Web AppBuilder for ArcGIS: Advanced Development Tools and Techniques

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Agenda

- Web AppBuilder as a Framework
- Web AppBuilder Widget Generator
- Web AppBuilder - Builds
- Best Practices
- Q & A
Builder experience is powerful
WSIWG builder adds complexity
Easy for configurators = harder for developers
Generators automate this extra work for us
Scaffold out boilerplate code
Install / configure tools to automate tasks
Web AppBuilder is a Framework
Heavy use of convention
Yo esri-appbuilder-js

Welcome to the ArcGIS Web AppBuilder.

These generators should be run in the root folder of your project.

Type of widget(s) to be generated: 2D
Web AppBuilder install root: C:\Users\gavi16895\Documents\Projects
Web AppBuilder application: 6
Would you like to use SASS for CSS preprocessing? Yes
create .editorconfig
create .babelrc
Installs tools to transpile and copy to WAB folder
Subgenerator to scaffold out widget files
New Features

- TypeScript widgets
- Builds
- LiveReload
- Bug Fixes and Minor improvements
Build for Production

https://github.com/gbochenek/esri-wab-build
Demo
Best Practices

Become a WAB All Star
Source Control

Save your code
Only save your code
...but it's hard, and I don't have time

- Write tests before features
- Estimate test writing as part of your design process
- Start small
- Only test your code
Wrapping Your Widgets

- More Portability
- Better Tests
- Easier Tests
- More Sanity
Demo

https://github.com/gbochenek/wab-test-example
Related Talks

Javascript Applications for the Enterprise: Building for Production
- Thursday // 5:30 - 6:30
- Pasadena / Sierra / Ventura
- George Bochenek / Randy Jones

Web Development: The Road Ahead
- Friday // 10:00 - 11:00
- Primrose B
- Jeremy Bartley / Andy Gup
Resources

- Widget Generator: https://github.com/Esri/generator-esri-appbuilder-js
- Build Tool: https://github.com/gbochenek/esri-wab-build
- Unit Testing Example: https://github.com/gbochenek/wab-test-example
- Finding Great Widgets
  - Geonet: Web AppBuilder Custom Widgets Group
  - WAB Widget Search
  - ArcGIS CodeSharing
- Documentation, Download, and Support:
  - developers.arcgis.com/web-appbuilder
  - developers.arcgis.com/javascript
Thank You! Any Questions?

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Two handles

These slides, sample code, and links are at:

esriurl.com/wabtools2018

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