



ArcGIS Experience Builder: Building Integrated Web Applications

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2021 ESRI FEDERAL GIS CONFERENCE

What is ArcGIS Experience Builder?

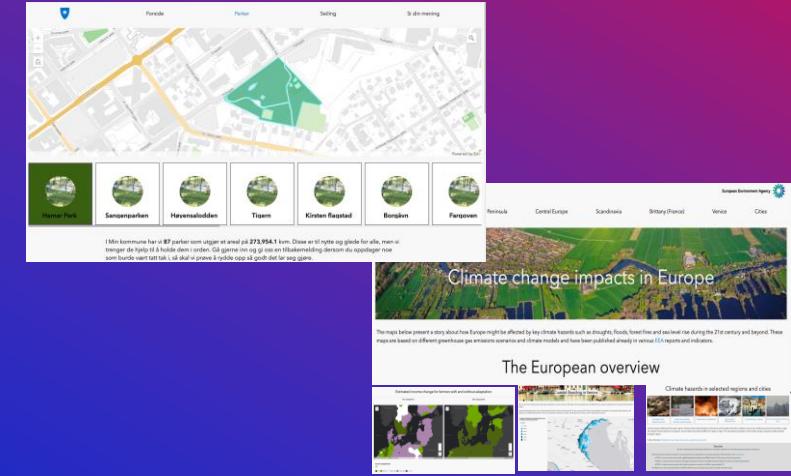
ArcGIS Experience Builder empowers you to quickly transform your data into compelling web apps and pages without coding.

- Get started with templates and widgets, with customizable layout and design.
- Build your own templates with widgets.
- Extensibility



ArcGIS Experience Builder Key Features

- Create **flexible** web apps and pages easily
- **Integrate** 2D and 3D content into one app
- Build apps with **mobile-adaptive** design
- Configure out-of-the-box templates and widgets
- Customize widgets and templates to your needs





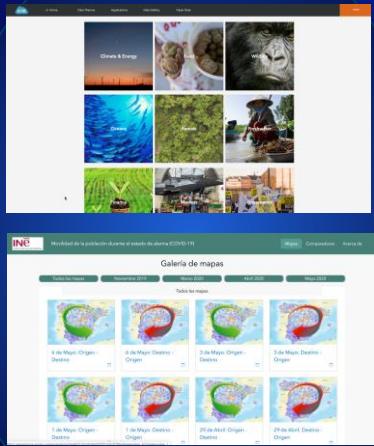
3D



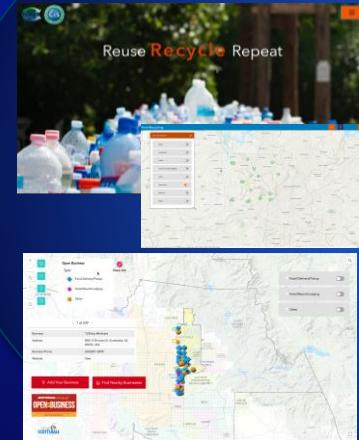
Web pages



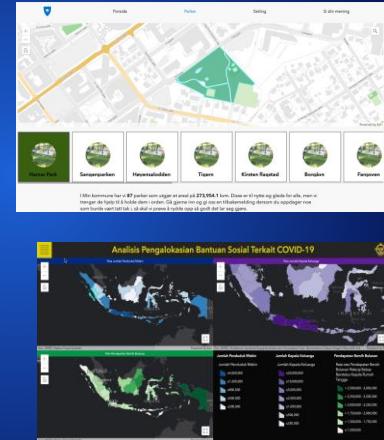
Mobile



Gallery



Map-centric apps



Portal



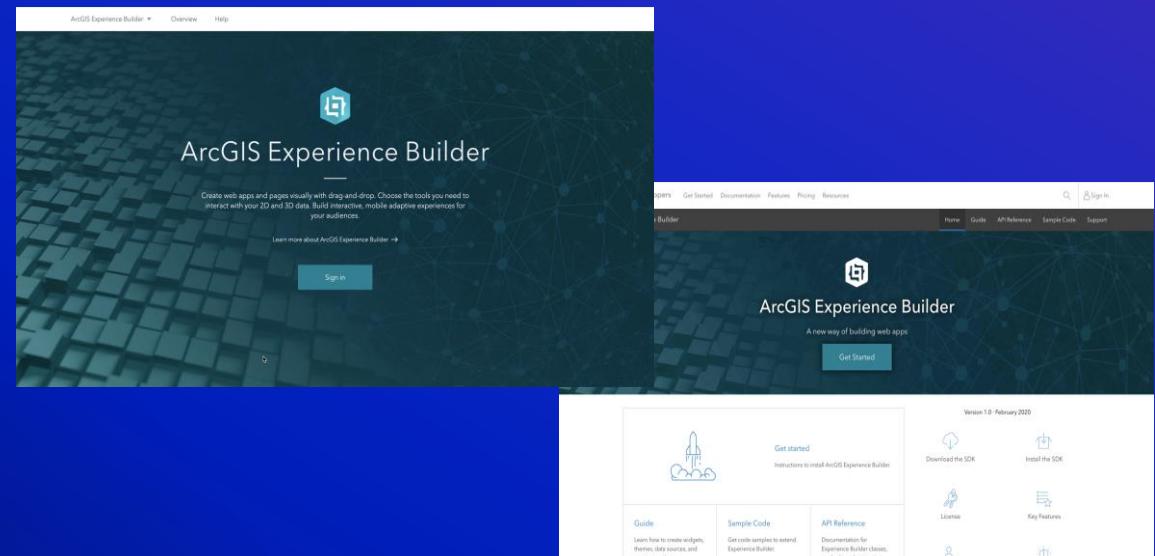
Survey

ArcGIS Experience Builder Editions

- **ArcGIS Online and Enterprise**
 - URL: experience.arcgis.com
 - ArcGIS Enterprise 10.8.1 and up



