

Create Great Web Apps No Coding Required

Scott Moore, Esri
April 4, 2016

2016 Intermountain, Great Falls, MT



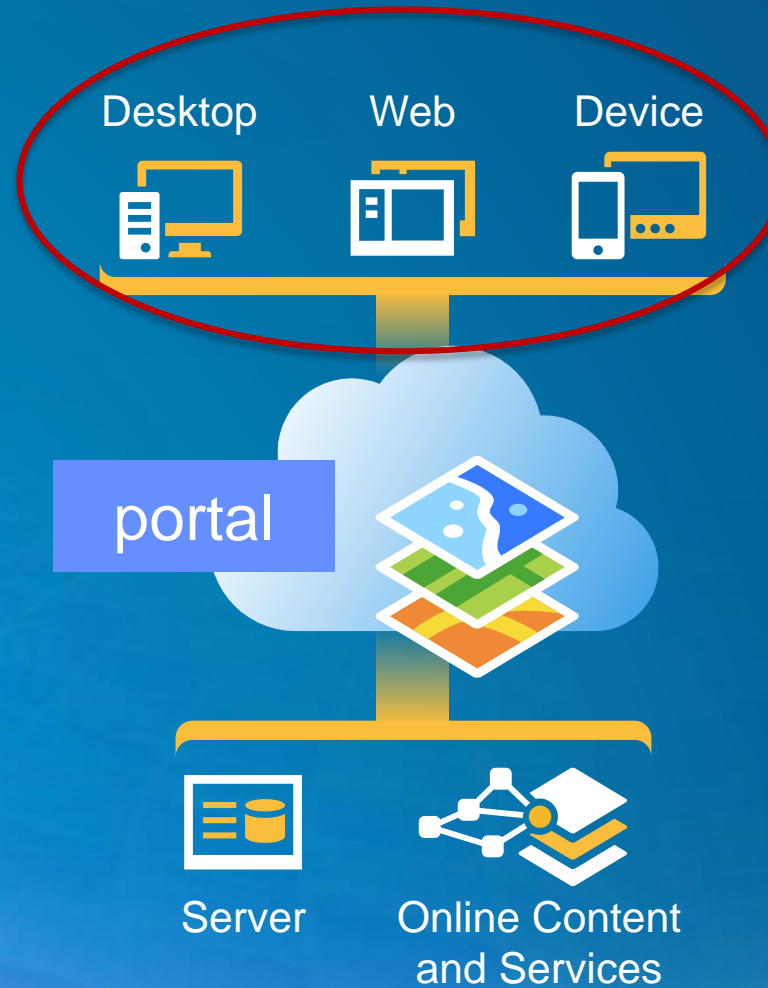
Agenda

- **Product overview**
- **Web AppBuilder for ArcGIS tour**
- **What's New – November 2015 ArcGIS Online update**
- **Customization**
- **Community and Resources**
- **What's Coming Next**
- **Summary**

The ArcGIS Platform enables Web GIS

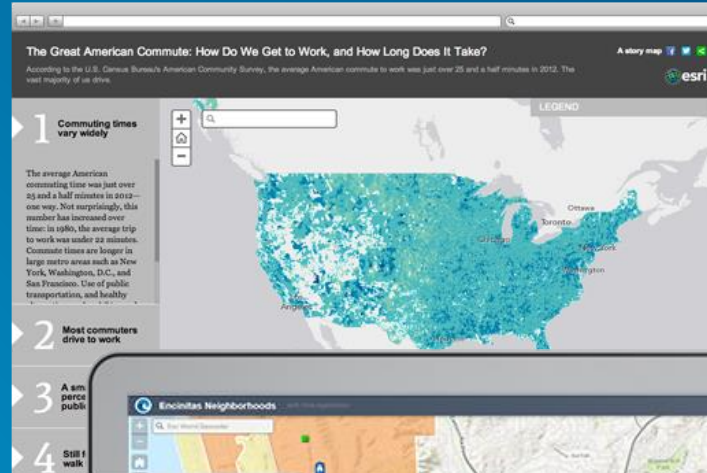
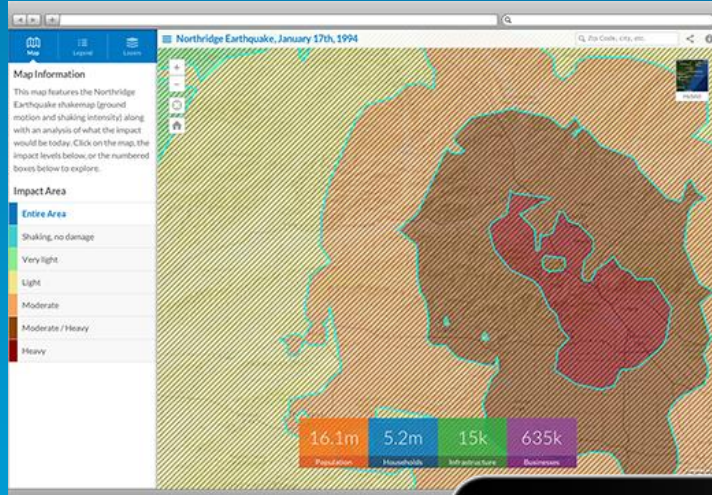
Enabling GIS Everywhere

