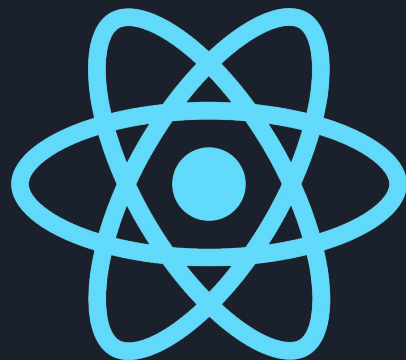


React Workshop





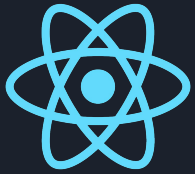
What is React?

- “A JavaScript library for building user interfaces”
- Declarative Style of Programming (like HTML)
- Component Based Architecture (Reusable Pieces)

What can I do with React?



Web Sites (Gatsby)



Web Apps (React)



Mobile Apps (React Native)



Desktop Apps (Electron)

What will we cover?



Web Apps (React)

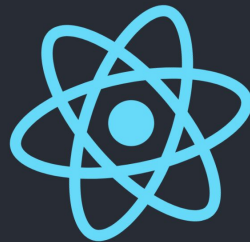


Let's get started!

nodejs.org

```
npx create-react-app my-app  
cd my-app  
npm start  
open http://localhost:3000/
```

The Result



Edit `src/App.js` and save to reload.

[Learn React](#)

File Structure

▲ REACT-WORKSHOP

▸ node_modules

▲ public

★ favicon.ico

<> index.html

{ } manifest.json

▲ src

App.css

JS App.js

JS App.test.js

index.css

JS index.js

🖼 logo.svg

JS serviceWorker.js

📄 .gitignore

{ } package.json

📖 README.md

👤 yarn.lock

Styles

View and Logic

Unit tests



Agenda

- What is a Component?
- Component State
- Lifecycle Methods
- Element Refs



What is a Component

- The building block of React
- Allows you to “put HTML in JavaScript”
- Can be composed in a declarative manner
- Act as functions (their arguments are called props)



Component State

- Components can hold internal state
- State is updated asynchronously
- Updating state causes the component to re-render

Lifecycle methods

Initialization

setup props and state

Mounting

componentWillMount

render

componentDidMount

Updation

props

componentWillReceiveProps

shouldComponentUpdate

componentWillUpdate

render

componentDidUpdate

states

shouldComponentUpdate

true

false

componentWillUpdate

render

componentDidUpdate

Unmounting

componentWillUnmount



Element Refs

- React uses a Virtual DOM
- As a result, you do not have access to the HTML element like you normally would
- Refs are references to HTML elements
- Allows you to call their methods

Live Demo! 🤖



Bonus Topic!



CSS in JS





CSS in JS

- Achieved through libraries like **styled-components**
- Allows components to be fully encapsulated in single files

Thanks!
Any Questions?

