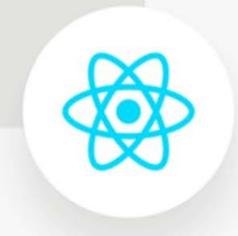
REACT

JAVASCRIPT LIBRARY FOR BUILDING USER INTERFACES



REACT

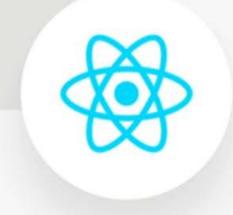
EXTREMELY POPULAR, DECLARATIVE, COMPONENT-BASED, STATE-DRIVEN JAVASCRIPT LIBRARY FOR BUILDING USER INTERFACES,

CREATED BY FACEBOOK (9) 🐯 😥









REACT



Based on components

Declarative

State-driven

JavaScript library

Extremely popular

Created by facebook

REACT

EXTREMELY POPULAR, DECLARATIVE, COMPONENT-BASED, STATE-DRIVEN JAVASCR LIBRARY FOR BUILDING USER INTERFACES,

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Declarative

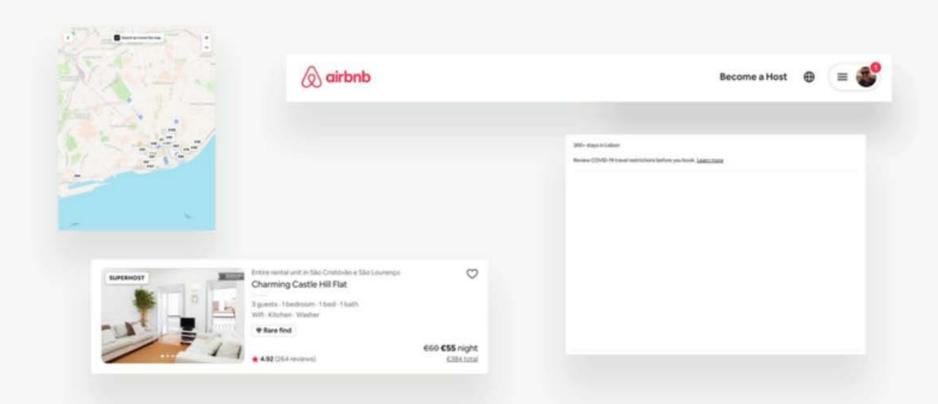
State-driven

JavaScript library

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Components are the building blocks of user interfaces in React



Based on components

Declarative

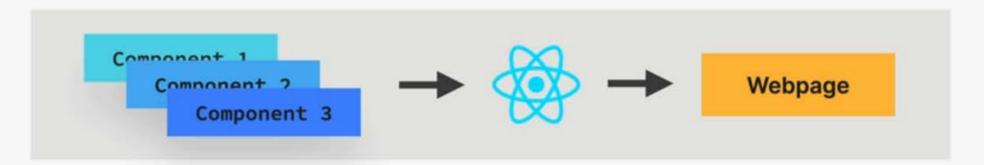
State-driven

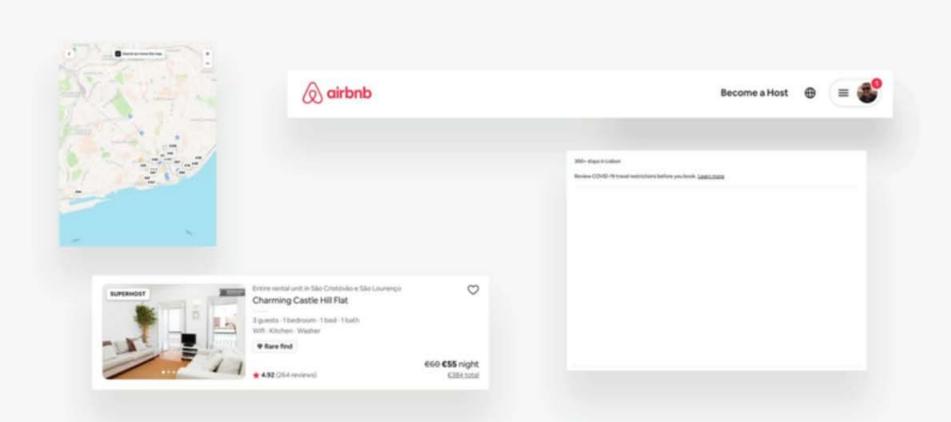
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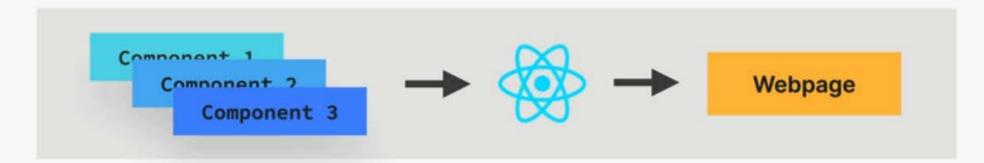
State-driven

