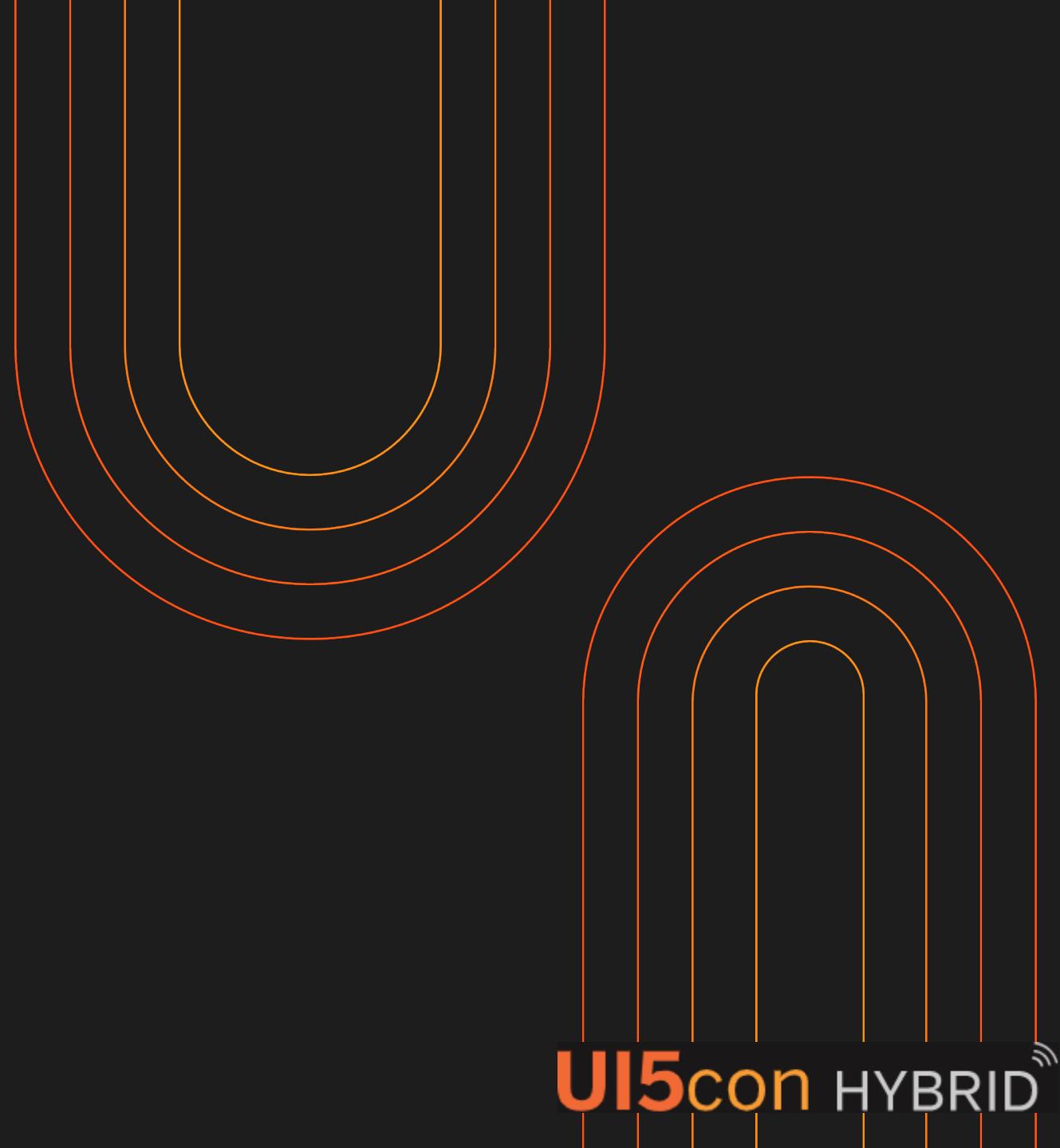
## The Stable 1.0.0 Release

- New components and features
- SAP Fiori evolution: SAP Fiori Horizon theme
- New icons font (SAP Icons 5.0)
- Stable and future-proof APIs
- Accessibility: full fledge compliance and smooth experience
- Enriched documentation and tutorials



