React

* What
  + React is an open-source front-End Vanilla JS library for building user interfaces or UI components. It is maintained by Facebook and a community of individual developers and companies. React can be used as a base in the development of single-page or mobile applications
* Why React
  + Speed
    - compared to web applications that are built on vanilla javascript
  + Virtual DOM
  + Reusable (and clearer) Web Components
  + Maintained by Facebook
  + Hirable
* Need to be familiar with
  + ES6
    - Import
    - Functions/Callbacks
  + camel Case
* Other tools
  + React Chrome/MDN Developer Tools

Building React App

* Functional Components Practice
  + Move components into separate files
    - Each component made needs to imported
      * Ex. import MyApp from “./components/MyApp”
  + React Parent/Child Components
* Styling React with CSS Classes

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| * import React from "react" * function Header() { * return ( * <header className="navbar">This is the header</header> * ) * } * export default Header   then reference to style sheet as you would with classes |

* Caveats
  + Will need semicolon if your doing for loops
  + Arrows functions are useful in anonymous functions or write a class method
* JSX to Javascript and back

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| * + Graphical user interface, text, application      Description automatically generatedGraphical user interface, text      Description automatically generated with medium confidence |

* Props
* Mapping Components in React
* Class Based Components
* React State
* Handling Events in React
  + Will use JS for example
  + https://reactjs.org/docs/events.html#supported-events