- **Developer Edition**
 - Download and install locally
 - Sign in to ArcGIS Online / Enterprise



ArcGIS Experience Builder Licensing



- As part of the Essential Apps Bundle
 - Must have a Creator or GIS Professional user type to create experiences
- Through an ArcGIS Developer subscription
 - Allows developers that are not part of an ArcGIS organization to access and use Experience Builder Developer Edition

Building Blocks

An Experience

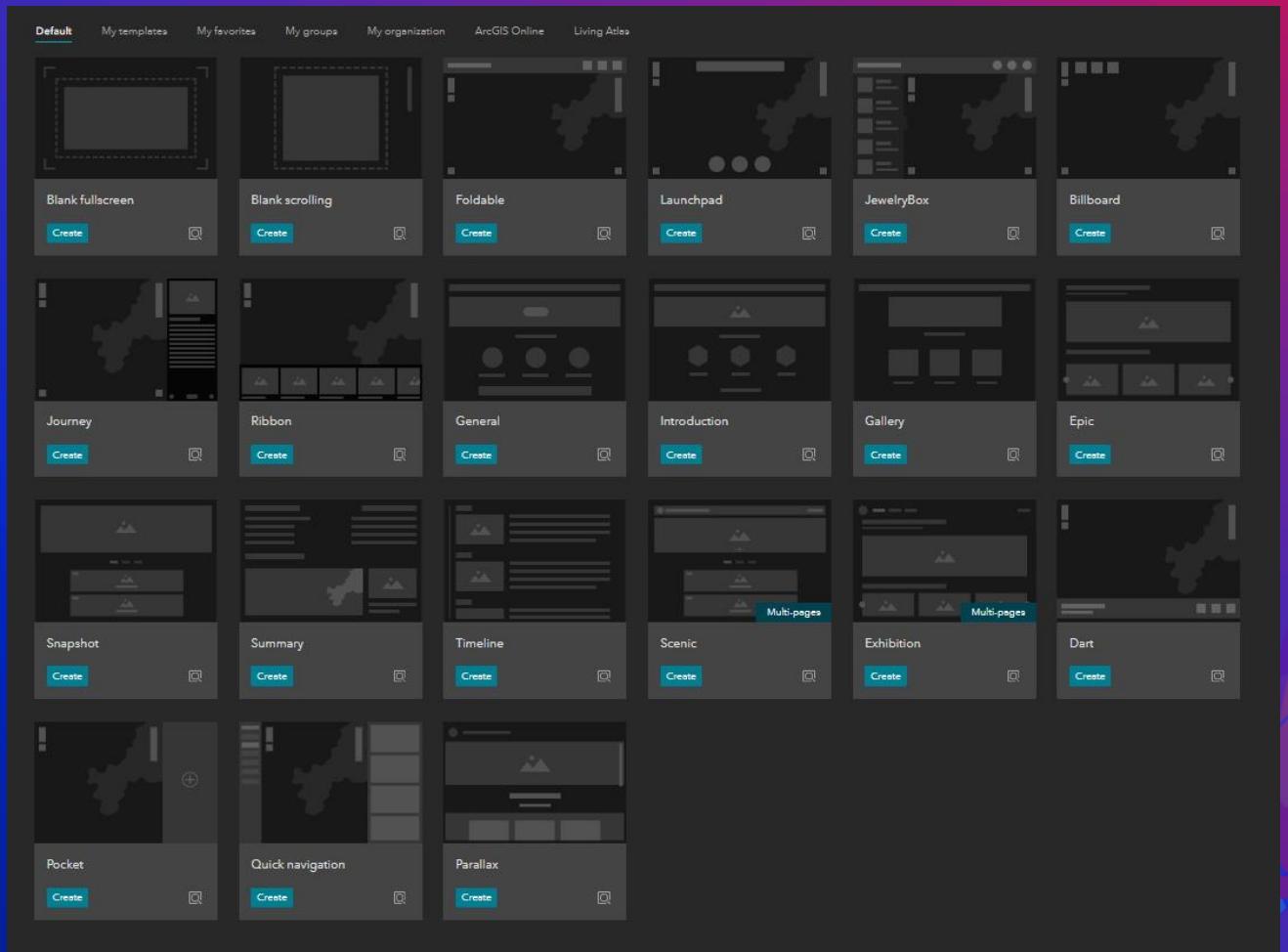
