

What is React?

1

- React is a flexible , efficient, open-source JavaScript library
- It was developed by Facebook back in 2013 for building user interfaces (front end).
- Facebook Software Engineer, Jordan Walke, created it.

Why React?

- It allows us to create a complex UI by making components (small & isolated pieces of code)
- components are reusable



React component

2

Message.js

```
import React from 'react'
export default function Message() {
  return (
    <h1 style={{backgroundColor: "#ffa45b", textAlign: "center"}}>
      Welcome to React
    </h1>
  )
}
```

<Message />

<Message />

<Message />

Component

HTML

CSS

JS

Why React?

1. Reusable component
2. Load fast
3. External plugin
4. Around 45 % of world's website use React.
5. major brands like Facebook, Instagram, Yahoo, Netflix, Airbnb, dropbox using react

```
PS E:\web projects\react-tutorial> ls
PS E:\web projects\react-tutorial> npx create-react-app my-app

Creating a new React app in E:\web projects\react-tutorial\my-app.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

[ ] / fetchMetadata: sill resolveWithNewModule unique-s
```

3

npx create-react-app app_name

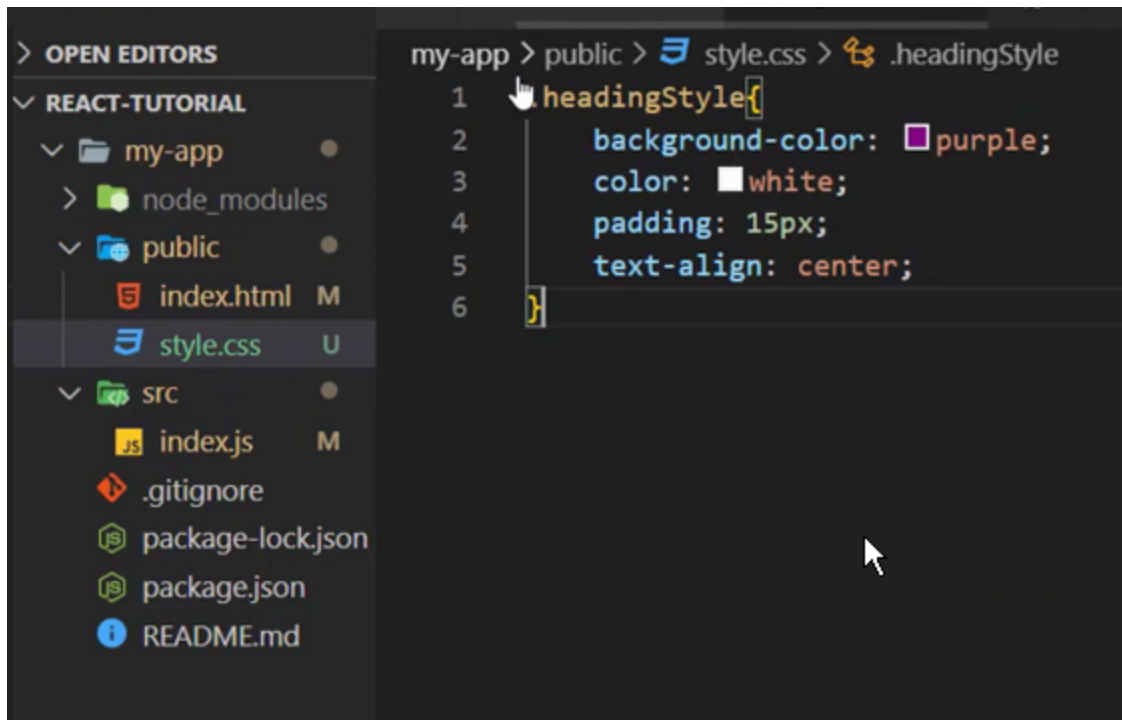
npm start

What is JSX?

- **JSX** stands for JavaScript XML.
- **JSX** allows us to write and add HTML in **React**.

```
ReactDOM.render(  
  <h1>Todo App</h1>  
  <h3>Call Family</h3>,  
  document.getElementById('root')  
)
```

one element can be render at a time



The image shows a VS Code editor interface. On the left is the 'EXPLORER' sidebar with the following structure:

- REACT-TUTORIAL
 - my-app
 - node_modules
 - public
 - index.html (M)
 - style.css (U)
 - src
 - index.js (M)
 - .gitignore
 - package-lock.json
 - package.json
 - README.md

The main editor area shows the file path `my-app > public > style.css` and the content of the `.headingStyle` class:

```
1 headingStyle{  
2     background-color: purple;  
3     color: white;  
4     padding: 15px;  
5     text-align: center;  
6 }
```

```
ReactDOM.render(  
  <div>  
    <h1 className="headingStyle">Todo App</h1>  
    <h3>{todoTitle}</h3>  
    <p>{todoDesc}</p>  
    <p>{dateName + "/" + monthName + "/" + yearName}</p>  
  </div>,  
  document.getElementById('root')  
)
```

components

