

ESRI DEVELOPER SUMMIT 2023

Widget Communication

What is a widget?

https://www.merriam-webster.com/dictionary/widget

widget noun

wid-get

'wi-jət ◄))

Synonyms of widget >

- 1 : GADGET
- 2 : an unnamed article considered for purposes of hypothetical example

: a small software application that is designed to provide a specific piece of information (such as news, weather, or traffic updates) or a specific function (such as taking notes or controlling another application) on demand

This resource allows anglers to see what advisories are in effect in specific waterways The web page is optimized for mobile devices, with a *widget* that allows users to zoom to their exact location on the map with the press of a button.

- Chris Knauss

A *widget* might show you the weather forecast, or the latest baseball scores. There are *widgets* that show photographs you've stored online, or that cull images from the Daily Puppy Web site.

- Rob Walker

Types of Widgets

- Map centric
- Data centric
- Page elements
- Menu and toolbars
- Layout
- Section
- Custom (More on this tomorrow)







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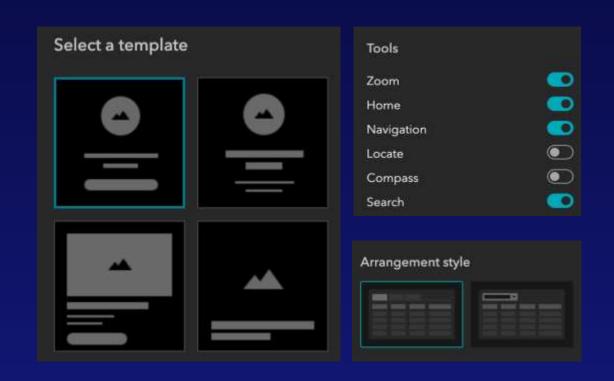
Ground Elevation



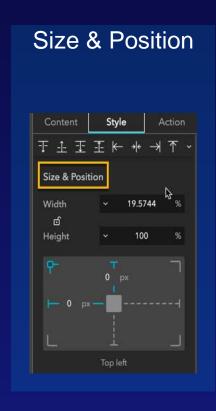


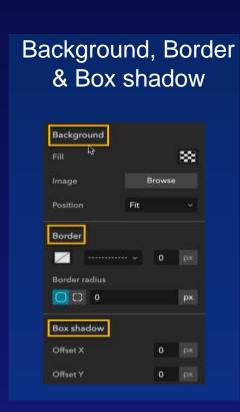
Widget Content

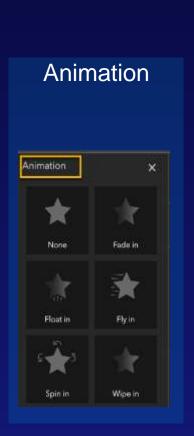
- Select data
- Options
 - Tools, Modes, Templates



Widget Style





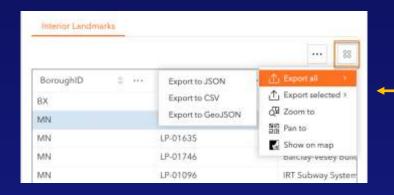




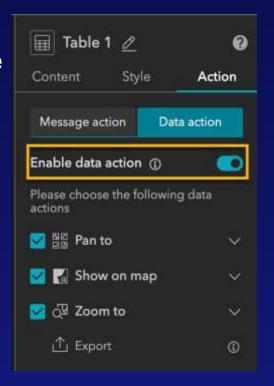


Widget Actions

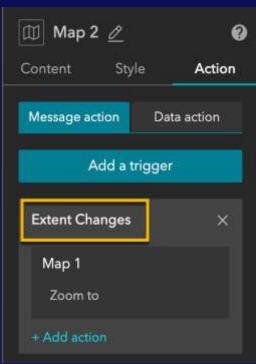
- How widgets communicate with one another
- Data action allows interaction from end users
- Message action applies automatically at runtime



Data action



Message action



Message Actions

- A trigger broadcasts a message
- Targets listen to the message
- Actions by targets

Trigger	Target	Action
Extent Changes from Map 1	Map 2	Zoom to the same extent as Map 1
	Framework (data)	Filter Data Records For example, List 1 displays only features within the current map extent

Demo



Activity

45 minutes

- Create a new experience
- Add a data source or data sources to your experience
 - Web map we used in the demo, search online for "**DS2023 Regional Offices" or** https://arcgis-devlabs.maps.arcgis.com/home/item.html?id=fecde6493224443ba8b2c77b633dd482
- Add map widget and connect it to your data source
- · Add a couple map centric widgets to your app and wire them to the map
 - Legend, Map layers, coordinates, etc...
- Add a few Data centric widgets and wire them up with message and data actions
- ** Challenge
 - Have your widgets communicate over multiple pages