JavaScript library

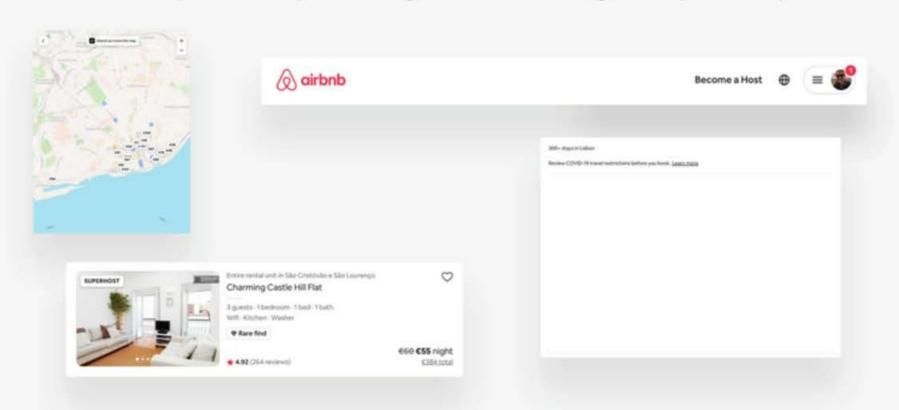
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Components are the building blocks of user interfaces in React