Design/
config

GUI builder



Templates

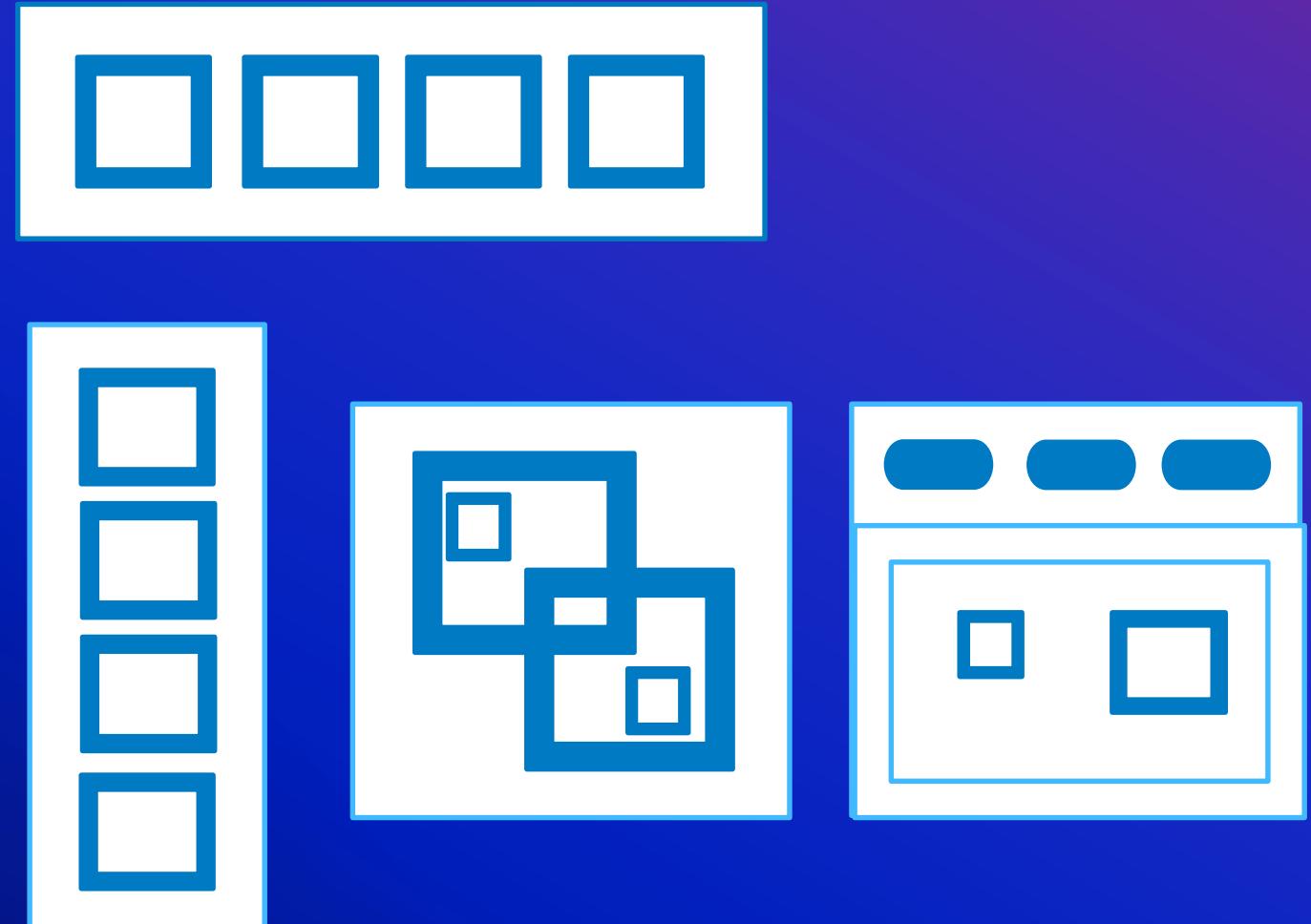
- **Full Screen (map-centric)**
 - **Launchpad**
 - **Billboard**
 - **Dart**
- **Scrolling Page**
 - **General**
 - **Timeline**
 - **Parallax**
- **Multi-page**
 - **Scenic**
 - **Exhibition**
- **Blank**



Widgets

Layout widgets:

- **Row**
- **Column**
- **Fixed Panel**
- **Placeholder**
- **Sidebar**
- **Section**
- **View Navigation**



Widgets

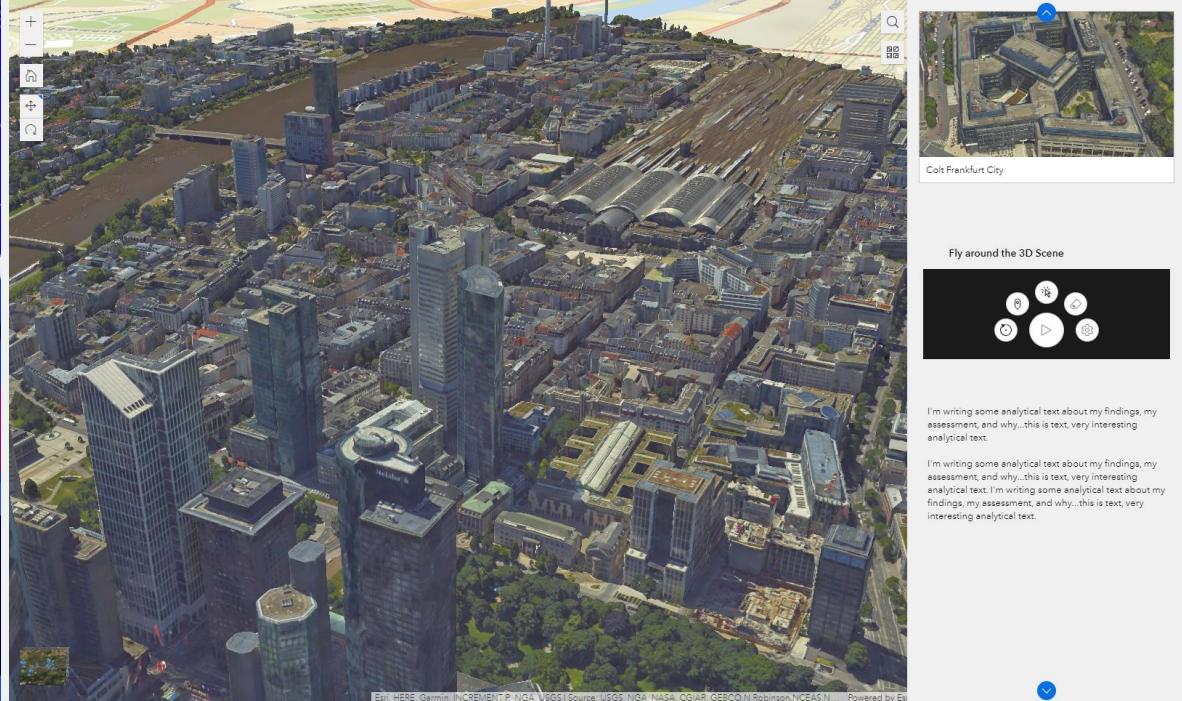
Basic widgets:

