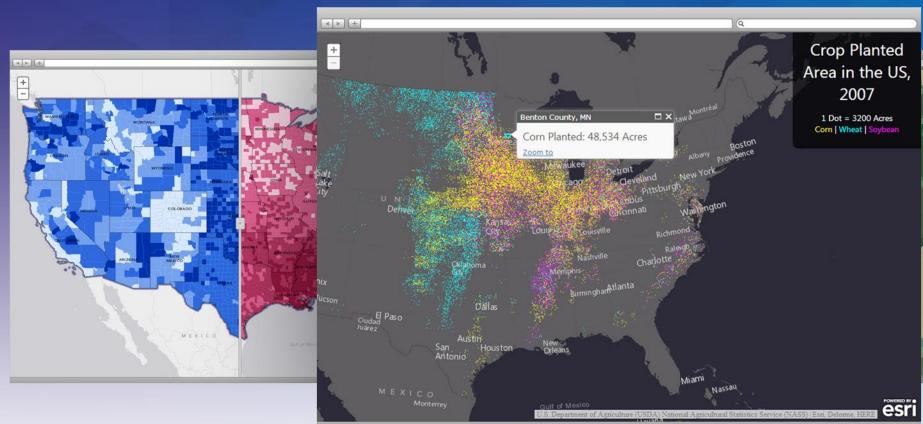
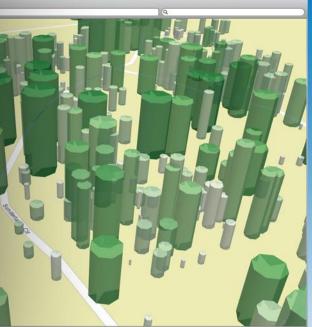
Building Web Applications with ArcGIS

