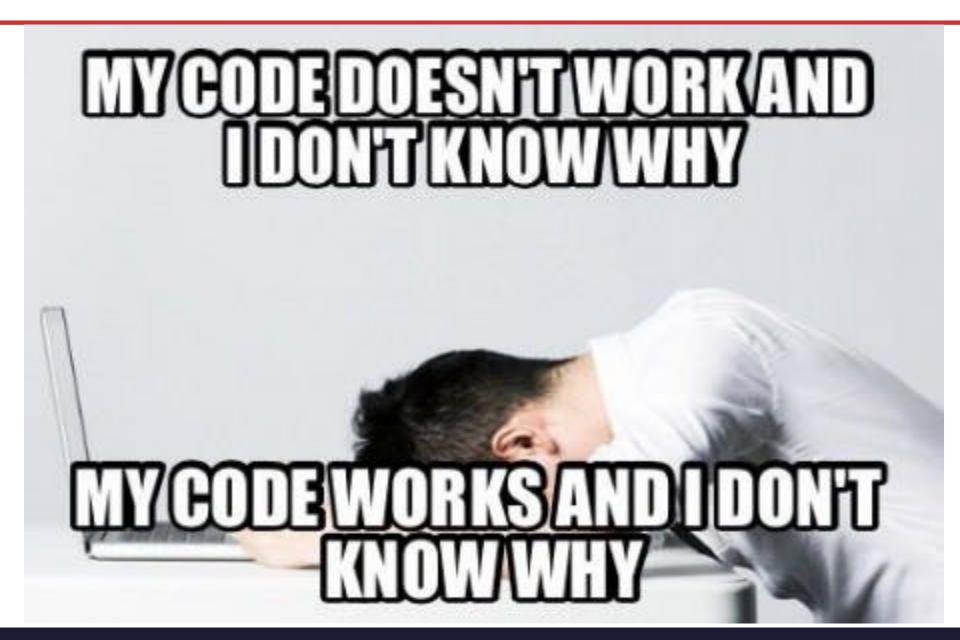
Day 57

React, Gently

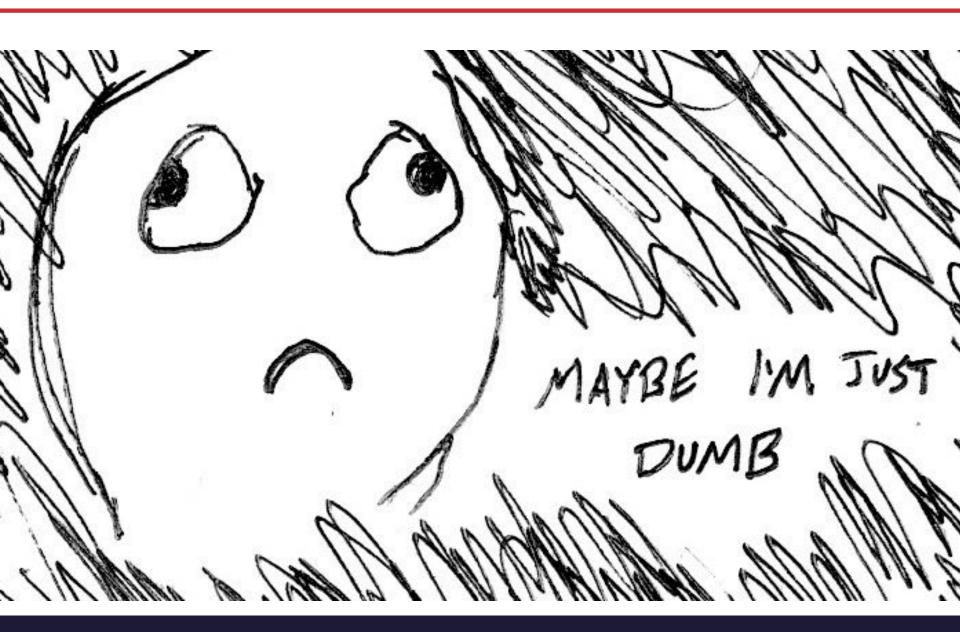
The Coding Bootcamp | June 1, 2017

A Throwback!

Obstacle #1 – The Great Confusion



Obstacle #2 – The Great Doubt



Silly Instructor...

