

21 march

Namaste React Web Series

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Episode 01 - Inception

- React is a library.
- main difference b/w framework & library.
Library takes minimum effort to put into our code.

Emmet

designed to speedup the process of writing & editing code by providing a set of shortcuts that can be quickly expandable to full code block.

let my index.html looks like ↓

```
<head>
```

```
<title> Namaste All </title>
```

```
</head>
```

```
<body>
```

```
<div id = "root">
```

```
<h1> Namaste Everyone </h1>
```

```
</div>
```

```
</body>
```


To do the above code in JS

```
<body>  
  <div id="root">  
  </div>  
</body>  
<script>  
  const heading = document.createElement("h1");  
  heading.innerHTML = "Namaste JavaScript";  
  const root = document.getElementById("root");  
  root.appendChild(heading);  
</script>
```

To do the above code in ReactJS.

CDN

Content Delivery Network (CDN) is a network of servers that delivers content to users. Both React & ReactDOM are available over CDN.

What is Cross origin attribute

CORS is an HTTP header based mechanism that allows a server to indicate any - cross origin (domain, scheme or port) other than its own from which a browser should permit loading resources.

Cross origin attribute provide support for CORS. If we serve React from a CDN keep cross origin in attribute set.

`<script crossorigin src = " " > </script>`
This indicate that the script should be loaded from a different origin.

index.html

```
<body>
  <div id = "root" > </div>
  <script crossorigin
    src = "https://..." >
  </script>
  <script crossorigin
    src = "https://..." >
  </script>
```

} CDN Links

```
<script>
  const heading = React.createElement(
    "h1", {}, "Namaste Everyone");
```

```
const root = ReactDOM.createRoot(
  document.getElementById("root"));
```

```
root.render(heading);
```

```
</script>
```


What is the `{}` denotes in above code?

```
<div id="root">
  <h1 id="title">
    Namaste Everyone
  </h1>
</div>
```

This should
come inside
`{}`
~~What~~ What ever
I'm passing inside
`{}` will goes
as tag -
attribute of
h1.

→ React will overwrite everything inside
"root" & replace with whatever -
given inside render.

* Do the below HTML code using React.

```
<div id="container">
  <h1> heading1 </h1>
  <h2> heading2 </h2>
</div>
```

To build a structure like this using React

```
<script crossorigin src="https://react@18/"
  " " " " " react-dom" />
```

```
<script>
const heading = React.createElement(
  "h1", { id: "title", "Heading 1" });
```



```
const heading2 = React.createElement(  
  "h2", { id: "title2" }, "Heading 2");
```

```
const container = React.createElement(  
  "div", { id: "container" }, [heading, heading2]);
```

```
const root = ReactDOM.createRoot(  
  document.getElementById("root"),  
  root.render(container);
```

Why React is known as 'react'?

Because it was designed to help develop "react" to changes in the state of an application by efficiently rendering & updating the UI in response to those changes.