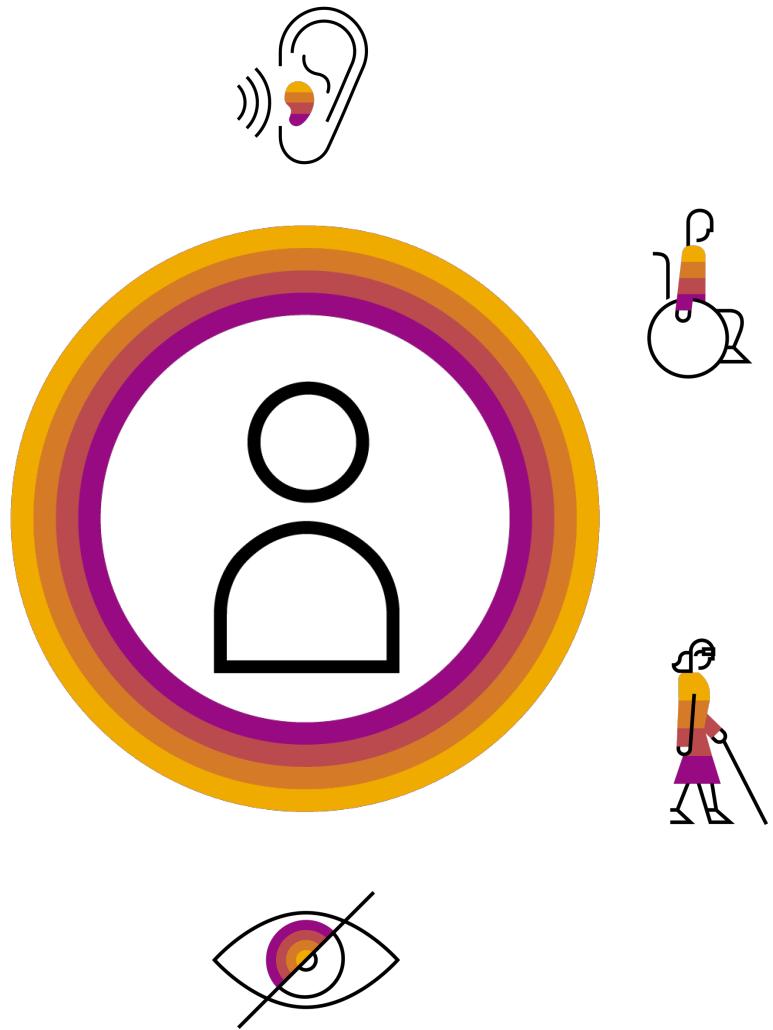
# UI5 Web Components

## Enterprise Qualities

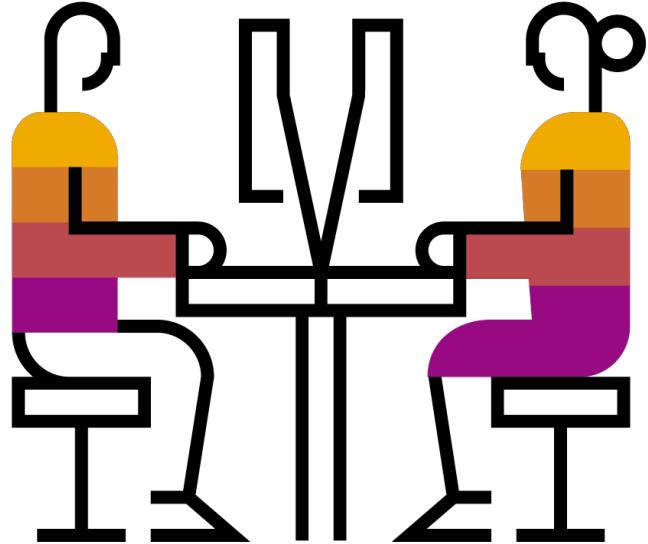


UI5con HYBRID

## Enterprise Qualities: Accessibility

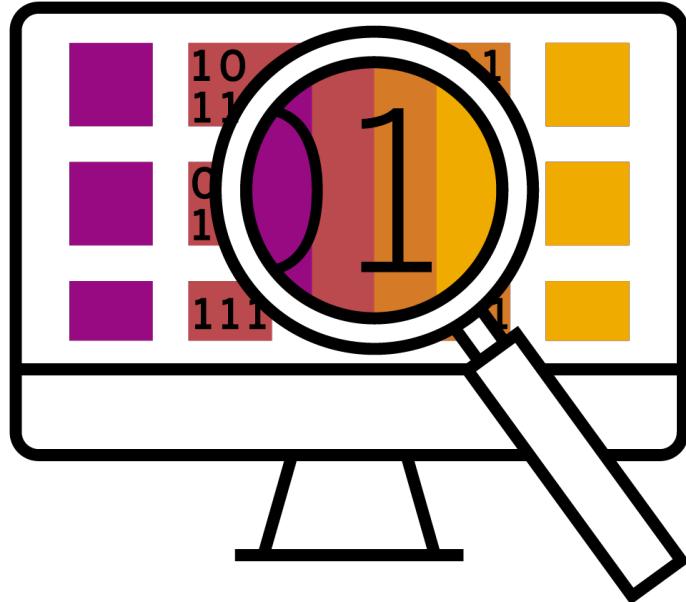


# Accessibility: Keyboard Handling



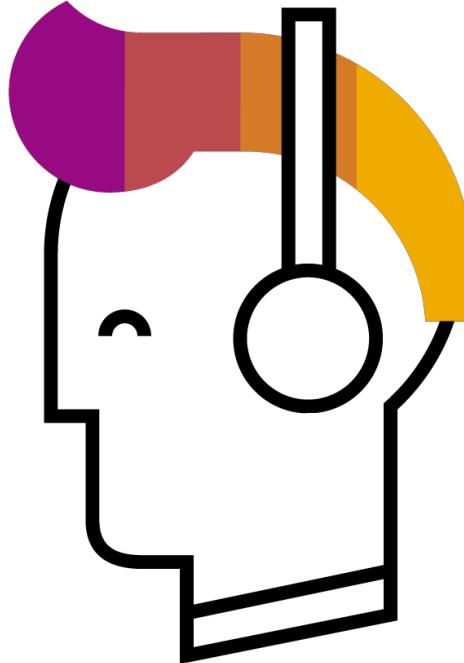
- **Keyboard navigation and interaction**
- **Tab and Reading order**
- **Keyboard focus handling**
- **Fast Navigation (**F6**)**

