

# React.js Cheat Sheet for Beginners

## 1. What is React?

A JavaScript library for building user interfaces

Created by Facebook (used by Instagram, Netflix, WhatsApp)

Makes building websites faster and easier

## 2. Core Concepts (Like LEGO Bricks)

### A. Components = Reusable Blocks

```
// Simple Button Component
function MyButton() {
  return <button>Click Me</button>;
}
```

### B. JSX = HTML in JavaScript

```
const heading = <h1>Hello React!</h1>;
```

### C. State = Component's Memory

```
const [count, setCount] = useState(0); // Stores a number
```

### D. Props = Passing Data

```
function Greet(props) {
  return <h1>Hello {props.name}!</h1>;
}
// Usage: <Greet name="Alice" />
```

## 3. Simple Counter App

```
import { useState } from 'react';

function Counter() {
  const [count, setCount] = useState(0);

  return (
    <div>
```

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```
    <p>Count: {count}</p>
    <button onClick={() => setCount(count + 1)}>
      Increase
    </button>
  </div>
);
}
```

How It Works:

1. `useState(0)` creates a counter starting at 0
2. `setCount` updates the value
3. React automatically shows the new count

## 4. React vs Regular JavaScript

Feature	Regular JS	React
Updating UI	Manual DOM updates	Automatic updates
Code Reuse	Copy-paste	Reusable components
Speed	Slower	Faster

## 5. Why Learn React?

Easier than vanilla JS

Faster development

Better jobs (high demand)

Works for mobile too (React Native)

## 6. Starter Project Setup

```
npm create vite@latest my-app -- --template react
cd my-app
npm install
npm run dev
```

## 7. Practice Ideas

Counter App (learn state)

Todo List (learn lists and state)

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Weather App (learn API calls)

Pro Tip: Start small! Build one component at a time.

Printable Version Tips:

1. Print in landscape mode for best layout
2. Use color highlights for code sections
3. Keep this sheet by your workstation