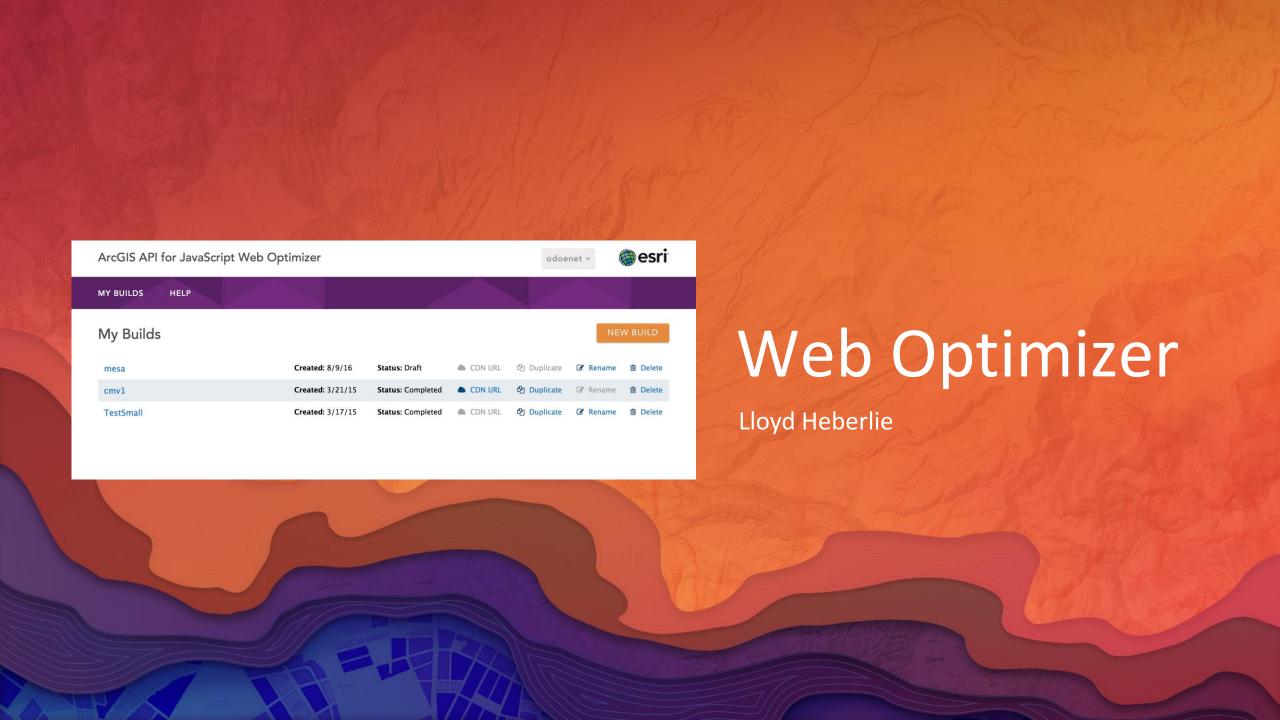


Agenda

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



Why?

- AMD Asynchronous Module Definition
- AMD loader
- CDN is a canned build
- Initial load times
- Mobile specific apps