- [Map](#)
- [List](#)
- [Card](#) New
- [Filter](#)
- [Feature Info](#)
- [Fly Controller](#)
- [Legend](#)
- [Map Layers](#)
- [Bookmark](#) New
- [Share](#)
- [Survey](#)
- [Widget Controller](#)
- [Button](#)
- [Text](#)
- [Image](#)
- [Embed](#)
- [Menu](#)
- [Divider](#) New
- [Table \(beta\)](#) New

Content	Style	Action
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Creating an interactive briefing from a template

Hannah Shumway



Theme

- Define a set of color and font
- Options to customize
 - Color
 - Font style 
 - Font size 

Default

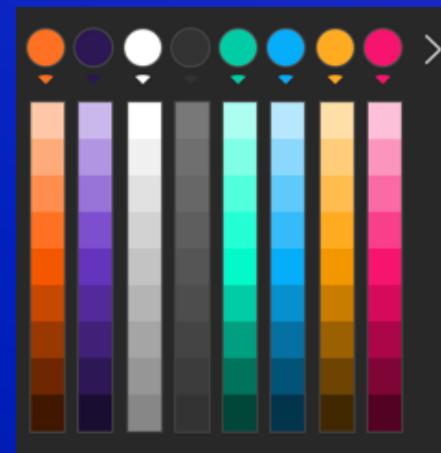
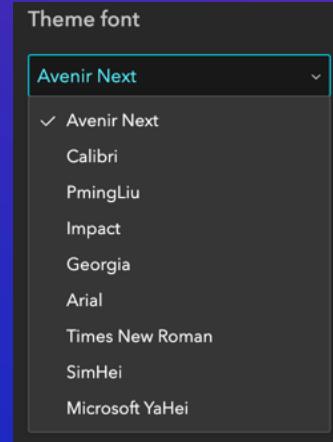
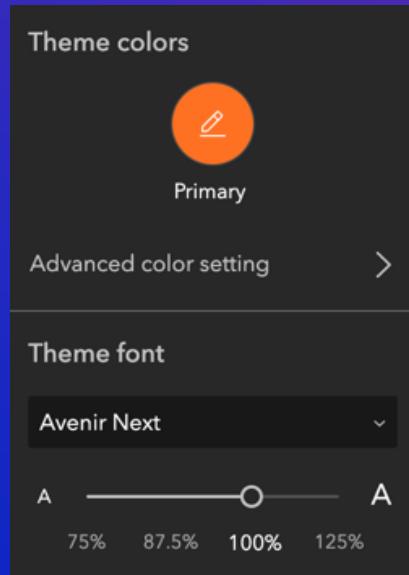
Dark

Vivid

Ink

Mysterious

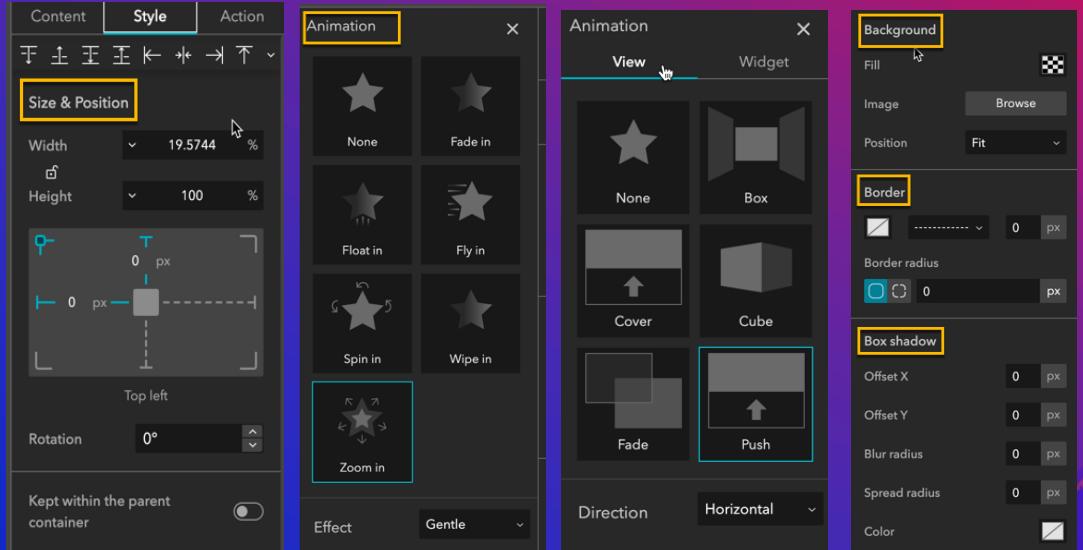
Shared



Style

- **Size and Position**

- Width, Height, Rotation New, Kept within the parent container New



- **Animation** New

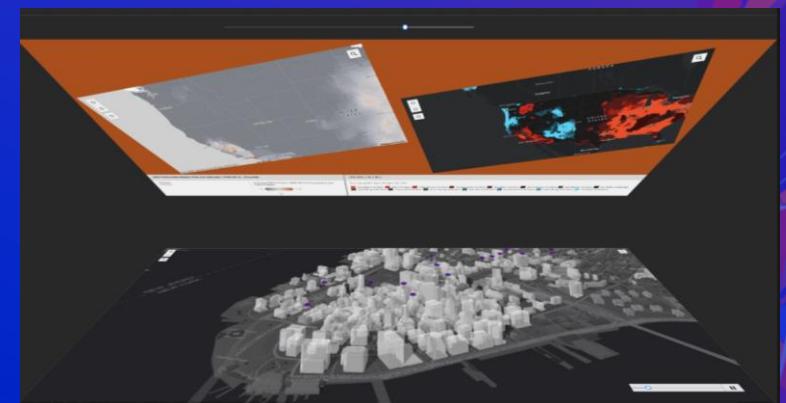
- Visual effects
 - Transition (between views)