Simple
Integrated
Open



Available in the Cloud . . .
. . . and On-Premises

Creating web apps with ArcGIS

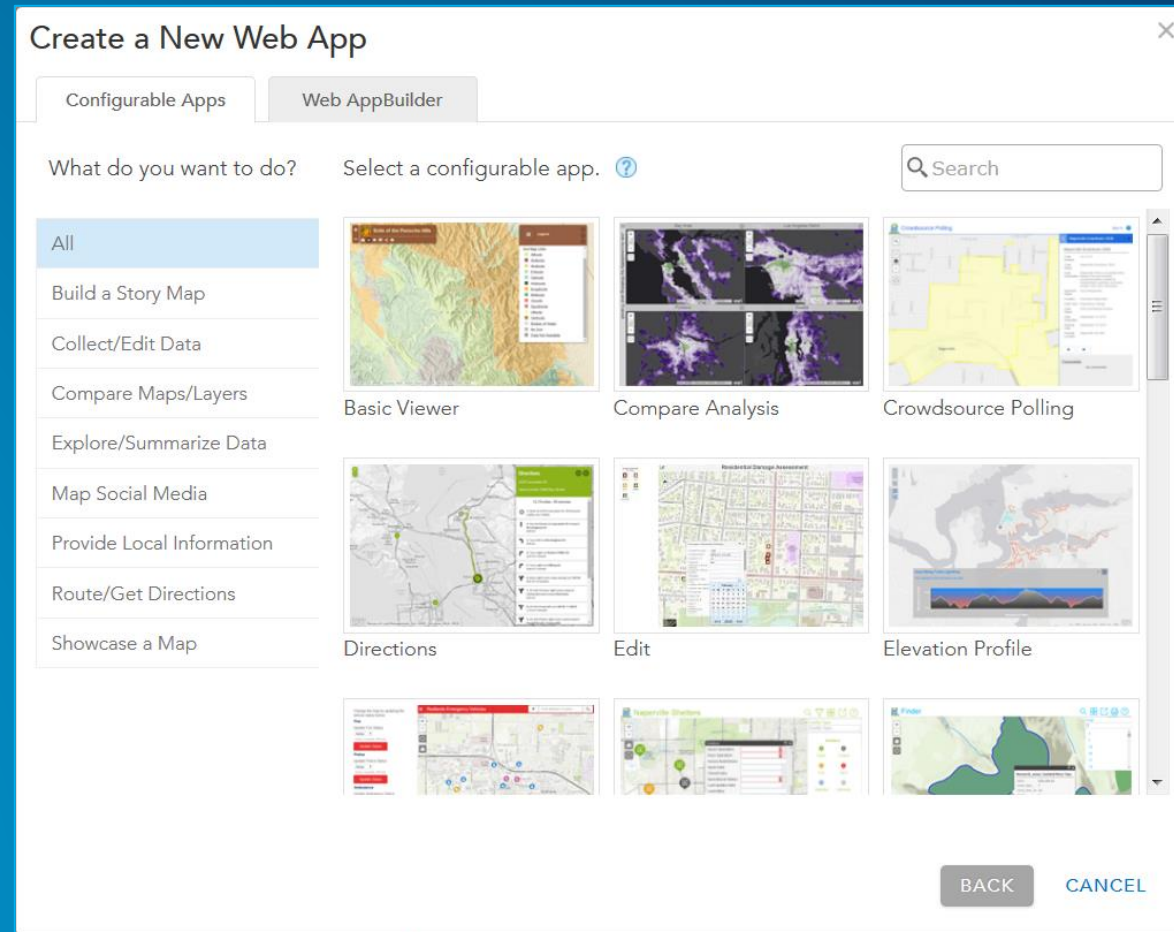


ArcGIS Configurable Application Templates

ArcGIS Online and Portal for ArcGIS



Web Map

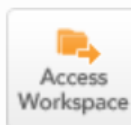




Promote



Demote

3070
PointsAccess
Workspace**29**
Participants

HTML 5 Viewer needed

It seems like HTML 5 is going to be one of the leading (if not The leading) GIS web development platforms. Flex and Silverlight APIs, however, have their respective Viewers created. They allow for easy and rapid creation of sophisticated web applications. There is nothing similar for JavaScript API and HTML 5, while there are legions of GIS users who are not very well versed in programming. Can ESRI look into catering to this users too, with respect to HTML 5?

Tags : HTML 5, Viewer, Web, Development

14 Comments | **Posted by :** alexroma **to** ArcGIS Server, Web Apps and APIs **Feb 23, 2012**



Promote



Demote

770
PointsRequest
Workspace

JavaScript API Builder

Create a JavaScript API Application Builder like those created for the Flex and Silverlight APIs.

Tags :

2 Comments | **Posted by :** TONIFAIRBANKS **to** ArcGIS Server, Local Government, Web Apps and APIs **May 10, 2012**

Print

Map Title: ArcGIS WebMap

Layout: Letter ANSI A Landscape

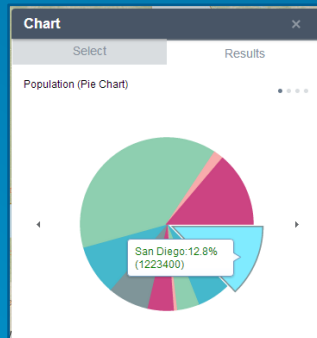
Format: PDF

Advanced Print

Map scale/extent:
 Preserve: ☒ map scale ☐ map extent
 Force scale: current

Layout metadata:
 Author: ArcGIS WebApp Builder
 Copyright:

Include legend: ☒



Options Zoom to Clear Selection Refresh

latitude	longitude	Date	City	State	Country	Event	Tour	Venue	url	FID	CreationDate	Creator	EditDate
29.730278	-95.435	4/5/1992 5:00:00 PM	Houston	TX	USA		Zoo's 1st Leg	The Summit	http://en.wikipedia.org/12	4/18/2013 10:25:55 AM	cmahira_jaspi	4/18/2013 10:25:55 AM	
41.311488	-72.929511	12/13/1988 4:00:00 PM	New Haven	CT	USA		Boy 2nd Leg	Toad's Place	http://www.toadsp.13	4/18/2013 10:25:55 AM	cmahira_jaspi	4/18/2013 10:25:55 AM	
30.278958	-87.732216	4/5/1992 5:00:00 PM	Austin	TX	USA		Zoo's 1st Leg	Frank Erwin Center	http://en.wikipedia.org/14	4/18/2013 10:25:55 AM	cmahira_jaspi	4/18/2013 10:25:55 AM	
39.951639	-75.163808	12/14/1988 4:00:00 PM	Philadelphia	PA	USA		Boy 2nd Leg	Biyu Cafe	15	4/18/2013 10:25:55 AM	cmahira_jaspi	4/18/2013 10:25:55 AM	
33.424517	-111.930943	4/5/1992 5:00:00 PM	Tampe	AZ	USA		Zoo's 1st Leg	Activity Center	http://en.wikipedia.org/16	4/18/2013 10:25:55 AM	cmahira_jaspi	4/18/2013 10:25:55 AM	

1-25 of 464 results 0 selected

30+ widgets

Home Web AppBuilder for ArcGIS Water Leak Manager App City of Naperville, IL Derek

Theme Map Widget Attribute

Billboard Theme Box Theme Dart Theme Foldable Theme

Jewelry Box Theme Launchpad Theme Tab Theme

Style

Layout

Launch Previews Save

Water Leak Manager App

Esri World Geocoder

200ft 41.777 -88.149 Degrees

Naperville, County of DuPage, Ontario Base Map, Province of On...

esri

Web AppBuilder for ArcGIS

Create new web apps without programming

Web AppBuilder for ArcGIS



- **Functionality within ArcGIS Online and Portal for ArcGIS**
 - ArcGIS Online since Dec 2014
 - Portal for ArcGIS in 10.3 and later
- **Enables new apps to be created without coding**
 - Interactive WYSIWYG user experience
 - Runs on any device, in a web browser
- **Fully integrated with the ArcGIS Platform**
- **Built with ArcGIS API for JavaScript and HTML 5 technology**
- **Extensible**



Web AppBuilder for ArcGIS - Live Sites Showcase

This group contains a collection of live web apps that were built using [Web AppBuilder for ArcGIS](#). The intent is to showcase the many different use cases that Web AppBuilder for ArcGIS can address, as well [More](#)

