# Building a Real-time App with React, Flux, Webpack, and Firebase

Introduction



Hendrik Swanepoel tagtree.io | @hendrikswan

# A Real World Stack for React Apps

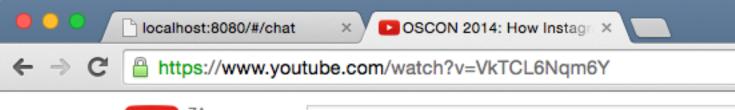
#### Introduction



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# The Issues Addressed by This Stack

Material Builds and Packaging Design Realtime Backend Flux

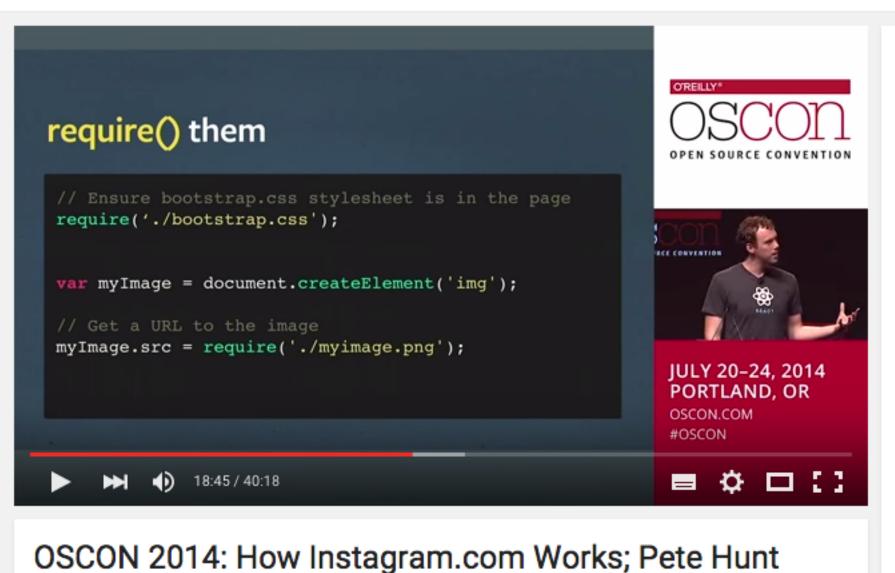




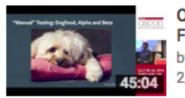




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#### Up next



Q

#### OSCON 2014: How Open Source Powers Facebook on Android; Simon Stewart

by Facebook Developers 2,610 views



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by Kyle Robinson Young 5,062 views



#### React.js Conf 2015 - Full Stack Flux

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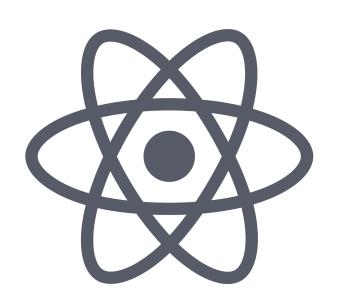
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Published on 4 Sep 2014