"Duh. I remember.

I've felt dumb everyday since we started."

Silly Student...

Nah Brah.

You about to feel waaaaay MOARRR dumb.

Welcome to ReactJS!!!

Note: This will not be you.



Do not treat this class as a "spoon feeding" session.

Note: This will be you.



Instead, it's meant to be an immersion and exposure.

Resources To Use:

- Facebook React Official Documentation https://facebook.github.io/react/
- Code School React Tutorial https://www.codeschool.com/courses/powering-up-with-react
- EggHead.io
- Build With React Tutorial http://buildwithreact.com/tutorial
- Dev Pen React in 15 Minutes
 https://www.youtube.com/watch?v=PGUMRVowdv8
- Just YouTube things...
- Just read everything..

So... What is React?

- React is an open-source Javascript Library developed by Facebook specifically for the task of developing User Interfaces.
- It was developed for the purpose of building large apps with data that rapidly changes over time.
- It relies on a component-based architecture. Each element of the UI is treated as sub-components of larger components.



But... what is React Not?

- React is not a plug-and-play UI beautifier.
- React is not a "magic bullet" to building awesome User Interfaces with a touch of a mouse.
- It is not as simple to use as libraries like jQuery or Firebase
 which are intended for limited use strict purposes.
- Instead, react serves as a sort of "design-paradigm" and organization strategy for building complex frontend applications.

No. It's not magic.

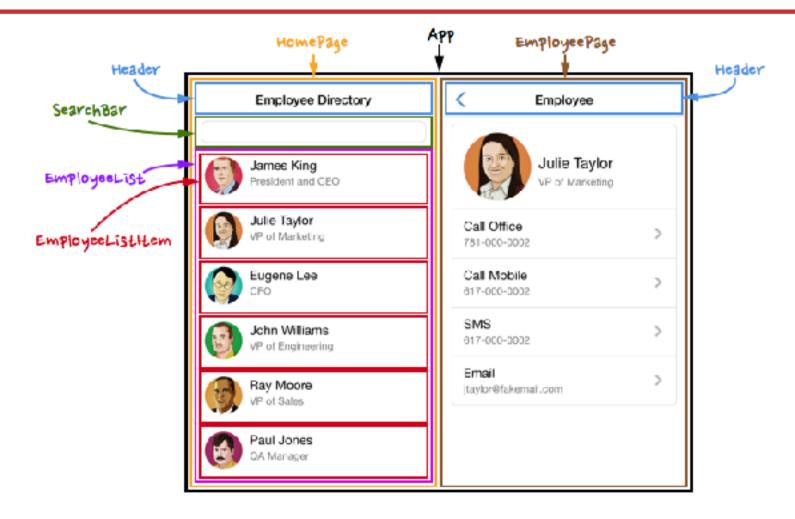


Facebook's UI Complexities



 Facebook's website buzzes with interactive options, live-updating data, and tightly interacting elements. This poses a challenge to simple DOM manipulation strategies.

The Concept of Components



- Using React, UI elements are broken down into re-usable sub-components.
- Each sub-component behaves in a way that it is fully contained

Power of Components!

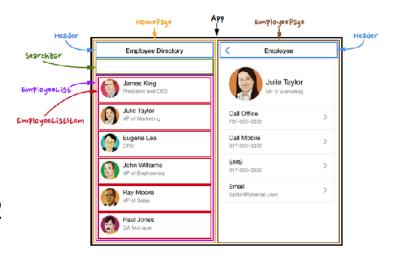
By separating elements out into components...

- Layout and Logic are kept bundled together in a self-contained package.
- Components can easily be re-used in various points in the application without needing to be re-coded.
- Components can be more easily tested.

 (i.e. having one re-usable component means only one UI element needs to be tested).

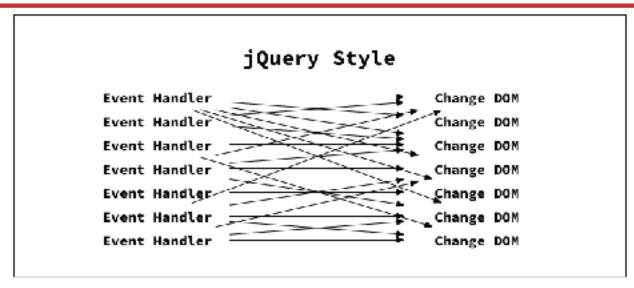
For complex applications each of these can be critical in finding bugs and saving time.