Tags

Accessibility ACT Parks and Conservation Service Address Agriculture Airport Runways Alabama Alaska Alberta Asset Australia Belleville Birds Directive Boone County Boone County GIS Boone County Planning Commission Bridges broken main Buildings Cadastral Calhoun California Canada Canberra Capital Improvement Plan capital plan capital program Carnegie Museum of Natural History ccpa Cities City of Kitakyushu Climate-Smart Cities Closures CMOM Collector Commercial Trucking Conditions de circulation consent decree conservation construction Construction County Cumberland County Custom Widget DC Demographics DEP Deshe developers Dojo DOT drinking water Duncan Département de la Corse du Sud Economic Development ecopeace Edmonton Engineering Facilities Farmland farms First Edition



Calhoun County Parcel Vie...
Web Mapping Application



In Your Neighborhood
Web Mapping Application



PlanNet
Web Mapping Application



Lisbon's Roadkill Informati...
Web Mapping Application



The University of the West ...
Web Mapping Application



GIS Viewer for Boone Coun...
Web Mapping Application



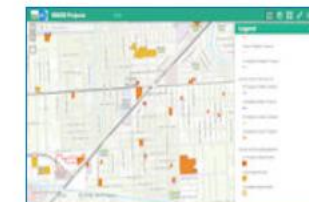
Muscatine County Iowa Inf...
Web Mapping Application



Hamilton County Indiana M...
Web Mapping Application



Land Status within the Nati...
Web Mapping Application



iWASD Projects
Web Mapping Application



Unlock Earth's Secrets - De...
Web Mapping Application



Urban Heat Risk Explorer A...
Web Mapping Application



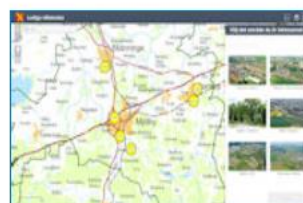
Iowa DOT Snowplows
Web Mapping Application



City of Mountain View Zoni...
Web Mapping Application



Agricultural Resources
Web Mapping Application



Lediga villatomter - Lots fo...



Grey County Economic Dev...



King County iMap



Springs of Judean Hills



City of Kitakyushu - Post yo...

Web AppBuilder for ArcGIS Live Sites Showcase

ArcGIS Online Public Group

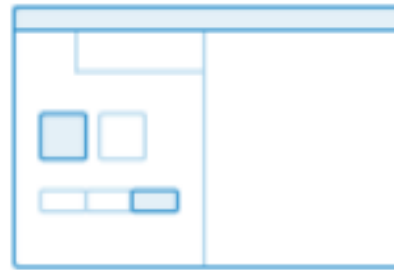
Usage of Web AppBuilder

- # of apps made in ArcGIS Online: **81,000+**
- # of Developer Edition downloads: **12,000+**
- Pre-UC Survey 2015: **70% are using it now**
- Very active user community on GeoNet
 - **Web AppBuilder for ArcGIS**
 - 8th most active
 - **Web AppBuilder Custom Widgets**
 - 6th most active
 - Custom widgets by the community: **over 2000+ downloads**

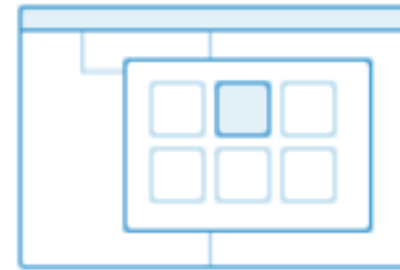
Workflow for Creating a new App



1 Create new app



2 Pick style



3 Select map



4 Add widgets



5 Configure attributes



6 Preview and publish

Demo

Web AppBuilder Tour



ArcGIS Online credentials for exercises

- **If possible, use your own ArcGIS Online org. credentials**
 - Need Admin access, or custom role with “Manage Open Data site(s)” enabled
- **If not possible, <http://pnw.maps.arcgis.com>**
 - Username: student1_pnw to student25_pnw
 - Password: student#1 to student#25

Exercise 1 – Create a Web Map

- Get logged into ArcGIS Online. You can use your own Organization user account or the one provided for the session
- <http://doc.arcgis.com/en/arcgis-online/create-maps/make-your-first-map.htm>
- If you need ideas for layers, visit here:
- http://geoinfo.msl.mt.gov/data/web_services

2 Options to Work with Web AppBuilder

1. **Within ArcGIS Online or Portal for ArcGIS**

- Embedded in the web site
- Activate from the map viewer or My Contents

2. **Developer Edition**

- Separate download and installed locally
- Sign into ArcGIS Online or Portal for ArcGIS
- Support for custom widgets and themes

- Both offer the same “builder” user experience, same capabilities

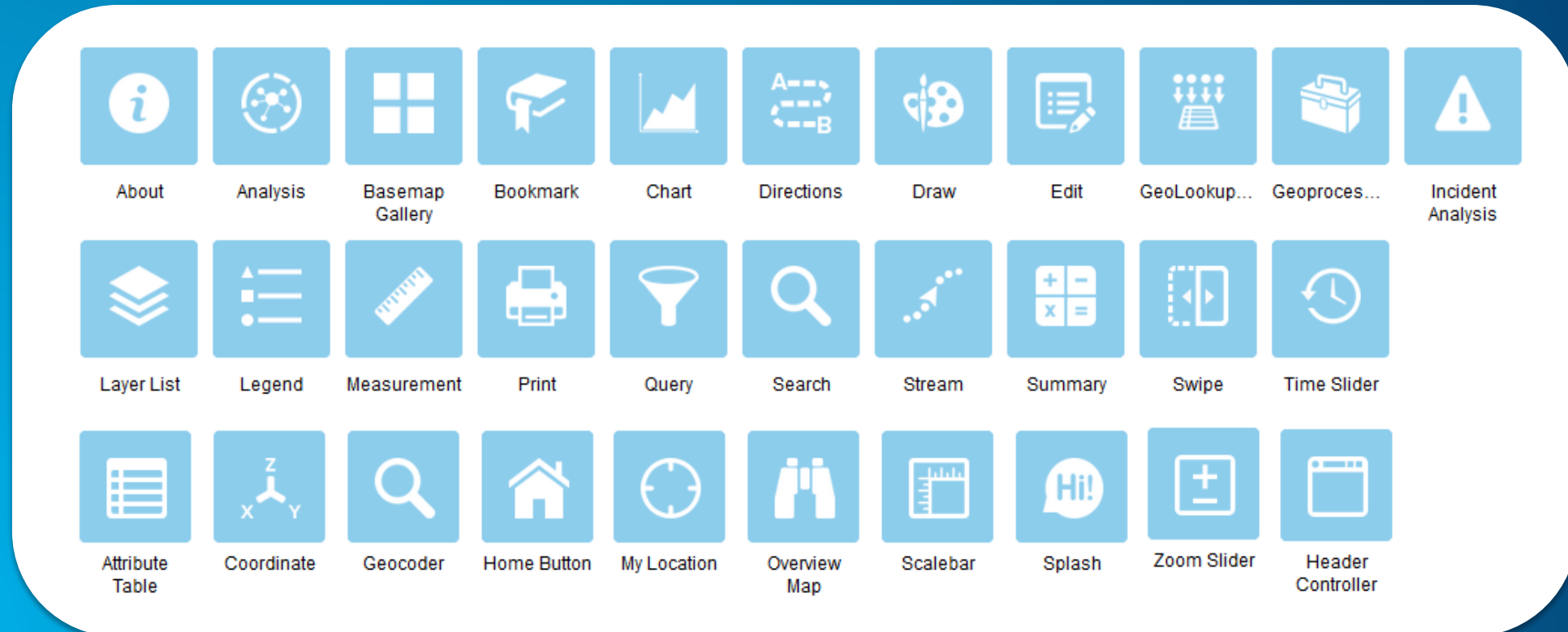


Exercise 2 – Create a Web AppBuilder App

- <http://esriurl.com/wabex2>
- <http://doc.arcgis.com/en/web-appbuilder/create-apps/make-first-app.htm>
- Create a new Web AppBuilder app and use your web map created in Ex1
- Try out some of the different themes
- Try opening what you create on your mobile device

