



ArcGIS API for JavaScript: Building Apps with Angular

Andy Gup and Eric Paitz

2021 ESRI
DEVELOPER SUMMIT

Introduction

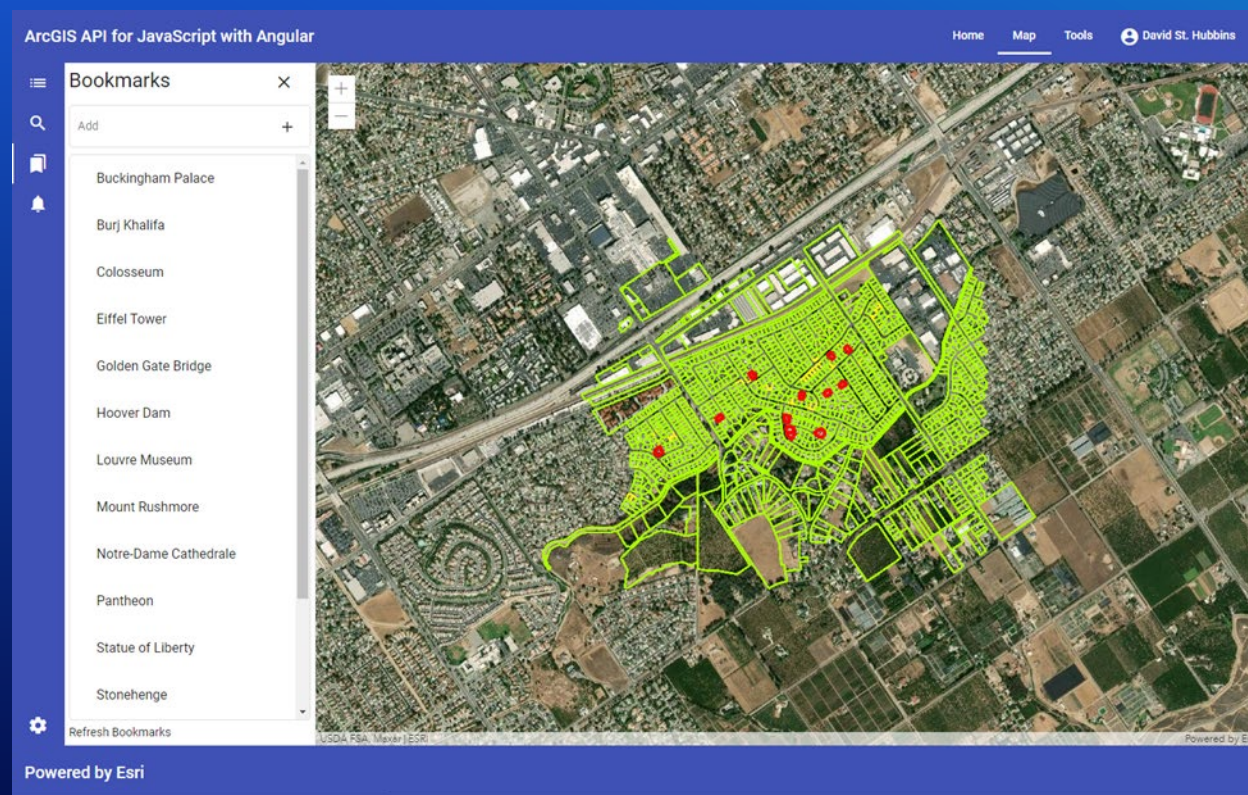
- **Advanced discussion: ArcGIS JS API 4.18+ with Angular 11**
- **For deployments \leq JS API 4.17 use `arcgis-webpack-plugin` or `esri-loader`**
- **New ES modules – `npm install @arcgis/core@latest`**
- **Very basic sample – <https://github.com/Esri/jsapi-resources/esm-samples>**
- **Caveats**
 - There are many different ways to do things in Angular