We build complex Uls by building and combining multiple components



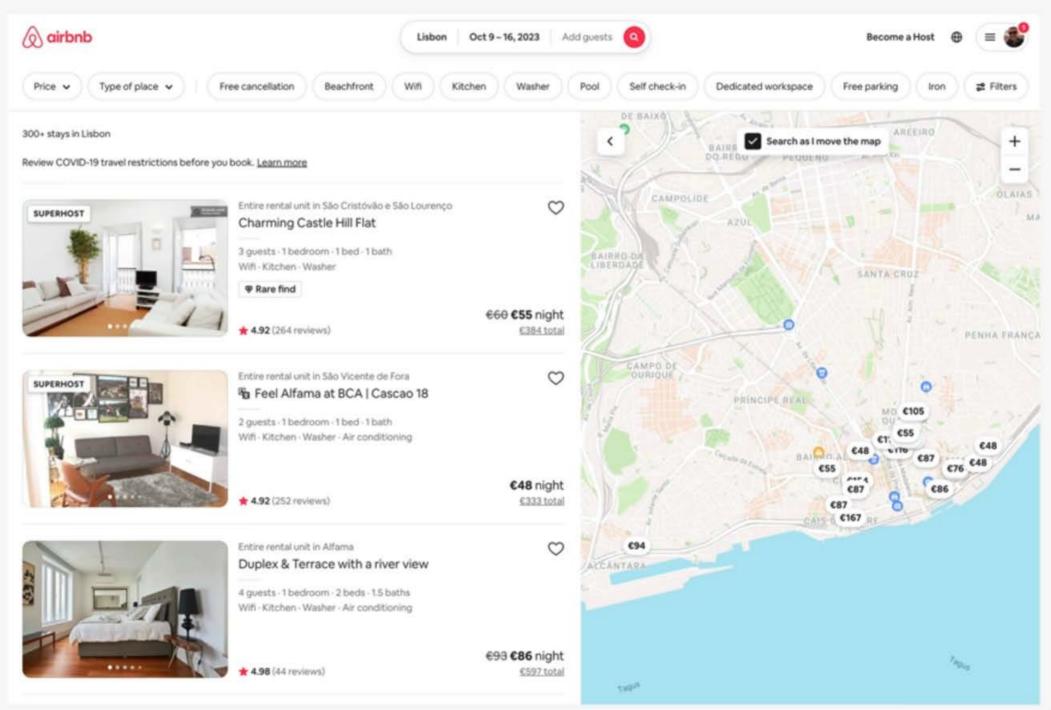
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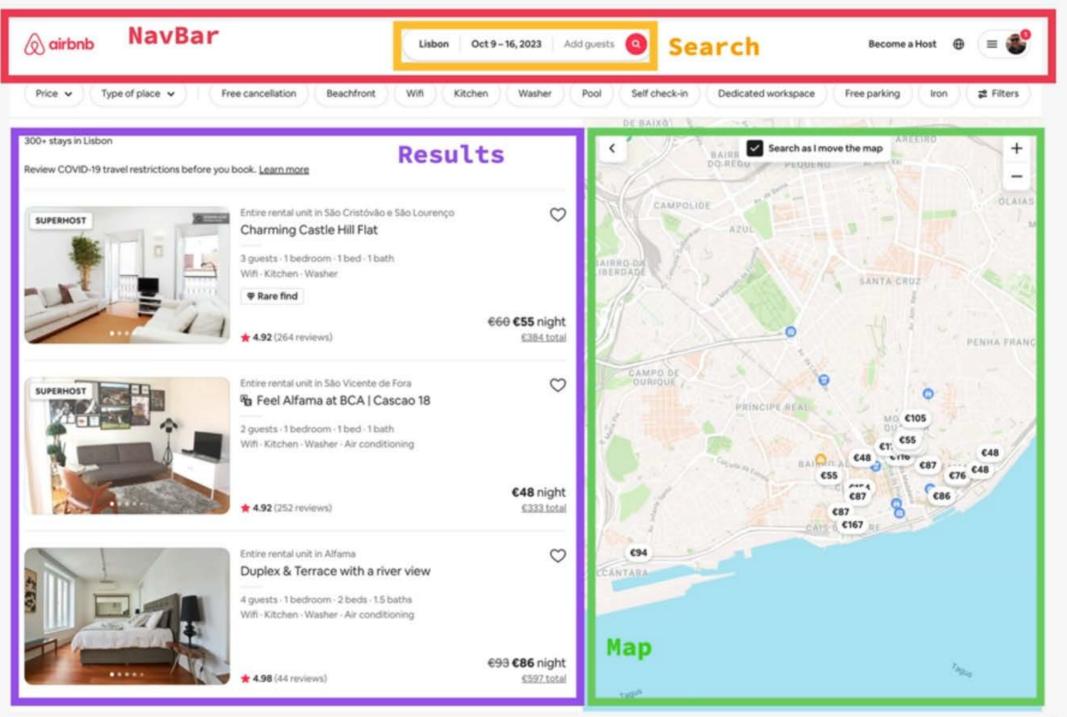