# Accessibility: Color Contrast

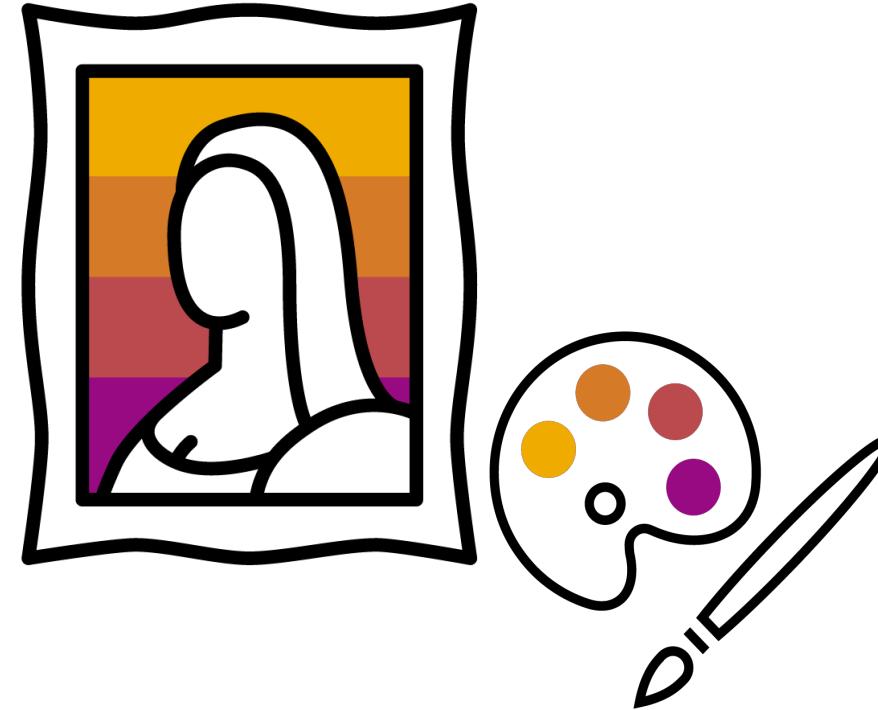


- **Contrast Ratio in standard themes**
- **HCB/HCW themes**

# Accessibility: Screen Reader



# Enterprise Qualities: Theming



# Enterprise Qualities: Globalization

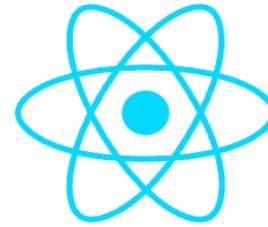


- Internationalization
- Localization
- Right-to-Left

# UI5 Web Components in React, Angular, Vue, Svelte...

UI5con HYBRID

# UI5 Web Components in React, Angular, Vue, Svelte...



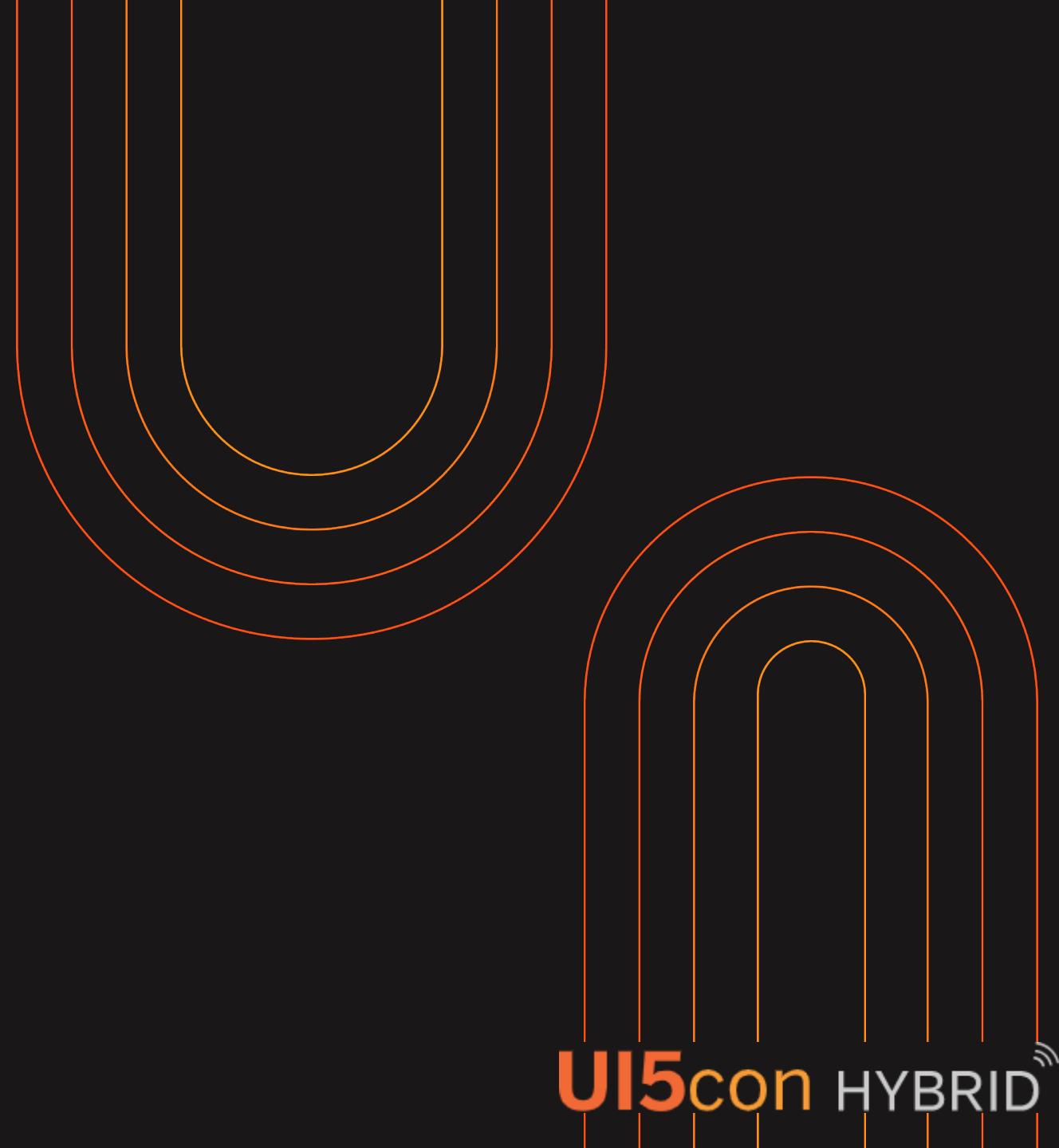
**UI5con HYBRID**



# UI5 Web Components in production

The screenshot displays the SAP Fiori Home page, featuring a banner with the text "Good morning!" over a background image of a canal town. The page includes a "Quick Actions" bar with nine items: Request Time Off (red), View Pay Statement (pink), Record Time (light blue), Request Feedback (purple), View Activities (teal), Manage Goals (light purple), My Learning (dark purple), Give Spot Award (grey), and Saved For Later (red). Below this is a callout for the "Q3 Pulse Survey" with a "Start Survey" button. The "For You Today" section contains five cards: "Goals" (Performance Goals: Increase sales revenue by 10% Due Today), "Onboarding" (Status: Your onboarding process is on track, Sep 28, 2020), "Activities" (Updated on Sep 29, 2020: Q3 Marketing Proposal by Michael Pittman), "Job Applications" (Status as of Sep 29, 2020: QS\_SH0526008 FOR Internal for testing), and "Organization Updates" (New Parental Leave Policy: Click here to review the updates). A search bar at the top right says "Search for actions or pea...".