- **Background**

- Fill and Image

- **Border**

- **Box shadow**



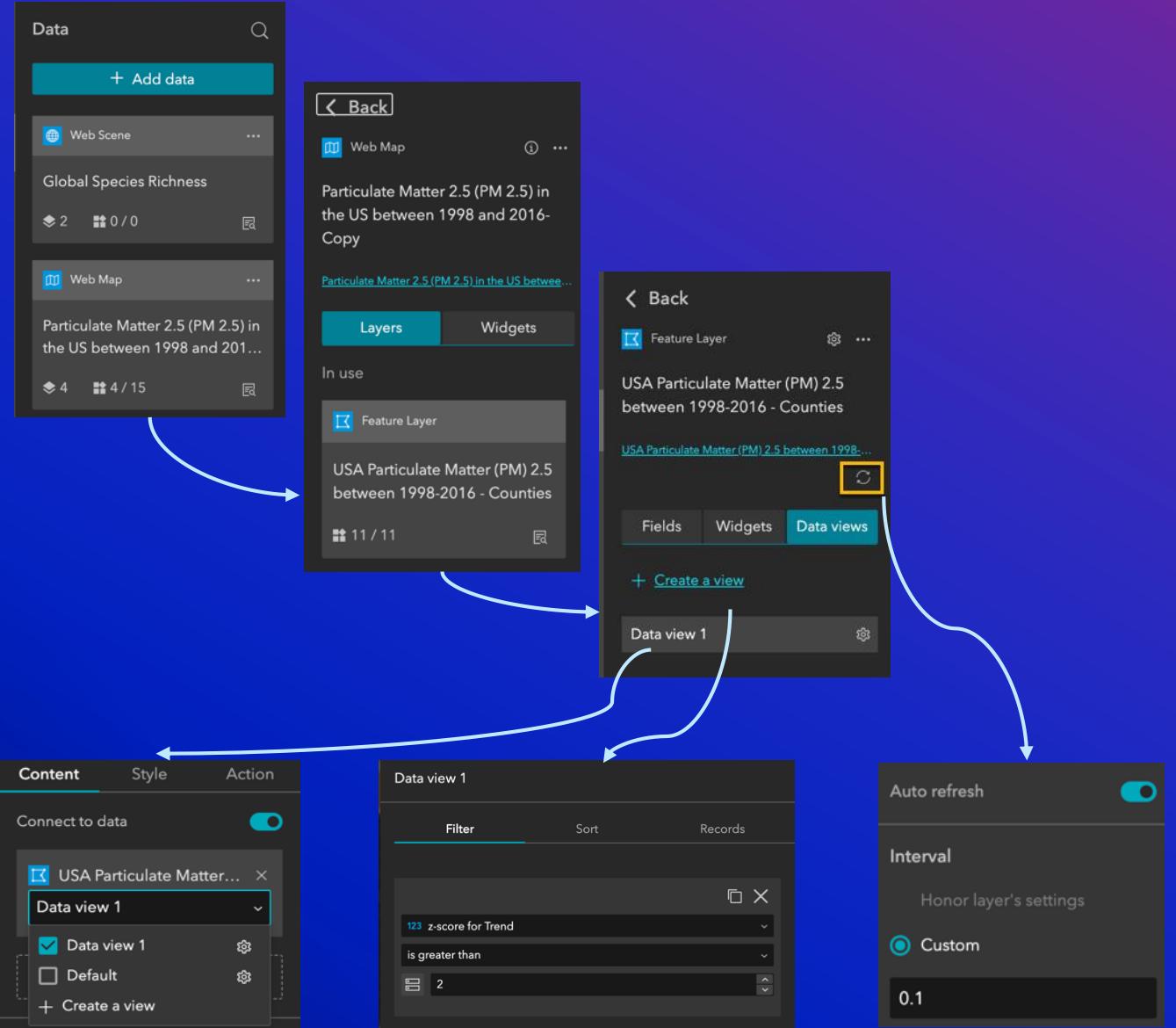
Triggers and actions

Source widget	Extent changes	Record selection changes	Target	Action
Map	✓	✓	Framework	Filter data records Select data records
List		✓	Map	Pan to Zoom to Flash Filter
Feature Info		✓	List widget	Filter
			Feature Info widget	Display feature

Enable widgets to work together

Data sources

- Data shared at application level
 - Web map
 - Web scene
 - Feature layer and table
 - Item or URL
 - Auto refresh with intervals
 - More to come
- Show connections between widgets, layers, fields
- Create data view
 - Filtering
 - Sorting
 - Page size



