

MAINTAINABLE ENTERPRISE APPS

ANGULAR + REDUX

USE THE RIGHT TOOL FOR THE JOB



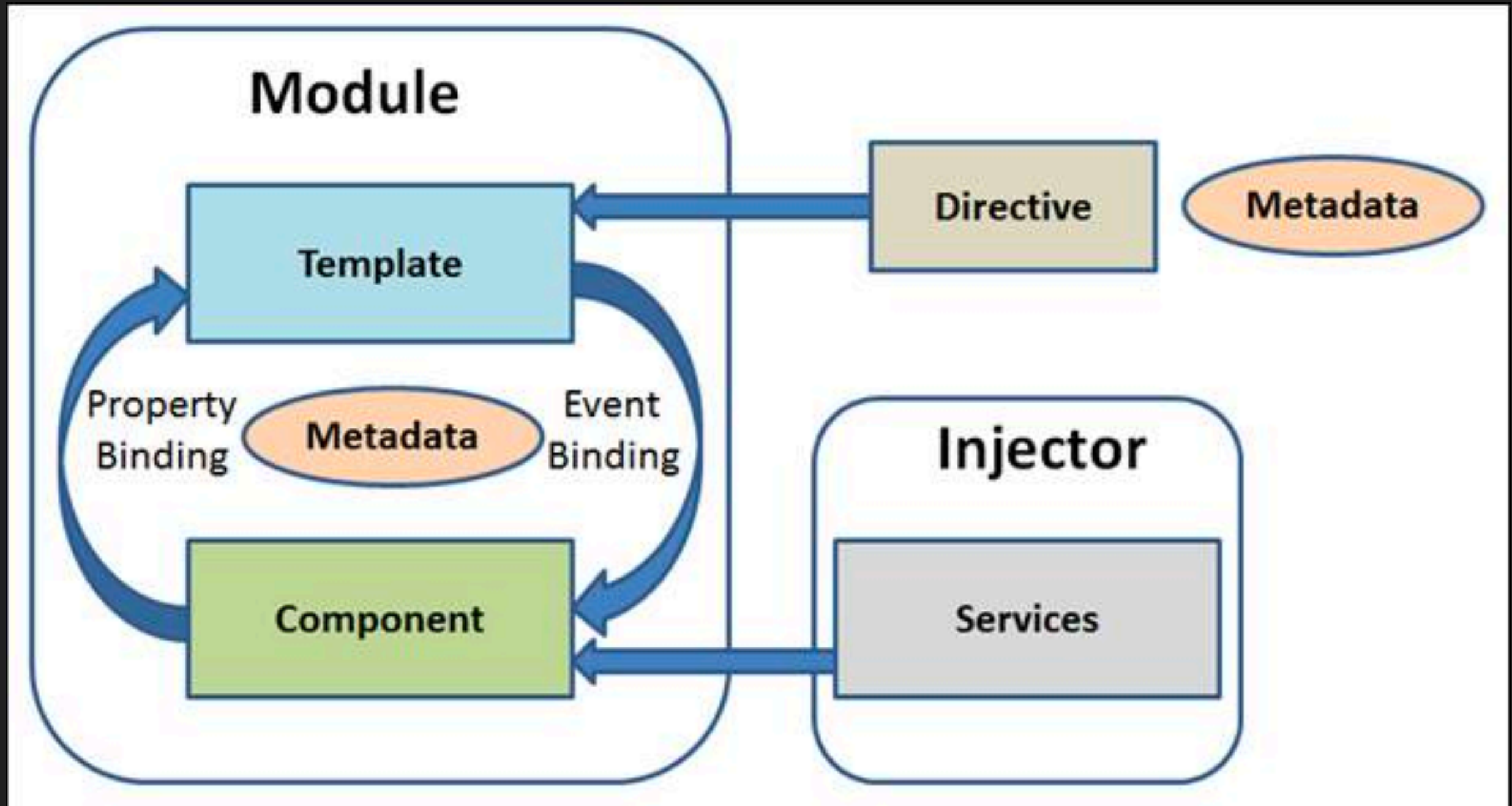
REDUX MIGHT BE THE RIGHT TOOL IF...