CS 294-101 01 Pete Hunt: React vs The

# React Is a Library



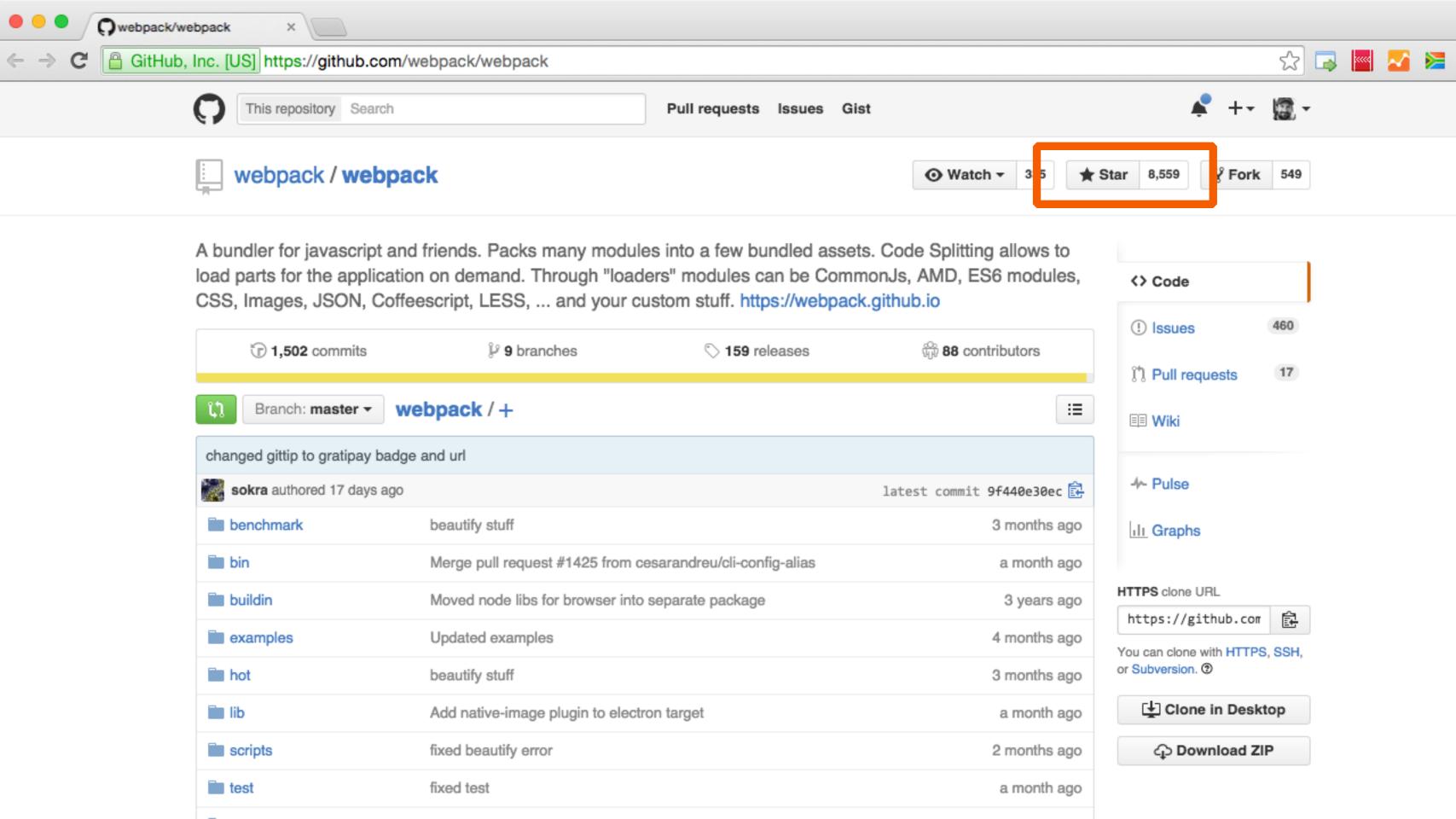
It needs to be supported by a strong stack for builds, ui, design, and routing



