

ESRI DEVELOPER SUMMIT 2023

ArcGIS Experience Builder for Developers

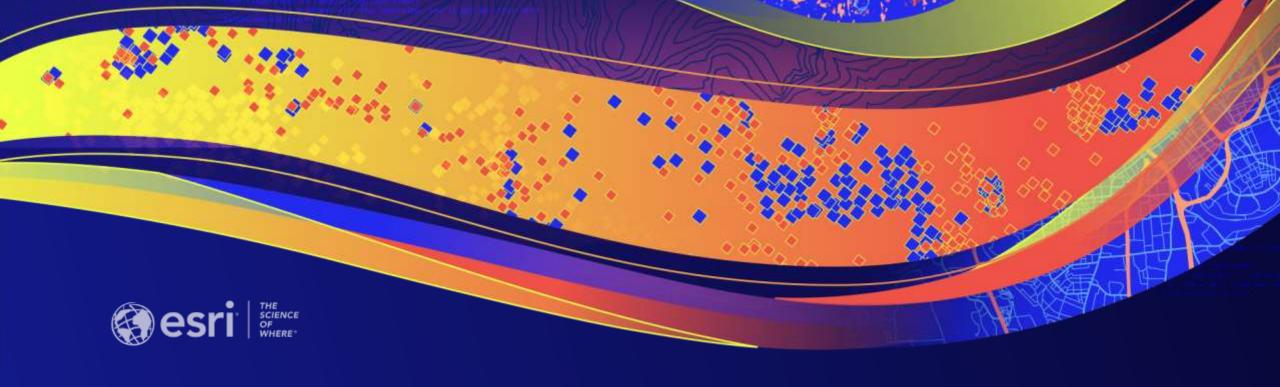
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Slides: https://esriurl.com/exb-presummit-2023

Workshop Agenda

Day 2

- Morning
 - Introduction to custom widgets in ArcGIS Experience Builder
 - Localization
 - Break 10 minutes
 - TypeScript
 - Build a basic widget
- Lunch 60 minutes
- Afternoon
 - Data Sources
 - Themes and widget styling
 - Break 10 minutes
 - Extending out-of-the-box widgets
 - Deployment
 - Q&A and Wrap-up



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Intro to Custom Widgets

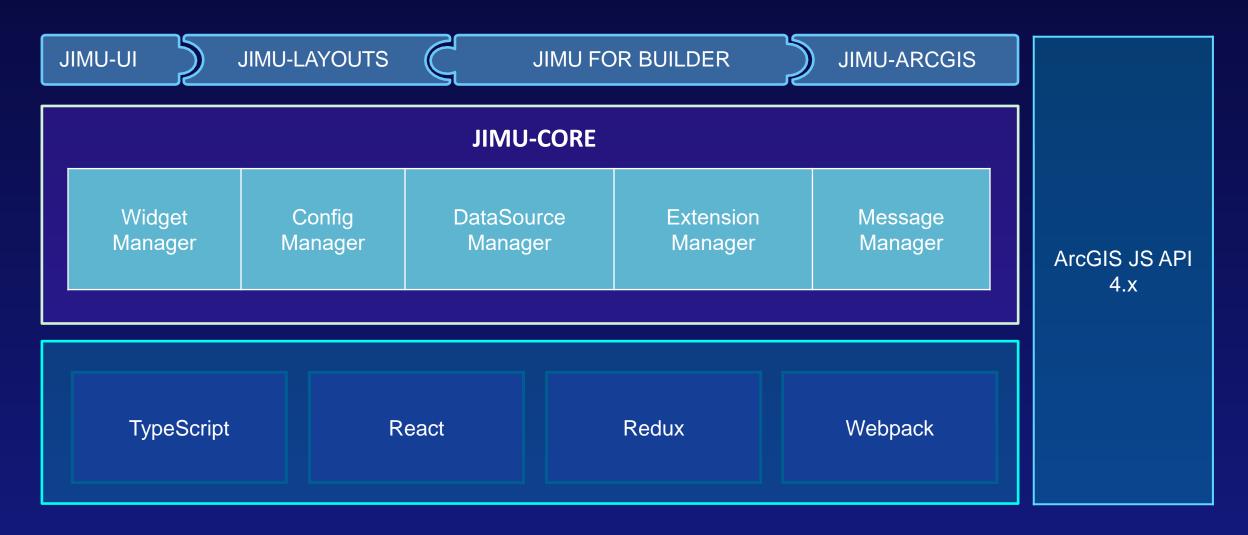
Agenda

- Custom widget development background
- Set up development environment
- Create your first custom widget

