

Code React Sweetly

A Beginner-Friendly Guide to Build and Deploy Modern Apps with React

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Introduction

Welcome to Code React Sweetly!

React is one of the most powerful and widely used libraries for building user interfaces with JavaScript. From small components to large-scale front-end and full-stack applications, React gives you the flexibility to create interactive, efficient, and modern features.

But learning React can feel overwhelming. With so many new terms, patterns, and frameworks like Next.js in the mix, it's easy to feel lost.

That's why this book focuses on React itself without unnecessary distractions. Once you've mastered React at its core, you'll have the confidence to use it with or without frameworks to build anything you can imagine.

Why This Book Is Different

This isn't a book about theory alone. The fastest way to learn React is by building and that's precisely what you'll do here.

Each chapter covers an essential concept and then demonstrates how to apply it in hands-on examples and projects. By the end, you'll understand React because you wrote code, solved problems, and built working applications.

Think of this book not as a tutorial, but as a launchpad to get you out of "tutorial hell" and into shipping real-world projects.

The Roadmap

Your main project in this book will be a shopping cart application. This practical, scalable app ties together React's core concepts. If that sounds intimidating, don't worry; this book provides the tools you need to make the process enjoyable and approachable.

Along the way, you'll also build smaller, focused projects to reinforce your skills and deepen your understanding.

The Tools

To ensure a smooth learning experience, this book utilizes specific versions of dependencies. It's best to stick with these versions. That way, you'll stay focused on mastering the concepts rather than debugging surprises caused by newer releases.

Once you've completed the book, you'll be ready to upgrade, experiment, and even troubleshoot when things inevitably break—that's where the real growth happens.

What You Should Already Know

You'll get the most value out of this book if you're familiar with:

- JavaScript fundamentals (variables, functions, arrays, objects)
- Basic CSS for styling
- HTML basics for structure

If you've ever written a small JavaScript file or built a simple "Hello World" website, you're ready.

A Personal Note

If you ever get stuck, have questions, or just want to share your progress, I'd love to hear from you. You can reach me at contact@codesweetly.com or on Twitter at @oluwatobiss.

Let's Begin!

By the time you finish this book, you'll have the skills and confidence to build, style, and deploy real-world React applications.

So, open up your code editor, roll up your sleeves, and let's dive in.

We'll start with the foundation: What React is, why it exists, and how to use it effectively.

Getting Started with React

React is a component-based JavaScript library for efficiently building user interfaces (UI).

No matter how massive or miniature your project may be, React is well-suited to help you develop any web application efficiently.

Developers primarily use React to build independent, reusable components that can be combined with other isolated user interfaces to create highly scalable applications. For instance, the image below illustrates the individual components of YouTube's video player page.



Figure 1. The YouTube video player page is illustrated as a combination of independent components.

In other words, React helps build complex UIs from small, isolated components that can easily be reused in multiple applications. Each independent component tells React the exact element you want to display on screen.