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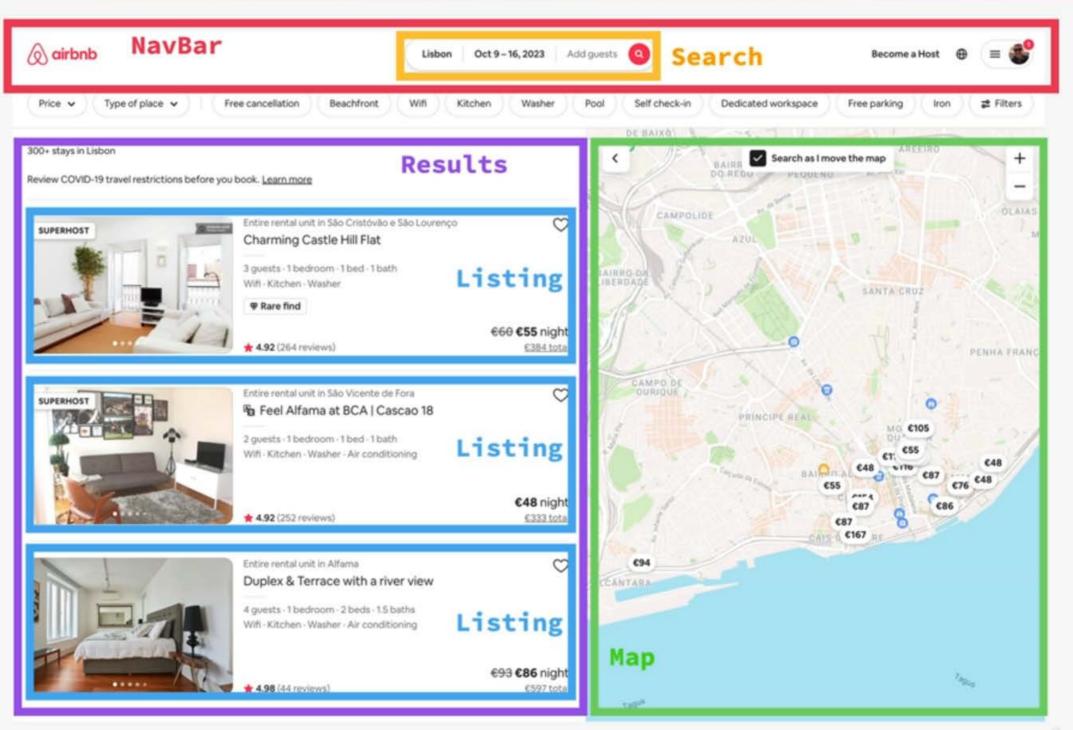
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We describe how components look like and how they work using a declarative syntax called JSX