"Packs many modules into a few bundled assets" - webpack.github.io



Over 8,500 stars on github

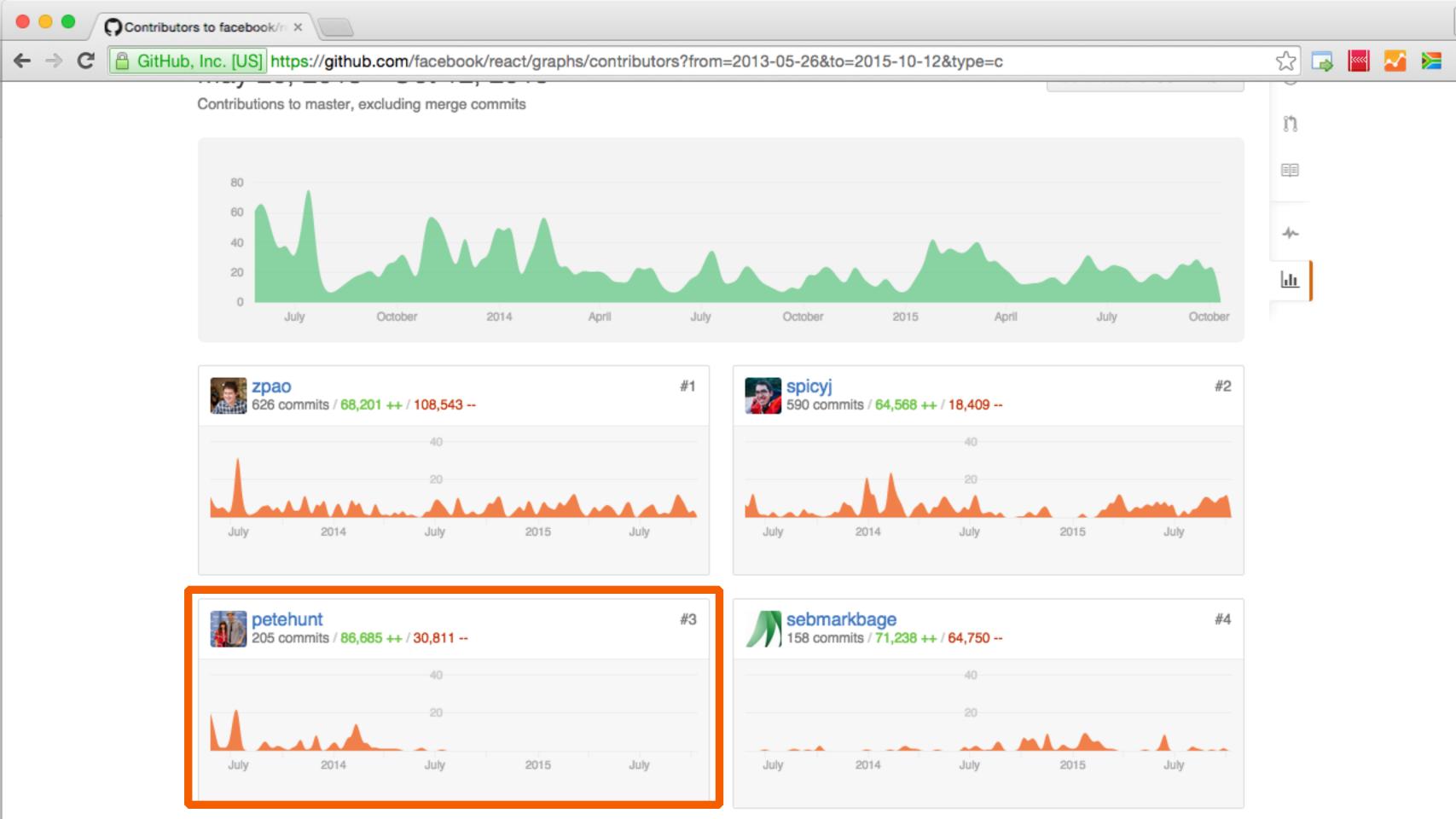


