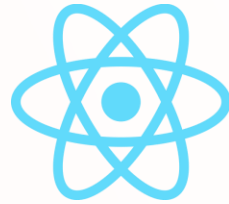


FLAG

React Intro



João Gonçalves

Interactive Developer / Trainer / Consultant

Applied Mathematics Degree

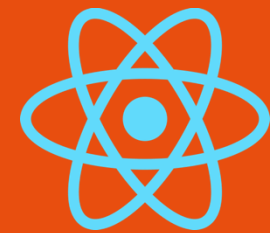
Master Multimedia Communication

<http://joaogoncalves.net>

edu@joaogoncalves.net

[@joaopapin](#)

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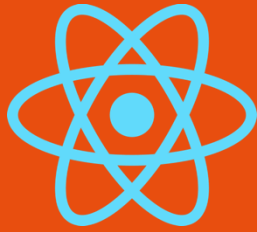
<https://github.com/JoaoGoncalves/flag-react-set>

<https://dontpad.com/flag-react>

React - Introdução

João Gonçalves

Requisitos



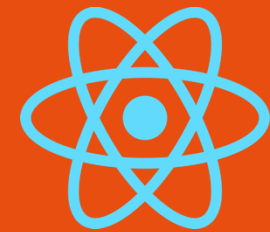
Confortáveis com **HTML5**

Confortáveis com **Javascript** (intro)

Bons **ES6, ES7, ES8, ..., ES2022, ESNext**

Node.js, NPM, Git (opcional)

Preparação Ambiente de trabalho



Instalar **Node.js** e **GIT**

Abrir (instalar) Chrome, e extensões para React:

React Developer Tools & Redux developer tools

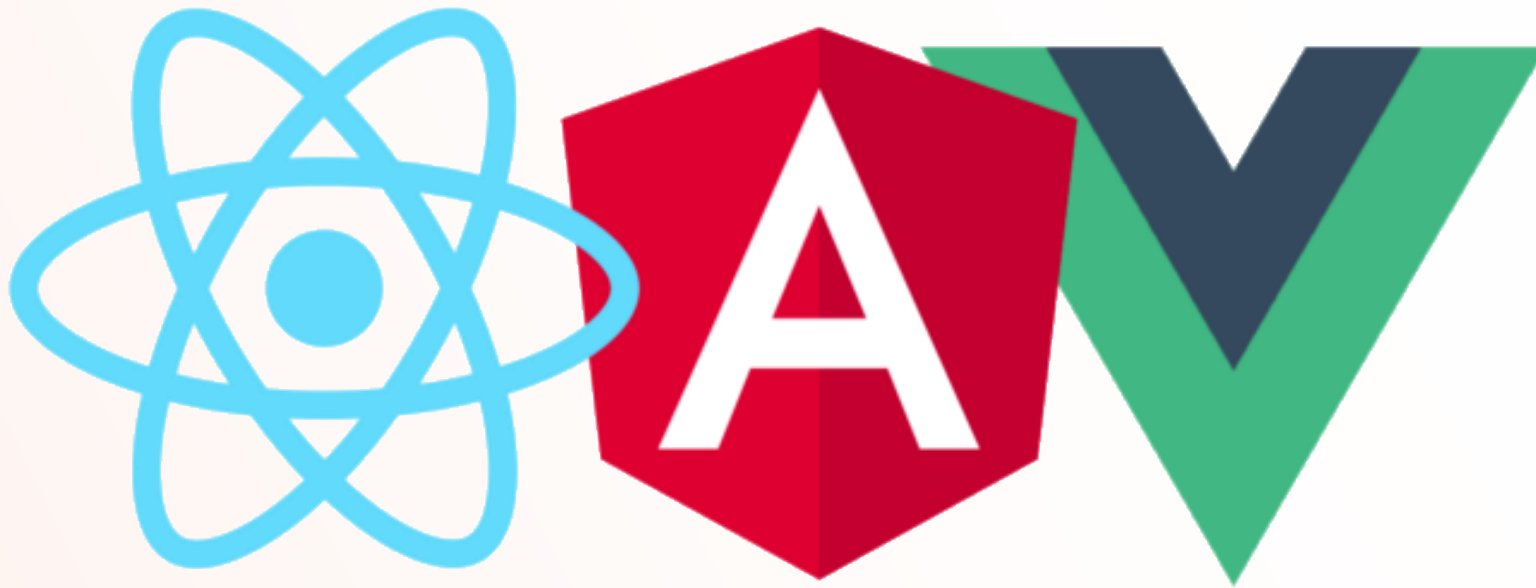
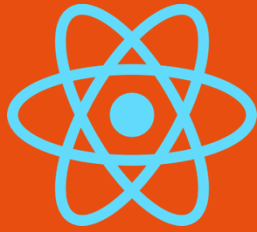
Escolher Editor de Código e instalar (**VSCode**)