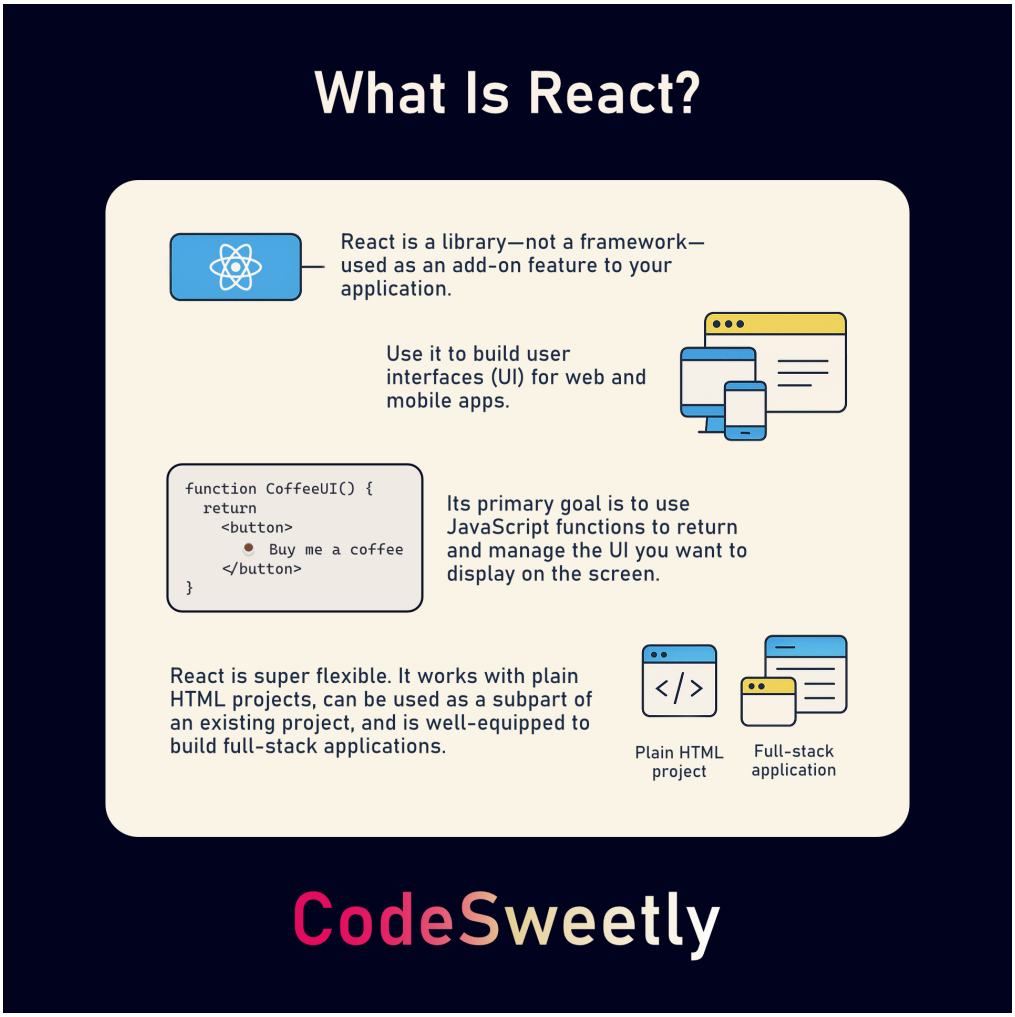

Figure 2. The super flexible JavaScript library for modern frontend and full-stack app development

The image above illustrates React as a highly adaptable library that uses JavaScript functions to build user interfaces for both mobile and web-based applications. Let's discuss the points highlighted in the image.

Why the "React" Name?

The name stems from the idea that React renders your UI and reacts to events in the user interface it has rendered on screen.

Is React a Framework?

No, React is a library–not a framework. React serves only as an add-on feature to your application. It is not designed to be used as an app's primary support system.

Is React Only for Web Development?

No, you don't just use React on the web. For instance, ReactDOM helps build web applications, and React Native helps build mobile applications.

Can React be used for full-stack applications?

Absolutely. React is super flexible. You can use it in simple HTML projects, integrate it into existing code, or build complex full-stack applications. Its adaptability makes it suitable for a wide variety of development scenarios.

What's the Primary Goal of React?

React's primary goal is for you to use JavaScript functions to return and manage the UI (HTML element) you want to render (display) on the screen. For instance, consider the following:

Figure 3. :

```
function DonationUserInterface() {
  return <button>Buy me a coffee</button>;
}
```

The JavaScript function above is a React component that returns the UI (HTML button element) we want to display on screen and manage with React. In fact, let's implement the `DonationUserInterface` component on a live website using only HTML and JavaScript – no frameworks.

Adding React Component to a Website

Follow the steps below to add a donation UI component to a live HTML website.

Creating a new project directory

Figure 4. :

```
1  mkdir codesweetly-donation-ui-001
```



You can use any name you prefer. In this guide, we'll use `codesweetly-donation-ui-001` for demonstration.

Afterward, navigate to your project directory using the command line.

