



React JS For Beginners



By Tech Jashwanth

What is React JS

- React is a **JavaScript library** used to build user interfaces for websites and web apps.
- It helps developers build interactive and fast **web apps easily**.
- **React is component-based**, which means you build small, reusable pieces (called components) and combine them to create a full app.
- It was developed by Facebook

Companies Using ReactJS

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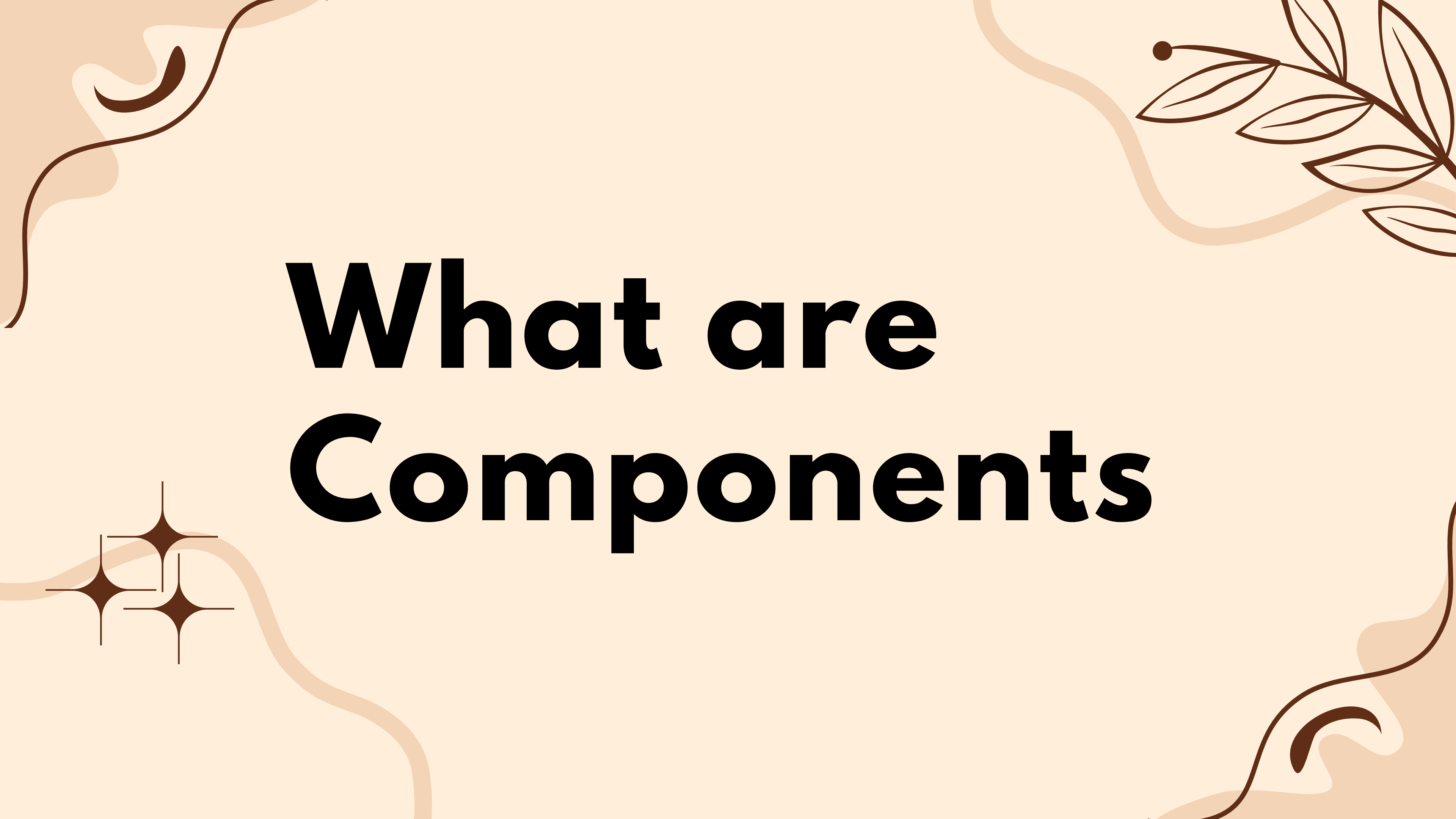
facebook



Why React JS

- **Easy to learn** for anyone who knows JavaScript.
- **Component-based structure** helps build large apps faster.
- Faster performance using **Virtual DOM**.
- Huge community support and many job opportunities.
- Used in many popular apps like Facebook, WhatsApp Web, and Instagram.

