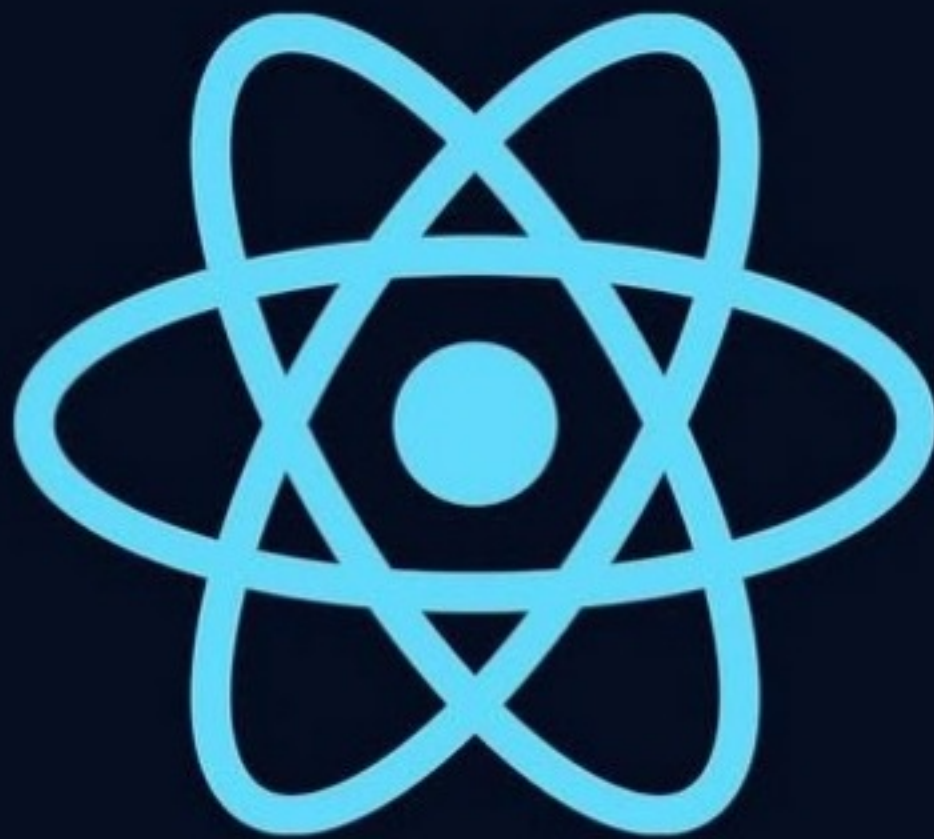


JS

React Cheatsheet



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JavaScript XML (JSX)

```
index.js

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

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

function fullName(firstName, lastName) {
  return firstName + ' ' + lastName;
}
let element = <h1>Hello, {fullName('John', 'Doe')}</h1>

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

// JSX functions
name() {
  return "Julie";
}

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


Functional Components

```
index.js

import React from "react";

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

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

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

Embed Components

```
index.js

// Embed internal components
import React from 'react';
import UserAvatar from './UserAvatar';

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

// Embed external components
import React from 'react';
import ComponentName from 'component-name';

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


CSS in a React

```
index.js

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

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



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React State

```
index.js

import React, { useState } from "react";

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

  return (
    <div>
      <h1>
        {name}
      </h1>
      <button onClick={updateName}>
        Update name
      </button>
    </div>
  );
}
```


React Forms

```
index.js

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>
  );
}
```

Map Elements

```
index.js

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}</li>
    })}
  </ul>
);
```



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