Figure 5. :

```
1  cd path/to/codesweetly-donation-ui-001
```

Creating a DOM container

To add a React component to a webpage, you first need to specify the section of the page where you want to insert the UI. So, create an HTML page:

Figure 6. :

```
1  touch index.html
```

Afterward, open the new file and add the following code:

Figure 7. index.html

```
<!DOCTYPE html>
<html lang="en-US">
  <head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <title>CodeSweetly Donation UI</title>
  </head>
  <body>
    <!-- A div container (the DOM node) created for React to manage -->
    <div id="donation-ui"></div>
  </body>
</html>
```

The snippet above created a DOM node (`<div>` element)—inside which we want React to display and manage a donation user interface. In other words, the `<div>` represents the website's section you want React to manage.

Note

- The `div`'s `id` attribute is the reference we would later use in a JavaScript file to find the container and tell React to insert a donation UI.
- Although most developers use a `<div>` tag as the DOM container, you can use other HTML elements like the `<main>` tag.
- You can have multiple DOM containers anywhere inside the `<body>` element.
- A DOM container is usually left empty as React will overwrite its content.

Importing React, Babel, and your component

Use script tags to load React, Babel, and your component into your project's HTML page.

Figure 8. index.html

```
<!DOCTYPE html>
<html lang="en-US">
  <head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <title>CodeSweetly Donation UI</title>
    <!-- Load the React Library -->
    <script src="https://unpkg.com/react@18/umd/react.development.js"></script>
    <!-- Load the ReactDOM API -->
    <script src="https://unpkg.com/react-dom@18/umd/react-dom.development.js"
    ↪  ></script>
    <!-- Load the Babel Compiler -->
    <script src="https://unpkg.com/@babel/standalone/babel.min.js"></script>
  </head>
  <body>
    <div id="donation-ui"></div>
    <!-- Load your React component -->
    <script type="text/babel" src="DonationUserInterface.js"></script>
  </body>
</html>
```

The snippet above used the first three script tags to load React, ReactDOM, and Babel from unpkg.com.

At the same time, we used the fourth script tag to import our donation component (which we will create in the following section).

Note

- The `react` package is a library containing React's core functionality for creating React components.
- The ReactDOM API provides the required methods to use React with the DOM.
- Babel is a compiler for transforming React code into plain JavaScript because browsers, by default, do not understand React syntaxes.
- The `type="text/babel"` attribute tells Babel to automatically execute and convert the `DonationUserInterface.js` script from React code into plain JavaScript.
- The setup above is recommended for learning React only. Don't use it for public projects (production environment). You will learn how to set up React for production later in this book.

- The scripts will not work if your internet or `unpkg.com`'s server is down. So, if nothing renders on-screen, enter each script's `src` URL in your browser to confirm if the server responds successfully.

Creating your component

Create a `DonationUserInterface.js` JavaScript file inside the same folder in which your HTML file is located.

Figure 9. :

```
touch DonationUserInterface.js
```

Then, paste the following code inside the JavaScript file you've just created:

Figure 10. DonationUserInterface.js

```
function DonationUserInterface() {
  const [donate, setDonate] = React.useState(false);

  function createUserInterface() {
    if (donate) {
      return (
        <p>
          <a href="https://www.buymeacoffee.com/codesweetly">Support page</a>.
          Thank you so much!
        </p>
      );
    }
    return <button onClick={() => setDonate(true)}>Buy me a coffee</button>;
  }
  return createUserInterface();
}

const root = ReactDOM.createRoot(document.getElementById("donation-ui"));
root.render(<DonationUserInterface />);
```

The snippet above does the following:

1. Defines a component named `DonationUserInterface`.

2. Initializes the component's state (built-in object) with the Boolean value `false`.
3. Programs the component to return a paragraph element if the state's `donate` variable is `true`. Otherwise, it should return a button element.
4. Creates a `ReactDOMRoot` object instance for the `donation-ui` HTML element you want React to manage. Afterwards, it assigns the newly created instance to the `root` variable.
5. Uses the object instance's `render()` method to display the `DonationUserInterface` component inside the root `donation-ui`.

Configuring a local server

HTML files containing ES modules work only through `http://` and `https://` URLs, not locally via a `file://` URL.