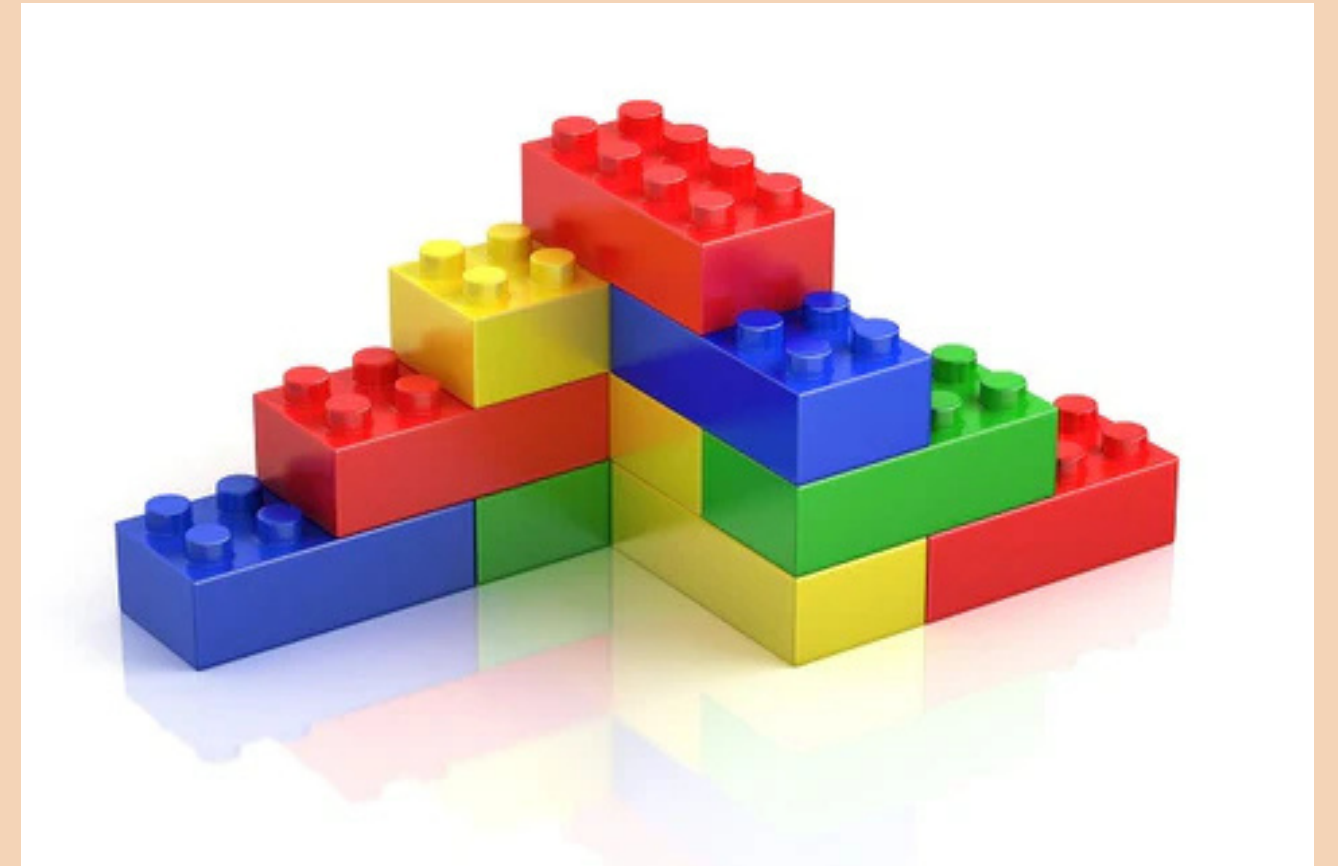
What are Components



What are Components

- A component is like a small building block of a web page.
- Each component does one thing — like showing a button, a header, a card, or a form.
- Components make your code cleaner, reusable, and easier to manage.
- In React, we write components using JavaScript + HTML-like code (called JSX).