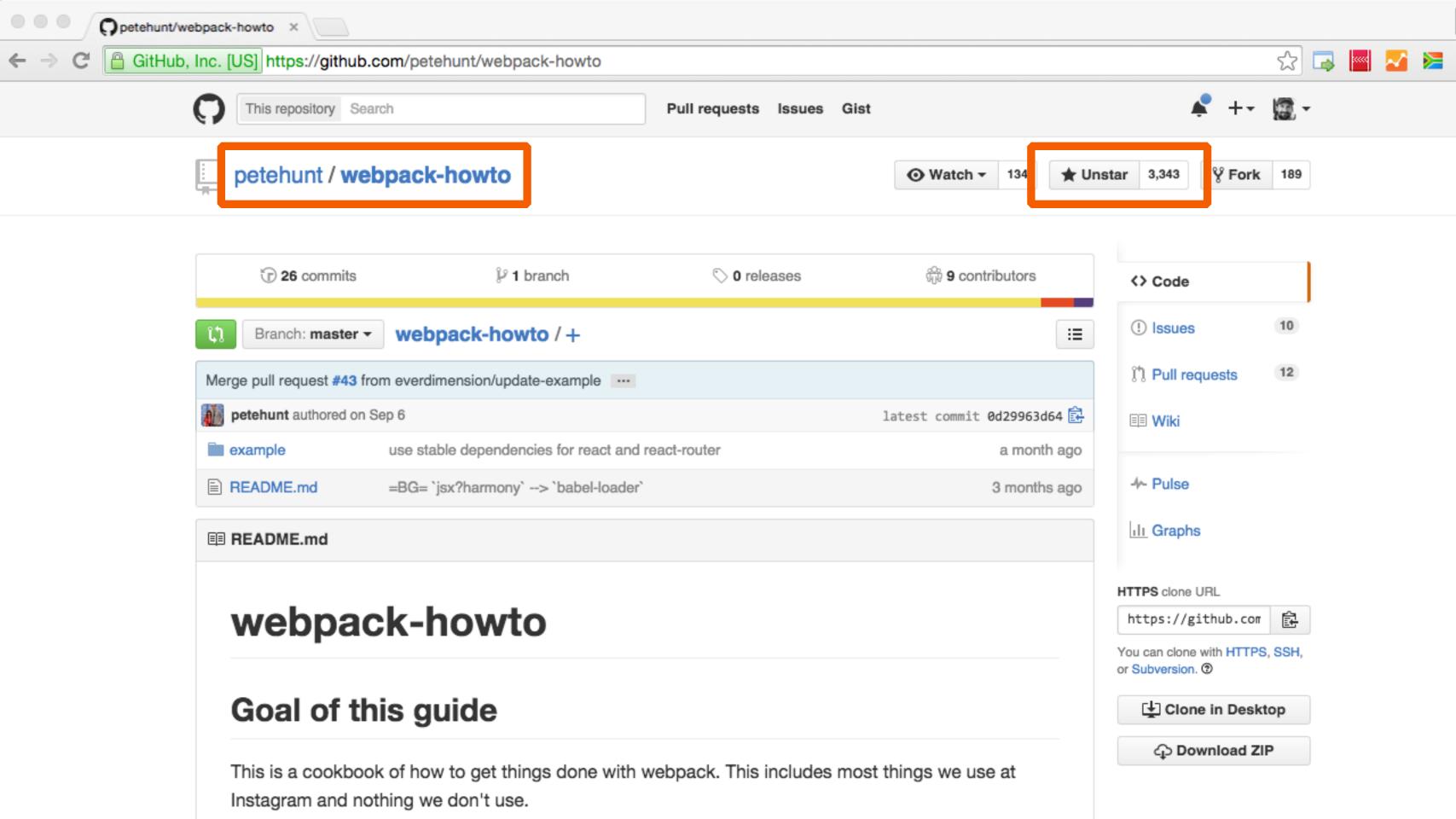


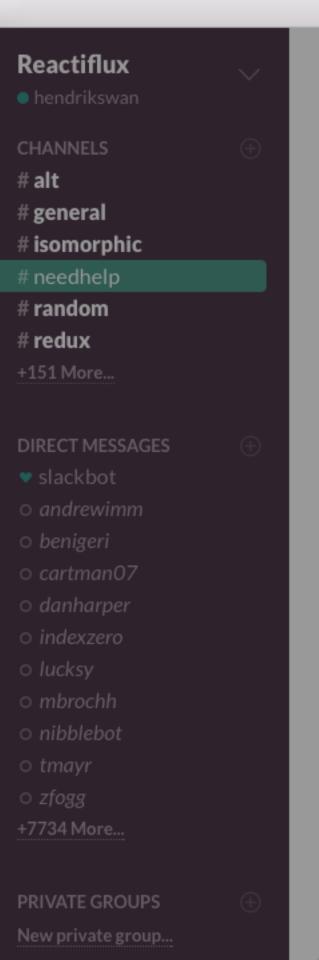
Packs JS, images, and CSS into the same file!