# UI5 Web Components in UI5



UI5con HYBRID

# UI5 Web Components **in** UI5



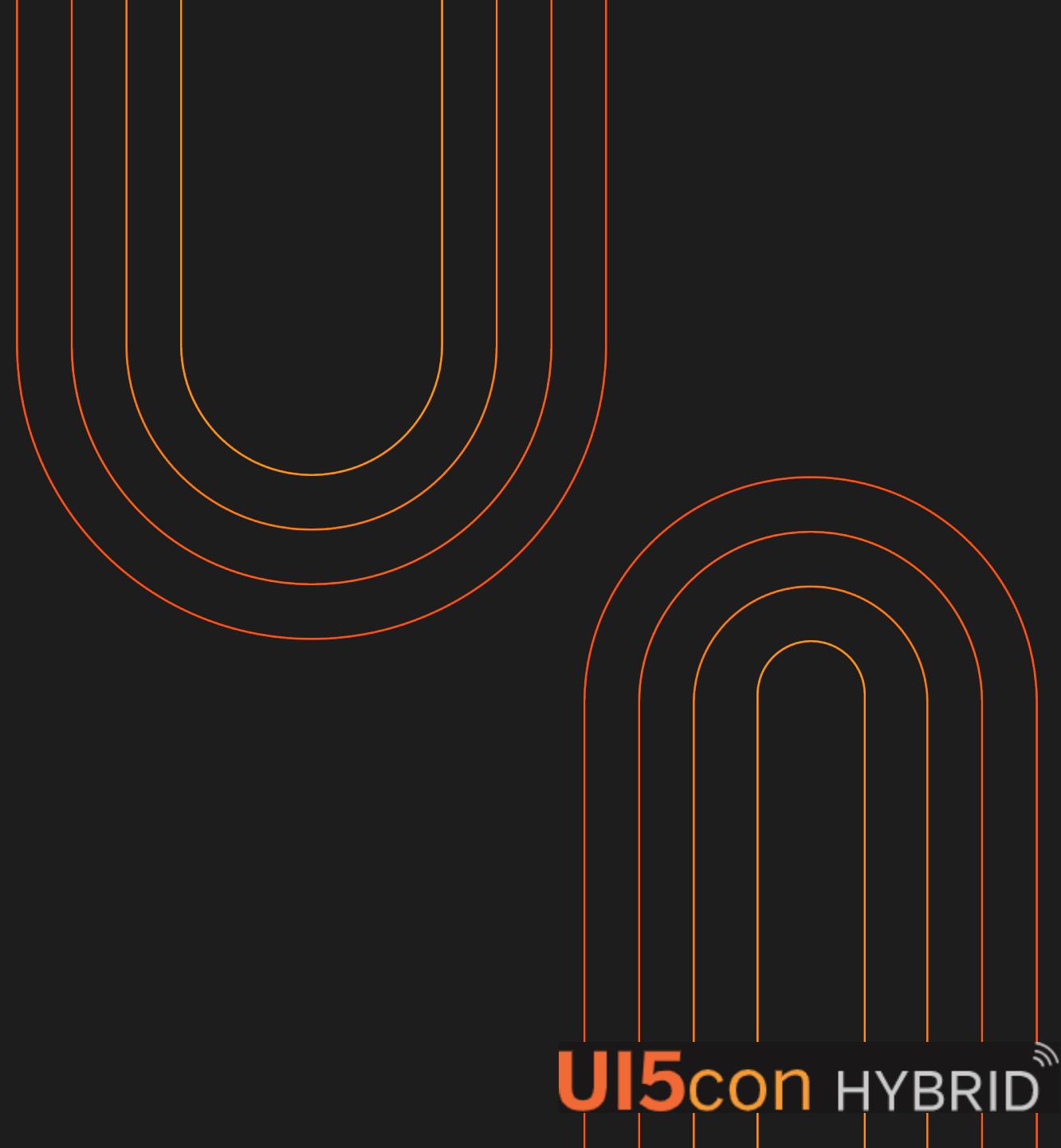
**UI5con HYBRID**

# UI5 Web Components in UI5



The screenshot shows the UI5 Web Components Samples page. The left sidebar lists various components under 'Web Components' with their counts: Avatar (1), Avatar Group (2), Badge (1), Barcode Scanner Dialog (1), Breadcrumbs (1), BusyIndicator (1), Button (1), Card (1), Carousel (1), Check Box (4), ComboBox (1), Dialog (1), Dynamic Side Content (1), Flexible Column Layout (1), Icon (2), Illustrated Message (1), Input (1), Label (1), Link (1), List (6), Media Gallery (1), Message Strip (1), Multi ComboBox (1), and Multi Input (1). The main content area shows a 'Fixed Panel with Message Strip' containing a message box with sample text. Below it are sections for 'Expanded Panel with List' (with items First Item, Second Item, Third Item) and 'Collapsed Panel with Inputs' and 'Collapsed Panel with custom header'.

# UI5 Web Components Ecosystem



**UI5con HYBRID** with SAP

# Ecosystem: UI5 Web Components for React



- React wrapper of UI5 Web Components
- Extended component set + layouts + charts
- Ease the usage of Custom Elements in React



