

SheCodes React Cheatsheet

Comprehensive React cheatsheet for beginners.

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About this website and SheCodes

This website was built using technologies taught in [SheCodes Coding Workshops](#) including HTML, CSS, JavaScript, React, GitHub, Bootstrap and APIs. [SheCodes](#) teaches coding skills to busy women 🧑🏻💻

Snippets categories:

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JSX

JSX Element

Copy code

```
let element = <h1>Hello, world!</h1>;
let emptyHeading = <h1 />;
```

More info

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JSX Expressions

Copy code

```
let name = 'Josh Perez';
let element = <h1>Hello, {name}</h1>;

function fullName(firstName, lastName) {
  return firstName + ' ' + lastName;
}

let element = <h1>Hello, {fullName('Julie', 'Johnson')}</h1>
```

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JSX attributes

Copy code

```
const element = <img src={user.avatarUrl} />;
const element = <button className="btn">Click me</button>;
```

Note: class attributes className

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JSX Functions

Copy code

```
name() {
  return "Julie";
}

return (
  <h1>
    Hi {name()}!
  </h1>
)
```

React

JSX Conditional rendering

Copy code

```
import React from "react";
export default function Weather(props) {
  if (props.temperature >= 20) {
    return (
      <p>
        It is {props.temperature}°C (Warm) in {props.city}
      </p>
    );
  } else {
    return (
      <p>
        It is {props.temperature}°C in {props.city}
      </p>
    );
  }
}
```

Note: A component must always return something.

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Components

Functional component

Copy code

```
import React from 'react';

export default function UserProfile() {
  return (
    <div className="UserProfile">
      <div>Hello</div>
      <div>World</div>
    </div>
  );
}
```

Note: Every component needs one root element

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Embed an internal component

Copy code

```
import React from 'react';
import UserAvatar from './UserAvatar';

export default function UserProfile() {
  return (
    <div className="UserProfile">
      <UserAvatar />
      <UserAvatar />
    </div>
  );
}
```

Note: Assuming UserAvatar is declared in UserAvatar.js

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Embed an external component

Copy code

```
import React from 'react';
import ComponentName from 'component-name';

export default function UserProfile() {
  return (
    <div className="UserProfile">
      <ComponentName />
    </div>
  );
}
```

Note: External components are found on npmjs.com and need to be imported first.

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Advanced functional component

Copy code

```
import React from "react";

export default function Hello(props) {
  function fullName() {
    return `${props.firstName} ${props.lastName}`;
  }
  return (
    <p>
      {fullName()}
    </p>
  );
}
```

```
<Hello firstName="Matt" lastName="Delac" />
```

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CSS

CSS in a React Component

Copy code

```
import React from "react";
import './Student.css';

export default function Student() {
  return (
    <div className="Student">
      Julie Johnson
    </div>
  )
}
```

Note: You'll then have to crate a css file called Student.css

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Events

Event listener

Copy code

```
import React from "react";

export default function Hello() {
  function handleClick(event) {
    event.preventDefault();
    alert("Hello World");
  }

  return (
    <a href="/" onClick={handleClick}>
      Say Hi
    </a>
  );
}
```

Note: The most common event listeners are onClick for links/buttons and onSubmit for forms.

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Forms

React forms

Copy code

```
import React, { useState } from "react";

export default function LoginForm() {
  let [username, setUsername] = useState("");
  let [password, setPassword] = useState("");

  function handleSubmit(event) {
    event.preventDefault();
    alert(`Logging in with ${username} and ${password}`);
  }

  function updateUsername(event) {
    setUsername(event.target.value);
  }

  function updatePassword(event) {
    setPassword(event.target.value);
  }

  return (
    <form onSubmit={handleSubmit}>
      <input type="text" placeholder="Username" onChange={updateUsername} />
      <input type="password" placeholder="Password" onChange={updatePassword} />
      <input type="submit" value="Login" />
    </form>
  );
}
```

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AJAX

AJAX Request with Axios

Copy code

```
import React from "react";
import axios from "axios";

export default function Weather(props) {
  function handleResponse(response) {
    console.log(response);
  }

  if (notifications) {
    return (
      <p>
        notifications
      </p>
    );
  } else {
    let url = 'https://notifications.com';
    axios.get(url).then(handleResponse);
    return <p>Loading notifications.</p>;
  }
}
```

Note: Make sure to import Axios first to your project.

React



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SheCodes is here to give a solid introduction to **product development**, **product design** and **product management**.

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