UC



Creating and Publishing Your Own Configurable Apps for Your Organization

Ian Wittenmyer
Kelly Hutchins

Content: Basic building block for Apps



Web Map

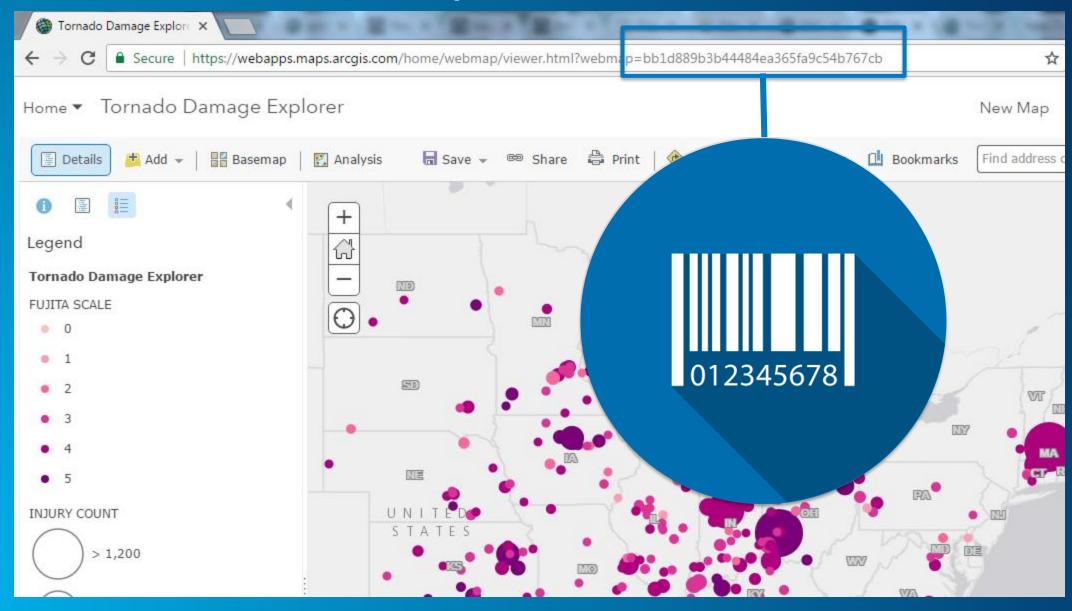


Web Scene



Group | Items

ID: Each item of content has a unique identifier



Web Maps/Web Scenes: JSON (Information + Data)

```
www.arcgis.com/sharing/ ×
                                 www.arcgis.com/sharing ×
             www.arcgis.com/sharing/...
                                                   + - View source #
  id: "9569a8b938c746359c1b4aa490476506",
  owner: "sajitthomas",
  created: 1400838485000,
  modified: 1414506431000,
  quid: null,
  name: null,
 title: "Local Perspective Miami",
  type: "Web Map",
- typeKeywords: [
      "ArcGIS Online",
     "Explorer Web Map",
      "Map",
      "Online Map",
      "Web Map"
  description: null,
- tags: [
     "Miami"
  snippet: "Description of the map.",
  thumbnail: "thumbnail/ago downloaded.png",
  documentation: null,
- extent: [
         -80.7954.
         25.5832
         -79.8801,
         26.0795
  spatialReference: null,
```

```
www.arcgis.com/sharing ×
                                 www.arcgis.com/sharing/ ×
          www.arcgis.com/sharing/...
                                                  + - View source
- operationalLayers: [
         id: "Private Schools 9256",
         layerType: "ArcGISFeatureLayer",
         url: "http://services.arcqis.com/80hk79qB8z45zcHi/arcqi
         visibility: false,
         opacity: 1,
         title: "Miami Private Schools",
         itemId: "e26a54eb27c8426292929a9000232598",
       - popupInfo: {
             title: "{NAME}",
           - fieldInfos: [
               - {
                    fieldName: "FID",
                    label: "FID",
                    isEditable: false,
                    tooltip: "",
                    visible: false,
                   - format: {
                        places: 0,
                        digitSeparator: true
                    stringFieldOption: "textbox"
                    fieldName: "OBJECTID",
                    label: "OBJECTID",
                    isEditable: true,
                    tooltip: "",
                    visible: false,
                  - format: {
                        places: 0,
                        digitSeparator: true
```