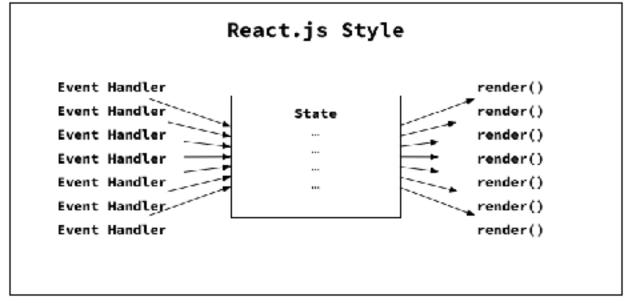
Data Shifting Applications

Why Can't I jQuery Everything?



Jquery

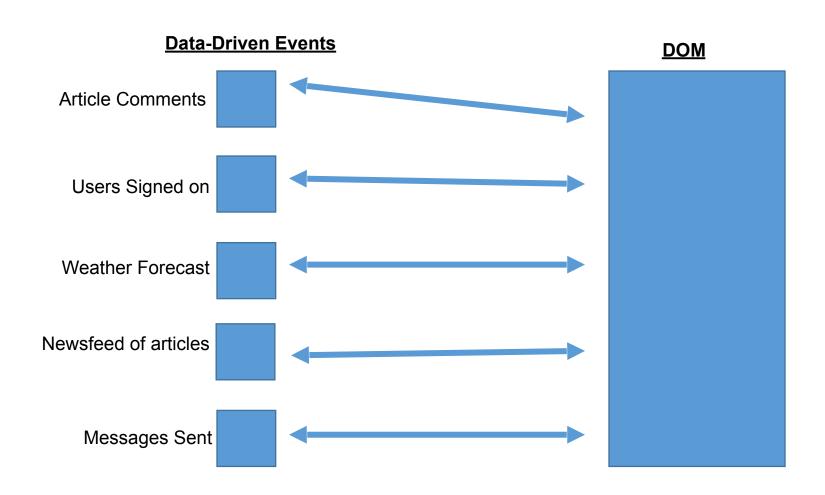
 Without an organization structure, code quickly become a series of erratic DOM Manipulations



React

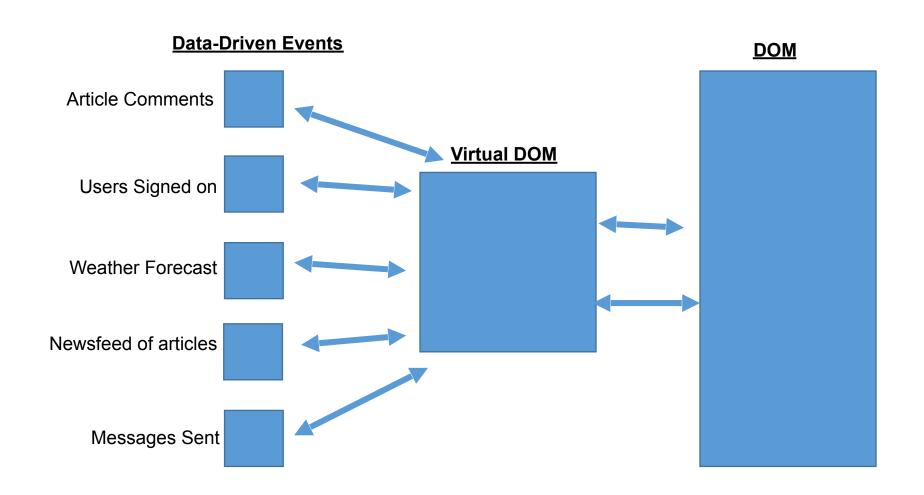
 In contrast, React utilizes a state or Virtual DOM that acts as a middle man with pre-defined rules for how each component will behave.

Rapid Data Changes: Option #1 –jQuery



Constantly manipulating DOM is slow.

Rapid Data Changes: Option #2 - React



Virtual DOM serves as intermediary

Digging into Docs

Documentation Immersion

With your Project Groups...

Answer each of the questions slacked out to you.

Really try on this activity!

A Gentle Intro

Questions