Introduction to React

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What is React?

What is React?

- A JavaScript library for building user interfaces
- Declarative through the use of reusable components
- Written by Facebook
- Unidirectional flows
- Virtual DOM
- Sometimes called the View layer in MVC

...and what it isn't

- A framework
- The best tool for building client side applications

Virtual DOM

Virtual DOM

```
"DOM"

<h1 class="heading">Introduction to React</h1>

> const virtualDom = {
    type: 'h1',
    props: {
        className: 'heading',
        children: 'Introduction to React'
    }
}
```

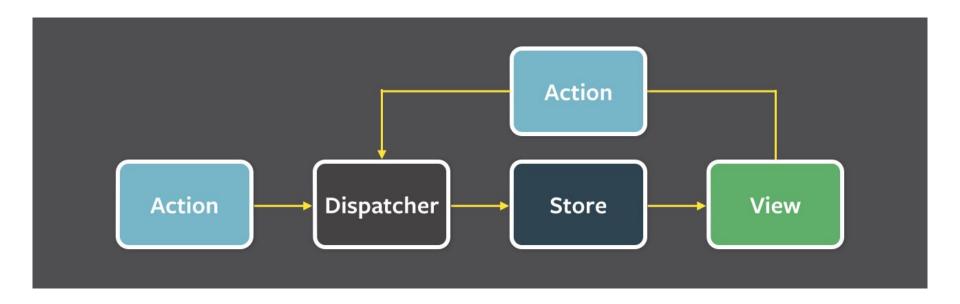
Virtual DOM

Demo: Components, JSX, Props & State

Demo: Styling Components

Once upon a time Facebook had a bug

Flux



Pros & Cons

Pros

- Components
- One way data flow
- Fast rendering
- Just JavaScript/JSX
- Active development

Cons

- Boiler plate
- So many choices
 - Application state: Flux (FB), Redux, Mobx
 - API: fetch, isomorphic-fetch, axios
 - Language: ES5, ES6 or TypeScript
 - o Build tooling: Webpack, Rollup, Browserify
- Just JavaScript/JSX

What else?

React Native!

The END

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Bonus: The Lost Artefacts

Did you know about

- Functional setState
- PureComponent