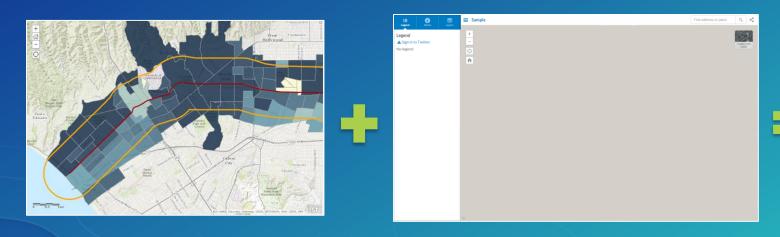
What are configurable apps?

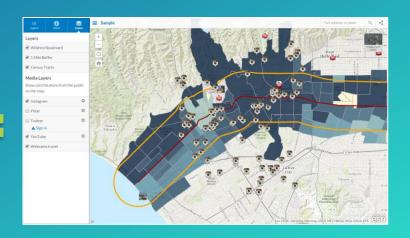
- Hosted apps maintained by Esri in the cloud
- Designed for you to configure no programming needed
- Fastest and easiest way to go from a map to a shareable app
- Work with different types of content



Apps are the user experience

- Present map information and tools in meaningful ways
- Configure to reach target audience
- Support workflows and workforce tasks





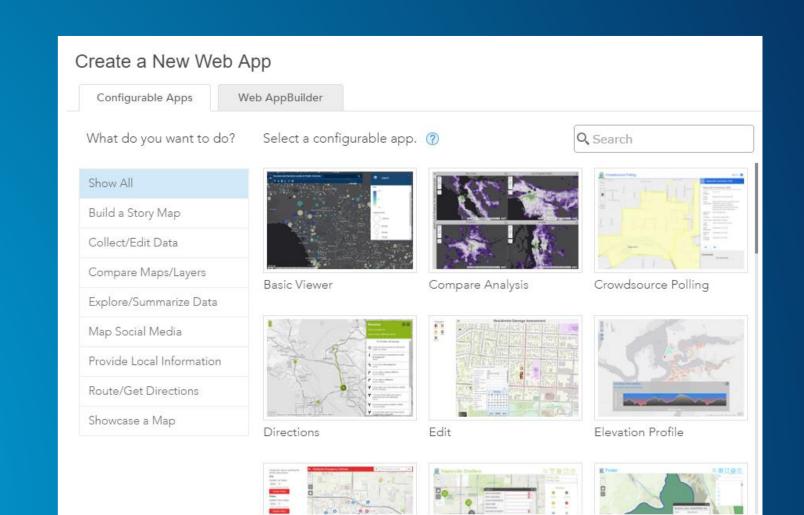
Map

App template

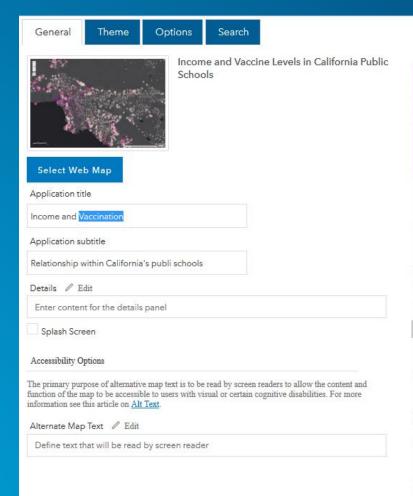
Configured application

What do you want to do?

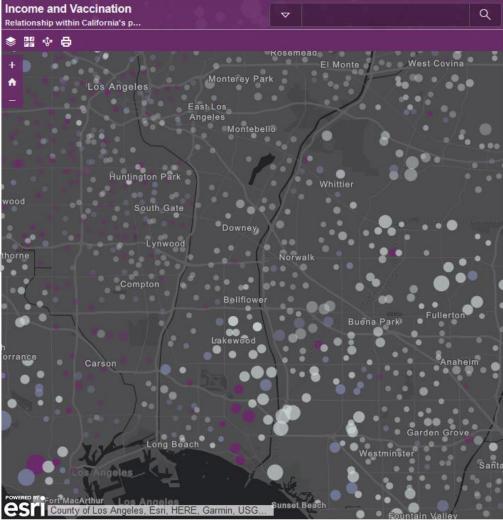
- Build a story map
- Collect/edit data
- Compare maps/layers
- Display a Scene
- Explore/summarize data
- Make a Gallery
- Map social media
- Provide local information
- Route/get directions
- Showcase a map