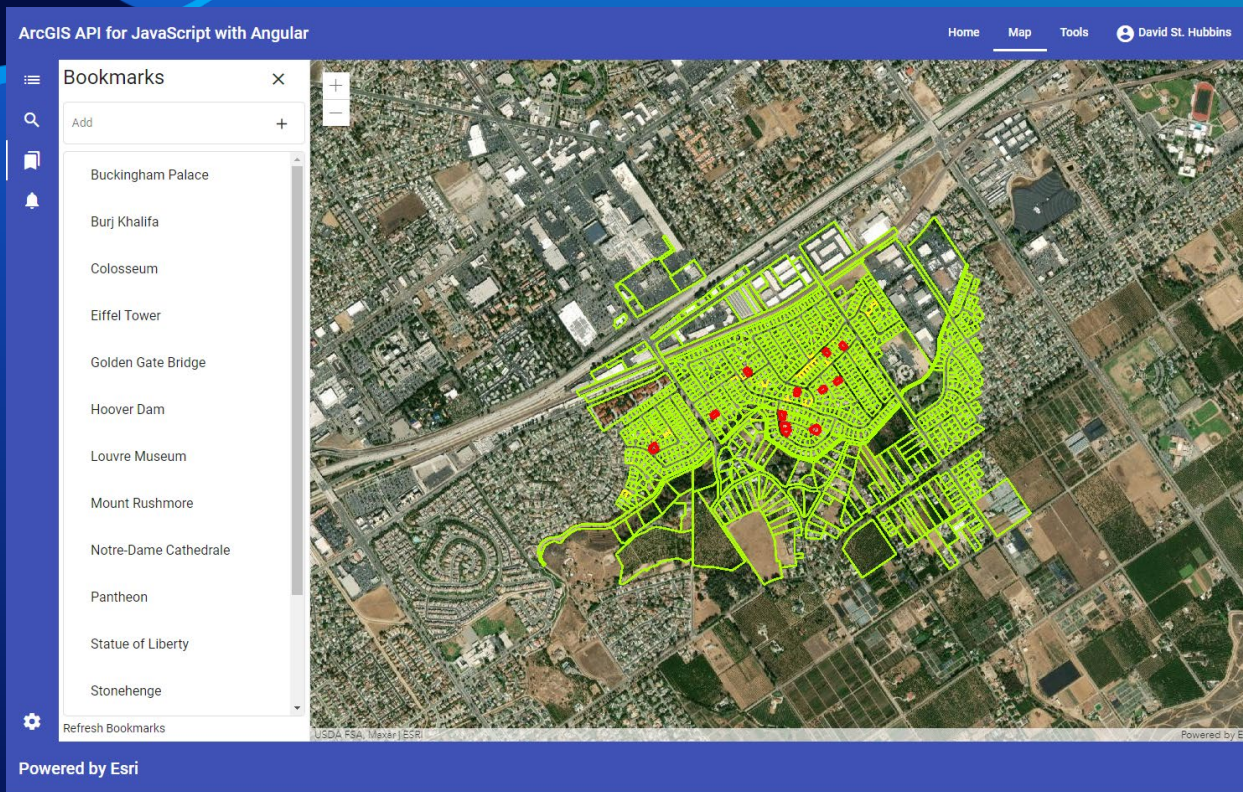
Demo Projects

<https://github.com/epaitz/jsapi-angular-ds2021>

<https://github.com/epaitz/jsapi-angular-ngrx-ds2021>

- Angular
- Angular Material
- Angular Flex-Layout
- Angular In-Memory Web API
- ArcGIS JavaScript API (v4.18)
- NgRx State Management
- Jasmine Testing
- Jasmine Marbles
- Karma Code Coverage