VSCode, extensões:

ES7+ React/Redux/React-Native/JS snippets,
Simple React Snippets,
ou

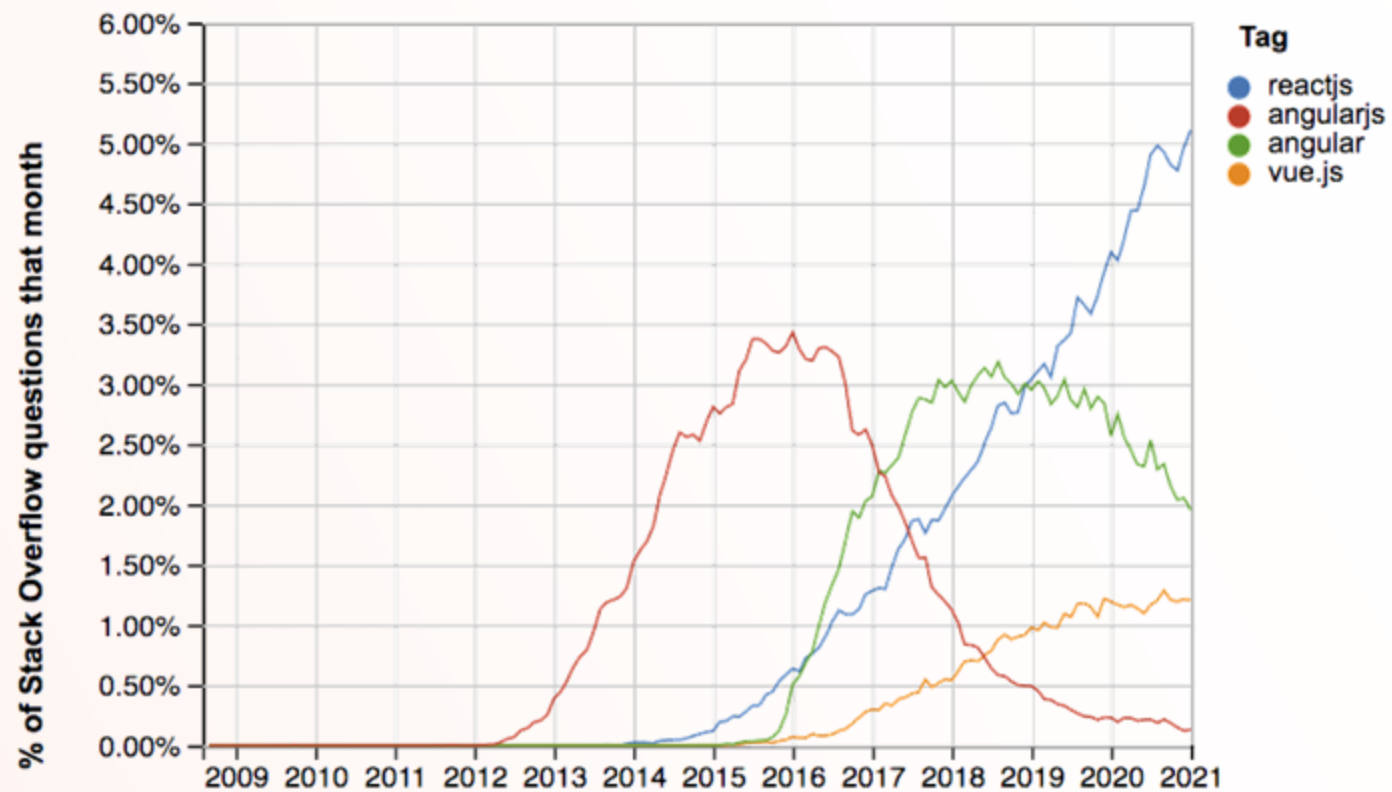
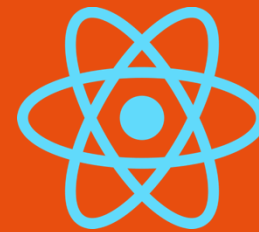
React Extension Pack

History...