Julie Powell | European User Conference | October 2014

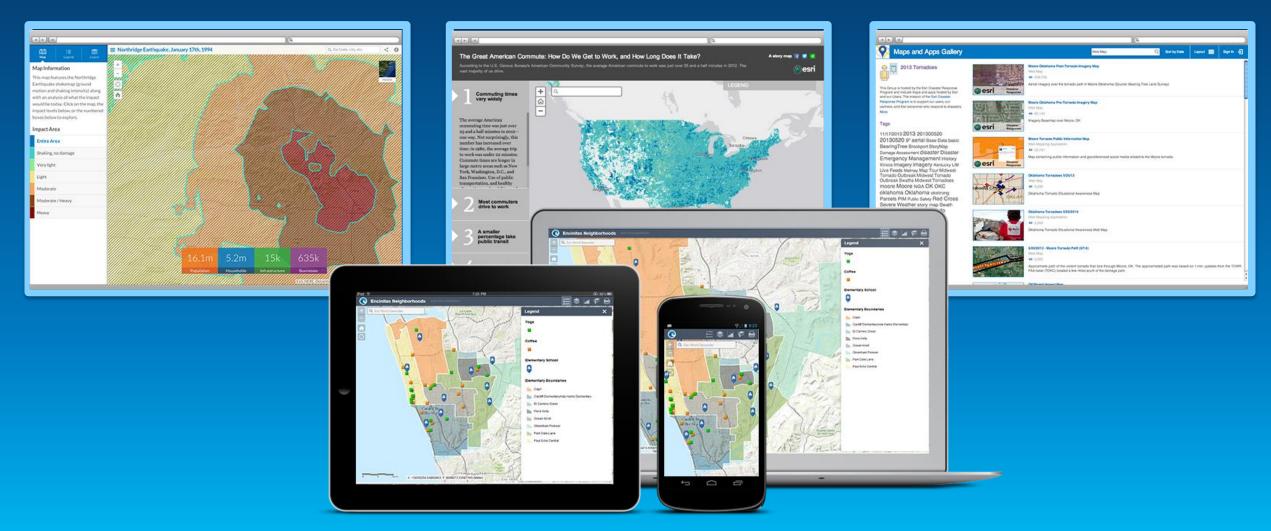
ArcGIS API FOR JAVASCRIPT





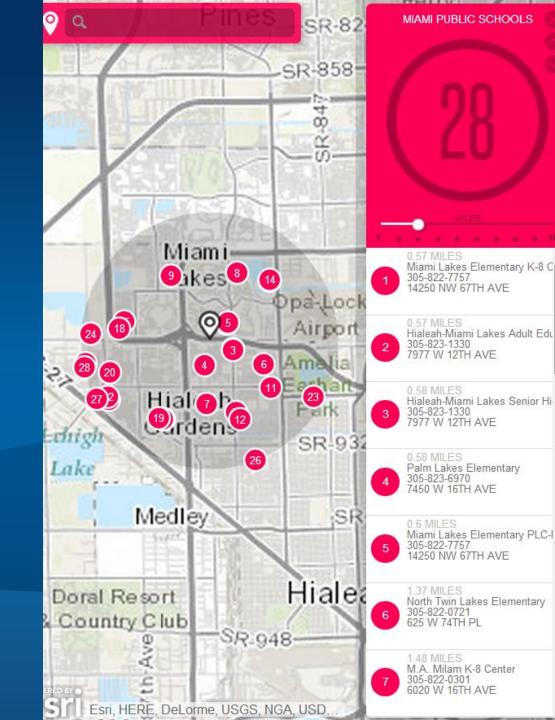
Configuring Web Apps with ArcGIS

Web App Templates | Web AppBuilder

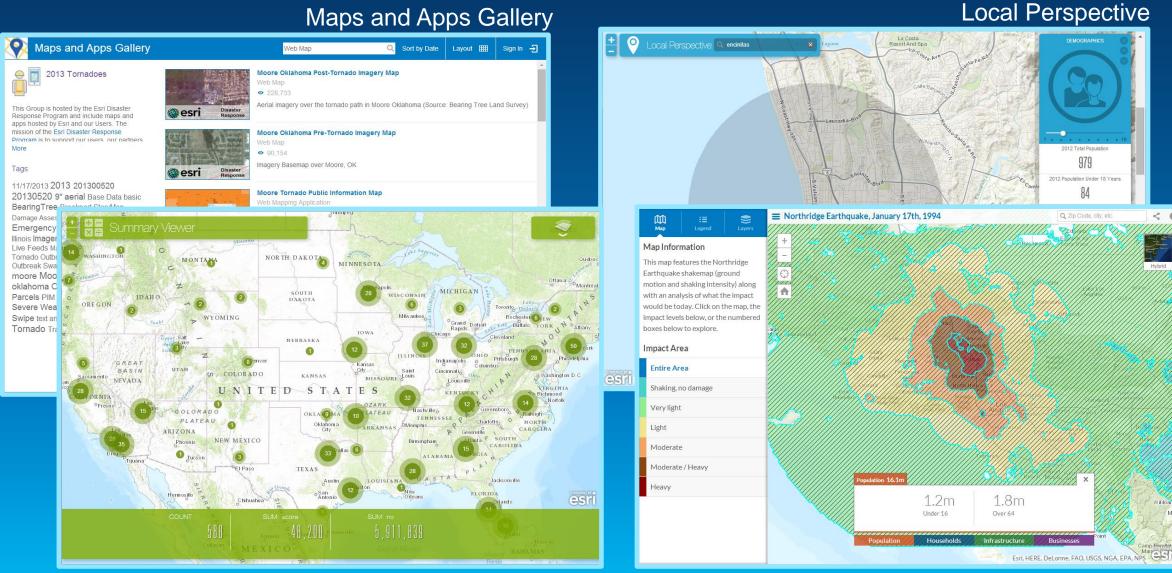


Configurable Apps

Web App Templates



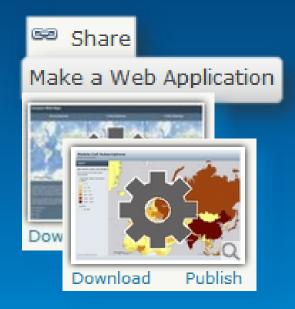
Web Application Templates

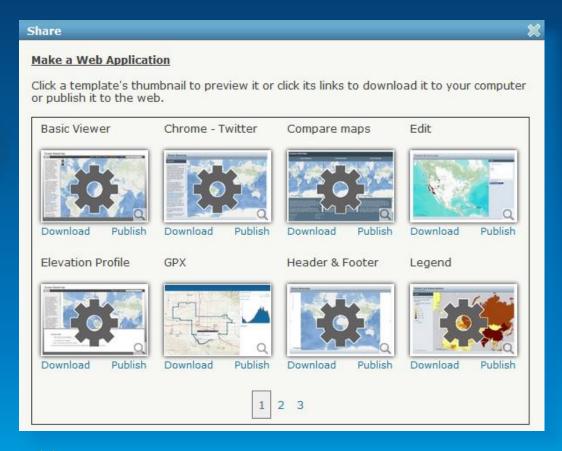


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Application templates

Choose from template gallery







 $\checkmark)$ More templates can be found by searching ArcGIS Online

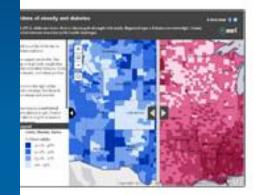
Configure and publish from your account



Web App Templates: Download and Tweak



ytelling Text and end



ytelling Swipe



The best property of the Landon Fredericans

Storytelling Basic



Legend



Map Tour



Template Anatomy 101

Default.js (or inside index.html):
Default config values

Template.js OR app.js template "plumbing"