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- We describe how components look like and how they work using a declarative syntax called JSX
- Declarative: telling React what a component should look like, based on current data/state

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- JSX: a syntax that combines HTML, CSS, JavaScript, as well as referencing other components

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- Declarative: telling React what a component should look like, based on current data/state
- React is abstraction away from DOM: we never touch the DOM
- JSX: a syntax that combines
 HTML CSS JavaScript as well as referencing other components

```
JSX returned from a component
return (
    <h1 style= { fontSize: '3.2rem' } >AirBnB</h1>
    <a |ref='#'>Become a host</a>

✓ NavBar>
   <Results>
     {numListings} stays in Lisbon
    <Listing listing=[listings[0]] />
     <Listing listing={listings 1]} />
     <Listing listing={listings[2]} />
   </Results>
       istings={listings} onClick={moveMap} />
```

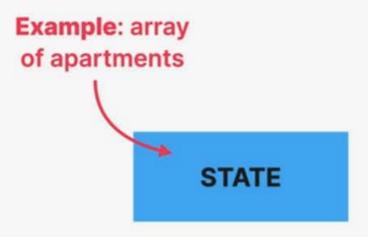
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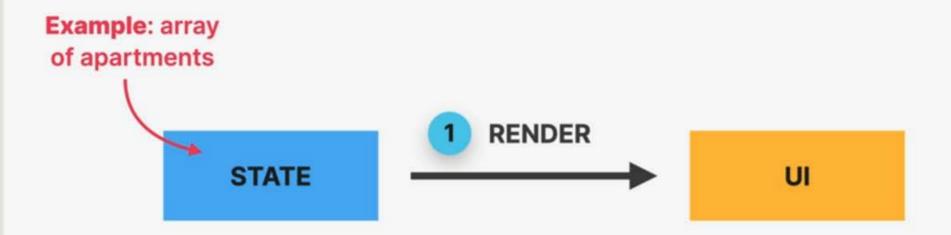
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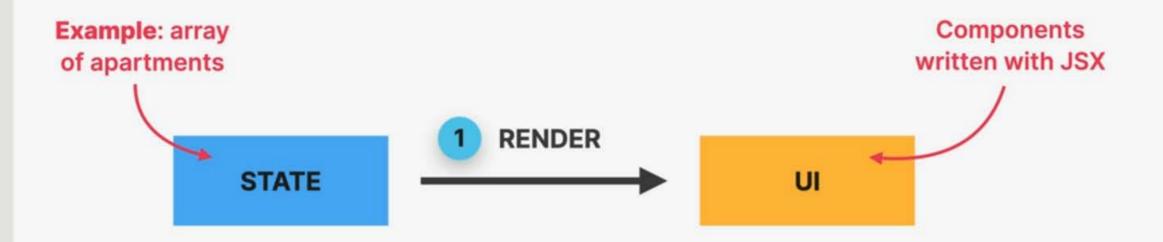
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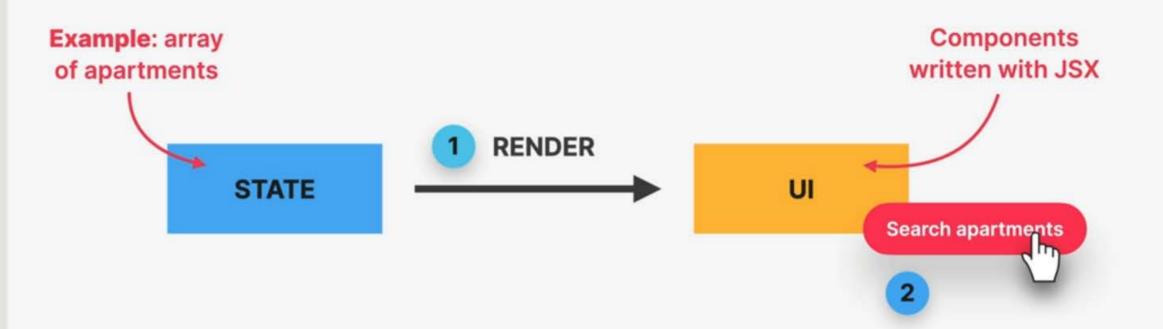
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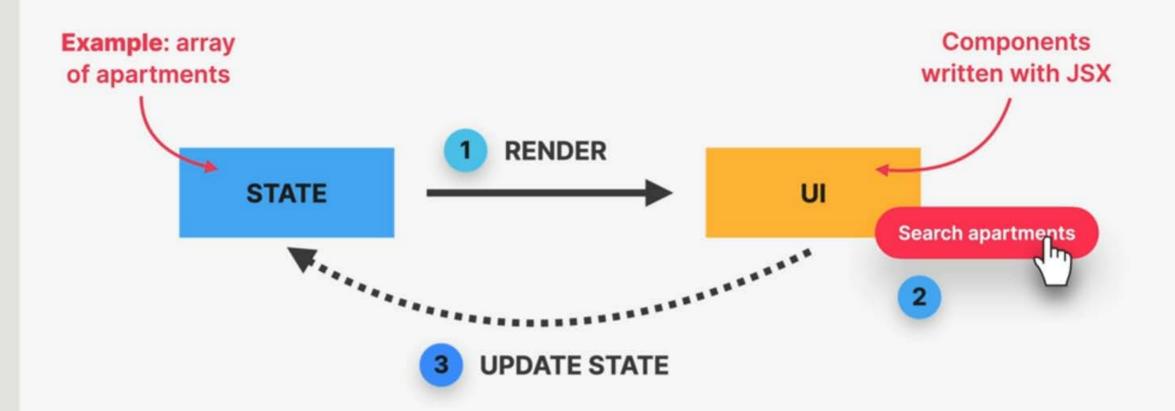
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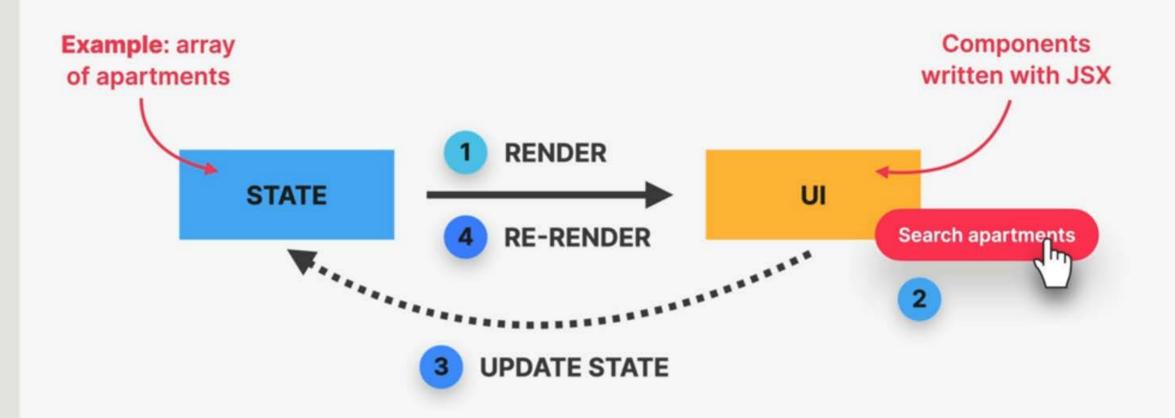
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REACT REACTS TO STATE CHANGES
BY RE-RENDERING THE UI