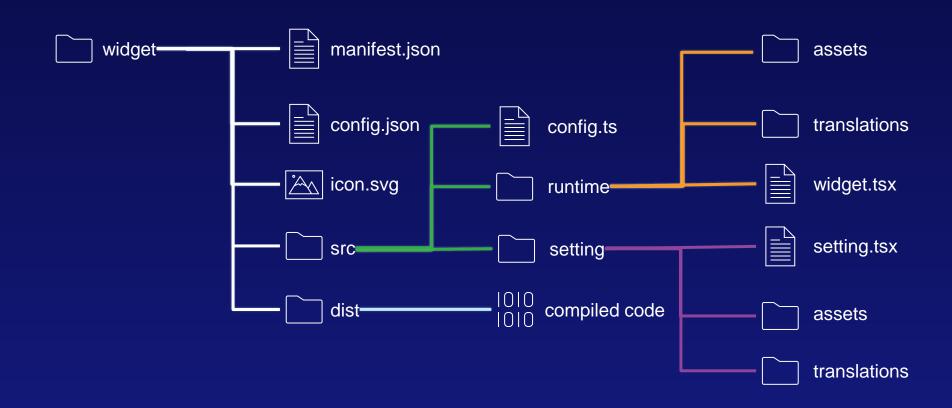
Technologies

- HTML, CSS, JavaScript
- React/JSX
- TypeScript
- ArcGIS API for JavaScript
- Jimu library

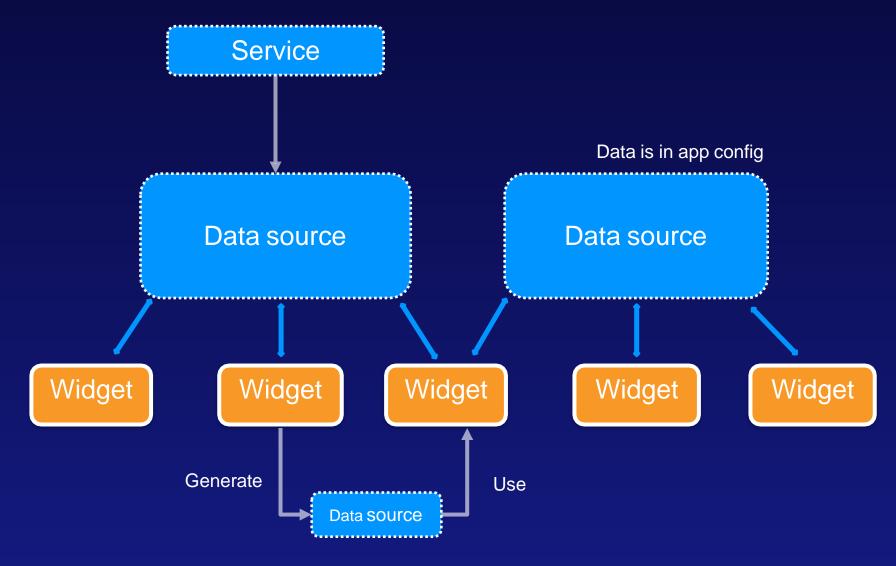
Technology stack



Widget Structure



Data sources



Development Environment

Get it set up



Goals

- Development Environment
- ✓ Use a sample widget to get started fresh
- Modify that widget

Steps to set up your development environment

- 1. Install Prerequisites (NodeJS)
- 2. Download Experience Builder Developer Edition
- 3. Unzip the files
- 4. Command line in / server directory:
 - 1. npm ci
 - 2. npm start
- 5. Copy sample widget *
- 6. Command line in /client directory:
 - 1. npm ci
 - 2. npm start

Code Editor

- Download: code.visualstudio.com
- Open the /client folder as a project (drag-drop)

Add widget to development application

- Open Experience Builder
- Add your widget
- Save and Publish

Activity

45 Minutes

- Review the "Getting Started" documentation:
 https://developers.arcgis.com/experience-builder/guide/getting-started-widget/
- Set up your text editor (VS Code or similar)
- Duplicate the Simple widget and add it to an Experience
- Open the "client/" folder in your IDE, make a small code change to make sure your dev environment is working
- Bonus:
 - Update the "defaultSize" property of the manifest.json and see how that affects your widget
 - Update the icon of your widget.