*.css : style sheets for the template

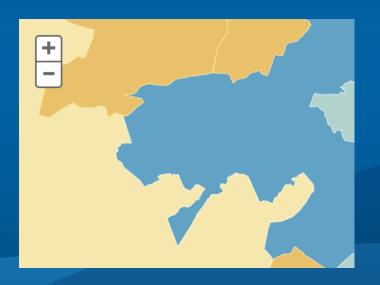


configurationPanel.js
JSON specifying config
params –
COPY INTO AGOL ITEM

Index.html Main HTML file for the app

> Layout.js OR main.js "meat" of your application logic!

Application Boilerplate JS



```
<script type="text/javascript" src="//js.arcgis.d</pre>
 <script type="text/javascript">
     require([
          "dojo/on",
          "application/main",
          "application/template",
          "dojo/domReady!"
     ], function(
          on,
         Main,
         Template
     ) {
          //create the template. This will take car
          //If you need localization set the suppor
          //from the javascript/nls/resource files.
          //Note that we've included a placeholder
          //to show how to setup the strings file.
         var supportsLocalization = true; //defaul
         var myTemplate = new Template(supportsLoc
         on(myTemplate, "ready", function(config)
              //The config object contains the foll
              //i18n, appid, webmap and any custom
              //In this example we have one called
              Main(config);
         });
     });
 </script>
body>
ntml>
```

What is it?

- Starter Application
- Template & app logic
- Working with ArcGIS Online
 - Webmaps
 - Services
 - i18n
 - Authentication
 - Configurable

