React in a nutshell



- Brief history of Front-end development
- Web Component and Rise of React
- Thinking in React
 - What is React?
 - How about no MVC?
- Basic React component
- ES6 Class vs createClass
- Overview Flux architecture
- This is just the beginning (Ecosystem overview)

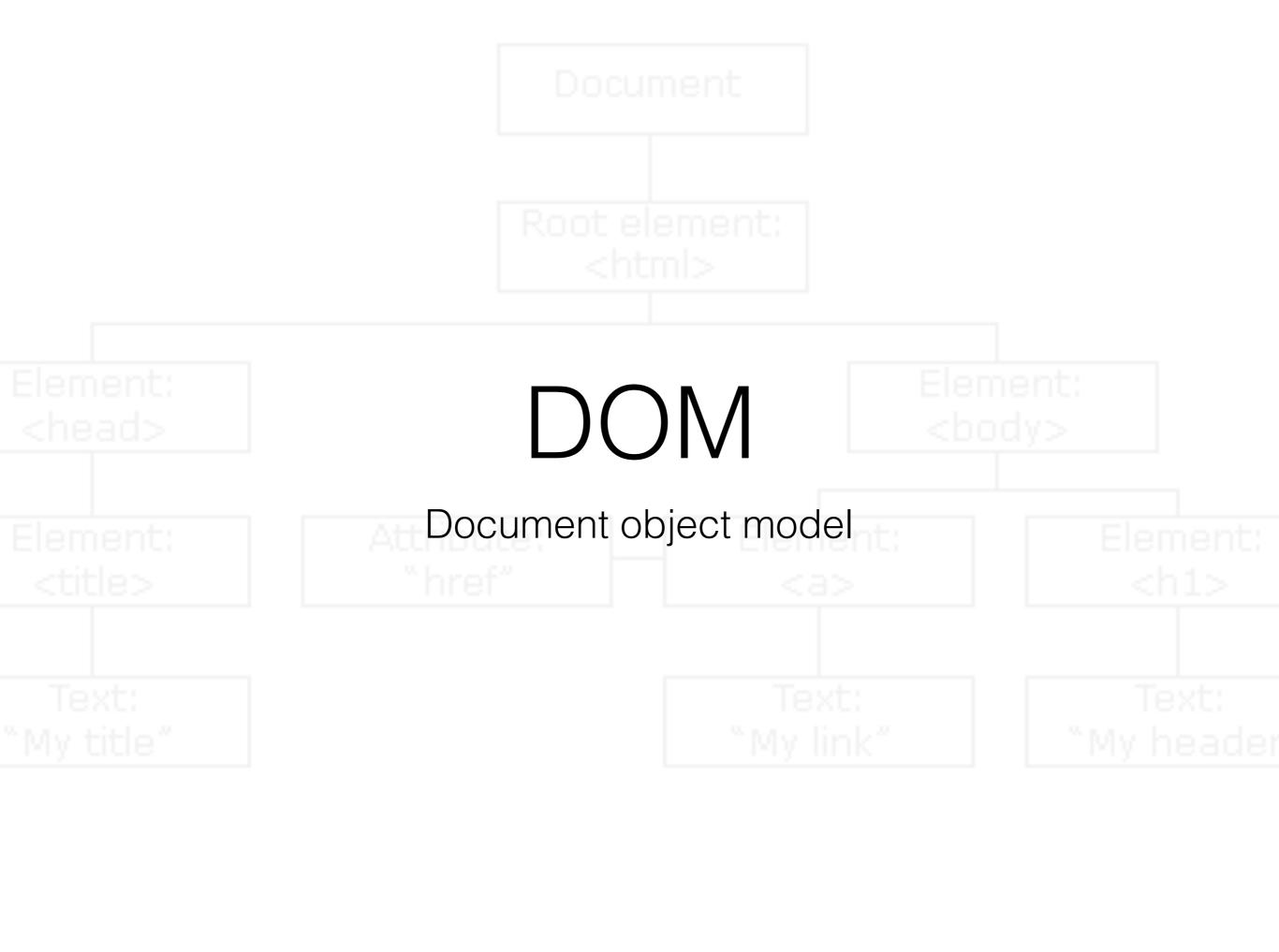


ES6

Javascript ES2015 / ES6



BABEL





Asynchronous javascript

```
axios.post('action_page.php')
$http({
 method: 'POST',
  url: '/action_page.php'
```

```
$.ajax({
  url: 'action_page.php',
  method: 'POST'
});
```

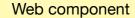
})

```
fetch('action_page.php', {
 method: 'POST'
   WHATWG standard!
```

Web component

Web Components are a collection of standards which are working their worth bugh the W3C and landing in browsers as we speak. In a nushell, they a bw up to fundit markup and styles into custom HTML elements. When the entanglish at ley fully encapsulate all of their HTML and CSS. That means the styles that you write always render as you intended, and your HTML is safe from the prying eyes of external JavaScript.

