

React Resources - 01

Sr. #	Topic	Web Link
1	React	https://react.dev/learn
2	Think React	https://react.dev/learn/thinking-in-react
3	Import/export component	https://react.dev/learn/importing-and-exporting-components
4	Writing JSX	https://react.dev/learn/writing-markup-with-jsx
5	JavaScript in JSX	https://react.dev/learn/javascript-in-jsx-with-curly-braces
6	Keeping Components Pure	https://react.dev/learn/keeping-components-pure
7	State variable	https://react.dev/learn/state-a-components-memory
8	Lists (dynamic or static)	https://react.dev/learn/rendering-lists
9	Updating state variable (objects)	https://react.dev/learn/updating-objects-in-state
10	Events	https://react.dev/learn/responding-to-events

Sr. #	Topic	Web Link
1	React	https://react.dev/reference/react
2	Creating React Root	https://react.dev/reference/react-dom/client/createRoot
3	React DOM	https://react.dev/learn/understanding-your-ui-as-a-tree
4	useState – React Hook	https://react.dev/reference/react/useState

React Resources - 02

Sr. #	Topic	Web Link
1	Describing the UI	https://react.dev/learn/describing-the-ui
2	Passing props	https://react.dev/learn/passing-props-to-a-component
3	Understanding Your UI as a Tree	https://react.dev/learn/understanding-your-ui-as-a-tree
4	Conditional Rendering	https://react.dev/learn/conditional-rendering
5	Adding Interactivity	https://react.dev/learn/adding-interactivity
6	Render and commit	https://react.dev/learn/render-and-commit
7	Changing the mutable (i.e. non-primitive) state – Part I	https://react.dev/learn/updating-objects-in-state
8	Changing the mutable (i.e. non-primitive) state – Part II	https://react.dev/learn/updating-arrays-in-state
9	Managing State	https://react.dev/learn/managing-state
10	Concept of state (machine)	https://react.dev/learn/reacting-to-input-with-state
11	lifting state up	https://react.dev/learn/sharing-state-between-components
12	State vs Component	https://react.dev/learn/preserving-and-resetting-state
13	State as a snapshot – Part I	https://react.dev/learn/state-as-a-snapshot
14	State as a snapshot – Part II	https://react.dev/learn/queueing-a-series-of-state-updates

Sr. #	Topic	Web Link
1	Vanilla JavaScript vs React	https://www.asyncclabs.co/blog/software-development/vanilla-javascript-vs-react-choosing-the-right-tool-for-web-development/
2	Declarative vs imperative programming	https://dev.to/ruizb/declarative-vs-imperative-4a7l

React Resources - 03

Sr. #	Topic	Web Link
1	Referencing Values with Refs	https://react.dev/learn/referencing-values-with-refs
2	Manipulating the DOM with Refs	https://react.dev/learn/manipulating-the-dom-with-refs
3	Making use of useReducer Hook	https://react.dev/learn/extracting-state-logic-into-a-reducer
4	Making use of useContext Hook	https://react.dev/learn/passing-data-deeply-with-context
5	Application Scalability	https://react.dev/learn/scaling-up-with-reducer-and-context

Sr. #	Topic	Web Link
1	useRef – React Hook	https://react.dev/reference/react/useRef
2	useImperativeHandle	https://react.dev/reference/react/useImperativeHandle
3	forwardRef API	https://react.dev/reference/react/forwardRef
4	useState vs. useReducer	https://blog.saeloun.com/2023/03/30/when-to-use-useState-vs-usereducer/

React Resources – 04

Sr. #	Topic	Web Link
1	React Router Dom – Tutorial	https://reactrouter.com/6.28.0/start/tutorial
2	Using useEffect Hook	https://react.dev/learn/synchronizing-with-effects
3	Removing Effect Dependencies	https://react.dev/learn/removing-effect-dependencies
4	React: useEffect	https://react.dev/learn/you-might-not-need-an-effect
5	Context Module Functions/ Pattern	https://epic-react-exercises.vercel.app/react/patterns/1

Sr. #	Topic	Web Link
1	Context Module Functions/ Pattern	https://blog.variant.no/react-context-module-pattern-63fcd9aacd0d

Asynchronous JavaScript - 05

Sr. #	Topic	Web Link
1	Callbacks	https://www.w3schools.com/js/js_callback.asp
2	Asynchronous programming in JS	https://www.w3schools.com/js/js_asynchronous.asp
3	Promise to replace callbacks	https://www.w3schools.com/js/js_promise.asp
4	Async-await to replace Promises	https://www.w3schools.com/js/js_async.asp

Sr. #	Topic	Web Link
1	The JS Event Loop (video) What the heck is the event loop anyway? Philip Roberts JSConf EU	https://www.youtube.com/watch?v=8aGhZQkoFbQ
2	Callback hell	http://callbackhell.com/

REST APIs and AJAX Resources - 06

Sr. #	Topic	Web Link
1	REST API	https://www.techtarget.com/searchapparchitecture/definition/RESTful-API
2	HTTP	https://developer.mozilla.org/en-US/docs/Web/HTTP/Overview
3	HTTP connection	https://developer.mozilla.org/en-US/docs/Web/HTTP/Session
4	HTTP messages	https://developer.mozilla.org/en-US/docs/Web/HTTP/Messages
5	Ajax	https://www.w3schools.com/js/js_ajax_intro.asp
6	Fetch API (The Web API)	https://developer.mozilla.org/en-US/docs/Web/API/Fetch_API
7	Using Fetch API	https://developer.mozilla.org/en-US/docs/Web/API/Fetch_API/Using_Fetch
8	Promise	https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise
9	Using Promises	https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Using_promises
10	JSON Syntax	https://www.w3schools.com/js/js_json_syntax.asp

Sr. #	Topic	Web Link
1	XMLHttpRequest API (The Web API)	https://developer.mozilla.org/en-US/docs/Web/API/XMLHttpRequest
2	Using XMLHttpRequest	https://developer.mozilla.org/en-US/docs/Web/API/XMLHttpRequest_API/Using_XMLHttpRequest
3	Axios to replace Fetch API	https://axios-http.com/docs/example
4	REST API	https://aws.amazon.com/what-is/restful-api/
5	REST vs SOAP	https://www.upwork.com/resources/soap-vs-rest
6	JSON datatypes	https://www.w3schools.com/js/js_json_datatypes.asp
7	Converting JSON to JS Object	https://www.w3schools.com/js/js_json_parse.asp
8	Converting JS Object to JSON	https://www.w3schools.com/js/js_json_stringify.asp

Downloadable Source Codes

Sr. #	Topic	Web Link
1	Git Profile	https://github.com/mbabarali
2	Shopping List Application – vanilla JavaScript	https://github.com/mbabarali/FA24-vanillaJS-ShoppingListsApp
3	ToDo Application – React.js	https://github.com/mbabarali/FA24-ReactJS-ToDoApp
4	Bootstrap Tutorial	https://github.com/mbabarali/FA23-Bootstrap5-Basics
5	CSS Tutorial	https://github.com/mbabarali/FA24-CSS3
6	HTML Tutorial	https://github.com/mbabarali/FA24-HTML5

Sr. #	Topic	Web Link
1	Backend for ToDo App	https://github.com/mbabarali/FA24-NodeJS-ToDoApp