Available Widgets

- **Widget:** a chunk of code that can be added in a modular fashion; provides functionality
- 30+ available; enable core web mapping application capabilities



Some Notable Widgets

- Navigation
- Query
- Search
- Geocoding
- Editing
- Geoprocessing
- Printing

- Legend
- Layer List
- Overview Map
- Attribute
- HeaderComponent



Exercise 3 – Configure Widgets

- Configure the Search Widget to search for features in your layer
- Add the Basemap widget
 - Add the Montana basemap to the basemap switcher
 - <http://gisservicemt.gov/arcgis/rest/services/MSL/MontanaBaseMap/MapServer>
- Try removing some scales from your map

URL Parameters

<http://doc.arcgis.com/en/web-appbuilder/manage-apps/app-url-parameters.htm>

- Open saved app
- Define web map
- Center map
- Define scale level
- Define scale
- Define extent
- Find location of feature to open map
- Add point
- Query feature
- Authenticate user

The screenshot shows the ArcGIS Web AppBuilder interface. The top navigation bar includes 'ArcGIS', 'Gallery', 'Map', 'Scene', 'Groups', 'My Content', and 'My Organization'. The user 'Scott' is logged in. The main header is 'Web AppBuilder for ArcGIS' with sub-links 'Home', 'Create Apps', 'Manage Apps', and 'Extend Apps'. A search bar is on the right. The left sidebar under 'Manage your apps' lists options: 'View and edit app', 'Use URL parameters' (highlighted), 'Export as template', 'Download app', and 'Use proxy'. The main content area is titled 'Use URL parameters' and explains that apps can be modified with URL parameters. It provides an example URL: `http://<your portal url>/apps/webappviewer/index.html?id=6815e148ff1c4aee8dc7159816380`. Below this, it says 'Encode the query parameters' and explains that all query parameters must be encoded, replacing invalid characters with their hex equivalent. It also mentions an unencoded URL parameter example.

Use URL parameters

Apps created with Web AppBuilder can be modified directly with URL parameters. The URL always begins with `<your portal url>/apps/webappviewer/index.html?` and includes one or more of the parameters listed below. To include more than one parameter, use an ampersand (&) to separate the parameters. For example:

```
http://<your portal url>/apps/webappviewer/index.html?id=6815e148ff1c4aee8dc7159816380
```

Encode the query parameters

All query parameters must be encoded. Encoding replaces invalid characters with % followed by their hex equivalent.

For example, here is an unencoded URL parameter:

In this topic

- Encode the query parameters
- Open saved app
- Define web map
- Center map
- Define scale level
- Define scale
- Define extent
- Find location of feature to open map
- Add point
- Query feature
- Switch locale
- Authenticate user

Exercise 4 – URL Parameters

- Create a URL to find features in your layer:
 - <http://pnw.maps.arcgis.com/apps/webappbuilder/index.html?id=2f572e65f64f4e07b9612c38be1d4820&find=Kodiak>

Deploy Apps on Any Device

Home Web AppBuilder for ArcGIS Water Leak Manager App Derek

Width 1024 Px Height 768 Px

iPhone6 iPhone6 plus iPhone5/5C/5S iPhone4/4S

iPad Air iPad with Retina Display The New iPad iPad Mini

Samsung Galaxy S4 Samsung Note 3 Nexus 5 Nexus 4

Nexus 7 HTC One Xiaomi 3 LG G2

Scan QR code to view application on your mobile device

Launch | < Configure | Save

Water Leak Manager App City of Naperville, IL

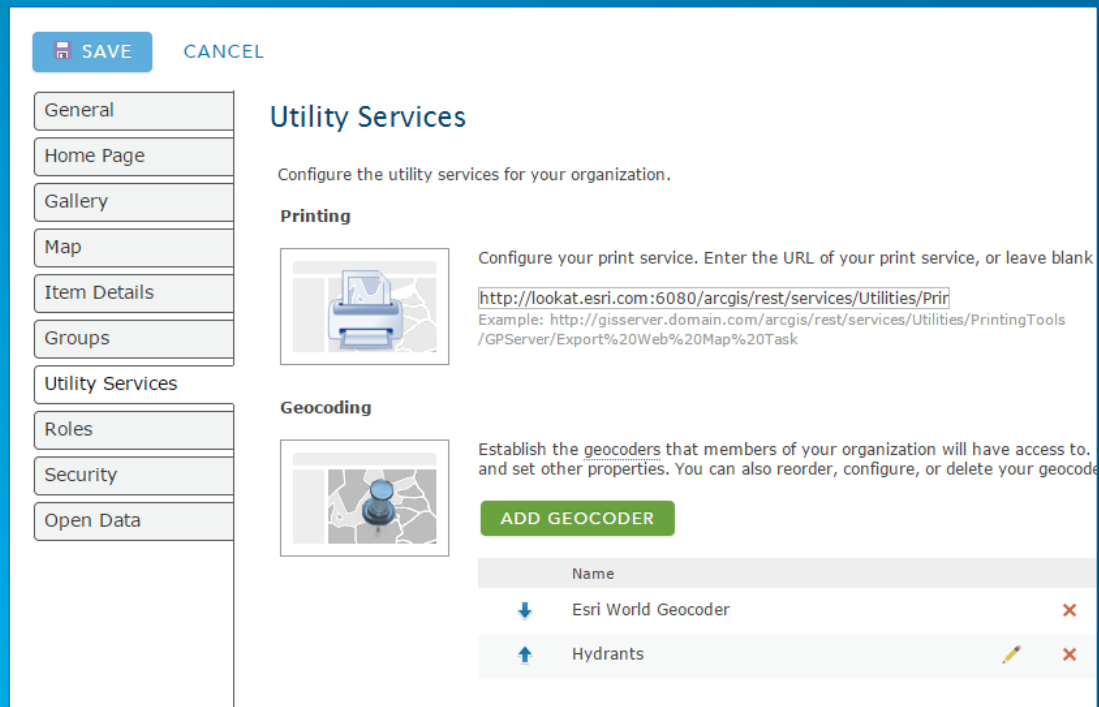
Esri World Geocoder

Map showing water leak data for Naperville, IL. The map displays a network of streets and water mains. Key features include:

- Streets: N WEBSTER ST, N MAIN ST, W FRANKLIN AVE, W 8TH AVE, W 12TH AVE, N WASHINGTON ST.
- Water Mains: 6" CAS, 8" CAS, 12" DIP, 10" UNK, 12" UNK, 4" DIP.
- Leak Markers: Red crosses with IDs (e.g., 43037, 41973, 39906, 398817, 398827, 39907, 39908, 44225, 44131, 44448, 43254).
- Map Scale: 200ft.
- Coordinates: 41.776 -88.147 degrees.
- Powered by Esri.