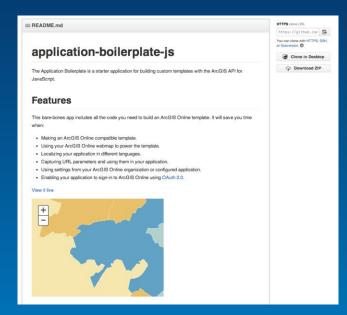








Show me the way



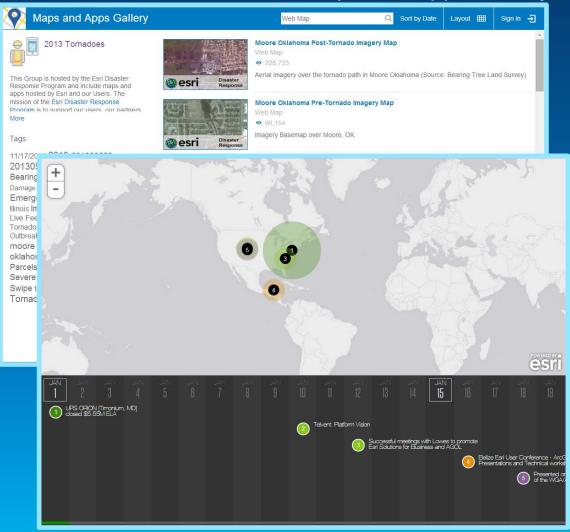


GitHub

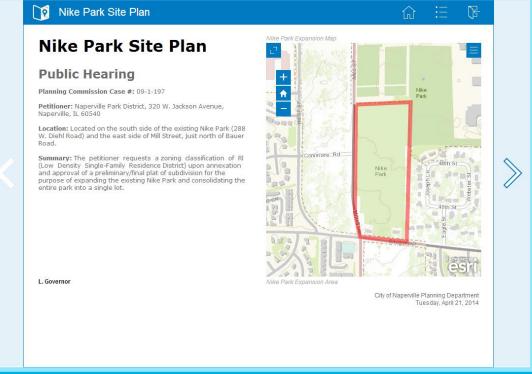
esriurl.com/boilerplate

Web Application Templates



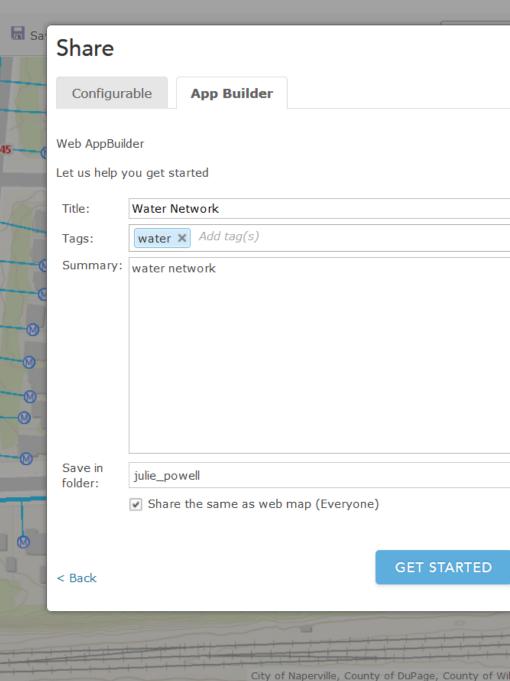


- Grow industry-focused templates
- Search & categorizing
- Design work
- User interaction
- Optimization



Configurable Apps

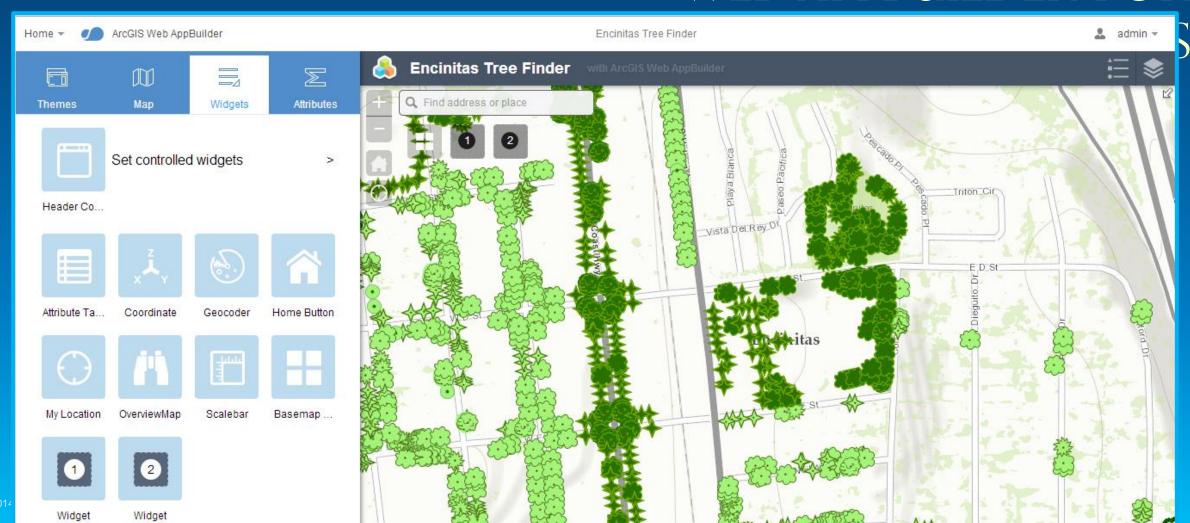
Web AppBuilder for ArcGIS



Configuring Web Apps with ArcGIS

Many options for using apps to make your map come alive

WEB APPBUILDER FOR



Extensible: Opportunities for developers and partners

- Extend functionality with custom widgets
- Personalize look & feel with custom themes

Developer's Guide

For developing your own widgets and themes.

