



# React Basics

## 1. What is React.js?

React is a JavaScript library for building user interfaces. It helps you create dynamic web apps with reusable components.

## 2. What is Vite?

Vite is a fast build tool for front-end projects. It's great for React and other frameworks—super quick startup and updates.

## 3. What's the difference between EJS and React?

EJS is a templating engine that runs on the server to render HTML. React runs in the browser (client-side) and builds interactive UIs with components.

## 4. Main advantages of React:

- Reusable components
- Fast with Virtual DOM
- Huge community/support
- Works great with modern tools

## 1. What is Virtual DOM and why is it important?

Virtual DOM is a lightweight copy of the real DOM. React uses it to figure out what changed and updates only what's needed—making the app faster.

## 2. Contents of folders:

- `src`: Your React code (components, styles, logic)
- `public`: Static files (index.html, images)
- `assets`: Often inside `src`, holds images, fonts, etc.
- `node_modules`: All your project's dependencies (auto-generated)

## 1. Create a React component:

```
jsx
CopyEdit
function Hello() {
  return <h1>Hello, world!</h1>;
}

export default Hello;
```