



Introduction to React

Mohamed Mukthar Ahmed

1



Introduction to React



Outline

Prerequisites

What you'll learn?

Why React?

Virtual DOM

Composable

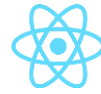
Web Components

Declarative

Mohamed Mukthar Ahmed

2

Prerequisites

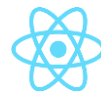


What you should already know 💡



Mohamed Mukhtar Ahmed

3



What you'll learn

JSX State HTTP
Event Handling **Components**
Props Styling
More! Lifecycle Methods Forms

Mohamed Mukhtar Ahmed

4



Why React?

- Virtual DOM
- Reusable (and clearer) Web Components
- Maintained by Facebook
- Hireable



Mohamed Mukthar Ahmed

5

Virtual DOM



View



React



Mohamed Mukthar Ahmed

6



Why React?

It's composable!



Mohamed Mukhtar Ahmed

7



Why React?

It's composable!



Mohamed Mukhtar Ahmed

8



```

<nav class="navbar navbar-expand-lg navbar-light bg-light">
  <a class="navbar-brand" href="#">Navbar</a>
  <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent"
    aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
    <span class="navbar-toggler-icon"></span>
  </button>

  <div class="collapse navbar-collapse" id="navbarSupportedContent">
    <ul class="navbar-nav mr-auto">
      <li class="nav-item active">
        <a class="nav-link" href="#">Home <span class="sr-only">(current)</span></a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Link</a>
      </li>
      <li class="nav-item dropdown">
        <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
          data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">
          Dropdown
        </a>
        <div class="dropdown-menu" aria-labelledby="navbarDropdown">
          <a class="dropdown-item" href="#">Action</a>
          <a class="dropdown-item" href="#">Another action</a>
          <div class="dropdown-divider"></div>
          <a class="dropdown-item" href="#">Something else here</a>
        </div>
      </li>
      <li class="nav-item">
        <a class="nav-link disabled" href="#">Disabled</a>
      </li>
    </ul>
    <form class="form-inline my-2 my-lg-0">
      <input class="form-control mr-sm-2" type="search" placeholder="Search" aria-label="Search">
      <button class="btn btn-outline-success my-2 my-sm-0" type="submit">Search</button>
    </form>
  </div>
</nav>

```

Web Components

Mohamed Mukthar Ahmed

9



```

<body>
  <MySweetNavbar />
  <MainContent />
  <MySweetFooter />
</body>

```

Web Components

Mohamed Mukthar Ahmed

10



Why React?

It's composable!

It's declarative!

Declarative

What should be done?

"Just tell me what to do, and I'll worry about how I get it done"

Imperative

How should it be done?

"Describe to me every step on how to do something, and I'll do it"

Mohamed Mukhtar Ahmed