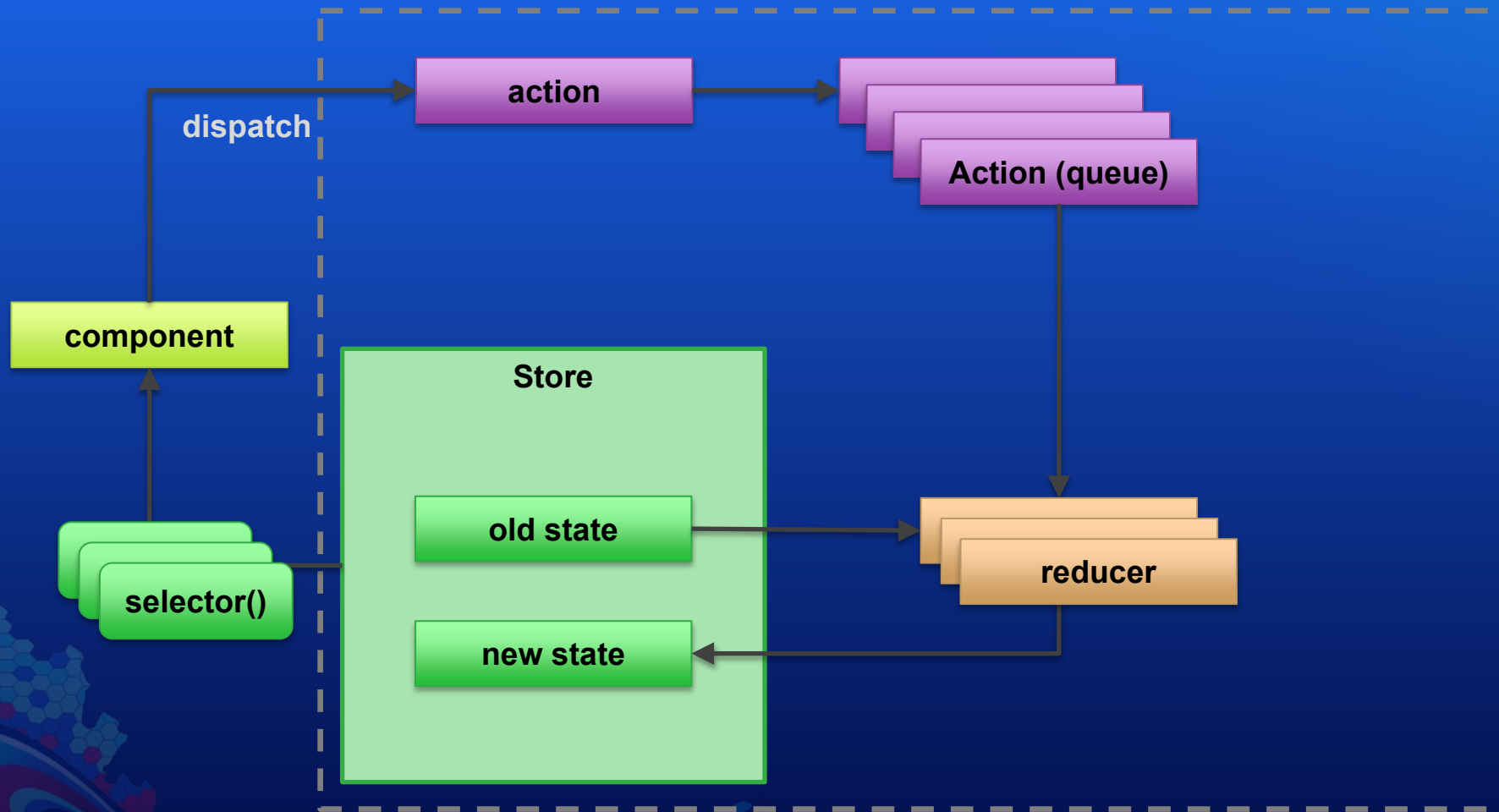




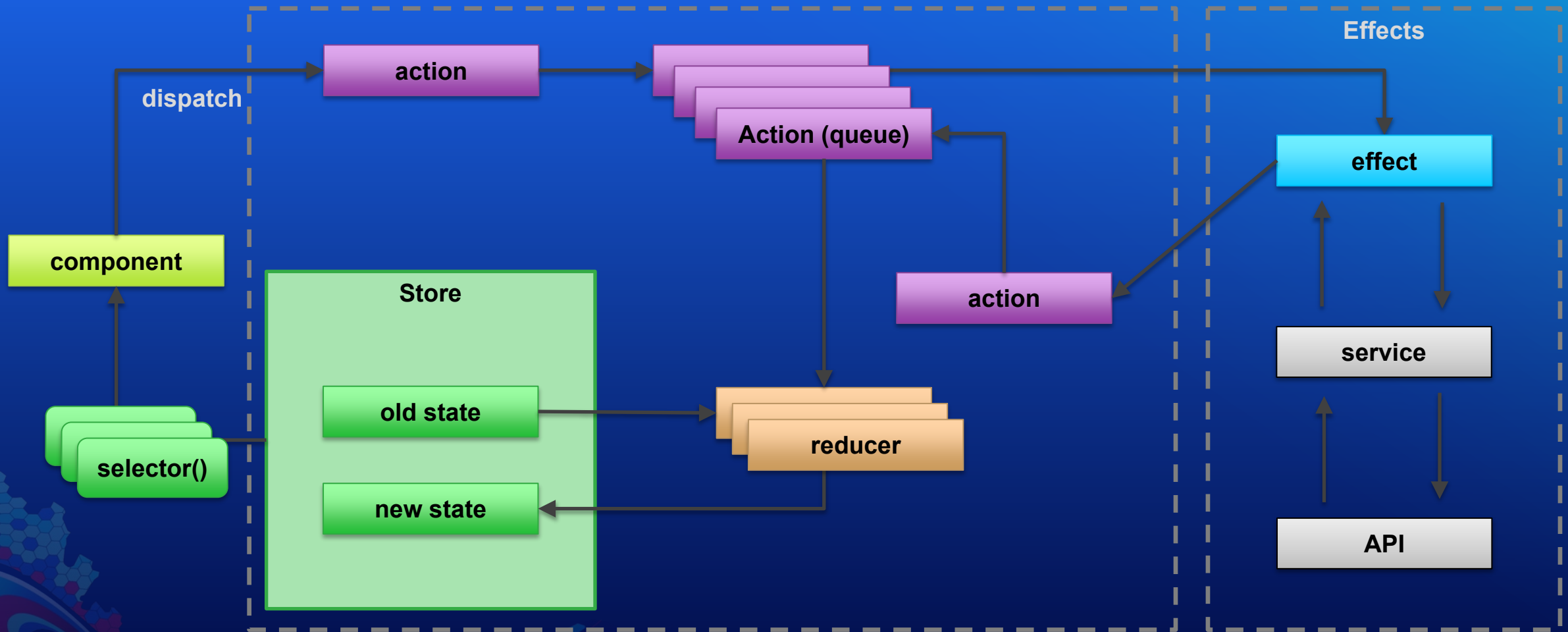
Quick look at the demo application

Eric Paitz

Basic flow of NgRx



Basic flow of NgRx with Effects



Important Links

Github repos for this presentation:

- <https://github.com/epaitz/jsapi-angular-ds2021>
- <https://github.com/epaitz/jsapi-angular-ngrx-ds2021>

Basic starter apps - <https://github.com/Esri/jsapi-resources/tree/master/esm-samples>

- Starter apps for a variety of frameworks and module bundlers.

@arcgis/core - <https://www.npmjs.com/package/@arcgis/core>

Interesting Links

Comprehensive Guide to Higher-Order RxJs Mapping Operators: `switchMap`, `mergeMap`, `concatMap` (and `exhaustMap`)

<https://blog.angular-university.io/rxjs-higher-order-mapping>

I switched a map and you'll never guess what happened next

<https://www.youtube.com/watch?v=rUZ9CjcaCEw>

NgRx Effects: A Case for Returning a No-Op Action

<https://www.intertech.com/ngrx-effects-a-case-for-returning-a-no-op-action>

Understanding a large scale angular app with @ngrx

<https://medium.com/default-to-open/understanding-a-large-scale-angular-app-with-ngrx-80f9fc5660cc>

Contact Information

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