What is web component



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allow us to bundle markup and styles into custom HTML elements. What's

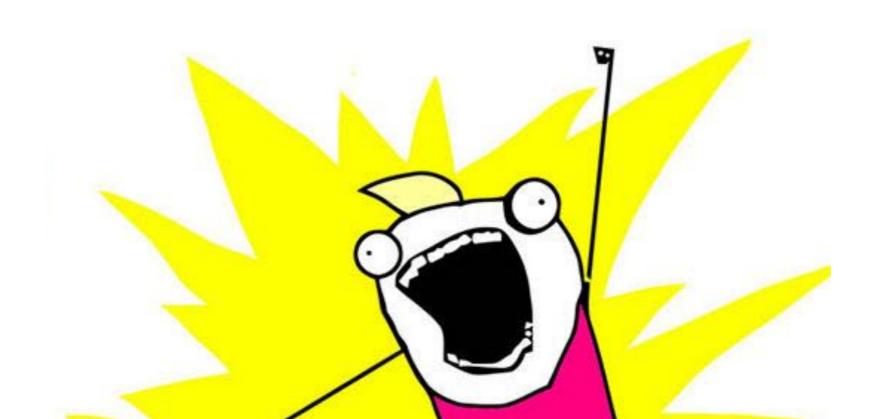
urury amazing about these new elements is that they fully encapsulate all of their HTML and CSS. That means the studes that war with

always render as you intended, and your HTML is safe from the prying eyes of external JavaScript.

https://css-tricks.com/modular-future-web-components/

WE WANT OUR WEB TO BE MORE MODULAR

Chunk everything



Framework ? Library ?

like
Calculus and Limit
Newtonian physic

Fun fact!

React is just a library

7,382 commits

№ 30 branches

52 releases

44 830 contributors

4 BSD-3-Clause

We've found 127,981 repository results

- Instragram
- Facebook
- Storylog
- TakeMeTour
- Taskworld
- Airbnb
- Startup love React \(\varphi\)

- Be a web programmer
- Javascript
- HTML
- CSS
- OOP (both Class, Prototype base)

"Life with out DOM selector"

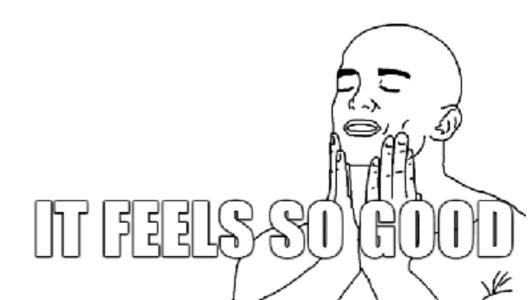
Javascript Framework today

```
Agility.js • AngularJS • Aria Templates • Backbone.js
Batman.js • Bolt • CanJS • Chaplin + Brunch • Closure
cujo.js · Dart · Derb All framework share the same principle Dijon · Dojo · DUEL
                                  unnyface.js • GWT
Ember.js • Epitome
Kendo UI • Knockback.js • KnockoutJS • Maria
Marionette • Meteor • Montage • Olives • PlastronJS
PureMVC • rAppid.js • Sammy.js • Serenade.js
SocketStream • soma.js • Spine • Stapes • Thorax • YUI
```

MVC MVVM MVW

Models

Observations mode



Because mutate all the data over time in component is painful

"MVC is obsoleted for UI"