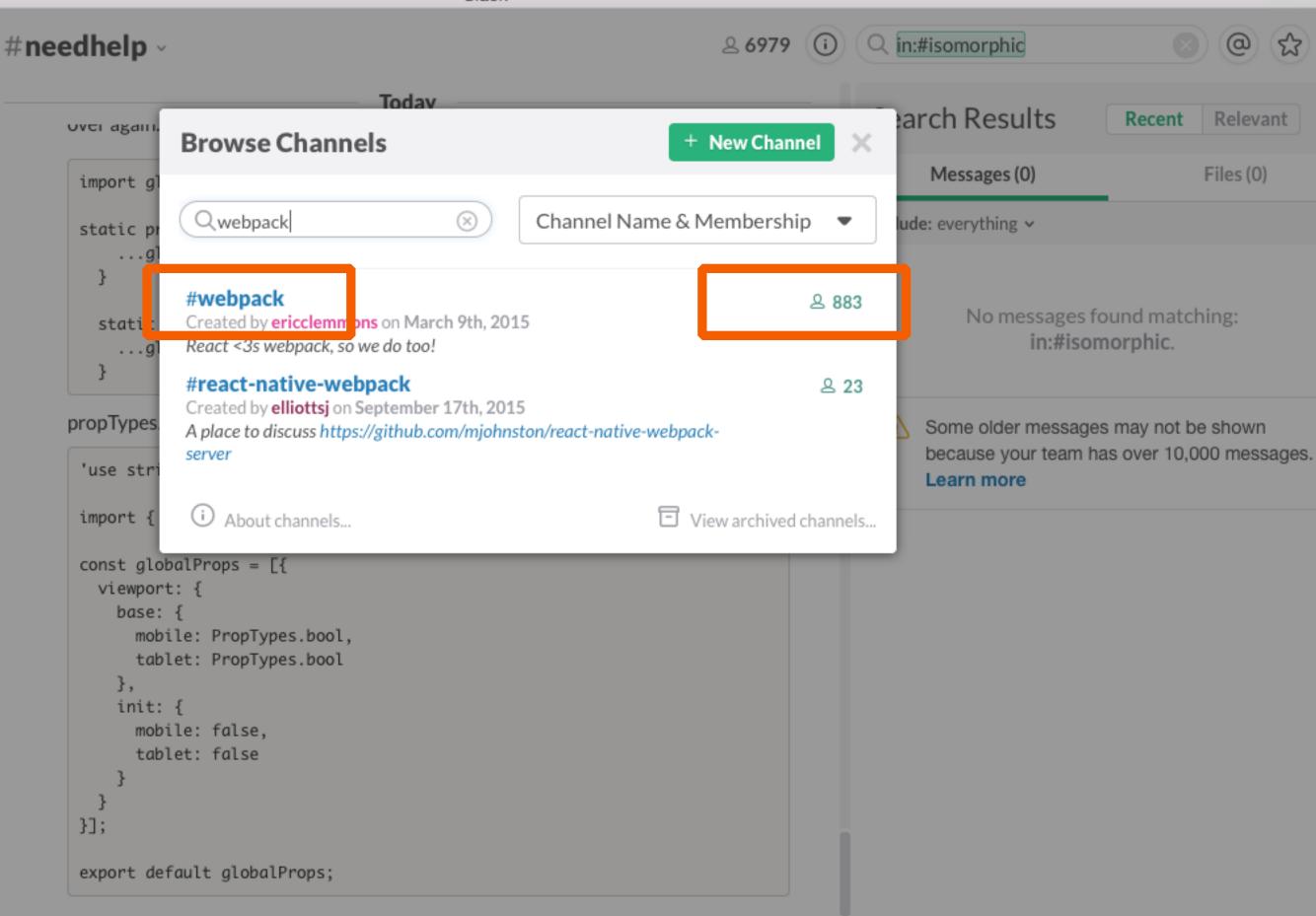


ES7 through the babel loader



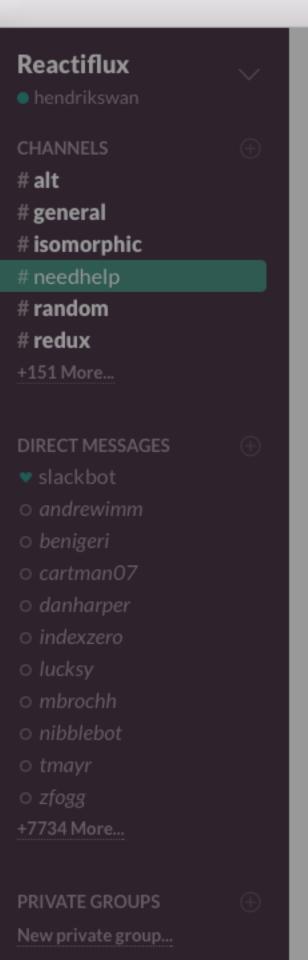


