

## ReactJS is only this much.

### **1.Components**

- Functional Components
- Class Components
- JSX (JavaScript XML) Syntax

### **2.Props (Properties)**

- Passing Props
- Default Props
- Prop Types

### **3.State**

- useState Hook
- Class Component State
- Immutable State

### **4.Lifecycle Methods (Class Components)**

- componentDidMount
- componentDidUpdate
- componentWillUnmount

### **5.Hooks (Functional Components)**

- useState
- useEffect
- useContext
- useReducer
- useCallback
- useMemo
- useRef
- useImperativeHandle
- useLayoutEffect

## **6.Event Handling**

- Handling Events in Functional Components
- Handling Events in Class Components

## **7.Conditional Rendering**

- if Statements
- Ternary Operators
- Logical && Operator

## **8.Lists and Keys**

- Rendering Lists
- Keys in React Lists

## **9.Component Composition**

- Reusing Components
- Children Props
- Composition vs Inheritance

## **10.Higher-Order Components (HOC)**

- Creating HOCs
- Using HOCs for Reusability

## **11.Render Props**

- Using Render Props Pattern

## **12.React Router**

- <BrowserRouter>
- <Route>
- <Link>
- <Switch>
- Route Parameters

## **13.Navigation**

- useHistory Hook
- useLocation Hook

## **State Management**

## **14.Context API**

- Creating Context
- useContext Hook

## **15.Redux**

- Actions
- Reducers
- Store
- connect Function (React-Redux)

## **16.Forms**

- Handling Form Data
- Controlled Components
- Uncontrolled Components

## **17.Side Effects**

- `useEffect` for Data Fetching
- `useEffect` Cleanup

## **18.AJAX Requests**

- Fetch API
- Axios Library

## **Error Handling**

## **19.Error Boundaries**

- `componentDidCatch` (Class Components)
- `ErrorBoundary` Component (Functional Components)

## **20.Testing**

- Jest Testing Framework
- React Testing Library

## **21. Best Practices**

- Code Splitting
- `PureComponent` and `React.memo`
- Avoiding Reconciliation
- Keys for Dynamic Lists

## **22.Optimization**

- Memoization
- Profiling and Performance Monitoring

## **23. Build and Deployment**

- Create React App (CRA)
- Production Builds
- Deployment Strategies

## **Frameworks and Libraries**

### **24. Styling Libraries**

- Styled-components
- CSS Modules

### **25. State Management Libraries**

- Redux
- MobX

### **26. Routing Libraries**

- React Router
- Reach Router

## Best resources to learn react fast

### 1. Documentation

- Official Updated React Documentation  
<https://react.dev>
- MDN Web Docs  
<https://shorturl.at/tCL69>

### 2. YouTube Channel's

- Traversy Media: <https://youtube.com/c/TraversyMedia>
- The Net Ninja: <https://youtube.com/c/TheNetNinja>
- FreeCodeCamp: <https://youtube.com/c/FreeCodeCamp>
- Academind: <https://youtube.com/c/Academind>

### 3. Books

- React: Up & Running - by Stoyan Stefanov  
<http://t.ly/lpeQU>
- React.js Essentials: A fast-paced journey  
<http://t.ly/mqPmc>

### 4. Course with certification

<http://t.ly/76Vhg>