**Topics**

* JSX
* React.createElement vs JSX
* Benefits of JSX
* Behind the Scenes of JSX
* Babel & parcel role in JSX
* Components
* Functional Components
  + Composing Components

**Assignment**

* What is JSX?
* Superpowers of JSX
* Role of type attribute in script tag? What options can I use there?
* {TitleComponent} vs {<TitleComponent/>} vs {<TitleComponent></TitleComponent>} in JSX

Coding Assignment:

* Create a Nested header Element using React.createElement(h1,h2,h3 inside a div with class “title”)
  + Create the same element using JSX
  + Create a functional component of the same with JSX
  + Pass attributes into the tag in JSX
  + Composition of Component(Add a component inside another)
  + {TitleComponent} vs {<TitleComponent/>} vs {<TitleComponent></TitleComponent>} in JSX
* Create a Header Component from scratch using Functional Components with JSX
  + Add a Logo on left
  + Add a search bar in middle
  + Add User icon on right
  + Add CSS to make it look nice

**References**

* Babel: <https://babeljs.io/>
* Attribute Type: <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/script#attr-type>
* JS Modules: <https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Modules>
* Babel Playground: [https://babeljs.io/repl#](https://babeljs.io/repl)
* React without JSX: <https://reactjs.org/docs/react-without-jsx.html>