Leverage your organization's Utility Services

- ArcGIS Online or Portal for ArcGIS
- Organization settings panel



The screenshot shows the 'Utility Services' configuration page in the ArcGIS Organization Settings. On the left is a sidebar with navigation links: General, Home Page, Gallery, Map, Item Details, Groups, Utility Services (selected), Roles, Security, and Open Data. At the top of the main panel are 'SAVE' and 'CANCEL' buttons. The 'Utility Services' section has a sub-header 'Configure the utility services for your organization.' It contains two main sections: 'Printing' and 'Geocoding'. The 'Printing' section includes a printer icon, a text input field for a print service URL, and an example URL. The 'Geocoding' section includes a map icon with a pin, a description of geocoders, an 'ADD GEOCODER' button, and a table of existing geocoders.

Name	
↓	Esri World Geocoder
↑	Hydrants



Locators



Basemaps



Print services

Demo Utility Services

SAVE

CANCEL

General

Home Page

Gallery

Map

Item Details

Groups

Utility Services


Roles

Security

Open Data

Utility Services

Configure the utility services for your organization.

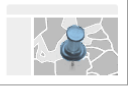


Printing

Configure your print service. Enter the URL of your print service, or leave blank.

<http://lookat.esri.com:6080/arcgis/rest/services/Utilities/PrintingTools/GPServer/Export%20Web%20Map%20Task>

Example: <http://gisserver.domain.com/arcgis/rest/services/Utilities/PrintingTools/GPServer/Export%20Web%20Map%20Task>



Geocoding

Establish the geocoders that members of your organization will have access to, and set other properties. You can also reorder, configure, or delete your geocoders.

ADD GEOCODER

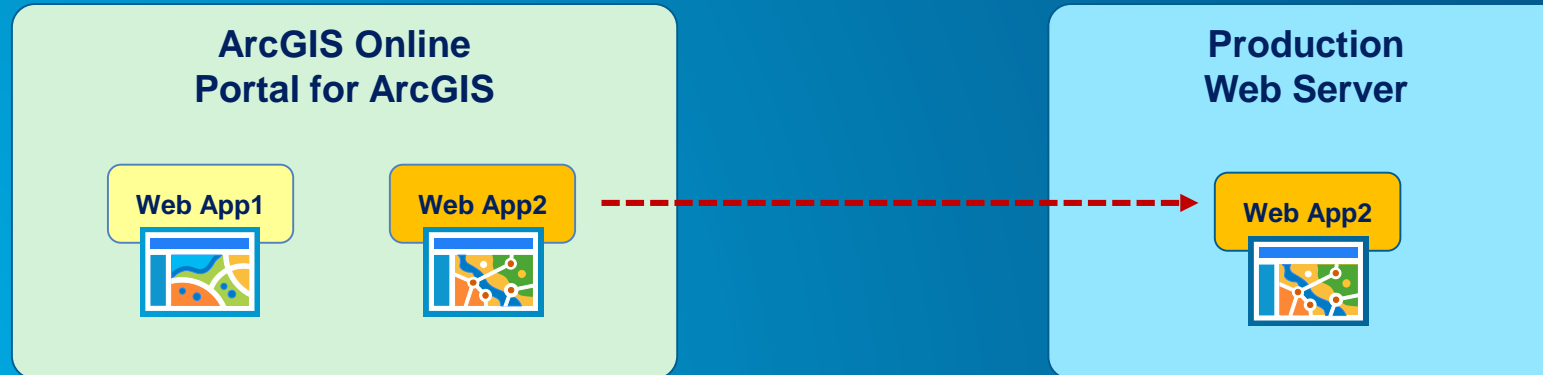
Name
↓ Esri World Geocoder ×
↑ Hydrants ✎ ×

Exercise 5 – Create an Editing Layer and Configure the Edit Widget

- Create a new editable layer in ArcGIS Online
 - My Content → Create → Feature Layer → From Template
 - Don't use "Location Tracking" template
- Add Layer to your WebMap and save
- In WAB, refresh, and add/configure the edit widget

Web Apps from Web AppBuilder

- Apps are hosted in ArcGIS Online or Portal for ArcGIS
- Become items in App author's *My Contents*
- Option to download source code for the app from Item Details page
 - Customize web app
 - Host in your own web server



Exercise 6 – Download App to Host it Locally

- Download your app and unzip to c:\inetpub\wwwroot\wab
 - You will need to create a “wab” folder in the inetpub\wwwroot location
- Access your app at <http://localhost/wab>
- For more info:
 - <http://doc.arcgis.com/en/web-appbuilder/manage-apps/deploy-app.htm>

Export Web Apps as New Templates

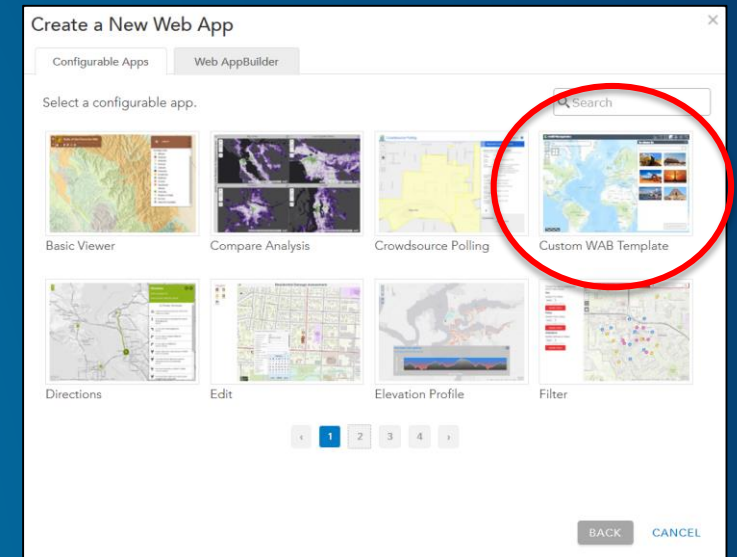
- Leverage Web AppBuilder to **create new templates** which can be used in the ArcGIS Online/Portal for ArcGIS map viewer

- **Workflow**

- Select *Export As Template* option
 - Set configurable parameters
- Generates a new template item
- Add to a group
- Select group for the Map > Web App Templates option

