



# Creating Optimized Builds of the ArcGIS API for Javascript

Lloyd Heberlie

Rene Rubalcava



# Agenda

- **Introductions**
- **Web Optimizer**
- **Bower**
- **Other considerations**
- **Questions**



# Web Optimizer

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Demonstration

# Web Optimizer

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# Summary

- **Build options**
- **Publish to CDN**
- **Application benefits**



# Bower Power

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# What is Bower?

- A JavaScript package manager
- <https://github.com/esri/arcgis-js-api>
- `bower install arcgis-js-api`

# Why Bower?

- **Easier to manage the dependencies**
- **Tooling fits with the build system**



# What do I get?

- **Minified, but unbuilt JavaScript API**
- **Source Sass files for 4.0**
- **Unminified source for Widget Views**

# Custom builds

- Demystifying the Dojo build system... *\*kinda\**
- Using RequireJS for custom builds
- Key points you should know

# Frustrations

- **Why can't I just ...**
  - `npm install` **the API**
  - **Use Webpack**
- **Why is the download so big?**

# Pros / Cons

- **Over optimization**
- **HTTP2 benefits**
- **CDN hosted on HTTP2 server**

Demonstration

# Show me the goods

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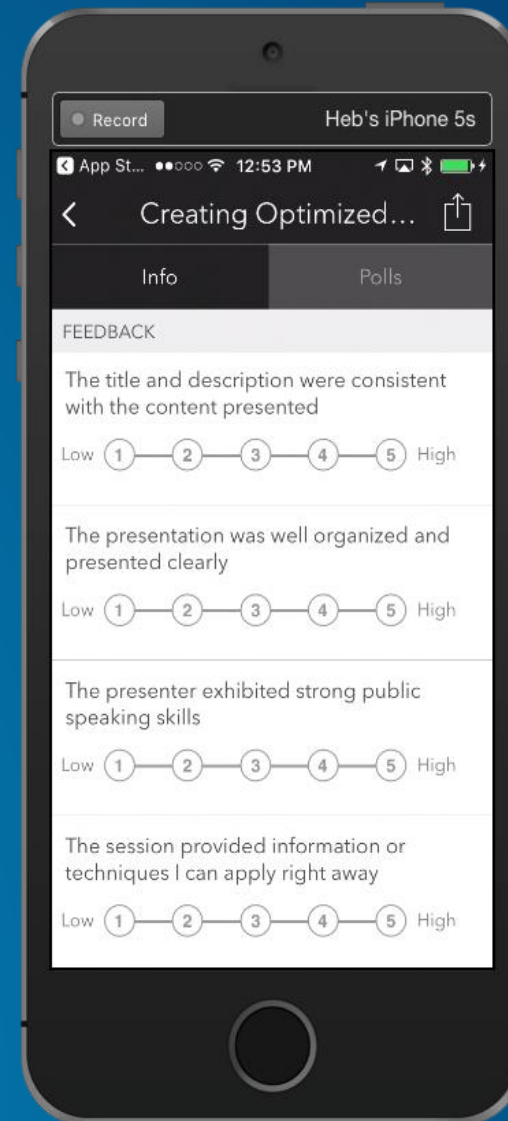
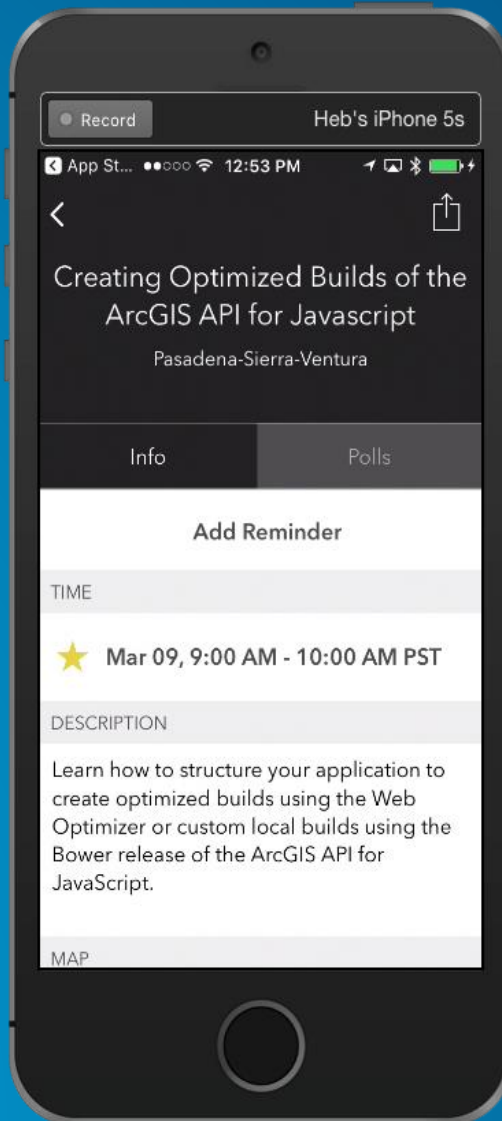
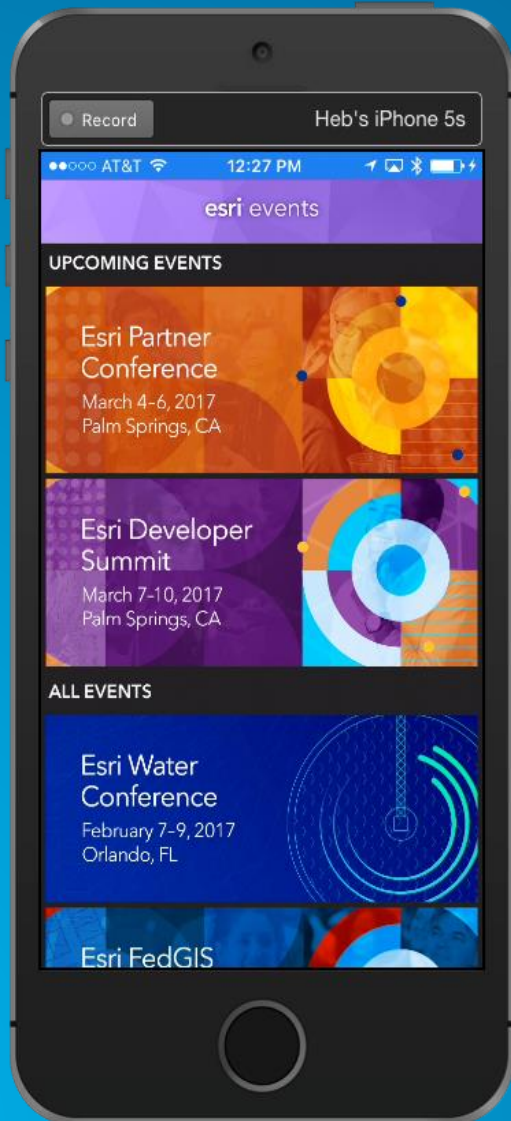
# Other considerations

- **Data generalization**
- **Gzip compression**
- **File minification**

# Questions?

- <https://github.com/Esri/jsapi-resources/tree/master/bower>
- <https://github.com/lheberlie/web-optimizer-js>
- [https://developers.arcgis.com/javascript/jshelp/inside\\_web\\_optimizer.html](https://developers.arcgis.com/javascript/jshelp/inside_web_optimizer.html)
- [https://developers.arcgis.com/javascript/jshelp/inside\\_bower\\_custom\\_builds.html](https://developers.arcgis.com/javascript/jshelp/inside_bower_custom_builds.html)
- <https://github.com/Esri/enterprise-build-sample-js>
- <https://github.com/gbochenek/web-app-builder-build>

# Session Feedback







esri

THE  
SCIENCE  
OF  
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