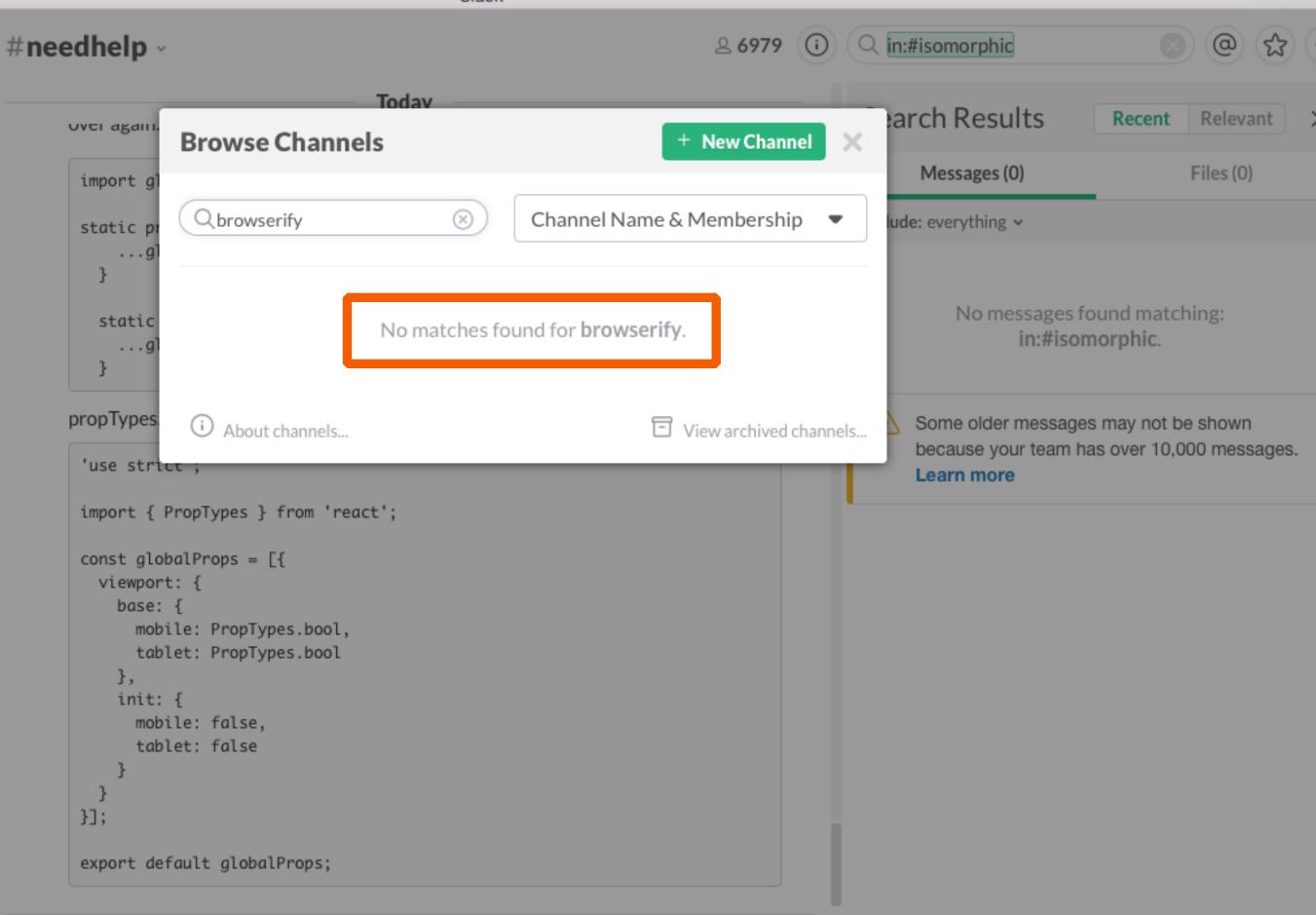


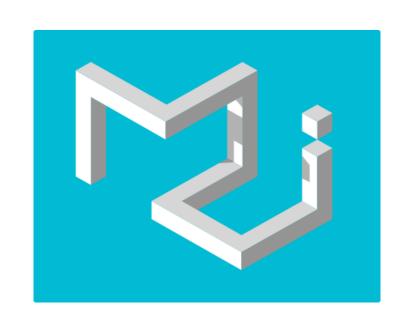


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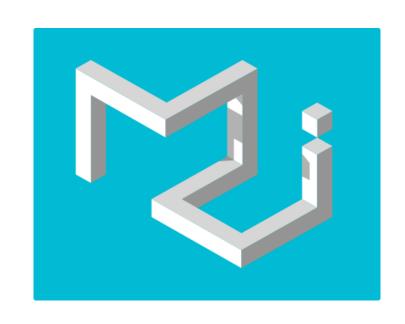
Relevant