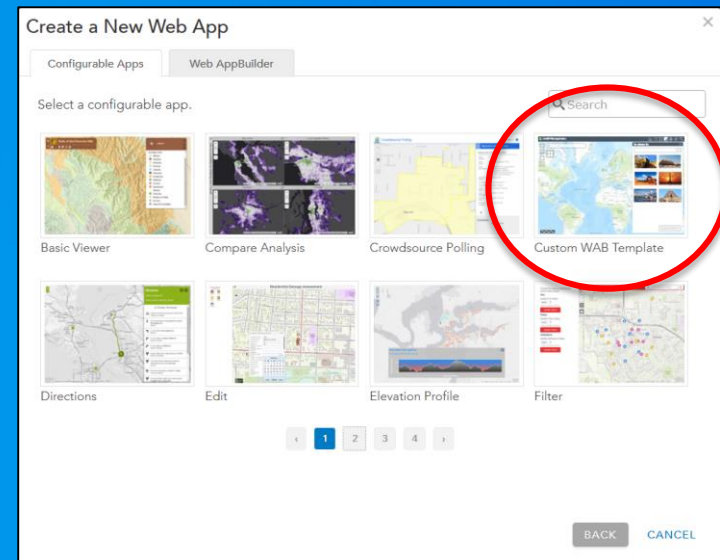


Web Map



Demo

Create New Templates



Other enhancements

- **Support for 6 new URL parameters:**
 - find a location or a feature, authenticate users, query features, add a point on the map, switch locale, and specify WKID to zoom or pan the map.
- **Ability to save app state, including map extent and layer visibility, is now automatically saved when you close your web browser.**
- **Print widget – supports custom text elements as layout metadata.**
- **Search widget – options to add placeholder text for all search sources and can search the current map extent.**
- **Attribute Table widget – updates layers accordingly when they are changed in the map.**

Recent Enhancements Continued... (March 2016)

- An improved building experience allows you to modify the map from within Web AppBuilder for ArcGIS; you no longer need to leave the app.
- You can now build 3D apps with scenes.
- Pop-up adds links to access Directions and Edit widgets directly.
- Edit widget includes a display field in setting page so that you can choose attributes for display only when performing editing.
- The Situation Awareness widget has been released. It is no longer in beta. This widget allows you to create or select an incident on the map and analyze information from feature layers either within the incident area or within a specified distance of the incident.
- Use the new Plateau theme to create a modern and minimalist-styled app with flat toolbars and widget containers.
- Use the new Near Me widget to find features near a specified location, view more detailed information about those features, and get directions to a selected feature.
- Use the new District Lookup widget to find point features related to a selected polygon, view more detailed information about the related point features, and get directions to a selected point feature.
- A new Related Table Charts widget that can be used to chart (bar or pie) values managed in a related table.
- A new Info Summary widget that can be used to summarize the number of features visible on a map and, enable clustering on point feature layers if desired.

Web AppBuilder for ArcGIS

Customization



2 Tiers of Customization

- **Enabling custom functionality – Configurator**
 - Add custom widgets to your apps
 - Non-developer
- **Extending custom functionality – Developer**
 - Create new widgets from scratch
 - Programmer



Using Custom Widgets/Themes in Your Apps

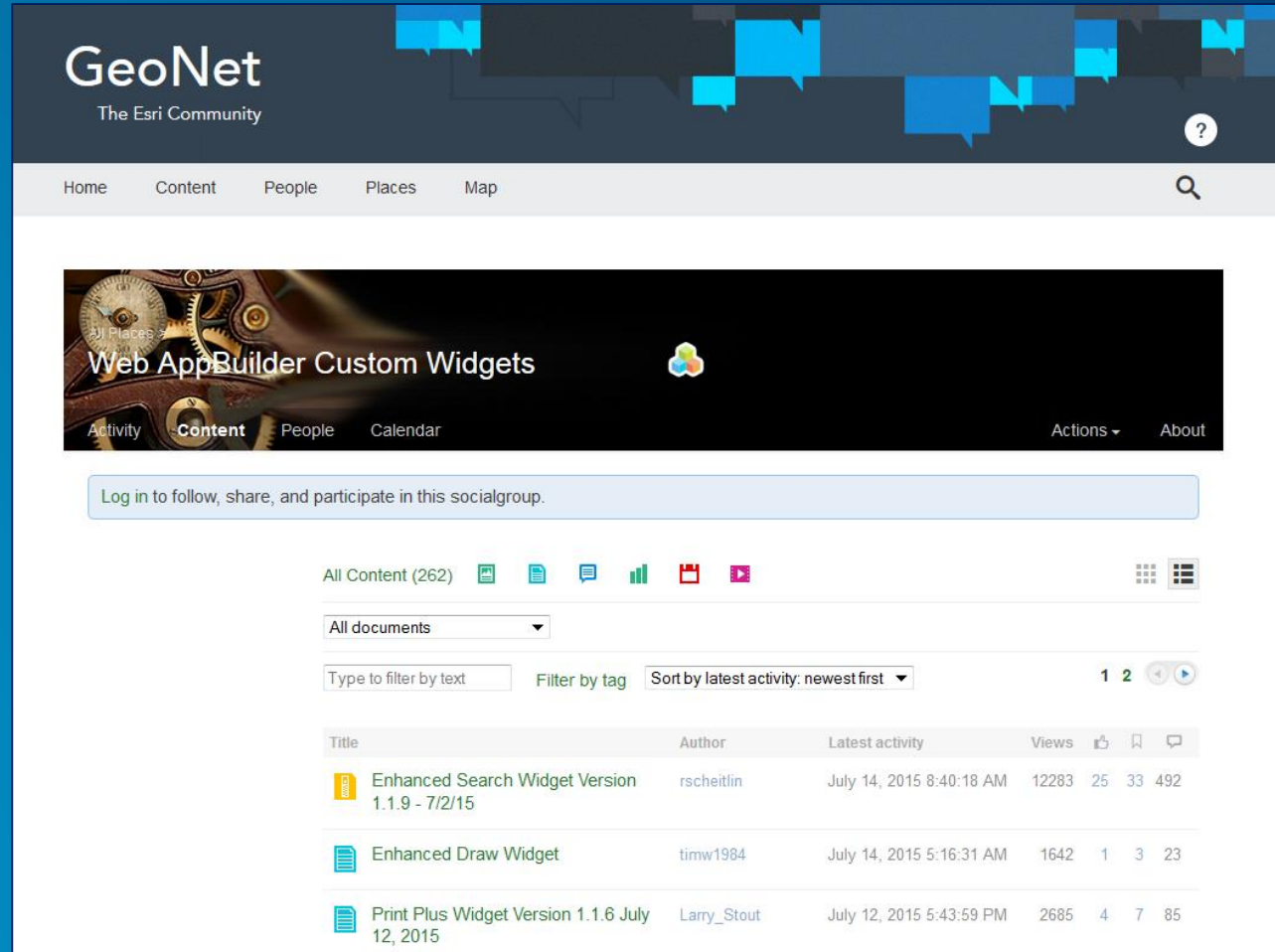
- Workflow
 - Download the source code for the app
 - Apply customizations as desired
 - **Host in your own web server**
- Help topic: [Deploy Apps](#)



GeoNet: Custom Widgets shared by Community

<https://geonet.esri.com/groups/web-app-builder-custom-widgets>

- Mixture of enhanced and brand new widgets
- Approx. 20+ widgets
- Some supporting docs



GeoNet
The Esri Community

Home Content People Places Map

Web AppBuilder Custom Widgets

Log in to follow, share, and participate in this socialgroup.

