

CLASS-BASED COMPONENTS

```
const HelloComponent = (props) => {  
  return (<h3>Hello, welcome user!!</h3>)  
}  
export default HelloComponent;
```

Functional components are regular javascript functions which return renderable results (typically JSX)

```
class HelloComponent extends Component{  
  render(){  
    return (<h3>Hello, welcome user!!</h3>)  
  }  
}  
export default HelloComponent;
```

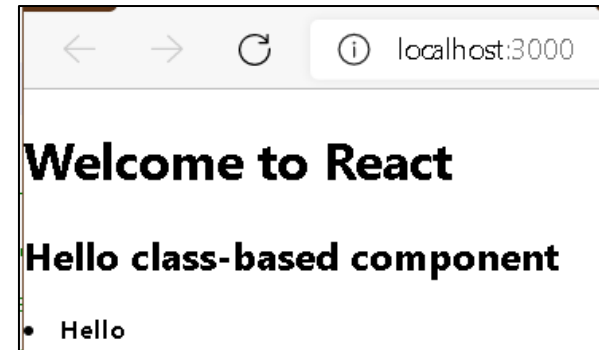
Class based components are defined using Javascript classes where a render method defines the to-be-rendered output

Class-based components : Examples

```
import React, {Component} from 'react';
class HelloComponent extends Component{
  render(){
    return (<h2>Hello class-based component</h2>)
  }
}
export default HelloComponent;
```

```
import './User.css';
import React, {Component} from 'react';

class User extends Component{
  render(){
    return <li className='user'>Hello User</li>
  }
};
export default User;
```



```
function App() {
  return (
    <div className="App">
      <h1> Welcome to React</h1>
      <HelloComponent />
      <User />
    </div>
  );
}
```

Class-based components : passing into props

```
import React, {Component} from 'react';
import User from './User'
```

```
const DUMMY_USERS = [
  { id: 'u1', name: 'Shrilata' },
  { id: 'u2', name: 'Soha' },
  { id: 'u3', name: 'Sia' },
];
```

```
class Users extends Component{
  render(){
    return(
      <div>
        <User name={DUMMY_USERS[0].name} />
        <User name={DUMMY_USERS[1].name} />
        <User name={DUMMY_USERS[2].name} />
      </div>
    );
  }
}
export default Users;
```

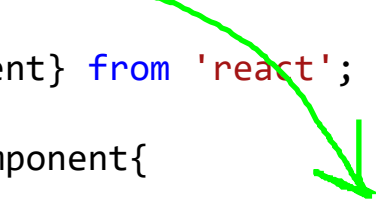
```
function App() {
  return (
    <div className="App">
      <h1> Welcome to React</h1>
      <Users />
    </div>
  );
}
```

Welcome to React

- Hello Max
- Hello Manuel
- Hello Julie

```
import './User.css';
import React, {Component} from 'react';

class User extends Component{
  render(){
    return (<li className='user'>Hello {this.props.name}</li>);
  }
};
export default User;
```



React State : Example

```
import React, {Component} from 'react';
import './App.css';
import StatefulComponent from "../StatefulComponent/StatefulComponent";
```

```
class App extends Component {
  render() {
    return (
      <div>
        <StatefulComponent />
      </div>
    );
  }
}
export default App;
```

```
import React,{Component} from 'react';
```

```
class statefulComponent extends Component{
```

```
  state = {
    name: "Shrilata",
    email: "shrilata@gmail.com",
    address:"Pune"
  }
```

```
  render(){
```

```
    return(
```

```
      <div>
```

```
        <h3>Name : {this.state.name}</h3>
```

```
        <h3>Email : {this.state.email}</h3>
```

```
        <h3>Address : {this.state.address}</h3>
```

```
      </div>
```

```
    );
```

```
  }
```

```
}
export default statefulComponent;
```

localhost:3000

Name : Shrilata

Email : shrilata@gmail.com

Address : Pune

State and props

```
class App extends Component {  
  state = {  
    persons:[  
      {name:"Shri",age:20},  
      {name:"Soha",age:23},  
      {name:"Sandeep",age:30},  
    ]  
  }  
}
```

```
  render() {  
    return (  
      <div className="App">  
        <h1> Hi, welcome to React</h1>  
        <button>Switch name</button>  
        <Person name={this.state.persons[0].name} age={this.state.persons[0].age}/>  
        <Person name={this.state.persons[1].name} age={this.state.persons[1].age}>  
          Hobbies : Coding ✓  
        </Person>  
        <Person name={this.state.persons[2].name} age={this.state.persons[2].age}/>  
      </div>  
    );  
  }  
}
```

```
const person = (props) => {  
  return (  
    <div>  
      <p>Hi i am {props.name}  
        and i am {props.age} years old</p>  
    </div>  
  )  
}  
export default person;
```

Hi, welcome to React

Switch name

Hi i am Shri and i am 20 years old

Hi i am Soha and i am 23 years old

Hobbies : Coding

Hi i am Sandeep and i am 30 years old

Doesnt work in functional components