**UI5 Web Components  
for React**

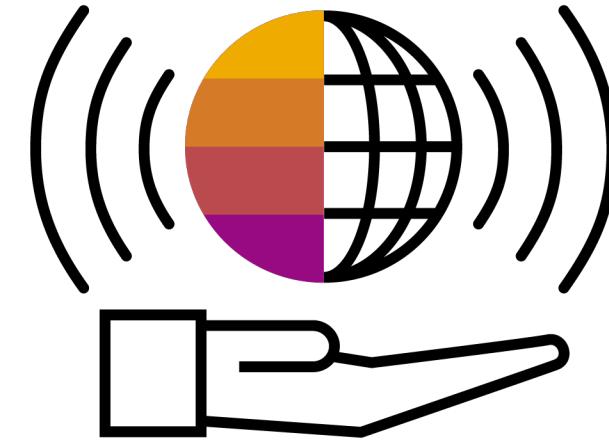
**UI5con HYBRID**



# Ecosystem: Custom Web Component Development

@ui5/webcomponents-tooling

- Build + Test Infrastructure
- Create New Component quickly



# Ecosystem: Custom Web Component <ui5-tab-shellbar>

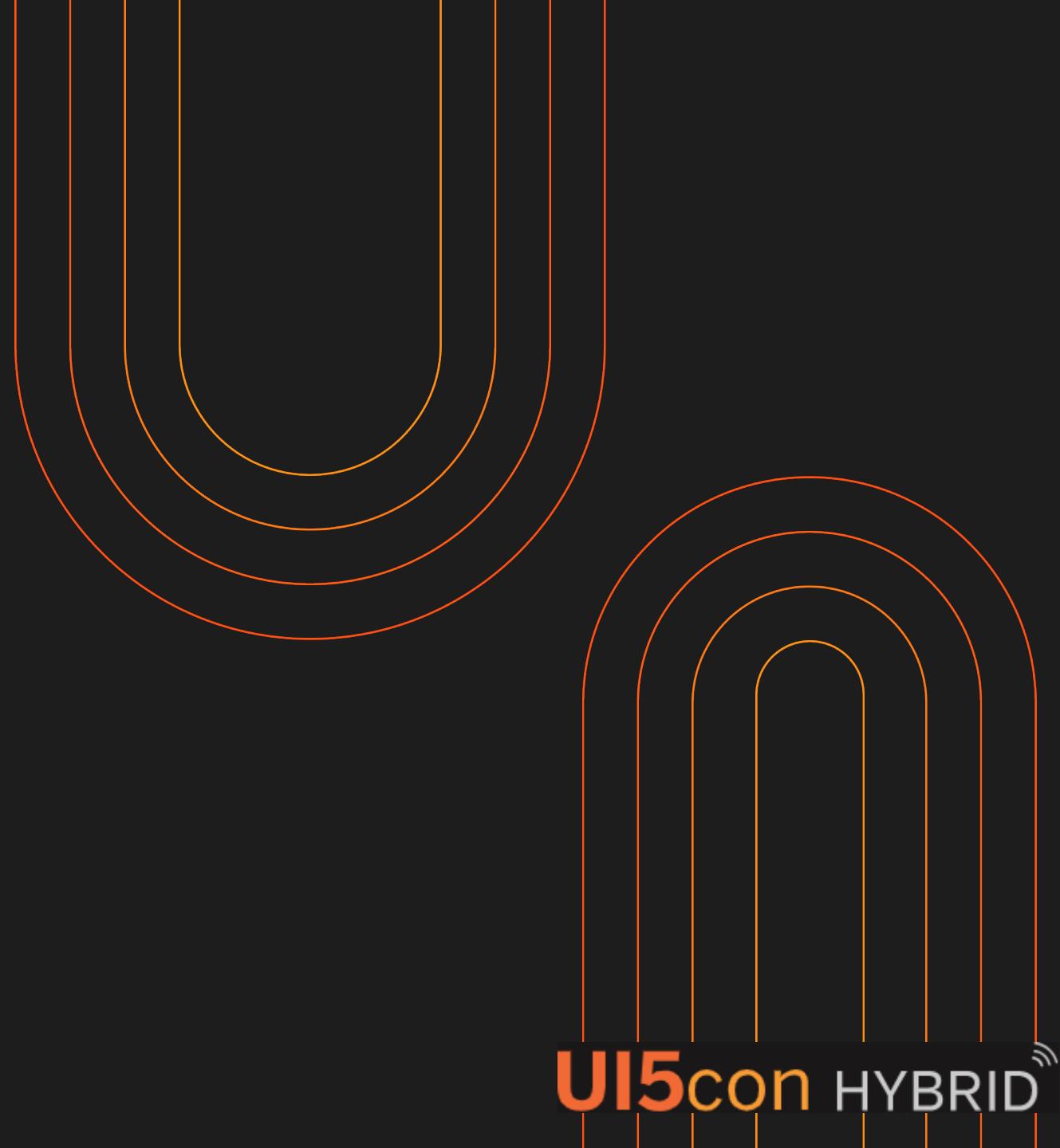


The screenshot shows the SAP Application Development lobby interface. At the top, there's a navigation bar with the SAP logo, 'Application Development' text, and tabs for 'Lobby', 'Store', 'Monitor', and 'Settings'. On the far right of the top bar are download and MI icons. Below the top bar is a 'Quick Start' section with four cards: 'Create a Process' (illustrated with a gear and clock), 'Create a Form' (illustrated with a document and pen), 'Create an Automation' (illustrated with a robot head), and 'Create a sample Capital Expenditure application' (illustrated with a smartphone and building). To the right of the fourth card is a blue circular arrow icon. Below this section is a search bar with the placeholder 'Search by Project name & description' and a 'Create' button. A small upward arrow icon is positioned between the 'Create' button and the project list. The main area displays a table titled 'All Projects (56)'. The table has columns for 'Name', 'Versions', 'Type', 'Last Accessed', and 'Collaborators'. Three projects are listed:

Name	Versions	Type	Last Accessed	Collaborators
