

React Notes

Lecture 01

React?

"React is a framework that employs Webpack to automatically compile React, JSX and ES6 code while handling CSS file prefixes."

"React is a Javascript-based UI development library"

★ "Hello World" on web page by HTML (Traditional Way).

```
<html>
  <body>
    <div id="root">
      <h1> Hello World </h1>
    </div>
  </body>
</html>
```

★ "Hello World" by React

"CDN-React"

↳ Method to pull React in the Environment.

when you are Importing React through CDN Method there are two links.

1st link tells about "Core React"

2nd link tells about "React DOM"

In "Javascript" file after importing React in the Environment.

```
<script>
  const heading = React.createElement("h1", {}, "Hello World")
  const root = ReactDOM.createRoot(document.getElementById("root"))
  root.render(heading);
```

"Empty object in createElement"

→ In this object we are going to give the attributes to the tags. (Id, Class, etc.)

★ Most costly operation in a web-page?

"When DOM tree is changing,
i.e., when a web page is Dynamic/
Interactive"

★ How to Create "Nested" Structure in React like this:

```
<div id="parent">
  <div id="child">
    <h1> Jim HI tag </h1>
  </div>
</div>
```

const parent = React.createElement("div", { id: "parent" },

React.createElement("div",

{ id: "child" },

React.createElement("h1", {}, "Hi from HI tag")

);

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