

Information Technologies for Industrial Engineers

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React Basics

JSX

App.tsx

```
import './App.css';

function App() {
  const msg = "This is from a variable.";
  const num = 0;
  return (
    <div>
      <div>This is just like HTML.</div>
      <div>{msg}</div>
      <div>Calculation: {num + 1}</div>
      <div>Call function: {sum(1, 2)}</div>
    </div>
  );
}

export default App;
```

App.tsx (Below)

```
function sum(a: number, b: number) {  
  return a + b;  
}
```

Style

index.css

```
body {  
  margin: 0;  
  padding: 0;  
  font-family: Arial, Helvetica, sans-serif;  
}
```

app.css

```
.wrapper {  
  margin: 0.5em auto;  
  width: 95vh;  
}  
  
.header {  
  color: teal;  
}
```

App.tsx

```
function App() {  
  // ...  
  return (  
    <div className="wrapper">  
      // ...  
      <div className="header">Test CSS</div>  
    </div>  
  );  
}
```

- Note the keyword `className`

Event

App.tsx

```
return (  
  // ...  
  <button onClick="{handleClick}">Click</button>  
);  
  
function handleClick() {  
  alert("Hello!");  
}
```

- Note the keyword `onClick`

Component

- Components are foundation upon which you build user interfaces (UI).
- Components are functions that return `JSX` (called React Nodes).

./src/Nav.tsx

```
function Nav() {  
  return (  
    <div className="nav">  
      <span>🔥</span>  
      <span>Home</span>  
      <span>About Me</span>  
    </div>  
  );  
}  
  
export default Nav;
```

App.tsx

```
import Nav from "../Nav"; ➡  
  
function App() {  
  return (  
    <>  
      <Nav /> ➡  
      <div className="wrapper">// ...</div>  
    </>  
  );  
}
```

- Notice the use of `<>...</>`

App.css

```
.nav {  
  display: flex;  
  align-items: center;  
  gap: 0.5em;  
  color: teal;  
  background-color: rgb(243, 243, 243);  
  padding: 0.2em 0.5em;  
}
```