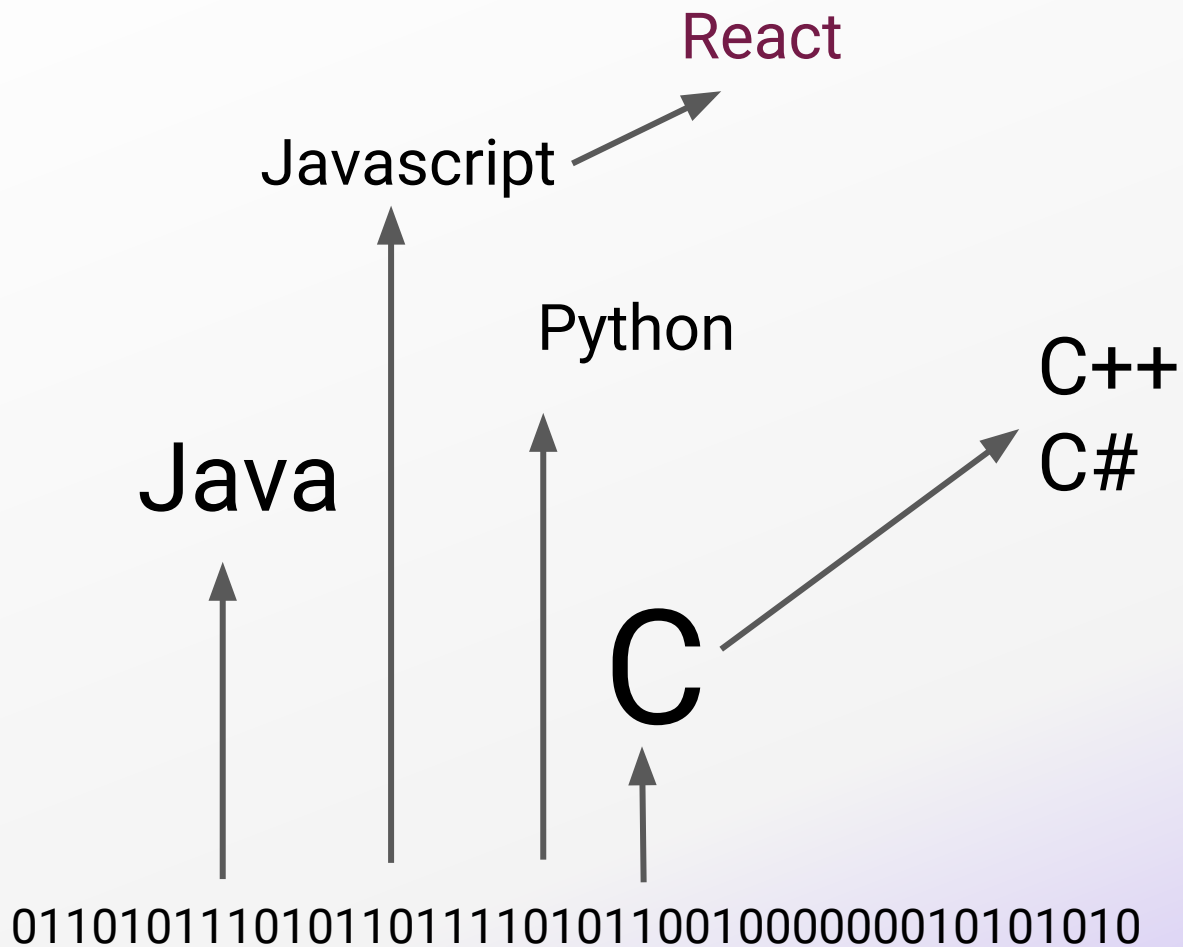


t4tech

t4tech

<https://t4tech-nyc.github.io>

<https://github.com/t4tech-nyc>





Java

Javascript

Python

C

React

C++
C#

011010111010110111101011001000000010101010



React.js

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Javascript library for front end development

