

# Custom Components

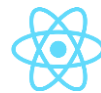


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## Custom Components



### Outline

#### Components

##### Function Components

##### Convention Used

##### Invoking Components

#### Monolithic Components

#### Parent-Child Components

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## Custom Components



- **Components** let you split the **UI** into independent, reusable pieces, and think about each piece in isolation.

- **Types**

- Function Components
  - Class Components

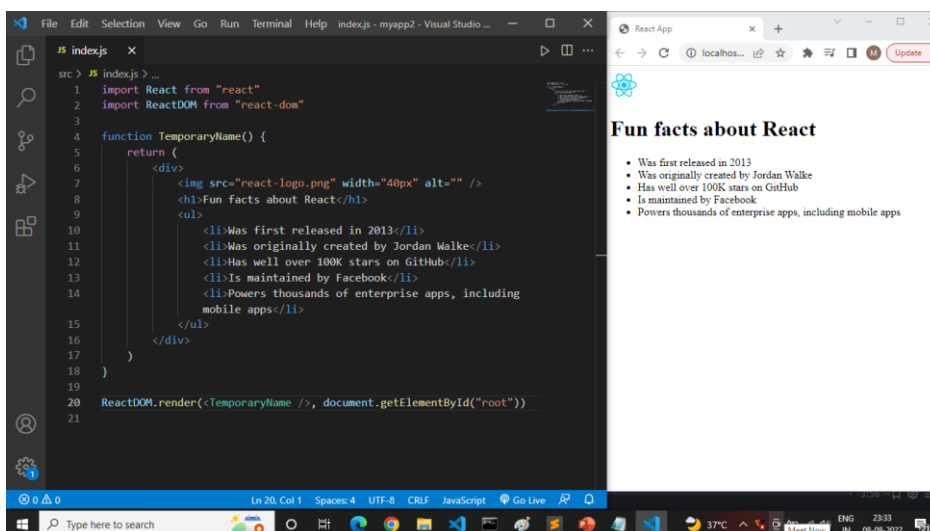
```
function Welcome() {
  return <h1>Hello World!</h1>
}
```

- The simplest way to define a function component is to write a JavaScript function:
- The above function is a valid React component. It returns a React element.
- We call such components **function components** because they are literally JavaScript functions.

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## Function Components



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## Monolithic Components



The screenshot shows a Visual Studio Code editor with a file named `index.js`. The code defines a `Page` component that returns a single `div` containing a header, a heading, a list of reasons to learn React, and a footer. The code is as follows:

```
1 import React from "react"
2 import ReactDOM from "react-dom"
3
4 function Page() {
5   return (
6     <div>
7       <header>
8         
9       </header>
10      <h1>Why learn React?</h1>
11      <ol>
12        <li>React is flexible and efficient</li>
13        <li>React developers are in demand</li>
14        <li>React doesn't take long to learn</li>
15      </ol>
16      <footer>
17        <small>&copy; 2022 Mukhtar development. All rights reserved.</small>
18      </footer>
19    </div>
20  )
21 }
22
23 ReactDOM.render(<Page />, document.getElementById("root"))
24
```

To the right of the editor, a browser window shows the rendered output of the `Page` component. It displays the React logo, the heading "Why learn React?", a list of three reasons, and the footer text. The browser's address bar shows `localhost...` and the page title is "React App".

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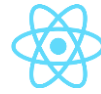
## Parent-Child Components



- Technically it is **NOT RIGHT** to have all the React elements in a single function component.
  - Such components are called **MONOLATHIC** components

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