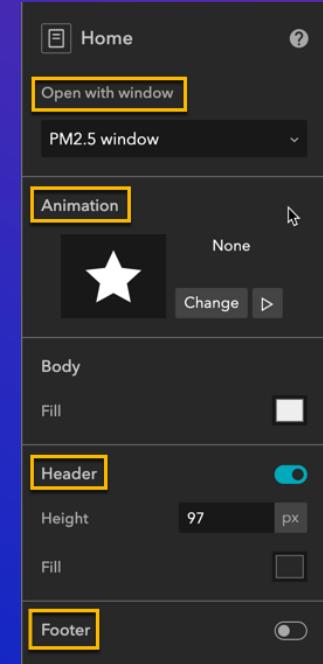
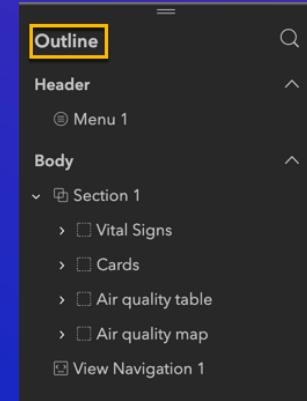
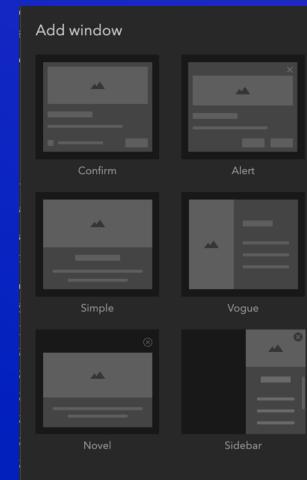
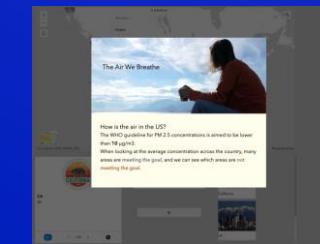
Page and Window

- **Page**

- Add new page from default templates
- Outline for widgets navigation on the page
- Header, Footer, Animation New, Open with window New, and Body properties

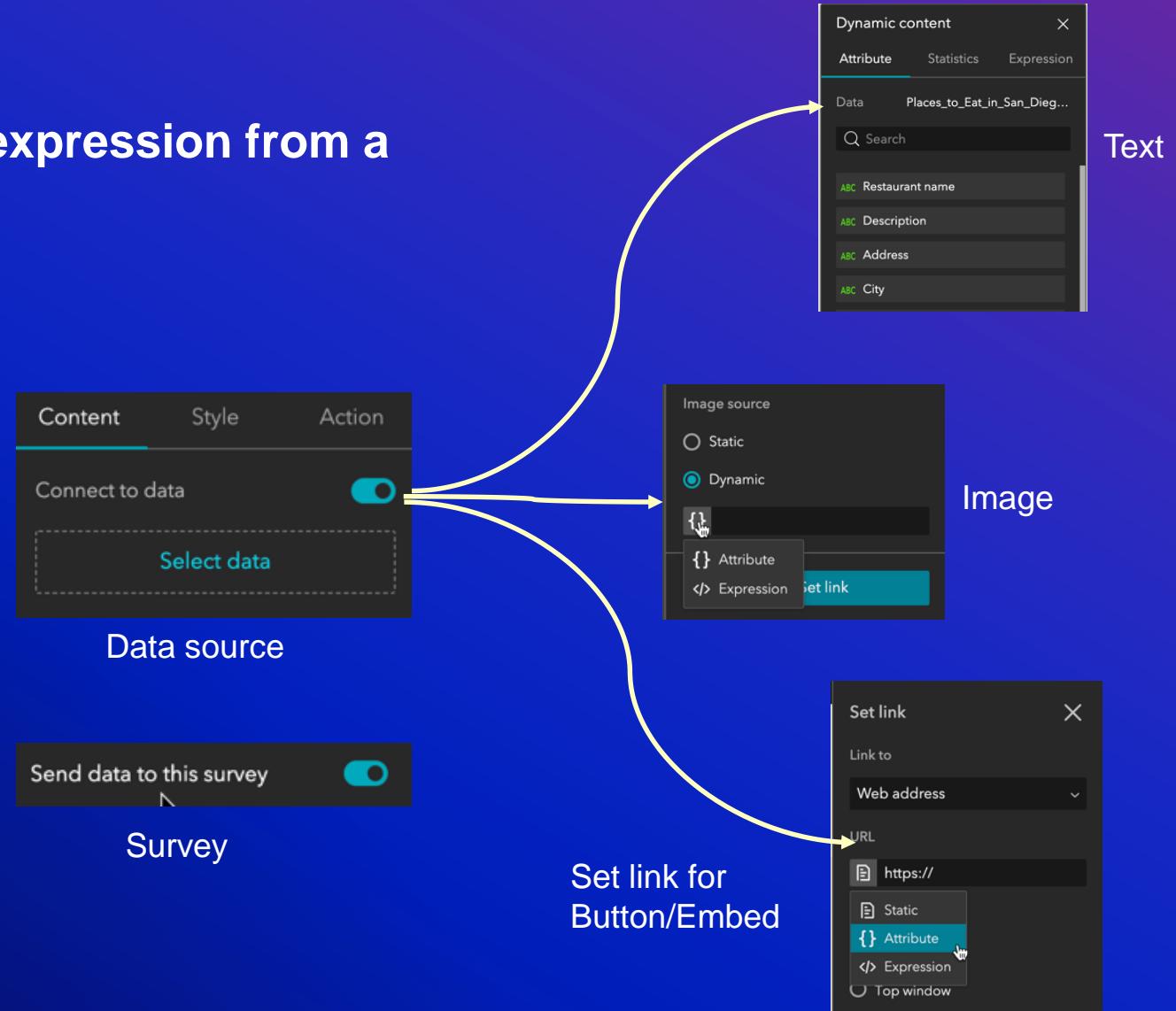
- **Window New**

- For splash screen or confirm/alert window
- Two modes
 - Fixed: display in a fixed position
 - Anchored: display around the widget that triggers it.



