



SheCodes React Cheatsheet

Comprehensive React cheatsheet for beginners.

JSX

JSX Element

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

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JSX Expressions

```
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

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

Note: class attributes className

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JSX Functions

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

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

Components

Functional component

```
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

```
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

Embed an external component

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

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



```
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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Advanced functional component

```
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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Properties

Passing properties to a component

```
<Student firstName="Julie" lastName="Johnson" age={23} pro={true} />
```

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Accessing the properties from a component

```
import React from "react";

export default function Student(props) {
  return (
    <h1>
      {props.firstName} {props.lastName} is {props.age}.
    </h1>
  )
}
```

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CSS



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CSS in a React Component

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

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

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

Events

Event listener

```
import React from "react";

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

States

React state

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

export default function Hello(props) {
  let [name, setName] = useState("Julie");
  function updateName() {
    let newName = prompt("What is your name?");
    setName(newName);
  }

  return (
    <div>
      <h1>
        {name}
      </h1>
    </div>
  );
}
```

Forms



```
</div>
});
}
```

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Loops

[Looping through an array](#)


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```
let elements = ['one', 'two', 'three'];

return (
  <ul>
    {elements.map(function(value, index) {
      return <li key={index}>{value}</li>
    })}
  </ul>
);
```

Note: Each list item inside a map loop needs a key attribute with a unique value which is generally the index.

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[Looping through an array of objects](#)


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```
let elements = [{
  name: 'one',
  value: 1
},
{
  name: 'two',
  value: 2
},
{
  name: 'three',
  value: 3
}]

return (
  <ul>
    {elements.map(function(element, index) {
      return <li key={index}>The value for {element.name} is {element.value}
    })}
  </ul>
);
```

Note: Each list item inside a map loop needs a key attribute with a unique value which is generally the index.

[More info](#)

AJAX

[AJAX Request with Axios](#)

```
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.



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