



JONAS SCHMEDTMANN

THE ULTIMATE REACT COURSE

 @JONASSCHMEDTMAN

SECTION

A FIRST LOOK AT REACT

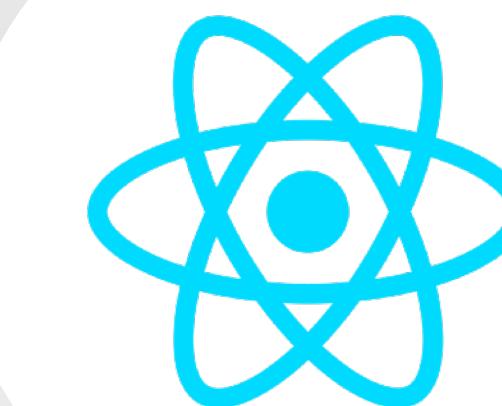
LECTURE

WHAT IS REACT?

WHAT IS REACT?

REACT

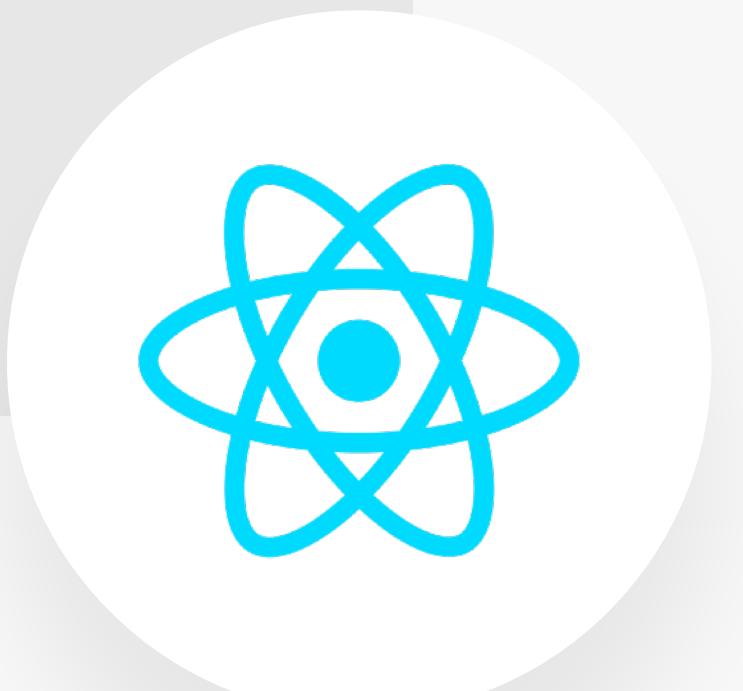
JAVASCRIPT LIBRARY FOR BUILDING
USER INTERFACES



WHAT IS REACT?