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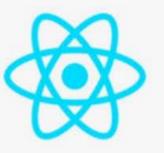
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Is React a library or a framework?



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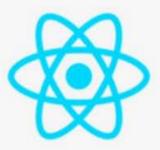
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Because React is only the "view" layer. We need to pick multiple external libraries to build a complete application

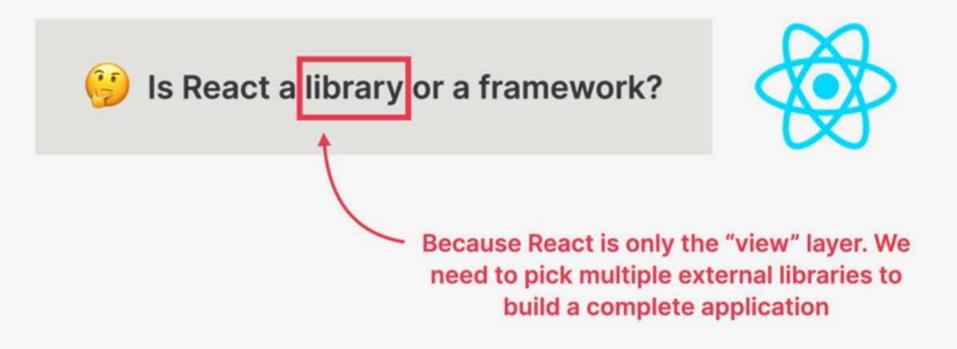
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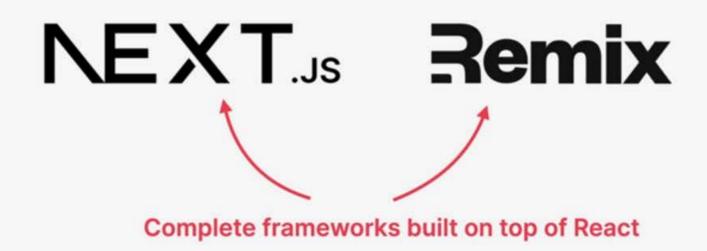
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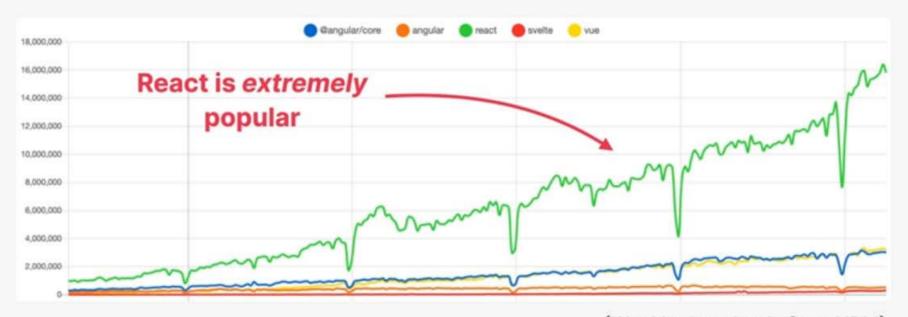
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(Weekly downloads from NPM)

