What and Why React

WHAT!!!!

React is an open source front-end Javascript library used to build user interface and UI components.

Why Library!!!! And not Framework.

WHY??

Among other things React gives you the power to break down complex web applications to small components that could be loaded designed and rendered independently.

Take a look at [AirBnB](#)

JSX

This is a syntax extension to Javascript that allow you to write both JS and markup together. (Not required but recommended)

const name = "Linus"

const Element = <h1>Hello world {name}<h1>

DOM VS REACT VIRTUAL DOM

```
<!doctype html>

<html>
<head> <title>Example</title>
</head>

<body>
<div id="root">

</div>

</body>

</html>
```

How do we modify that to say **Hello world Linus**

Create and link a file index.js

var name = document.createElement("p")

name.innerText = "Hello world Linus"

document.getElementById("root").append(name)

```
Open a new file: index.js

Import React from "react"

import ReactDOM from "react-dom"

ReactDOM.render(

    <p>Hello world Linus</p>,

    document.getElementById("root")

);
```

SANDBOX INTRO TO REACT