All Content (262)

All documents

Type to filter by text Filter by tag Sort by latest activity: newest first

Title	Author	Latest activity	Views	1	2	3	4
Enhanced Search Widget Version 1.1.9 - 7/2/15	rscheitlin	July 14, 2015 8:40:18 AM	12283	25	33	492	
Enhanced Draw Widget	timw1984	July 14, 2015 5:16:31 AM	1642	1	3	23	
Print Plus Widget Version 1.1.6 July 12, 2015	Larry_Stout	July 12, 2015 5:43:59 PM	2685	4	7	85	

GitHub: Esri Solutions Team – Custom Widgets

<https://github.com/Esri/solutions-webappbuilder-widgets>

- Widgets for specific workflows
- Samples

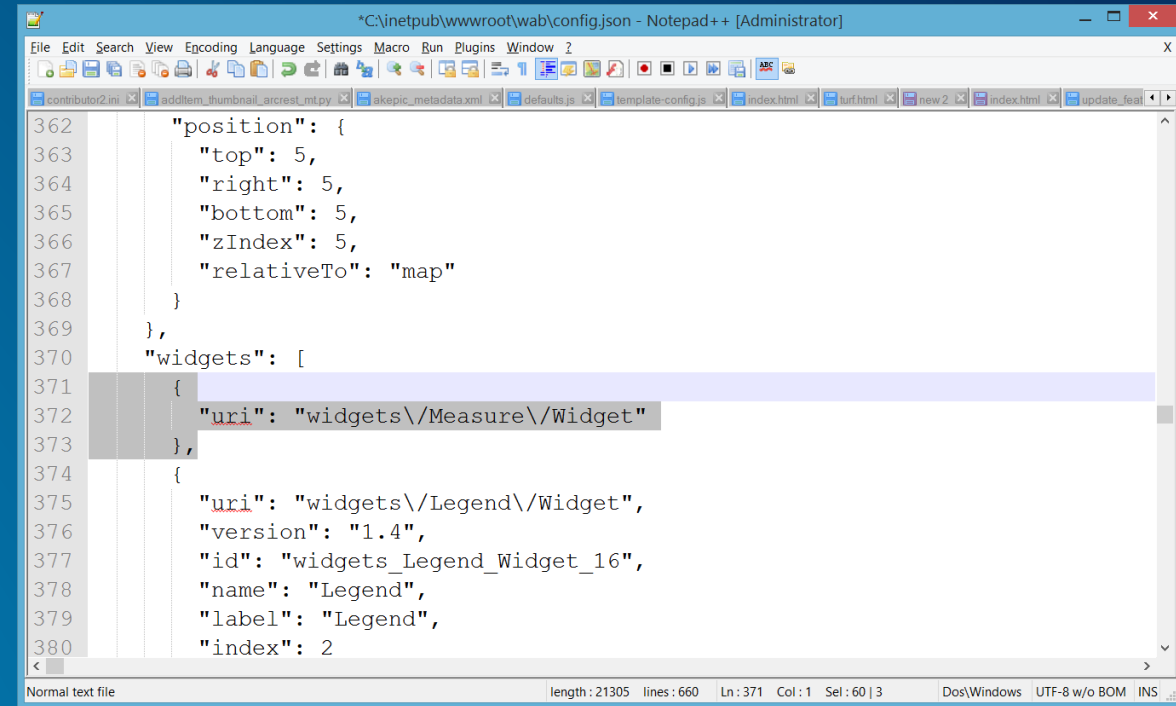
The screenshot shows the GitHub repository page for **Esri / solutions-webappbuilder-widgets**. The repository is described as "Web App Builder created and managed by the Esri Solutions teams." It has 280 commits, 6 branches, 2 releases, and 11 contributors. The current branch is **master**. A recent commit by **MikeMillerGIS** is highlighted with the message "new icons and again a manifest.json fix". Below this, a list of files and their commit messages is shown:

File	Commit Message	Time Ago
BatchAttributeEditor	Batcheditor renamed to BatchAttributeEditor	a month ago
BombThreat	fixes #170 and #172	22 days ago
CI_KR_Chart	Updating Description in manifest.json	4 months ago
CostAnalysis	new icons and again a manifest.json fix	25 minutes ago
DirectionsWithBarriers	update README.md	5 months ago
ERG	Updating Description in manifest.json	4 months ago
ElevationProfileTable	added busy cursor for LOS operation	a month ago
GeoLookup	Latest GeoLookup to match Devtopia	16 days ago

On the right side, there are links for **Code**, **Issues** (17), **Pull requests** (0), **Pulse**, and **Graphs**. At the bottom, there is a section for the **HTTPS clone URL** (<https://github.com/Esri/solutions-webappbuilder-widgets>) and buttons for **Clone in Desktop** and **Download ZIP**.

Exercise 7 – Add a Custom Widget

- There are many to choose from here:
- Or, you can use the measure widget here:
 - <https://geonet.esri.com/docs/DOC-3209>
- Open inetpub\wwwroot\wab\config.json in text editor
 - You may want to run it through JSON pretty printer for formatting
- Copy measure widget into widgets folder
- Reference the widget in the config.json