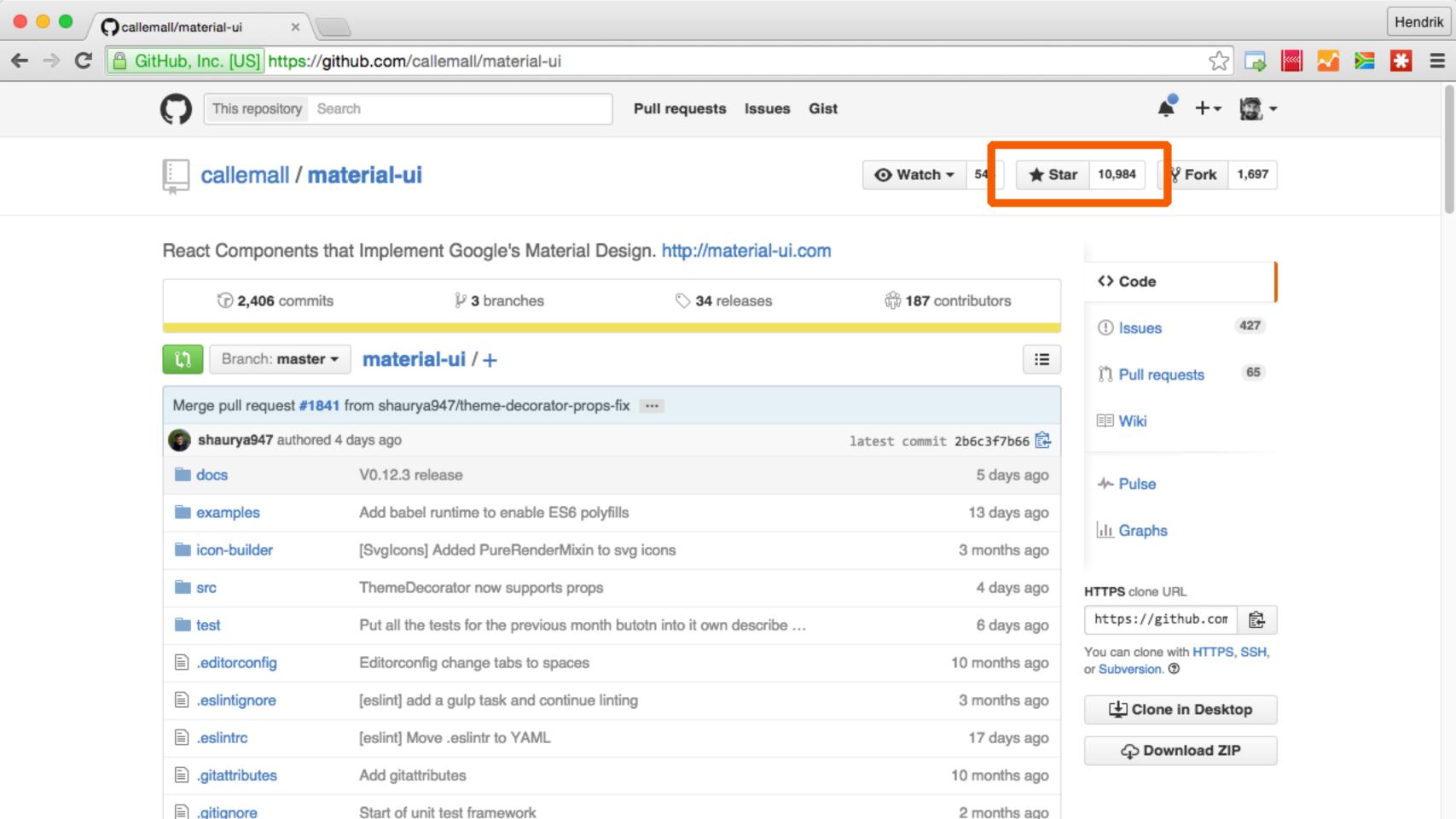


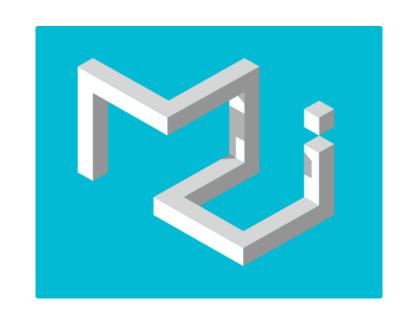


"A Set of React Components that Implement Google's Material Design" material-ui.com

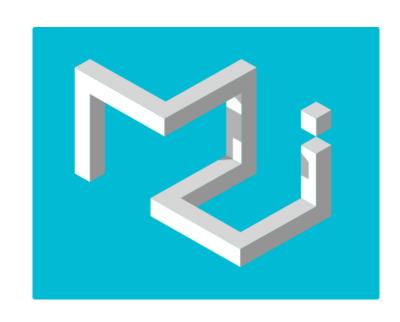


10,984 stars on github!





22 Components with loads of configuration options



Theming



Backend in the cloud - firebase.com



Acquired by Google



Extremely easy to consume



**Excellent documentation** 



A user friendly implementation of the Flux architecture - <u>alt.js.org</u>



2,138 stars on github



Convention over... boilerplate



Liberal use of ES7 decorators

# Routing



Most popular router out there

# Routing



Integrating with Flux/Alt

# Recap

- Builds/Packaging with Webpack
  - Replaces gulp/grunt
  - Packages everything
  - Gives us ES7
- Material design with Material-Ul
- Backend with Firebase
  - Realtime backend in the cloud
  - Supports Authentication
- Flux with Alt
  - Less boilerplate
  - Elegance through ES7 decorators
- Routing with React-Router
  - Specifically in a React/Alt environment