Configure app

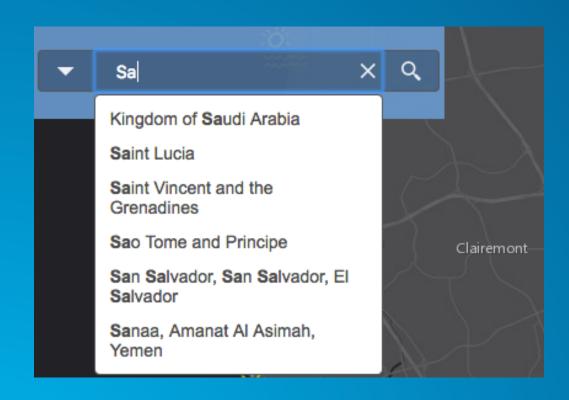


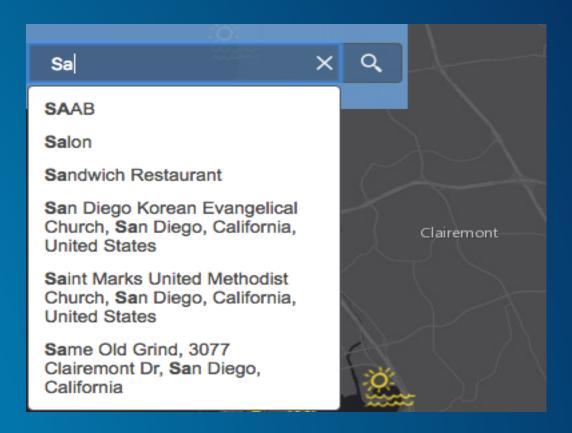
Configure: Income and Vaccine Levels





Constrain search within map





App Design Considerations

- Shared theme:
 - Color Contrast Analyzer http://webaim.org/resources/contrastchecker/
 - Logo transparent background
- Usability:
 - Focus on the purpose of your app.
 - Who is it for and what do they need to learn from your app?
- Unified Search

Shared Theme settings

Shared Theme



Use the shared theme to apply your organization's brand colors and logo to information products created from configurable app templates, Story Maps, Web AppBuilder, and to your Open Data sites. Define the shared theme of your organization using the color pickers and logo options below.

Header: Sample Text	
Text Color:	
Background:	
Body: Samp	e Text Sample Link
Text Color:	lacksquare
Background:	lacksquare
Link Color:	
Button: Sam	ple Text
Text Color:	lacksquare
Background:	lacksquare
Logo:	
	image by entering a URL reference or by uploading an image file that will be stored as a public item in your mally, you can make the logo clickable by entering the target website URL in the Logo Link box.
Logo Image:	https://nw-brews.mapsdevext.arcgis.com/sharing/rest/content/items/f27b1facce704698b82fa3abb39730b5/data
_	