Since we previously used the `type="text/babel"` attribute to convert the `DonationUserInterface.js` JavaScript file to an ES module, we need a local server, like Live Server or Servor, to load the HTML document via an `http://` scheme. Let's install Servor so we can use it for this project.

Installing the Servor local server

Figure 11. :

```
1  npm i servor@4.0.2 -D
```



- `i` is the shorthand notation for `install`.
- The `-D` flag is the shorthand notation for `--save-dev`.

Running your app

After installing Servor, use it to start your app from your terminal:

Figure 12. :

```
npx servor --browse --reload
```

Note

- Close the server using Ctrl + C on Windows or Cmd + C on Mac.
- `--browse`: Opens the browser once the server starts.
- `--reload`: Reload the browser whenever you update the project's files.
- You can also add the `servor` command to the `"scripts"` field of your project's `package.json` file:

Figure 13. package.json

```
{
  "scripts": {
    "start": "servor --browse --reload"
  },
  "devDependencies": {
    "servor": "^4.0.2"
  }
}
```

By so doing, you can run your app from your terminal like this:

Figure 14. :

```
npm run start
```

And that's it! You've successfully added a React component to a live website using a JavaScript function to render a donation UI on screen!



You can display components in multiple sections of your HTML page.

Why Use HTML Inside JavaScript?

Are you asking why we are writing HTML inside JavaScript? Well, that HTML-like code is called JSX. Learn about it in the next chapter.

JSX

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Use JSX like any JavaScript expression

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Wrap multi-line JSX in parentheses

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Wrap expressions in curly braces

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Use camelCase to name attributes

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Close empty JSX tags properly

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A React component can return only a single element

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Invoking components without props

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Invoking components with props

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Invoking components with nested content

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Invoking components with variables

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Invoking components with the dot notation

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How to Display a Component Inside a Browser's DOM Node

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1. Create a new `ReactDOMRoot` object instance

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2. Display your component inside the `root` object instance

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3. Enable strict mode

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Important Things to Know About React Components

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1. Use the Pascal case naming convention for your components

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React component tag example

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HTML component tag example

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2. Bracket notation expressions do not work as React component tags

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3. Bracket notation expressions in variables work as React component tags

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4. Keep components pure

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Example 2: Pure React component

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5. Declare components at your file's top level

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Split large components into smaller, reusable ones

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The issue with rigid components

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How to split rigid components into reusable chunks

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5. Create the Header component

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6. Create the FeaturedImage component

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7. Create the Post component

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8. Import your extracted components into the BlogPost.js file

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9. Run your application

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4. Create a components directory

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5. Create the Checkbox component

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6. Create the root component

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Optional: Configure VS Code to Auto-Format and Lint Your Code

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1. Install the ESLint and Prettier VSCode extensions

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2. Configure VS Code to use Prettier to auto-format on save

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Test React Components

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What's the Difference Between a Test Runner and a React Component Testing Tool?

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Get the Right Node and NPM Version

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Create a New Directory for Your Project

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Create a package.json File

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Install React and ReactDOM

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Configure Your Test Environment

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Specify Jest as Your App's Test Runner Tool

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Initialize ESLint's Configuration

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Install ESLint's Test Plugins

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JavaScript Guide to Test React Components

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Integrate ESLint with the test plugins

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Import `jest-dom`'s matchers

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Install the code compiler

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Configure Babel to compile your code

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Configure Jest to set up `jest-dom` before running tests

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Configure Jest's testing environment

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Create the web page

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Install the app's module bundler

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Configure Parcel to ignore Babel

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Run your application

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Refactor the test code

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Refactor your React component

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Rerun the test

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TypeScript Guide to Test React Components

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Import `jest-dom`'s matchers

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Install TypeScript and type definitions

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Configure the TypeScript compiler

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Install the Jest transformer

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Configure Jest to compile TypeScript files

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Configure Jest to set up `jest-dom` before running tests

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Configure Jest to read TypeScript configuration files

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Useful Resources

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Epilogue

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What Next?

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Keep Growing

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One Last Favor

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Final Words

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