

# ArcGIS Web App Builder (AWAB)

In BETA

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# ◆ Some Basic Facts

- For Javascript web mapping applications
- Do not confuse with “web map” builder in ArcGIS Online. This is “web **app**” builder.
- Been in development since September 2013
- Uses only HTML, CSS, Javascript, Dojo Framework
- Beta premiered at ESRI Developers’ Summit in Washington, DC February 2014 and main one in Palm Springs, 2014
- Similar to ESRI’s Flex and Silverlight Builders in “idea”.
- Final release of AWAB set for “3<sup>rd</sup> quarter”, 2014.
- Users and developers must use Internet Explorer 10.0 and above

# ◆ The Pros

- Responsive Design
  - Can test various form factors in AWAB during design
  - Configuring widgets based on “stem widget” to maintain responsiveness.
- Easy configuration of application, right out-of-the-box for even non-developers.
- Beta is already (decently) robust

# Pros Continued

- AWAB has many of the desired, standard mapping widgets, **ready to go!**
  - Legend
  - Layer List
    - Zoom to layer
    - Adjust layer transparency
    - Move up or down among other layers
    - Open attribute tables
    - Go to layer descriptions (ArcGIS REST info)
    - Choice to show legend in Layer List
  - Bookmarks
    - Add preconfigured ones (manually or by JSON)
    - User/client bookmarks during map viewing session
  - Print
    - User added map title
    - Portrait/landscape in three sizes
    - MANY image format options (PDF, JPEG, PNG)
    - Advanced printing options (preserve scale, DPI, etc)

# Pros Continued

- Widgets:
  - Search tool (configurable to search on any field and list any field)
  - Query tool (similar to search)
  - Drawing tool
    - Static or freehand points, lines, polygons
    - Ability to change colors and outlines
    - Ability to show measurements in a drawing
  - Measure tool (similar to iMap template and ESRI example)

# Pros Continued

- Even **MORE** widgets provided right out-of-the-box!
  - Basemap gallery
  - Charting
  - Directions
  - Geoprocessing
  - Histogram time slider (if map is “time enabled”)
  - Editing (if map has ability)
  - Attribute table
  - Add your own geocoder (for search location box)
  - Scale bar
  - Find “my location”
  - Provide coordinates
  - Home button
  - Provide scalebar
  - Provide overview map

# Pros Continued

- Ability to choose themes and layouts
  - Ability to add a theme (developers)
- Ability for a developer to “configure the configuration”
  - Design templates besides web applications
  - Custom design widgets within the AWAB
- ESRI will most likely provide web forums and space for users and developers to seek help and share widgets, themes, etc. (similar to what’s there for Flex and Silverlight builders).

# ◆ The Cons

- AWAB is intended for ArcGIS Online and ArcGIS Portal users **only**
  - No direct REST map from ArcGIS Server
- AWAB will be a part of ArcGIS Online and ArcGIS Portal
  - Not “stand alone” as the beta is now

# Cons Con't

- Compared to the iMap Template, the beta AWAB (out-of-the-box, that is) does not ....
  - Add REST mapping services (via JSON)
  - Add and include multiple REST services from a portal (e.g., Add Data tab)
  - Have movable floating panes (e.g., query/search)
  - Have ability to download search data (e.g., CSV file)
  - Have the ability to add shapefiles (e.g., Interoperability Tool)
  - Provide map description area

# ◆ Some Current Bugs/Issues

- Issues when designing in Firefox (logo image)
- Home button not included in all themes
- Documentation still in the works
- 1000 record limit in AWAB

# ◆ What's to Come...

- Maybe a “Beta 2.0” before 3<sup>rd</sup> quarter, 2014
- Additional “3D” capability once Javascript 3D API is released
- Fully employed within ArcGIS Online and ArcGIS Portal
- Continued exploration of iMap template and review of AWAB for our use.

# ◆ What This Means for Us...

- Should work nicely with endeavors of iMap 2.0
  - Most maps are already in ArcGIS Online.
  - Those who really need a responsive but basic map app can readily get going.
- A developer should be able to further configure AWAB or an AWAB designed application to match the best parts of the MD iMap template.

# ◆ Short Demo

- List of AWAB produced prototype interactive maps (2):
  - <http://204.145.182.26/AWAB/>
- **Prototypes:**
  - Maryland Coastal Atlas:
    - [http://204.145.182.26/AWAB/Maryland Coastal Atlas/](http://204.145.182.26/AWAB/Maryland_Coastal_Atlas/)
  - Monthly ADP in School Nutrition Programs:
    - <http://204.145.182.26/AWAB/ADP/>

# ◆ Links

- ESRI AWAB video presentation
  - <http://video.esri.com/watch/3211/web-app-builder>
- ESRI proceedings
  - <http://proceedings.esri.com/library/userconf/index.html>  
(search here for information on the latest about AWAB and other ESRI technologies), of particular value:
    - <http://proceedings.esri.com/library/userconf/devsummit14/index.html>
    - <http://proceedings.esri.com/library/userconf/devsummit14/papers/dev-023.pdf>

What do you think? Questions? Comments?

Thanks!

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