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Useful for state management

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Promotes modularity

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One way data flow

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One way data flow

React.js



State =



Modularity =



One Way Data Flow =

React.js



State = The given truth of an application *at that moment in time*



Modularity =



One Way Data Flow =

React.js



State = The given truth of an application *at that moment in time*



Modularity = Reusable, flexible, bite-size building blocks



One Way Data Flow =

React.js



State = The given truth of an application *at that moment in time*



Modularity = Reusable, flexible, bite-size building blocks



One Way Data Flow = Data flows from the top down, things are inherited hierarchically

React.js

Components

Modular chunks of an application, written in JSX, not only describes *what* will appear in the application but *how* it will behave

JSX

Language that React components are written in. Combo of Javascript and HTML (XML)

State & Props

Built in vaults within components used to store, generate, and pass along data

JSX

HTML + Javascript



JSX

```
<html>
  <body>
    <h1 id="titleHeader">
      my cool ass webpage
    </h1>

    <p id="favePokemonText">
      My favorite pokemon is
        <span id="fave">
          Pikachu
        </span>
    </p>
  </body>
</html>
```

JSX

```
<html>
  <body>
    <h1 id="titleHeader">
      my cool ass webpage
    </h1>

    <p id="favePokemonText">
      My favorite pokemon is
        <span id="fave">
          Pikachu
        </span>
    </p>
  </body>
</html>
```

```
let myFavePokemon = 'Ninetails'

document.getElementById('fave')
  .innerHTML = myFavePokemon
```

JSX

```
<html>
  <body>
    <h1 id="titleHeader">
      my cool ass webpage
    </h1>

    <p id="favePokemonText">
      My favorite pokemon is
      <span id="fave">
        Pikachu
      </span>
    </p>
  </body>
</html>
```

```
let myFavePokemon = 'Ninetails'
```

```
document.getElementById('fave')
  .onClick(changePokemon)
```

```
let changePokemon = function() {
  document.getElementById('fave')
    .innerHTML = myFavePokemon
}
```

JSX

```
<h1 id="titleHeader">  
  my cool ass webpage  
</h1>
```

```
<p id="favePokemonText">  
  My favorite pokemon is {myFavePokemon}  
</p>
```

Components



Components

Written in JSX



Components

Written in JSX

Expects a “render” method



Components

Written in JSX

Expects a “render” method

May contain other components
(inheritance)



Components

Written in JSX

Expects a “render” method

May contain other components
(inheritance)

Possesses “lifecycle methods”



Components



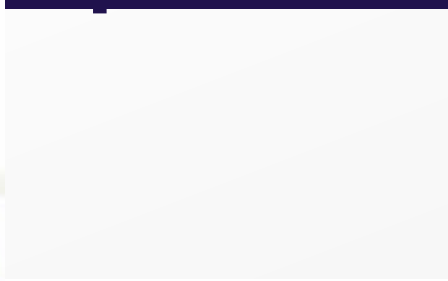
```
export default class MyComponent extends React.Component() {  
  constructor(props) {  
    super(props)  
  
    This.state = { ...some stuff... }  
  }  
  
  render() {  
    return(  
      <div> { ...other stuff ... } </div>  
    )  
  }  
}
```

Props & State

Vaults baked into components made to store and pass along data



Props & State



Props & State

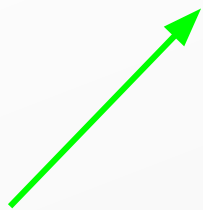


Props & State

Any data you want to pass down to your children components

Any data that will change over time

Props & State



Any data you want to
pass down to your
children components



Any data that will
change over time

Props & State

```
export default class MyComponent extends React.Component() {  
  constructor(props) {  
    super(props)  
  
    this.state = {  
      myFavePokemon: 'Ninetails'  
    }  
  }  
  
  render() {  
    return(  
      <div>  
        <h1> {this.state.myFavePokemon} </h1>  
        <AnotherComponent favePoke={this.state.myFavePokemon} />  
      </div>  
    )  
  }  
}
```


That is it...

That is it...

Oh wait one last thing

Virtual Dom

hehe....

Virtual Dom

It's complicated