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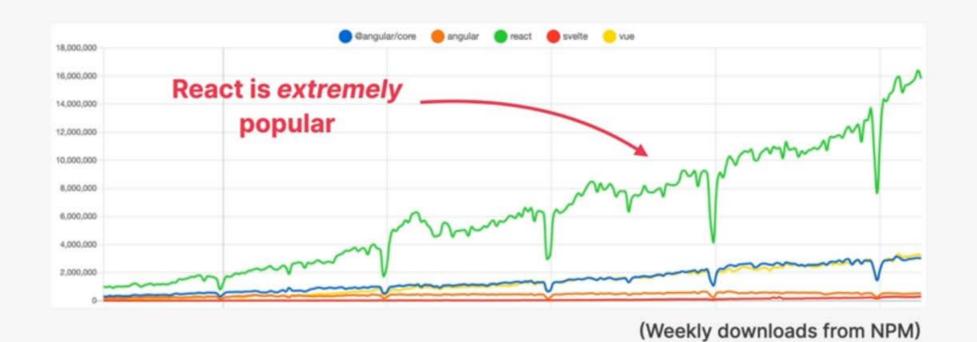
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Many large companies have adopted React













Based on components

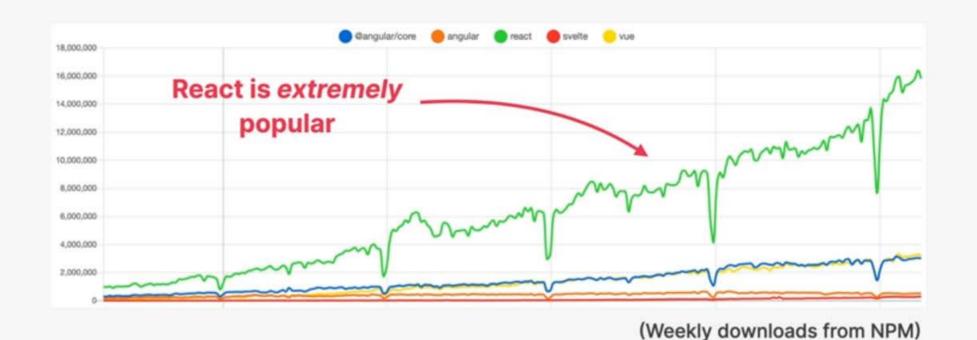
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Huge job market with high demand for React developers \(\text{\tilit{\text{\tetx}\text{\te}\titt{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tetx{\text{\texi}\tex{\text{\text{\text{\texi{\texi\tilie\text{\texi}\text{\texit{\text{\texi\text{\texi}\\\ \text{\texi}\text{\texi{\texit

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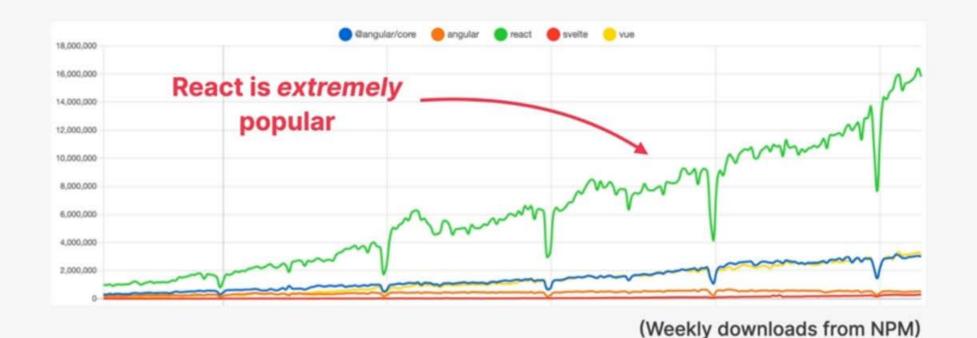
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- Large and vibrant React developer community