REACT

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



REACT IS BASED ON COMPONENTS

Based on components

Declarative

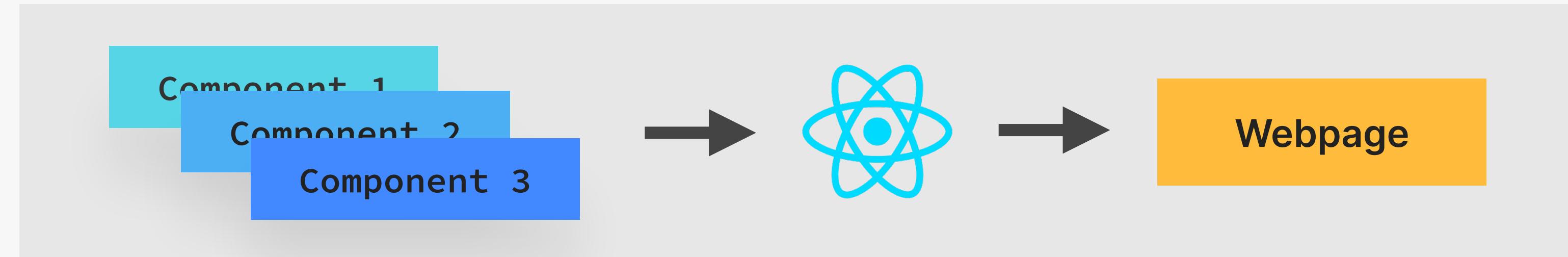
State-driven

JavaScript library

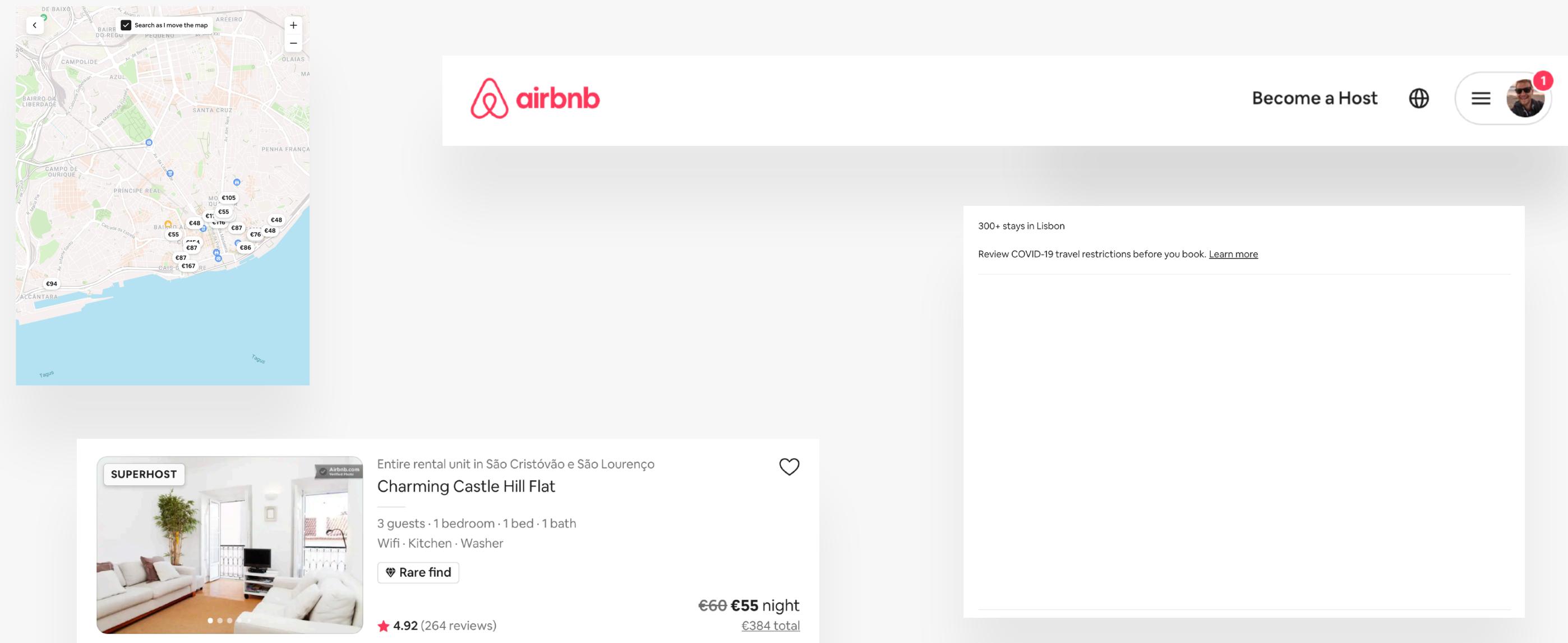
Extremely popular

Created by facebook

👉 Components are the **building blocks** of user interfaces in React



👉 We build complex UIs by **building and combining multiple components**



REACT IS DECLARATIVE

Based on components

Declarative

State-driven

JavaScript library

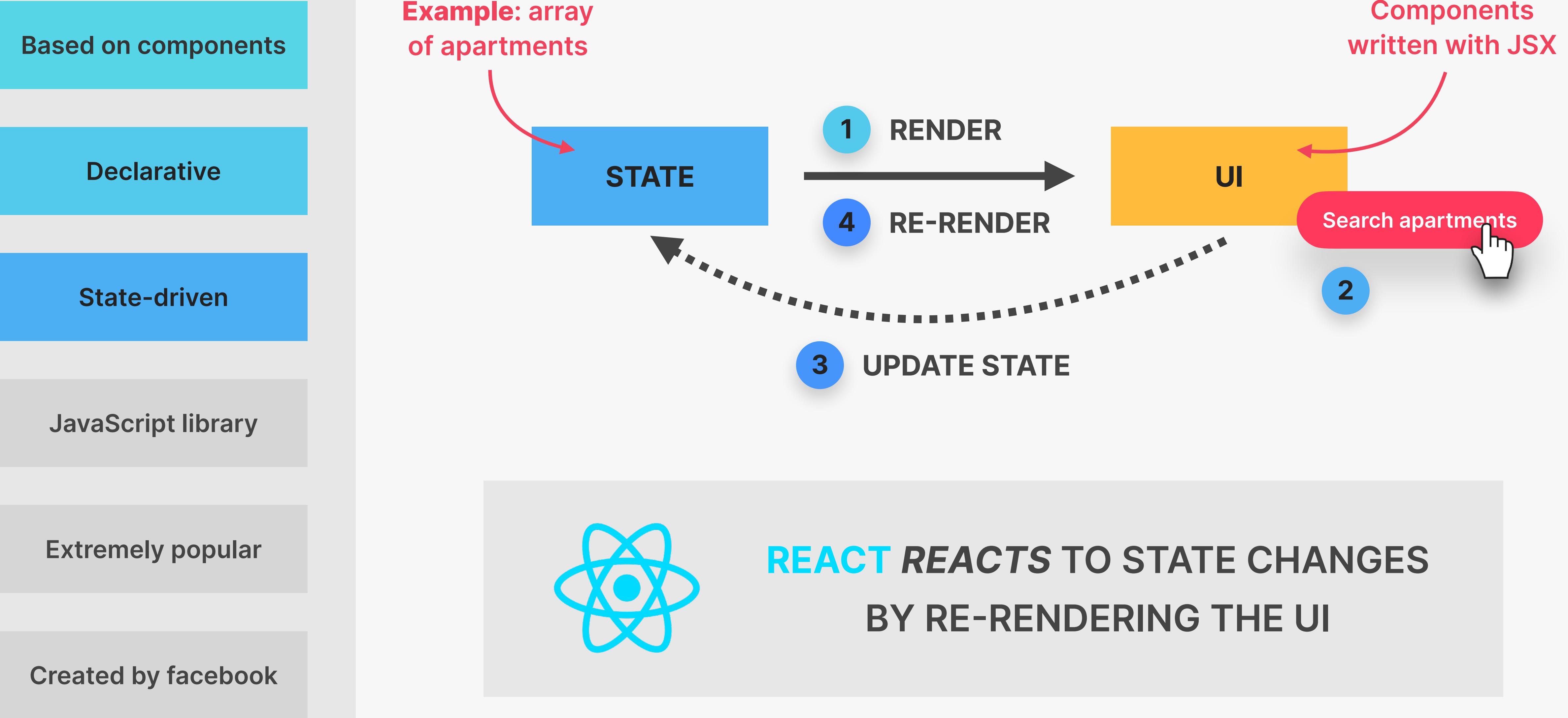
Extremely popular

Created by facebook

- 👉 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**
- 👉 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 (
  <main>
    <NavBar>