- ▶ User workflows are complex
- ▶ Your app has a large variety of user workflows (consider both regular users and administrators)
- ▶ Users can collaborate
- ▶ You're using web sockets or Server Sent Events
- ▶ You're loading data from multiple endpoints to build a single view

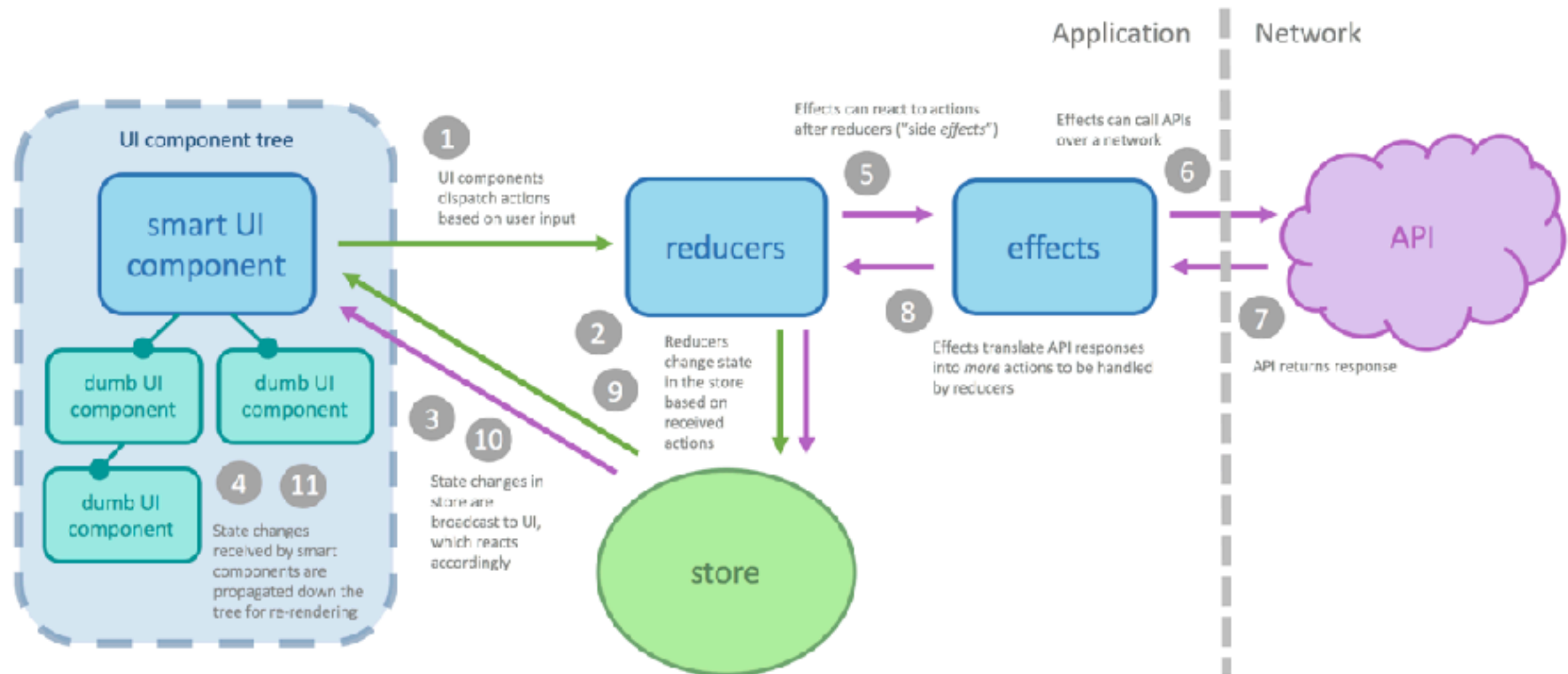
Otherwise...



BASIC ANGULAR (V2+) ARCHITECTURE



Architecture – Data Flow



Store

An object that holds
the application's data.

Action

An object that tells the
reducer how to change
its data.