UPLOAD LOGO

Logo Link: Set a click-through link for your logo: https://example.com/

Search

Configuration Options

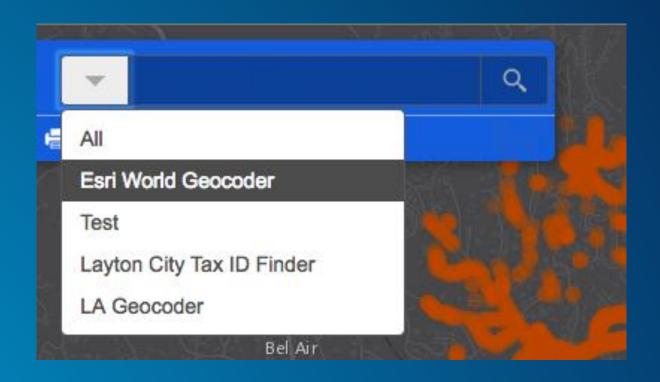
Multiple searches

Place holder text

Name

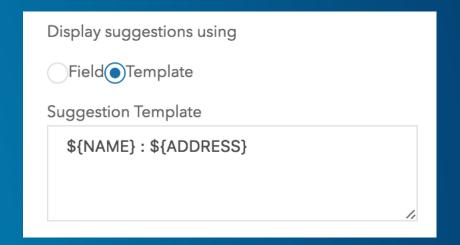
Search within extent

Country code

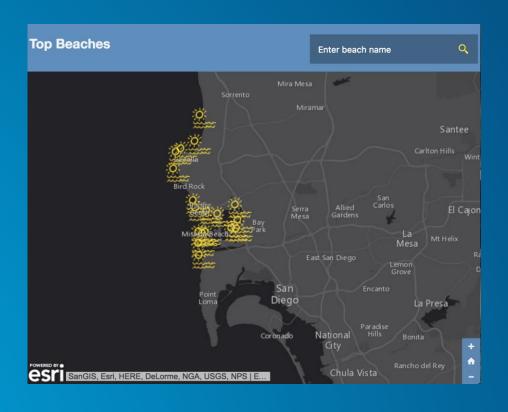


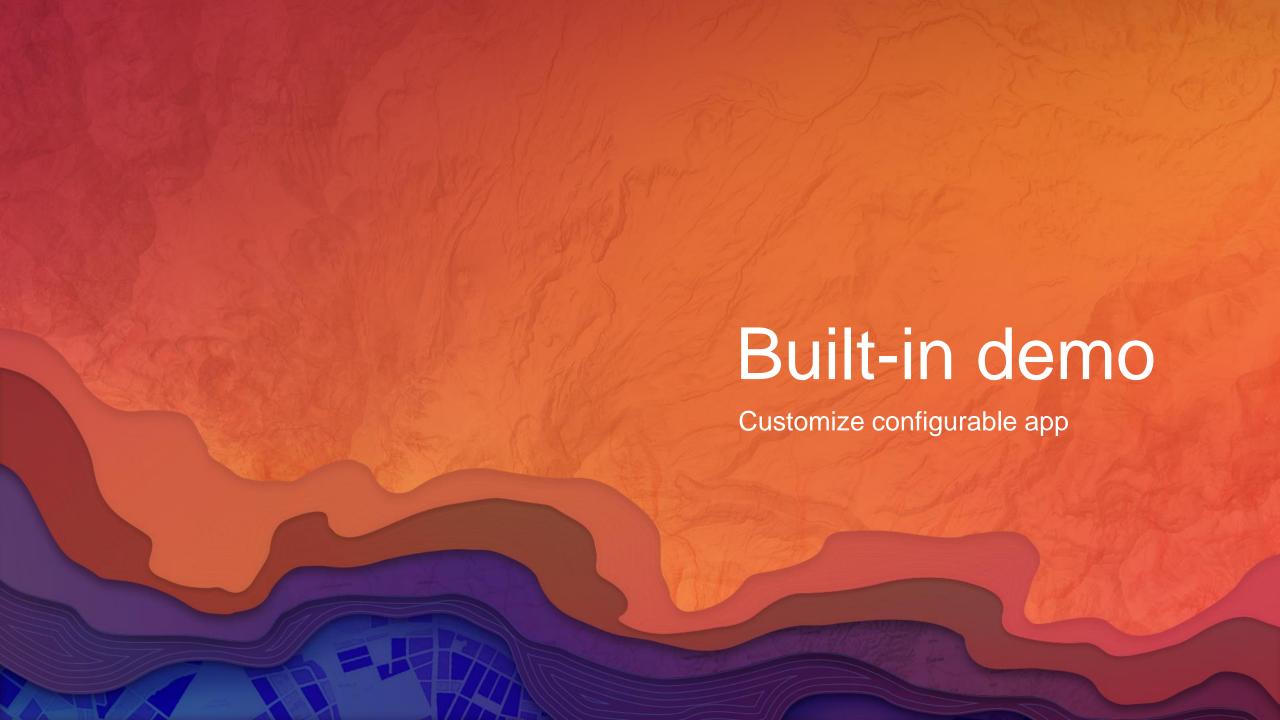
Suggestions

10.3 geocoding service with suggest capability 10.3 feature layer supports pagination.