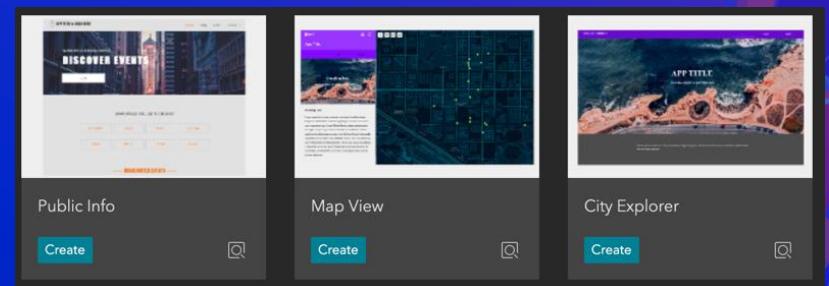
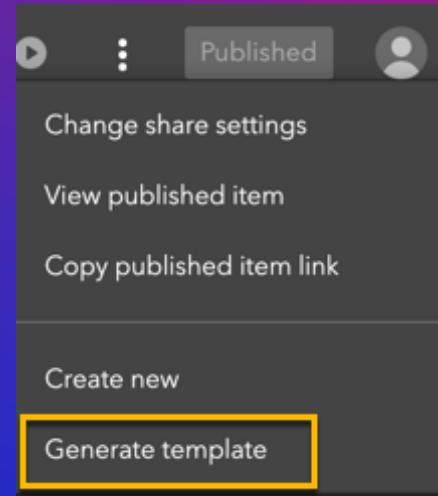
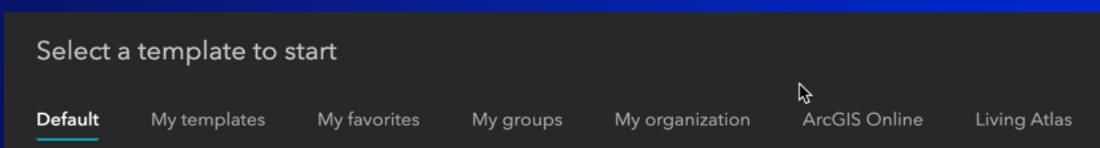
Display Dynamic Content

- **Dynamically show a field or expression from a selected data source**
- **Supported widgets:**
 - Survey
 - Embed
 - Text
 - Image
 - Button
 - List



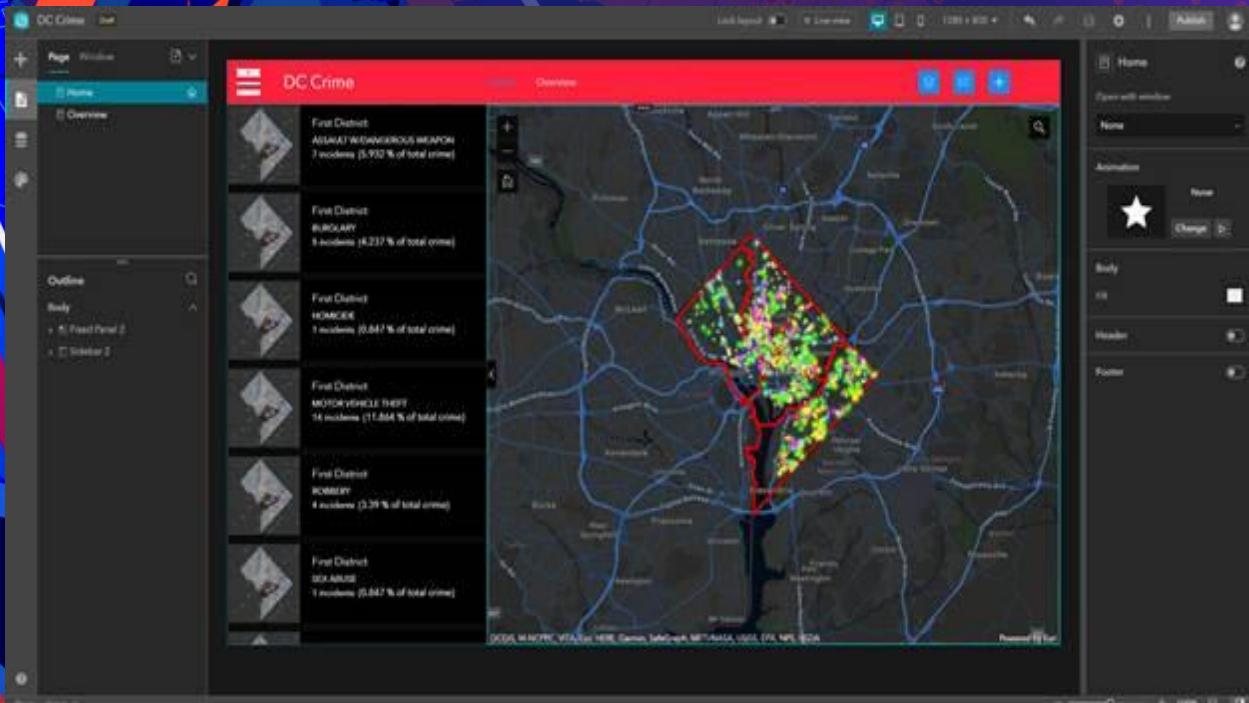
Generate templates

- **Create your own starters**
 - **Reusable templates**
 - **Theme properties for consistent branding**
 - **Sharing**
- **Starter templates**
 - **From the default templates**
 - **From shared templates**
 - **My organization, groups, public**