What are Components





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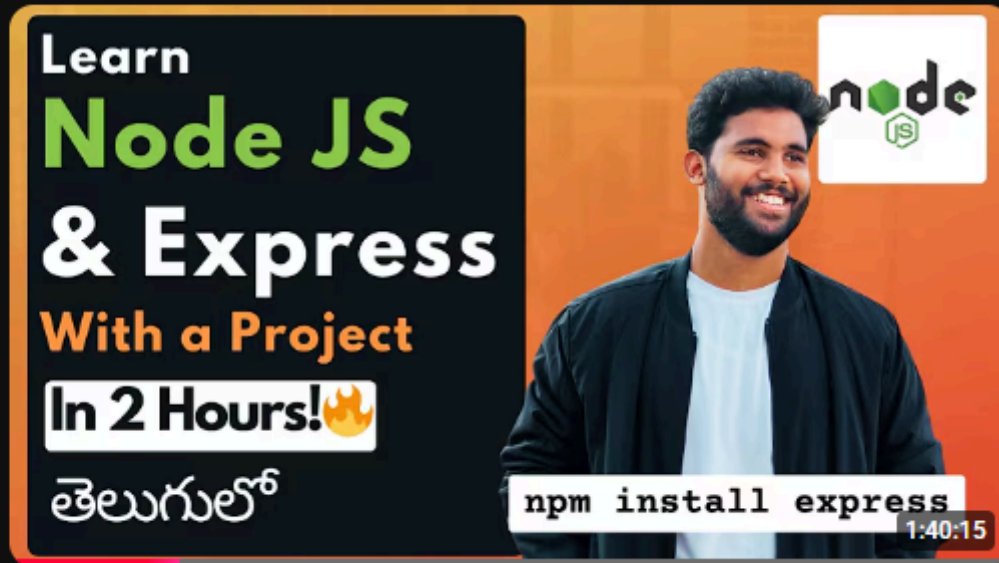
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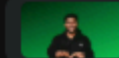
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Plain JS

vs

React JS



How is React JS Different from Vanilla JS

React makes it easier and cleaner to build dynamic user interfaces compared to *plain (Vanilla) JavaScript*.

Vanilla JS

```
<div id="root"></div>

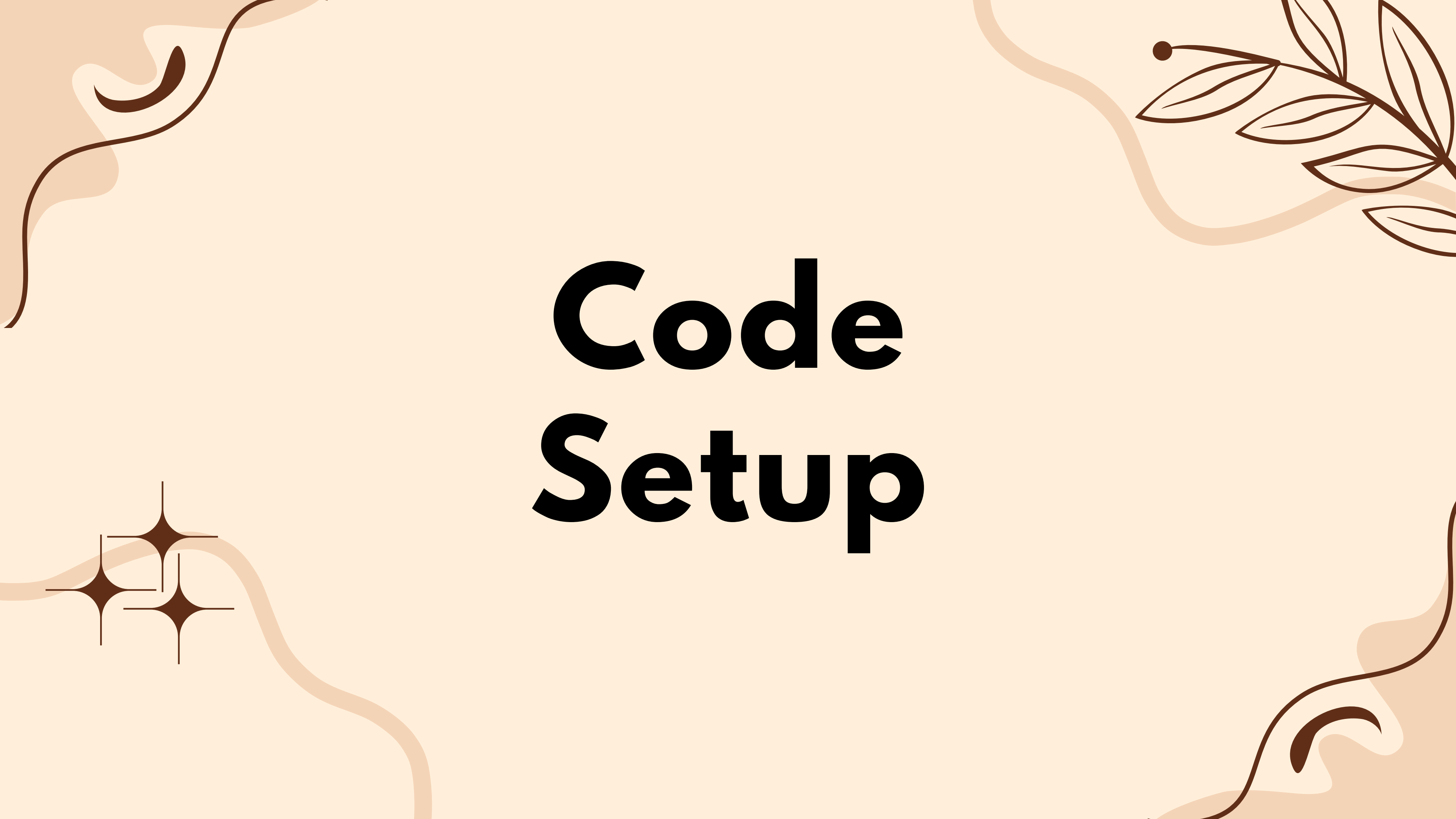
const names = ['Alice', 'Bob', 'Charlie'];
const root = document.getElementById('root');

names.forEach(name => {
  const p = document.createElement('p');
  p.textContent = name;
  root.appendChild(p);
});
```