Overview

Understanding widgets, panels and themes

Skill and software needed for ArcGIS WebApp Builder developers

Resources

Widget development

Theme development

Overview

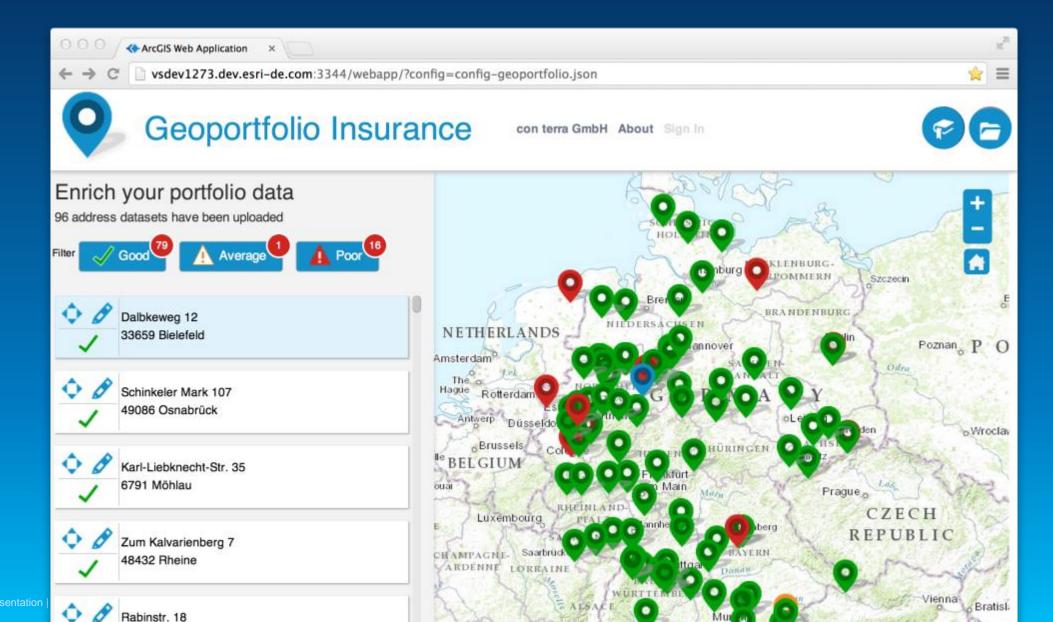
ArcGIS WebApp Builder is built with ArcGIS API for JavaScript and Dojo. It allows you t creating your own widgets and themes.

Understanding widgets, panels and themes

Widget

An ArcGIS WebApp Builder widget is a set of text files that you can share, move, and application.

Create new themes to tailor the look and feel



Create new widgets to extend functionality



A minimum Widget – Widget.js

```
define(['dojo/_base/declare', 'jimu/
function(declare, BaseWidget){
  var clazz = declare([BaseWidget], {
  });
  return clazz;
});
```

All widget derived from the BaseWidget class

BaseWidget

What do you get from BaseWidget?

- App config properties (label, icon, location, etc)
- App config data
- Widget's config data
- Map object
- Widget state (open, closed, active...)
- Events like open/signin
- Sharing data (widget communication)

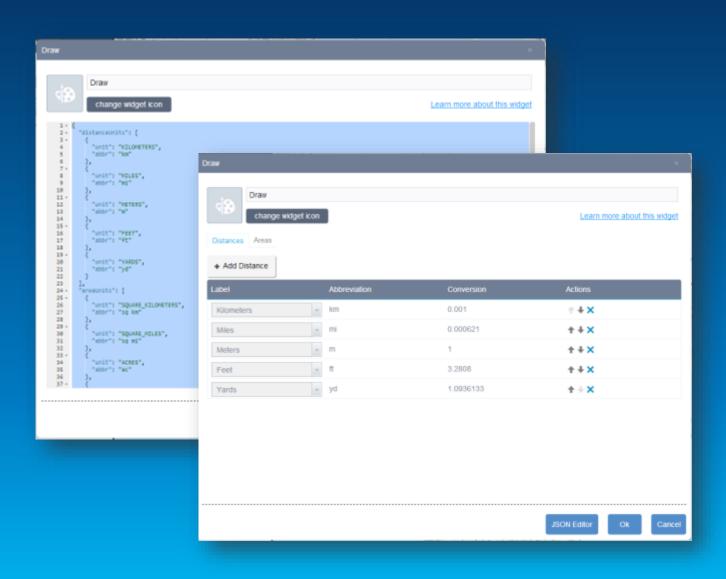
Your job?

- HTML Template
- Widget config file
- Widget name (for css)
- The "guts" (i.e. business logic)
- Localization





Configure your custom widget config UI for the builder



Build a UI for configuration

- UI for user to configure settings
- Localizable
- Can perform extra validation
- Style with css

Web AppBuilder for ArcGIS (Developer Edition)

Building Apps with Custom Widgets/Themes

- Download Web AppBuilder Developer Edition and host on-premise
 - build apps with custom widgets/themes
- Create Web Apps from your own computer.
- Apps created with the developer edition are not automatically upgraded when you upgrade your portal.

Releases

Final

with Portal for ArcGIS 10.3, ArcGIS Online Q4 2014

Portal pre-release

Nov 2014

Beta 3

Oct 2014

Online (beta)
Oct 2014

Beta

Beta 2July 2014

March 2014