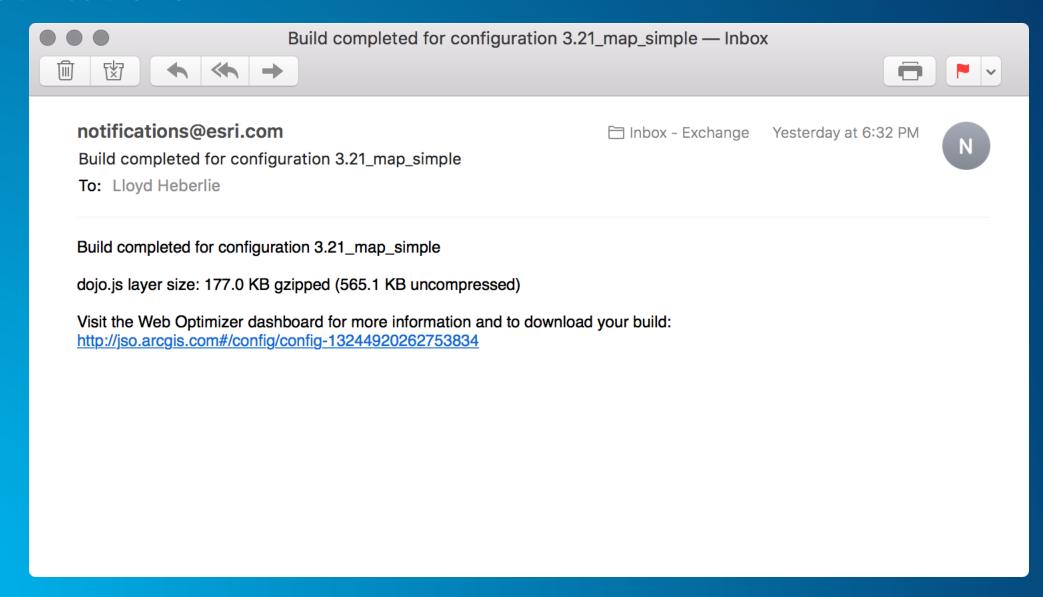
Build options

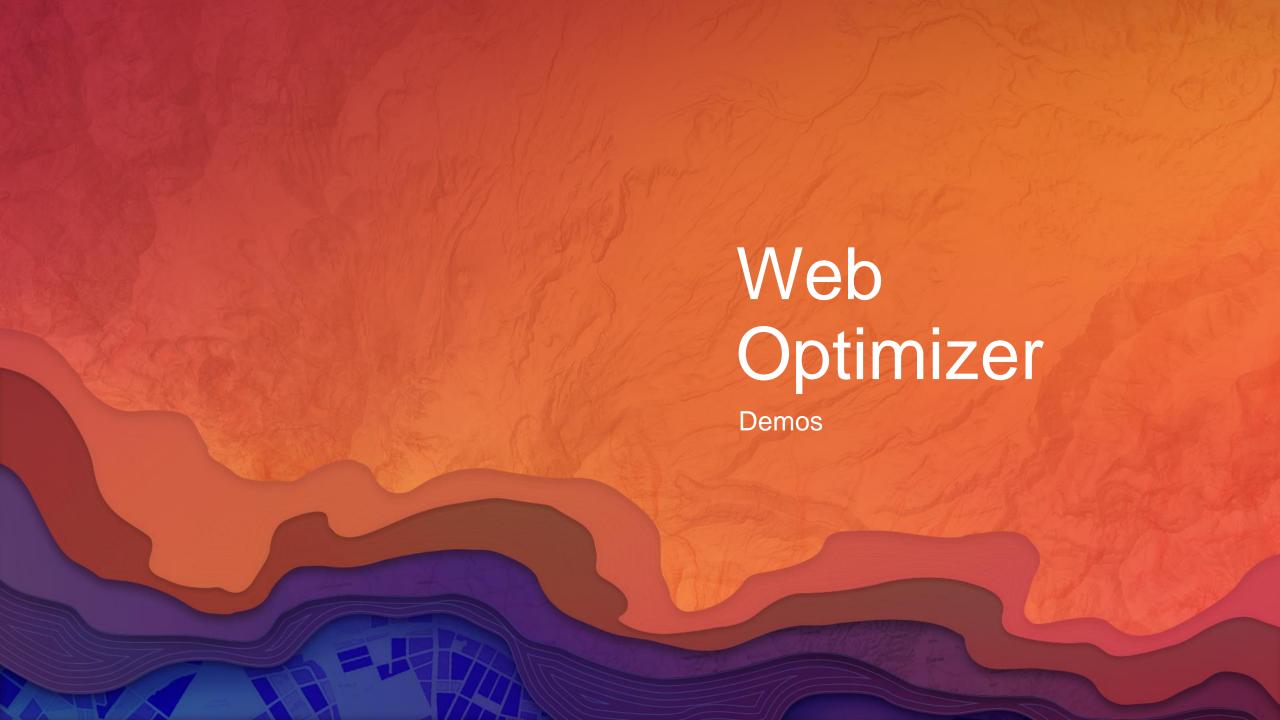
- Zipped app
- URL scrape
- Module list
- Manual selection

Module list magic

- Traverse your application's files
- Parse the network waterfall HAR file
- Shell grep
- Manually maintenance

Notifications





Additional considerations

- Lazy loading of modules
- Removing to many files 404 potential
- Removing locales page fails to load
- Be ready to troubleshoot
- Mobile hybrid build considerations

Summary

- Build options
- Publish to CDN
- Application benefits





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Options

- A JavaScript package manager
- https://github.com/esri/arcgis-js-api
- bower install arcgis-js-api
- npm install arcgis-js-api coming soon
- yarn add arcgis-js-api coming soon
 - Can do this now, guide

Options

- Bower
 - Easier to manage the dependencies
 - Tooling fits with the build system
- NPM
 - You already have it
- Yarn
 - Can install packages with custom names

What do I get?

- Minified, but unbuilt JavaScript API
- Source Sass files for 4.x
- Unminified source for Widget Views

Custom builds

- Demystifying the Dojo build system... *kinda*
- Using RequireJS for custom builds
- Key points you should know
- ES6 and Rollup

Frustrations

- Why can't I just ...
 - Use Webpack (working on it)
- Why is the download so big?

Pros / Cons

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

arcgis-js-api

A minified, unbuilt version of the ArcGIS API for JavaScript to be used with bower.

Features

A minified, unbuilt version of the ArcGIS API for JavaScript. You can install this repo via bower and create your own custom builds with Dojo or RequireJS.

Instructions

Building an ArcGIS API for JavaScript application requires signing up for an ArcGIS account.

bower install arcgis-js-api

Requirements

To install and use as a bower installation:

- node
- git
- bower

This repo has dependencies on the following repos.

Show me the goods

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Other considerations

- Data generalization
- FeatureLayer considerations
- Indexes on query fields
- 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_bower_custom builds.html
- https://github.com/Esri/enterprise-build-sample-js
- https://github.com/gbochenek/web-app-builder-build

Session Feedback



