WELCOME TO DAY 1 OF REACTJS BOOTCAMP

AGENDA

- React as a view layer
- JSX
- Mounting component to DOM
- Simple Components
- Starting the application

WHY THE ^@ #$% IS THERE ANOTHER JS FRAMEWORK

MVC ISN'T A HOLY GRAIL

- Decent steam behind an non MVC clientside movement

REACT

- Small Modular Components
- Minimal API Surface Area
- Performant with JSDom

- Simply the view layer
- JSX can be strange at first
- Since it is just a view layer you must enforce good patterns

JUST USE WHAT MAKES SENSE AND ENABLES YOU TO BE PRODUCTIVE!

ANGULAR

- Directives are crazy powerful and declarative
- Filters are awesome
- Can be used modularly with some good insight. see Angular UI
- Great for prototyping

- Two binding with Dirty Checks and Digest Cycle
- Technically inperformant but not noticeable 99% of the time
- Code under the head is insanly complex argueable over engineered.
- Actions automagically trigger digest cycles
- Doesn't feel like writing JS as huge API surface area
- Docs still suck

EMBER

- Efficient data binding with accessors
- Less gotchas than Angular
- Computed Properties
- Amazing docs
- Great for prototyping

- Very heavy and opinionated
- Syntax isn't as clean with accessors
- Highest barrier to entry

BACKBONE

- Binding with accessors but requires setup
- 0 assumptions are made
- Extendable and versatile
- Marionette is ♥

- Less for free but it stays out of your way after
- Backbone is actually pretty great for what it does so ...

JUST DO IT!

REACT - ACCORDING TO FACEBOOK

- It's simple
- It's declarative
- It's composable

COMPONENTS ARE YOUR BUILDING BLOCKS

- Self contained
- Modular
- Dynamic

HOW CAN WE BREAK THIS DOWN INTO COMPONENTS?

Great Comparison Article here
http://derickbailey.com/2015/08/26/building-a-component-based-web-ui-with-modern-javascript-frameworks

JSX

Render markup in your code

- This makes sense with small modular components
- Babel can transpile JSX into plain old javascript
- You can very easily write your javascript logic alongside your presentation layer

MOUNTING A COMPONENT

```
import React from 'react';
import App from './components/App/App';
React.render(
  <app>,
  document.getElementById('app')
);
</app>
```

SIMPLE COMPONENT

```jsx
import React from 'react';
import './_Hai.scss';
export default class Hai extends React.Component {
  render() {
    let img = 'React';
    return (
      <div classname="my-super-awesome-react-app-with-a-class-name">
        <span>Hello Margret, It's me,</span>
        <span>{name}</span>
      </div>
    );
  }
}
```