<b>SAP SuccessFactors SDK</b> The SuccessFactors SDK package is a collection of activities allowing you to easily automate SAP SuccessFactors.	5 Available Latest: 1.25.57	Business Process	Jun 22, 7:59 am	Everyone
<b>SAPUI5 SDK</b> The SAPUI5 SDK package is a collection of activities allowing you to create automations using SAPUI5.	4 Available Latest: 1.25.57	Business Process	Jun 22, 7:44 am	Everyone
<b>Outlook Best Practices (mail)</b>	1 Available	Business Process	Jun 21, 8:04 am	Everyone

# UI5 Web Components

## Roadmap



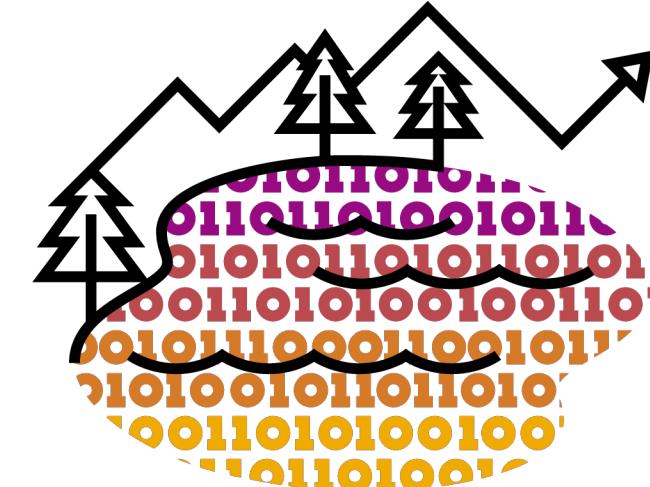
**UI5con HYBRID** Wireless icon

# UI5 Web Components Roadmap



## Our Future Plans Include

- New components and features (Menu Button, Advanced Table Web Component)
- Typescript support
- Custom Elements manifest
- Continue evolve with SAP Fiori
- Strengthening the UI5 Web Components usage in SAPUI5
- Have fun! :)



# Q & A

# Resources

- Playground

<https://sap.github.io/ui5-webcomponents/>

- GitHub

<https://github.com/SAP/ui5-webcomponents/>

- Reference apps

<https://ilhan007.github.io/ui5con-app/>

<https://sap-samples.github.io/ui5-webcomponents-sample-react/>

<https://sap-samples.github.io/ui5-webcomponents-sample-angular/>

<https://sap-samples.github.io/ui5-webcomponents-sample-vue/>

<https://sap-samples.github.io/ui5-webcomponents-sample-svelte/>

- NPM

<https://www.npmjs.com/package/@ui5/webcomponents>

# Thank you!

**Elena Stoyanova**

SAP Developer

@stoyanova\_elly

**Ilhan Myumyun**

SAP Developer

@ilhanorhan007