React JS

```
function NameList() {
  const names = ['Alice', 'Bob', 'Charlie'];
  return (
    <div>
      {names.map(name => <p key={name}>{name}</p>)}
    </div>
  );
}
```

Code Setup



Creating ur First React App





What is Vite? and why do we use it to create react app

Code Walk-through

How Files are Linked to each-other



Creating Components

What is JSX



What is JSX

- JSX stands for JavaScript XML.
- It lets you write HTML inside JavaScript.
- Makes it easy to create UI elements directly in your JavaScript code.
- JSX looks like HTML, but it's actually JavaScript under the hood.

```
// Example JSX
const element = <h1>Hello, World!</h1>;
```



DOM

vs



Virtual DOM

What is DOM and Virtual DOM

- DOM (Document Object Model) is the structure of the web page shown in the browser.
- In regular JavaScript, updating the DOM can be slow if done too many times.
- Virtual DOM is a copy of the real DOM used by React.
- React updates the Virtual DOM first, finds the changes, and updates only what's needed in the real DOM.
- This makes the app faster and more efficient.

Actual DOM

```
<html>
  <head>
    <title>DOM Example</title>
  </head>
  <body>
    <h1>My Web Page</h1>
    <p>This is a paragraph.</p>
    <ul>
      <li>Item One</li>
      <li>Item Two</li>
      <li>Item Three</li>
    </ul>
    <button>Click Me</button>
  </body>
</html>
```



DOM Tree (DOM Document Object Model)

DOM Tree (DOM Document Object Model)

DOM Tree (DOM Document Object Model)

DOM Tree (DOM Document Object Model)

How React Uses Virtual DOM?

What are Props



What are Props

- Props stand for **properties**.
- Props are used to send data from one component to another (usually from parent to child).
- They help make components dynamic and reusable.
- Think of props like arguments passed to a function.

```
function Welcome(props) {  
  return <h2>Hello, {props.name}!</h2>;  
}
```

```
// Usage
```

```
<Welcome name="Alice" />
```

The background is a light beige color with decorative elements. In the top left, there is a dark brown wavy line and a small floral motif. In the top right, there is a dark brown wavy line and a branch with several leaves. In the bottom left, there are three dark brown starburst shapes. In the bottom right, there is a dark brown wavy line.

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