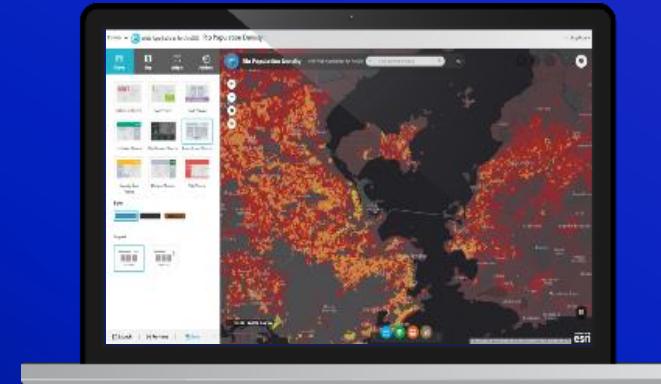
Demo 2

John Miller



FAQ

- **Will Experience Builder replace Web AppBuilder?**
 - For Online Edition, there is no plan to replace and obsolete Web AppBuilder. Both builders will be running and maintained in parallel. Web AppBuilder will continue to be available.
 - The Enterprise Edition follows ArcGIS Enterprise product life cycle
 - The Developer Edition follows ArcGIS API for JavaScript 3.x product life cycle.



FAQ

- **Can anything be transferred between Web AppBuilder and Experience Builder?**
 - You need to re-configure apps or rewrite custom widgets created with Web AppBuilder if you choose to move them to Experience Builder.
- **Will Experience Builder reach functional parity with Web AppBuilder?**
 - Starting with the core and popular widgets, Experience builder is planed to reach most of functional parity of Web AppBuilder through incremental releases.



FAQ Short List (Continued)

- What can only Experience Builder do and what can only Web AppBuilder do?
 - Flexible layouts, a mobile adaptive design, integrated 2D and 3D, and action triggers for widget communications are four key features in Experience Builder that are not available in Web AppBuilder. On the other hand, Web AppBuilder is empowered with 70+ widgets so you can quickly build your own workflow.

Take Away

- **With Experience Builder, you can do more than create compelling web applications. You can easily take your data and transform it into fully immersive experiences.**
- **You can generate reusable templates.**

Helpful Resources

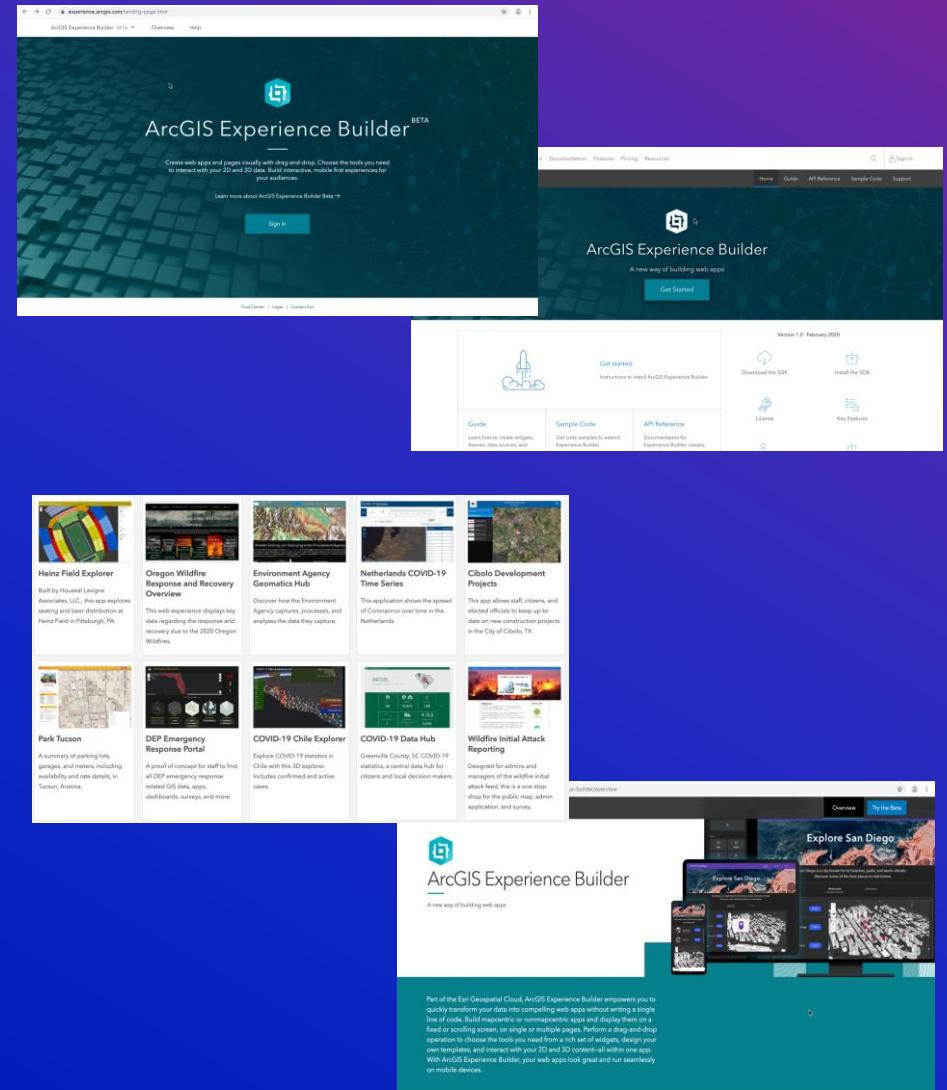
[User apps gallery](#)

[Experience Builder Online Edition](#)

[Experience Builder Developer Edition](#)

Video

- [UC 2020 Plenary Demo](#)
- [UC 2020-Building Integrated Web Solutions for Your Organization](#)
- [Dev Summit 2020 plenary demo](#)
- [FedGIS 2020 plenary demo](#)
- [Webinar-Getting started with Experience Builder](#)
- [Building Web Solutions using ArcGIS Experience Builder](#)



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