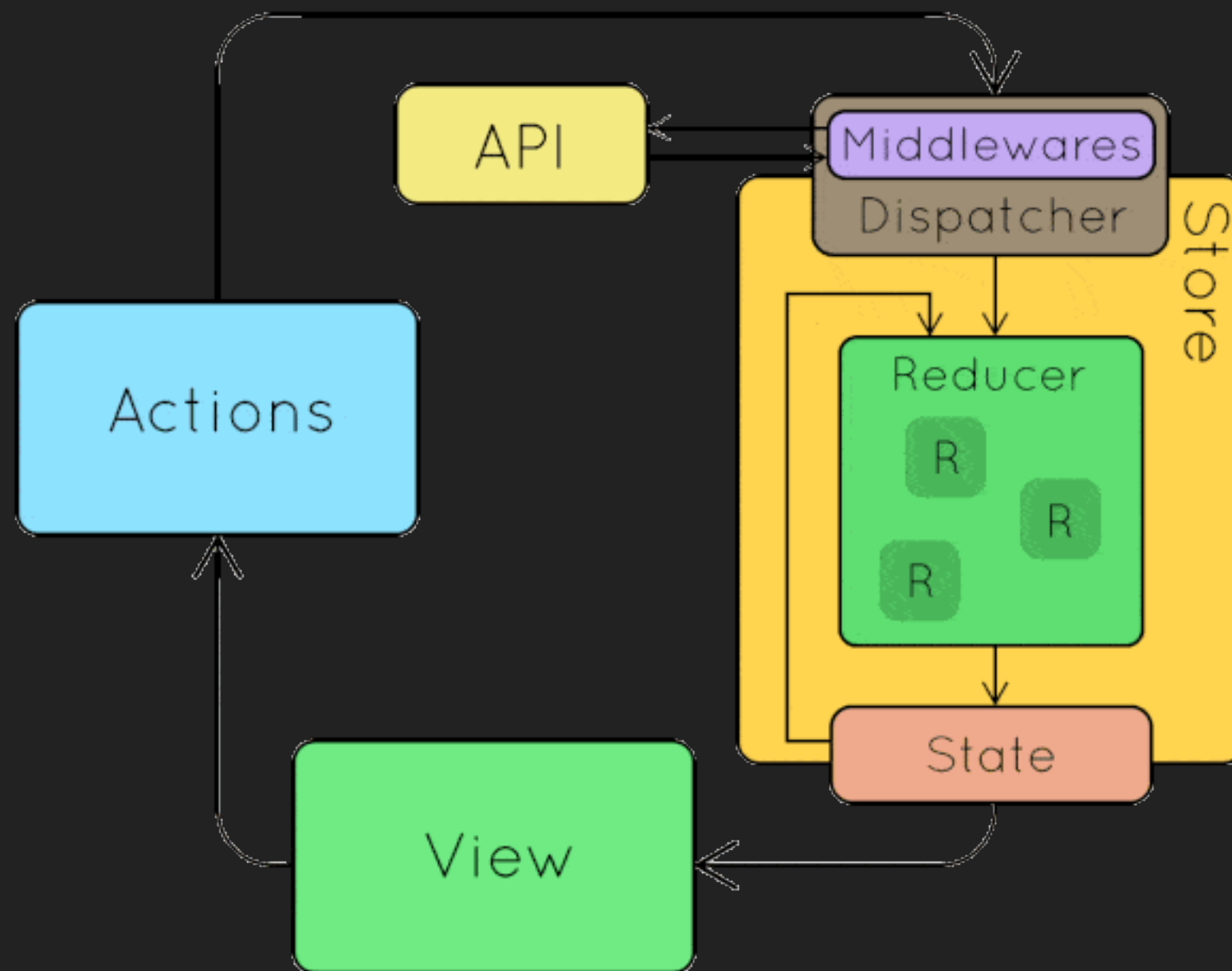
Reducer

A function that returns
some data.

State

Data for our app to
use.





BENEFITS OF REDUX

PROVIDE THESE BENEFITS:

THESE ARCHITECTURAL DECISIONS:

- ▶ Single Source of Truth: The Store
- ▶ One Way Data Flow

- ▶ Eliminates race conditions that mess with view rendering
- ▶ Deterministic View Renders
- ▶ Deterministic State Reproduction
- ▶ State updates are transactional
- ▶ Testing is easier
- ▶ More performant - reducing Angular change detection, onPush: assuming all inputs are immutable

Additional resources:

<https://github.com/apasternack/Presentations/tree/master/AngularRedux>

THE END

Adam Pasternack | Twitter: @AJPasternack | adam.pasternack@gmail.com