Custom CSS

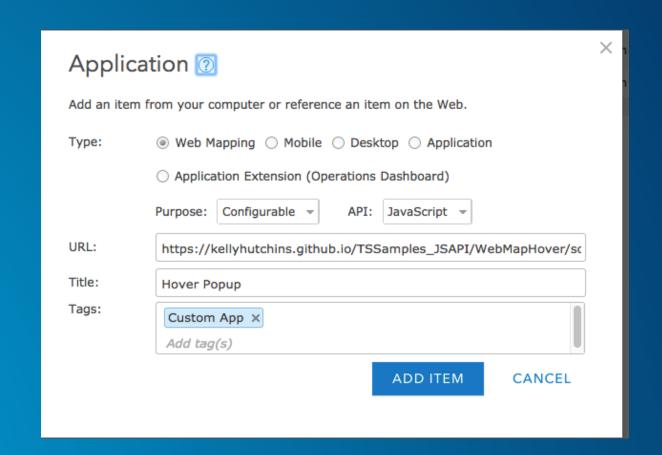






Create a custom app

- New App Item
 - Purpose: Configurable
 - URL
 - Title



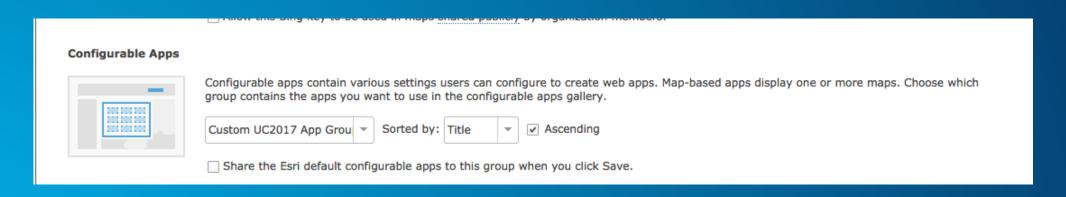
Make your app configurable

Configuration options



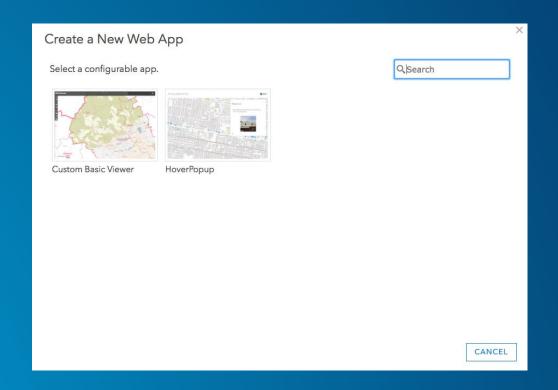
Add to gallery

- Create Custom Group
- Share app to group
- Org Admin set as Gallery Group



Create app based on custom configurable app

- Select configurable app
- Specify config options
- Save



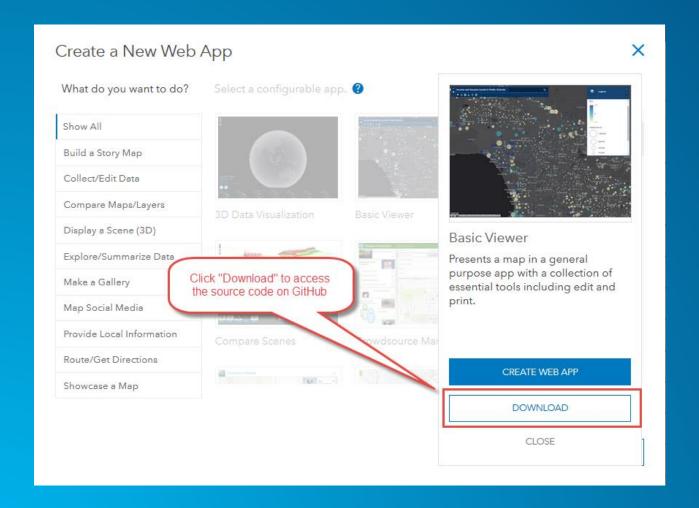
What is saved?

```
source: "c7b9fa239f354274a99dd244d41cb648",
  folderId: "2d4ca0b4bd454e29884e65e94efcdaed",
- values: {
     legend: true,
     basemapToggle: true,
     home: false,
     info: false,
     webmap: "9babea4a8f864e9db73cc01572dd7304"
```

