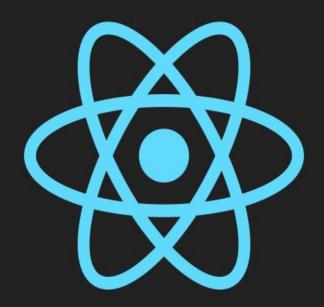


William Abboud

#### Who is this course for?

- People comfortable with JavaScript
- People with excellent knowledge of HTML
- People who want to learn the two hottest JS libraries out there these days

#### React



### Just what the hell is React?

React is a JavaScript library which makes it easy to break down website/webapp's UI into easy to use units called "Components".

## Components



#### The World without React

```
4 $(document).ready(function () {
5 $.getJSON('faq.json', function (data) {
    10 ------let dt =-$(`<dt data-id=${index}>Q: ${obj.question}-<span>[+]</span></dt>`)
    11     let dd = $(`<dd data-id=${index}>A: ${obj.answer}</dd>`)
   16 .....dd.hide()
    19 let $span = $this.find('span')
    21 dd.toggle(300)
    22 $this.toggleClass('clicked')
   24 if ($this.hasClass('clicked')) {
    27 $\frac{1}{27} $\frac{1}{27}
   31 .....dl.appendTo('body')
```

#### Do we need React?

The short answer imo is - No!

You don't need React to create websites these days or any other framework or library for that matter.

However, React makes it really easy to create single responsibility UI units (Components) by giving you the necessary tools to create them in a way that follows the principles of single responsibility, low coupling, encapsulation and composition to the dot.

Note: (If you use it correctly)

```
1 var Accordion = function(containerElSelector, data) {
        if ( !$.isArray(data) || !data.length ) {
            throw new Error("Please supply an array of objects with question and answer properties");
        function createQuestion(questionText, $answerEl) { ...
        function createAnswer(answerText) {
            var answerE1 = $('<dt class="answer">'+ answerText +'</dt>');
            answerEl.hide();
            return answerEl;
        $(document).ready(function() {
            var accordionContainer = $(containerElSelector);
            if ( !accordionContainer.length ) {
                throw new Error("Please supply a container element to attach the accordion to.");
            data.forEach(function(questionAndAnswer) {
                var accordionEl = $('<dl class="accordion-item"></dl>');
                var answerEl = createAnswer(questionAndAnswer.answer);
                var questionEl = createQuestion(questionAndAnswer.question, answerEl);
                -accordionEl.append(questionEl);
                accordionEl.append(answerEl);
                -accordionContainer.append(accordionEl);
            });
        });
53 };
```



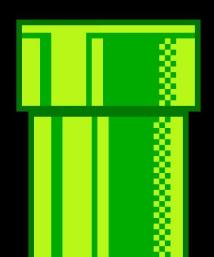
- NodeJS 8.x.x and above
- Babel to transpile JSX, ES6
   JavaScript to ES5\*, sourcemaps and more
- Webpack
- ESLint
- Jest
- React Create App



<sup>\*</sup> Technically there are browsers out there that fully support ES6 now days - https://kangax.github.io/compat-table/es6/



# One way Data Flow and props



## Sample React Component

```
function renderListItem(child, i, listItemClassName) {
       return (
          16 function List(props) {
      -const otherProps = Object.assign({}, props);
      return (
      -listItemClassName: React.PropTypes.string,
      children: React.PropTypes.array.isRequired
```



... Continued