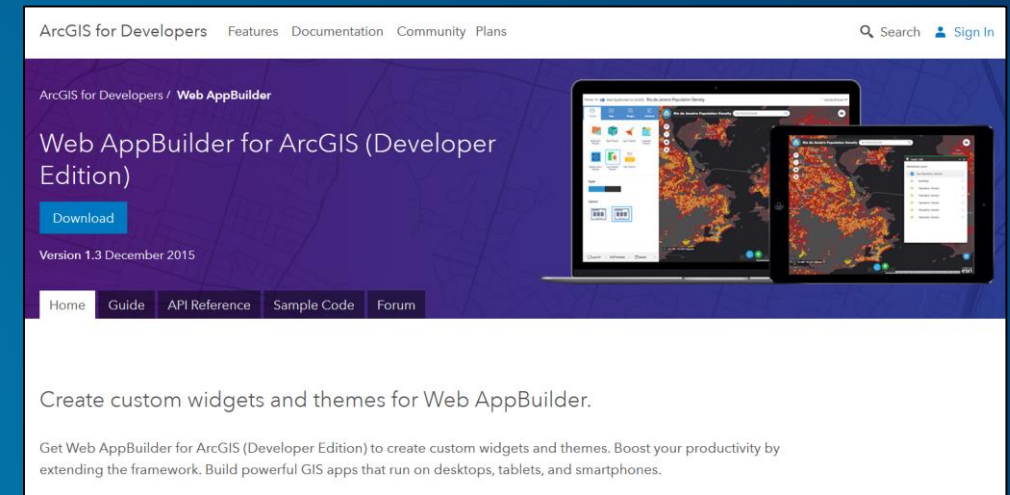
```
*C:\inetpub\wwwroot\wab\config.json - Notepad++ [Administrator]
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
contributor2.mi additem_thumbnail_arcres_tmt.py akepic_metadata.xml defaults.js template-config.js index.html turf.html new2 index.html update_fea
362     "position": {
363         "top": 5,
364         "right": 5,
365         "bottom": 5,
366         "zIndex": 5,
367         "relativeTo": "map"
368     },
369 },
370 "widgets": [
371     {
372         "uri": "widgets\Measure\Widget"
373     },
374     {
375         "uri": "widgets\Legend\Widget",
376         "version": "1.4",
377         "id": "widgets_Legend_Widget_16",
378         "name": "Legend",
379         "label": "Legend",
380         "index": 2
381     }
382 ]
Normal text file length: 21305 lines: 660 Ln: 371 Col: 1 Sel: 60 | 3 Dos\Windows UTF-8 w/o BOM INS
```

Web AppBuilder Developer Edition

Developers.ArcGIS.com/web-appbuilder



- **Download and install locally**
 - Sign into ArcGIS Online or Portal for ArcGIS
 - Same “builder” user experience as embedded Web AppBuilder
 - Work with custom widgets and themes
- Provides extensibility framework for apps
- Leverages ArcGIS API for JavaScript
- Create web apps on your own computer



Web AppBuilder for ArcGIS Components



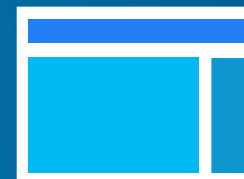
Widget

- HTML/JavaScript/CSS (appearance)
- Specific task (functionality)
- Configuration in JSON
- Localization support
- Builder configuration UI



Theme

- HTML/JavaScript/CSS
- Layout
- Branding
- Widget panel and behavior
- Style (color, etc.)
- Default widgets



Web AppBuilder for ArcGIS

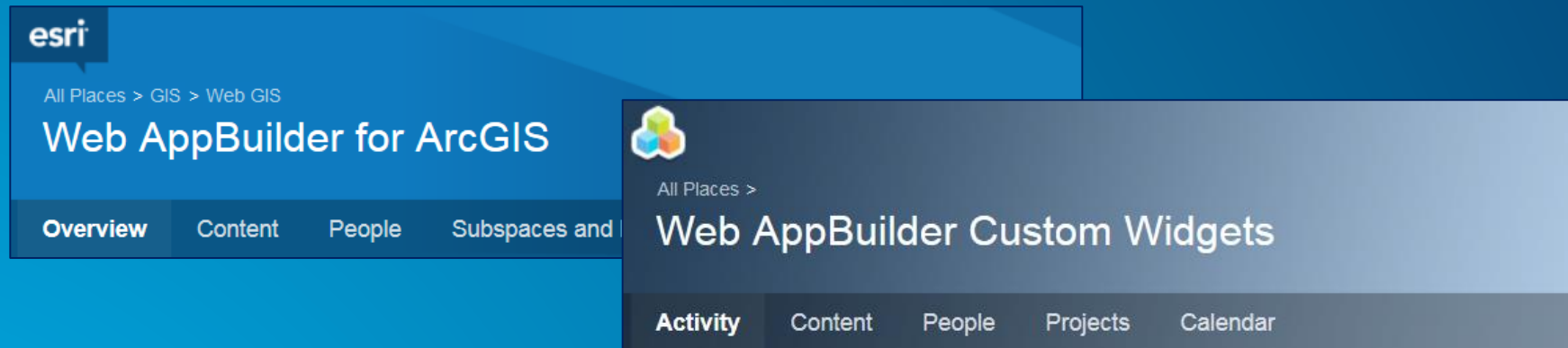
Community and Resources



GeoNet – Esri Community



- 2 places for Web AppBuilder user community



- Both are very active
- Top GeoNet contributors post in these forums/places

GeoNet: Web AppBuilder Developer Edition – Customization Resource List

<https://geonet.esri.com/blogs/myAlaskaGIS/2015/02/20/web-appbuilder-developer-edition-customization-resource-list>

- Created, owned, and maintained by the community
- Rebecca Strauch

The screenshot shows the GeoNet website interface. At the top is the GeoNet logo with the tagline 'The Esri Community'. Below the logo is a navigation bar with links for Home, Content, People, Places, and Map, along with a search icon. The main content area displays a breadcrumb trail: 'All People > rastrauch > Rebecca's GIS in Alaska > 2015 > February > 20'. Below this is the blog post header 'Rebecca's GIS in Alaska' with a small icon and a play button. The post title is 'Web AppBuilder Developer Edition - Customization Resource List', accompanied by a globe icon. The author information states 'Posted by rastrauch in Rebecca's GIS in Alaska on Feb 20, 2015 3:56:04 PM'. The post content begins with a note in parentheses: '(....working on some reformatting and cleanup....always....but still adding new content so look for Update date)'. The main text describes the resource list as a living document of custom widgets, code tweaks, and help docs, noting its rapid expansion and the need for updates. It suggests following specific areas or groups for updates and mentions an 'Inbox' for notifications. The post is dated 'Posted: 2/20/2015 (follow as "InBox" to get update notifications)'. On the right side of the post, there are 'IMPACT METRICS' showing 'Global Reach' at 13% (represented by 13 human icons, with 2 highlighted in green), 'Impact' at 202, and 'Sentiment' as 'Positive 5'. A 'View more' link is provided. Below the metrics is a 'FILTER BLOG' section with a 'By date:' filter showing a list of dates: January 2016, December 2015, November 2015, and October 2015.

Road Ahead

- **Web AppBuilder Developer Edition 2.0 Just Released**
 - <https://blogs.esri.com/esri/arcgis/2016/03/31/web-appbuilder-for-arcgis-developer-edition-v2-0-now-available/>
 - Will support 3D scene services and web scenes
- **Next ArcGIS Online update: June 2016**

***Not final – Content subject to change**



Web AppBuilder for ArcGIS Resources

- **Online help documentation**
<http://doc.arcgis.com/en/web-appbuilder/>
- **Developer Edition help documentation**
<https://developers.arcgis.com/web-appbuilder/guide/xt-welcome.htm>
- **Esri Live Training Seminar: *Get Started with Web AppBuilder for ArcGIS (60 mins)***
- **Esri Web course: *Creating Web Applications Using Templates and Web AppBuilder for ArcGIS (2-4 hours)***

Summary

- Product overview
- Web AppBuilder for ArcGIS tour
- What's New – November 2015 ArcGIS Online update
- Customization
- Community and Resources
- Summary





Understanding our world.