      <h1 style={{ fontSize: '3.2rem' }}>AirBnB</h1>
      <Search />
      <a href="#">Become a host</a>
    </NavBar>
    <Results>
      <p style={{ fontSize: '1.6rem', margin: '1.2rem' }}>
        {numListings} stays in Lisbon
      </p>
      <Listing listing={listings[0]} />
      <Listing listing={listings[1]} />
      <Listing listing={listings[2]} />
    </Results>
    <Map listings={listings} onClick={moveMap} />
  </main>
);
```

REACT IS STATE-DRIVEN



**REACT REACTS TO STATE CHANGES
BY RE-RENDERING THE UI**

REACT IS A JAVASCRIPT LIBRARY

Based on components

Declarative

State-driven

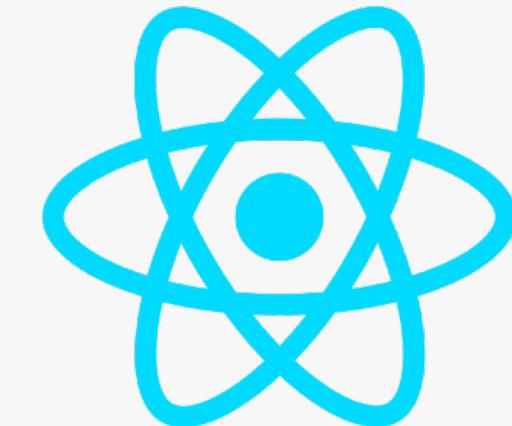
JavaScript library

Extremely popular

Created by facebook



Is React a **library** or a framework?



