



React.js

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What is React?

- ReactJs is a Javascript library
- Created and maintained by Meta (formerly Facebook) to enhance web development efficiency.

Features of React:

- Component-Based Architecture: Reusable code for efficient development.
- Declarative UI: Simplifies creating dynamic web interfaces.
- Virtual DOM: Boosts rendering speed and performance.

History and Background

React's Timeline:

2011: Conceptualized by Jordan Walke at Facebook.

2013: Open-sourced at JSConf US.

2015: React Native introduced for mobile development.

Did You Know?

React was initially developed to improve the performance of Facebook's News Feed.

Advantages of Using React

- **Reusable Components:**

Promote consistency and modularity.

- **Virtual DOM:**

Minimizes costly DOM updates.

- **Vibrant Ecosystem:**

Extensive support from community and industry.

- **Integration Flexibility:**

Works seamlessly with other libraries or frameworks.

Setup and Installation

Prerequisites:

- Basic understanding of JavaScript and Node.js.
- Install a code editor like VS Code.

Installation Steps:

- Download and install [Node.js](#) from nodejs.org.

Open a terminal and execute:

- npx create-react-app my-app
- cd my-app
- npm start

Navigate to <http://localhost:3000> in your browser to view your app.

How to add react in the website ?

- Go to ReactJs website and click in the doc
- Add React to a Website (it show on the left side) click here.
- Follow three steps.

Step 1: Add a DOM Container to the HTML

Step 2: Add the Script Tags

Step 3: Create a React Component