Create a custom configurable app

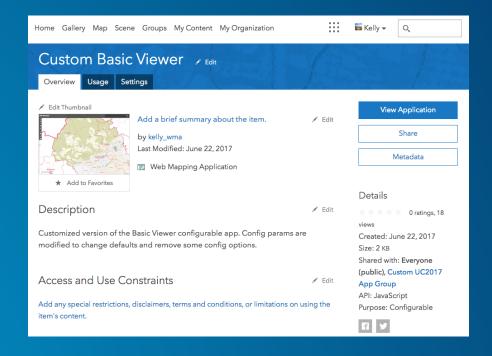
- Modify configuration for existing app
- Download, customize and host
- Build your own app

Get Out-of-the-box app source code



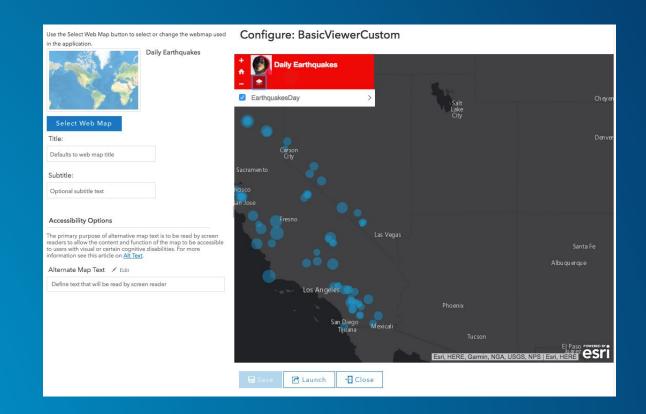
Modify appearance or defaults of existing app

- Simple Customizations
 - CSS
 - Defaults
- Provide url to existing app
- Modify default config options



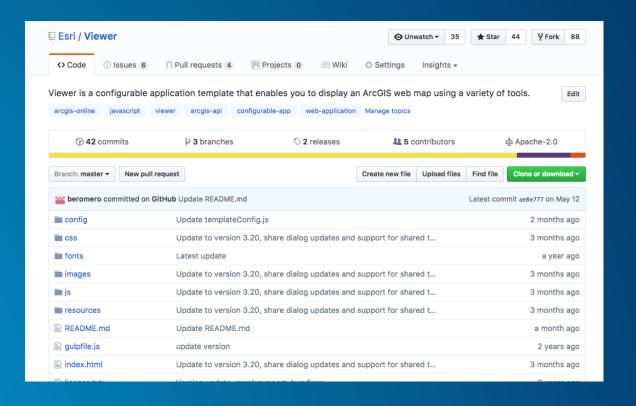
Configuration changes

- Modified default values
 - Color
 - Logo
 - Disabled tools
 - Removed config options



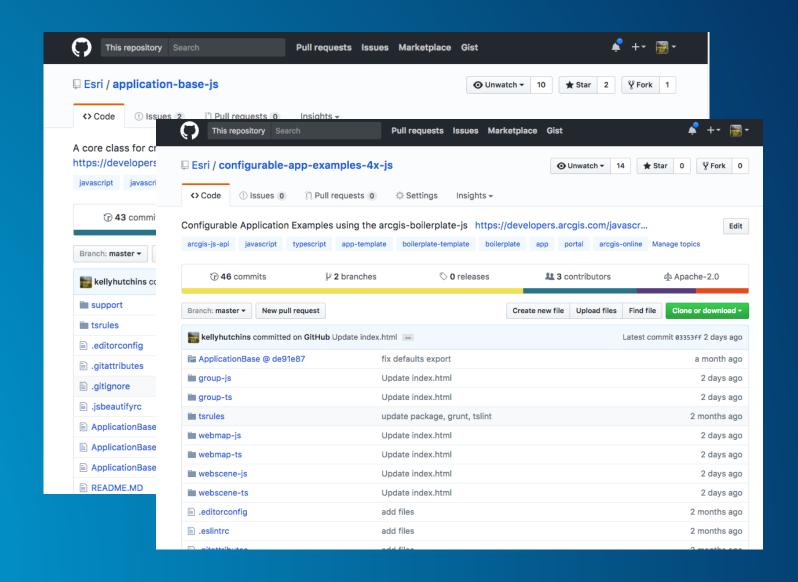
Download and Customize

- More advanced customizations
 - Add new tool
 - Modify app logic
- Requires that you host app



Write your own Configurable App

- Helper class
- Examples



Custom App Example