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

NEXT.js Remix

Complete frameworks built on top of React

REACT IS EXTREMELY POPULAR

Based on components

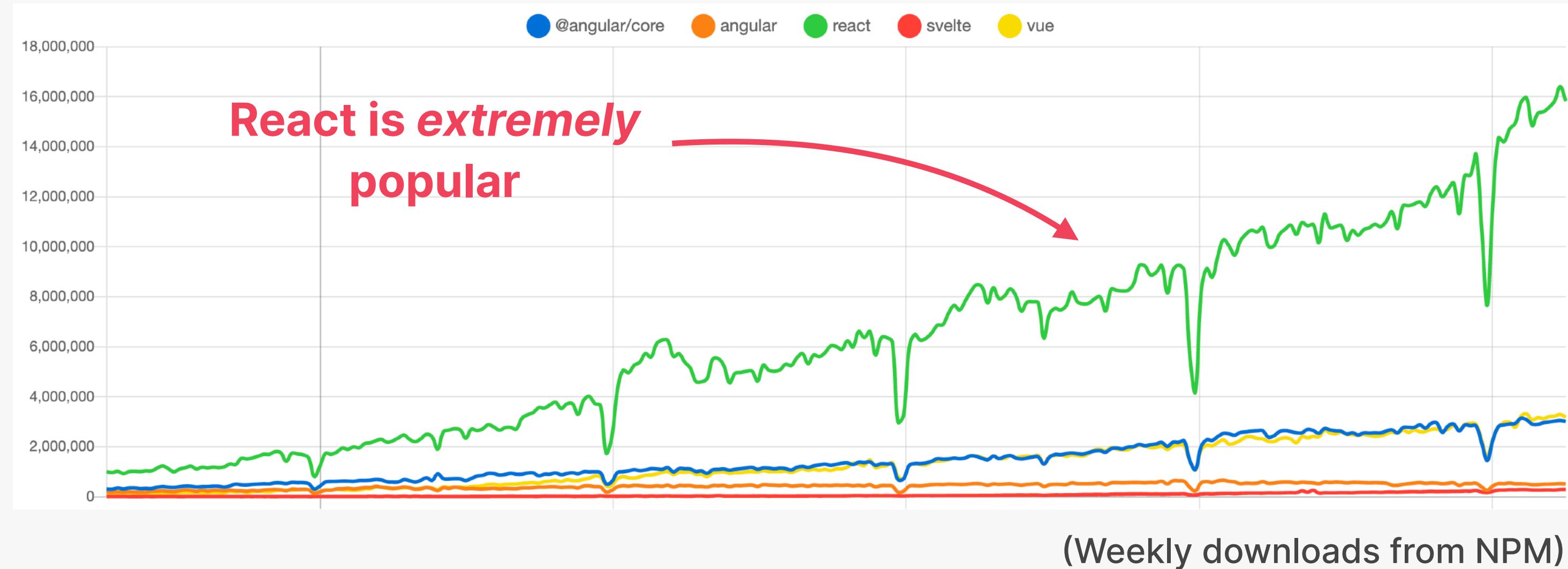
Declarative

State-driven

JavaScript library

Extremely popular

Created by facebook



✓ Many large companies have adopted React



✓ Huge job market with high demand for React developers 😃

✓ Large and vibrant React developer community

✓ Gigantic third-party library ecosystem

REACT WAS CREATED BY FACEBOOK

Based on components

Declarative

State-driven

JavaScript library

Extremely popular

Created by facebook



- 👉 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

facebook

Meta



SUMMARY

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

