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Cheat Sheet: Developing Front-End Apps with React

Estimated reading time: 19 minutes

Package/Method	Description	Code Example
Arrow function	Arrow functions allow you to write shorter function syntax.	<pre>hello = () => { return "Hello World!"; }</pre>
class	Class is a template or blueprint for creating an object.	<pre>function car(name,year) { this.name = name this.year = year return this; } let car = car("Ford", 2014) console.log(car) console.log(car.name) console.log(car.year)</pre>
Hooks	Functions called hooks enable "hooking into" features of the React state and lifecycle from function components.	<pre>importReact,{useState}from 'react'; function CntApp() { const[count,setCount]=useState(0); return(Youclicked{count}many times</pre>
Inheritance	A class created with a class inheritance inherits all the methods from another class.	<pre>class Square extends Rectangle { constructor(height,width) { if(height === width) { super(height,width) } else { super(width,width) } } } let mySquare = new Square(5,5)</pre>
let and const	let allows you to restrict the scope of variables within the block where they are declared. const allows you to declare constants whose values cannot be changed.	{ let a = 10 console.log(a) a = 15 console.log(a) } console.log(a) const num = 5 console.log(num) num = 8 console.log(num)
Mounting	When a component instance is created and added to the DOM, these methods are invoked in the following order: constructor(), getDerivedStateFromProps(), render(), componentDidMount().	<pre>class Header extends React.Component { constructor(props) { super(props); console.log("Inside the constructor") } componentDidMount =()=> { console.log("Inside component did mount") } render() { console.log("Inside render method") return (The component is rendered) } } export default App</pre>
onClick	When an event fires, event handlers decide what should happen next. This could involve pressing a button or altering a text entry.	<pre>function changeColor() { const shoot = () => { alert("Color Changed!"); } return (<button onclick="{change}">Change the Color! </button>); } const root = ReactDOM.createRoot(document.getElementById('root')); root.render(<changecolor></changecolor>);</pre>
Promises	The Promise object represents the eventual completion (or failure) of an asynchronous operation and its resulting value.	<pre>let promiseArgument = (resolve, reject) => setTimeout (() => { let currTime = new Date().getTime(); if(currTime % 2 === 0){ resolve("Success") }else{ reject("Failed!!!")}</pre>

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Props	Props is short for properties, and it is used to pass data between React components.	<pre>let myPromise = new Promise(promiseArgument); class TestComponentextendsReact.component{ render() { return Hi {this.props.name}}} //passing the props as examples to the test component TestComponentname='John' TestComponentname='Jill'</pre>
React class Component	React class component contains- Props: set from outside the class, State: internal to the class	<pre>import React from "react"; class App extends React.Component { constructor(props) { super(props); this.state={change: true }; } render() { return(<button click="{()=">{this.setState({change: !this.state.change});}}>Click Here!</button> {this.state.change?(Hello!!):(Welcome to the React Course)});}} export default App;</pre>
React components	Components are reusable segments of code that come under the class and functional component types.	<pre>import React from 'react'; import {Text} from 'react-native'; const Helloworld= ()=> { return (Hello, World!); } export default Helloworld;</pre>
React Forms	React makes use of forms to enable user interaction with the website.	<pre>import React, {Component} from "react"; export default functionApp() { const [email, setEmail] = React.useState(""); const [password, setPassword] = React.useState(""); const handleSubmit = (event) => { console.log(`Email: \${email}Password: \${password}`); event.preventDefault(); } return (< formonSubmit = { handleSubmit } > < h1 > Registration < /h1> <label> Email:< input name="email" type="email" value={email} onChange={e => setEmail(e.target.value)} required/ > < /label> <label>Password:<input =="" name="password" onchange="{e" type="password" value="{password}"/> setPassword(e.target.value)} required/></label> </br></label></pre>
React state	The state object is where you keep the component's property values.	<pre>class TestComponentextendsReact.component{ constructor() { this.state= { id: 1, name: "John" age: 28 };} render() { return ({this.state.name}{this.state.age})}}</pre>
Redux	Redux is a state management library that is often used with React to handle the state of your application. An application state is like a global object that holds information that you use for various purposes later in the app.	<pre>\$ npm install redux react-reduxsave</pre>
Unmounting	When a component is removed or unmounted from the DOM, the componentWillUnmount() method enables us to run React code.	<pre>import React from 'react'; class ComponentOne extends React.Component { componentWillUnmount() { console.log('The component is going to be unmounted'); } render() { return Inner component; } class App extends React.Component { state = { innerComponent:<appinner></appinner>}; componentDidMount() { setTimerout(()=>{ this.setState({ innerComponent:unmounted}); },5000) } render() { console.log("Inside render") return ({this.state.innerComponent}); } export default App;</pre>

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Updating	When a component is updated, five methods are called in the same order: getDerivedStateFromProps(), shouldComponentUpdate(), render(), getSnapshotBeforeUpdate(), componentDidUpdate()	<pre>class App extends React.Component{ state = {counter: "0"}; incrementCounter = () => this.setState({counter:parseInt(this.state.counter)+1}) shouldComponentUpdate(){ console.log("Inside shouldComponent update") return true; } getSnapshotBeforeUpdate(prevProps,prevState){ console.log("Inside getSnapshotBeforeUpdate") console.log("Prev counter is" +prevState.counter); console.log("New counter is" +this.state.counter); return prevState } componentDidUpdate(){ console.log("Inside componentDidUpdate") } render(){ console.log("Inside render") return(<button onclick="{this.incrementCounter}">Click Me!</button>{this.state.counter}) }} export default App;</pre>



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