Action

dispatcher

Store

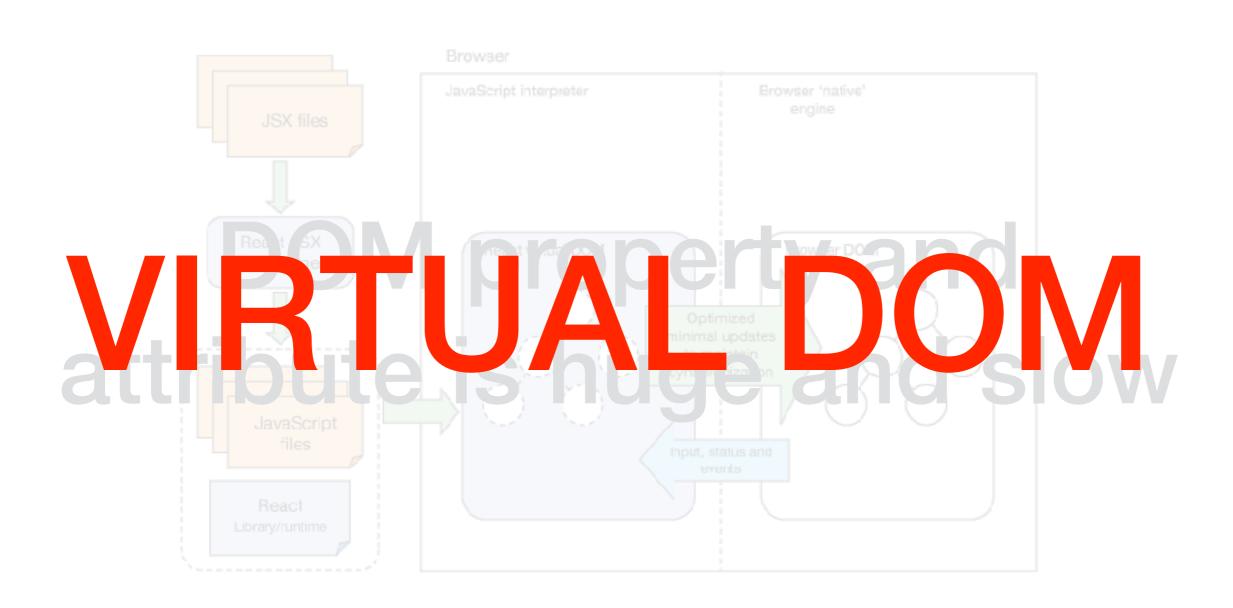
state changed

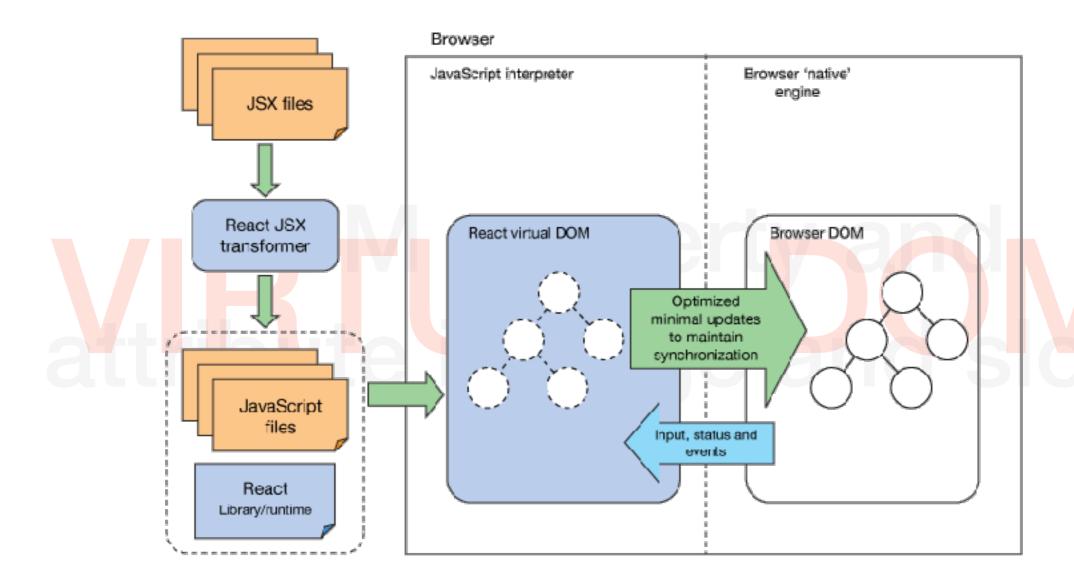
View

```
const MyComponent = React.Component({
          getInitialState() {
          getDefaultProps() {
          render()
              /** Render view with current state here */
render(<MyComponent'/>, document.getElementById('renderPoint'))
```

Must be something here

DOM property and attribute is huge and slow





What is React?

Component library based on State instead of Model and no binding require

Experiment time

https://github.com/zapkub/react-in-a-nutshell/

Singleton state?

Every Framework or Library is good

