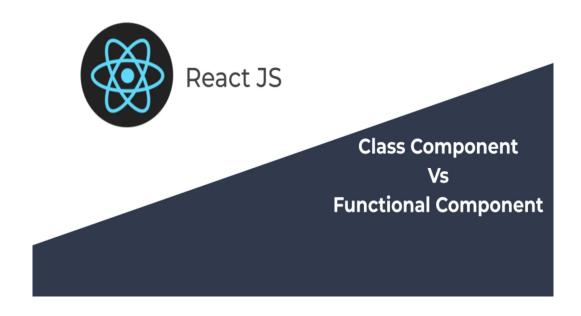


Class Components Vs Functional Components



In this Note, we want to show you the differences between **functional** and **class components** in React and when you should choose which one.

Functional Components:

Functional components are some of the **more common** components that will come across while working in React. These are simply **JavaScript functions**. We can create a functional component to React by writing a JavaScript function.



```
const Car=()=> {
  return <h2>Hi, I am also a Car!</h2>;
}
```

Class Components:

This is the **bread** and **butter** of most modern web apps built in ReactJS. These components are simple classes (made up of multiple functions that add functionality to the application).

```
class Car extends React.Component {
  render() {
    return <h2>Hi, I am a Car!</h2>;
  }
}
```

Hooks are a new addition to **React 16.8**. They let you use **state** and other React features **without** writing a **class**.

If you write a function component and realize you need to add some state to it, **previously** you had to **convert** it to a **class component**. Now you can use a **Hook** inside the existing function component to manage the **state** and no need to convert it into the **Class component**. Instead of Classes, one can use Hooks in the Functional component as this is a much easier way of managing the state. Hooks can only be used in functional components, **not in-class components**.



Differences:

Functional Components	Class Components
 A functional component is just a plain JavaScript function that accepts props as an argument and returns a React element. 	 A class component requires you to extend from React. Component and create a render function that returns a React element.
There is no render method used in functional components.	 It must have the render() method returning HTML
 Also known as Stateless components as they simply accept data and display them in some form, that they are mainly responsible for rendering UI. 	Also known as Stateful components because they implement and state .
 React lifecycle methods (for example, componentDidMount) cannot be used in functional components. 	 React lifecycle methods can be used inside class components (for example, componentDidMount).