Based on components

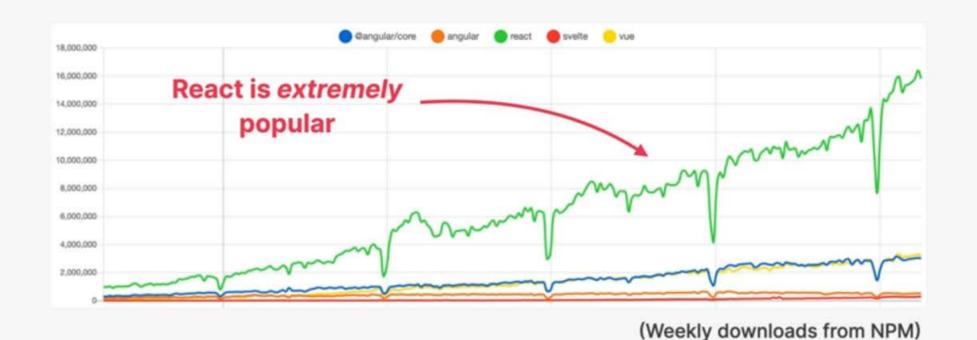
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- Large and vibrant React developer community
- Gigantic third-party library ecosystem

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React was created in 2011 by Jordan Walke, an engineer working at Facebook at the time

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- React was created in 2011 by Jordan Walke, an engineer working at Facebook at the time
- React was open-sourced in 2013, and has since then completely transformed front-end web development







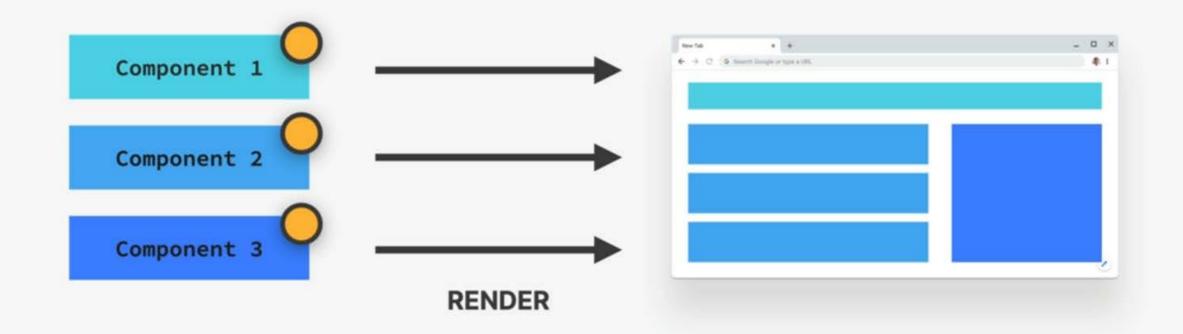
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Rendering components on a webpage (UI) based on their current state



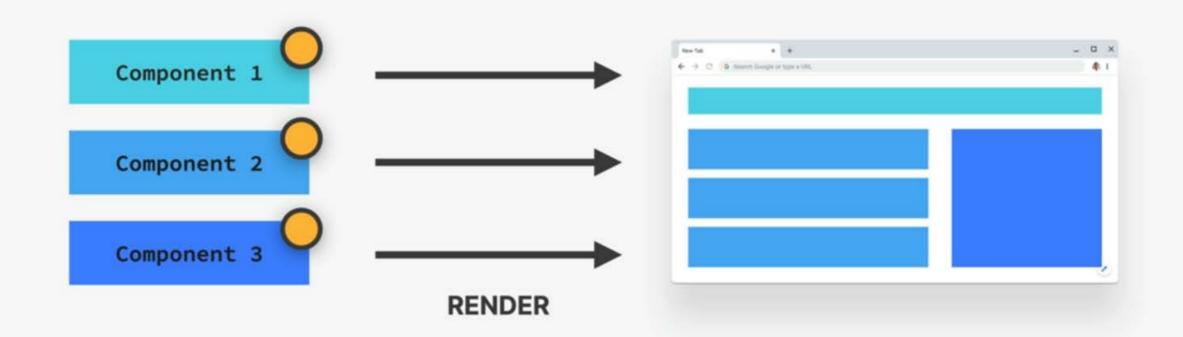
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Rendering components on a webpage (UI) based on their current state





- 1 Rendering components on a webpage (UI) based on their current state
- 2 Keeping the UI in sync with state, by re-rendering (reacting) when state changes





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