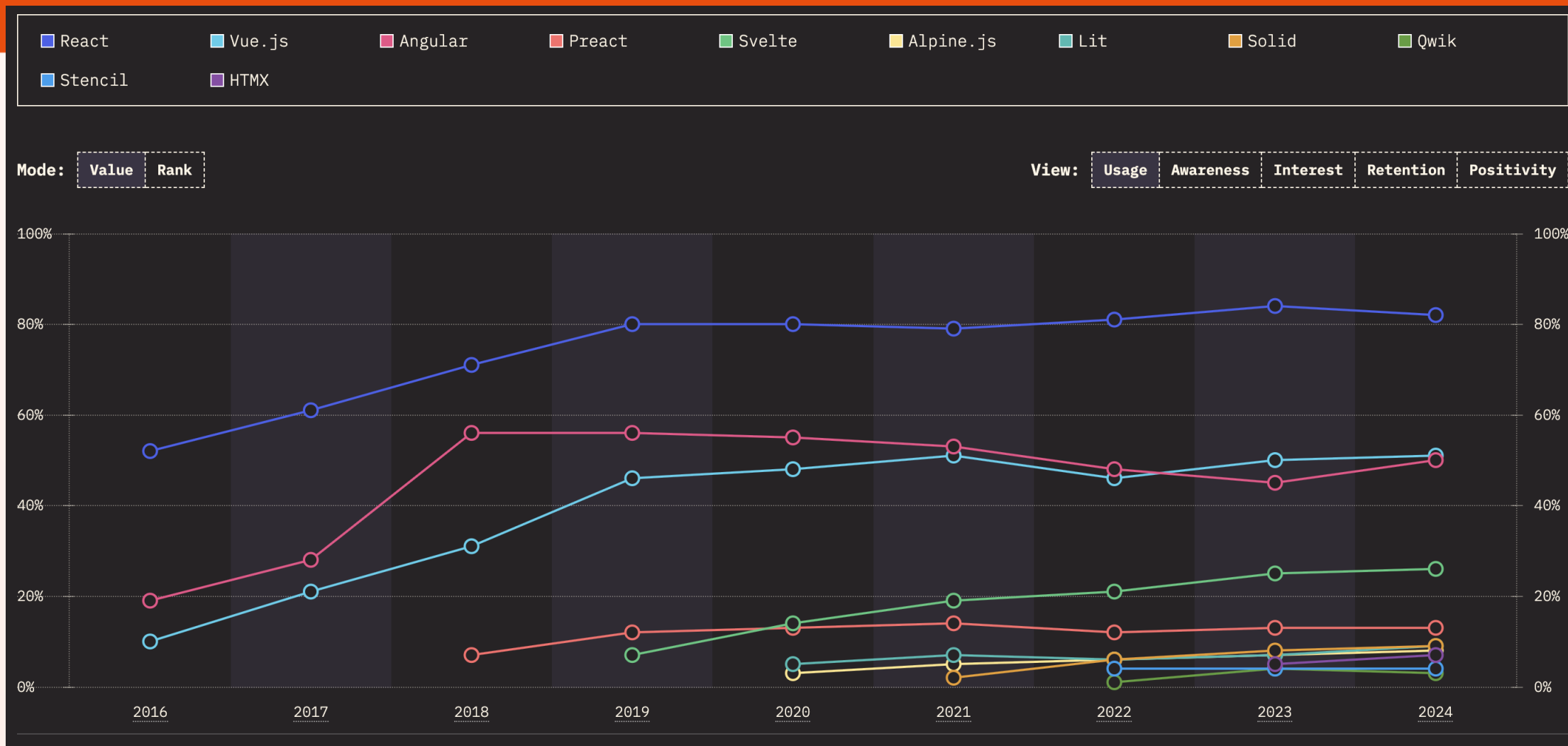
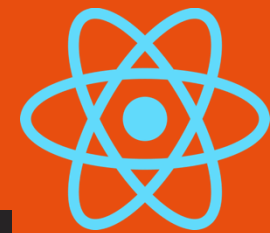


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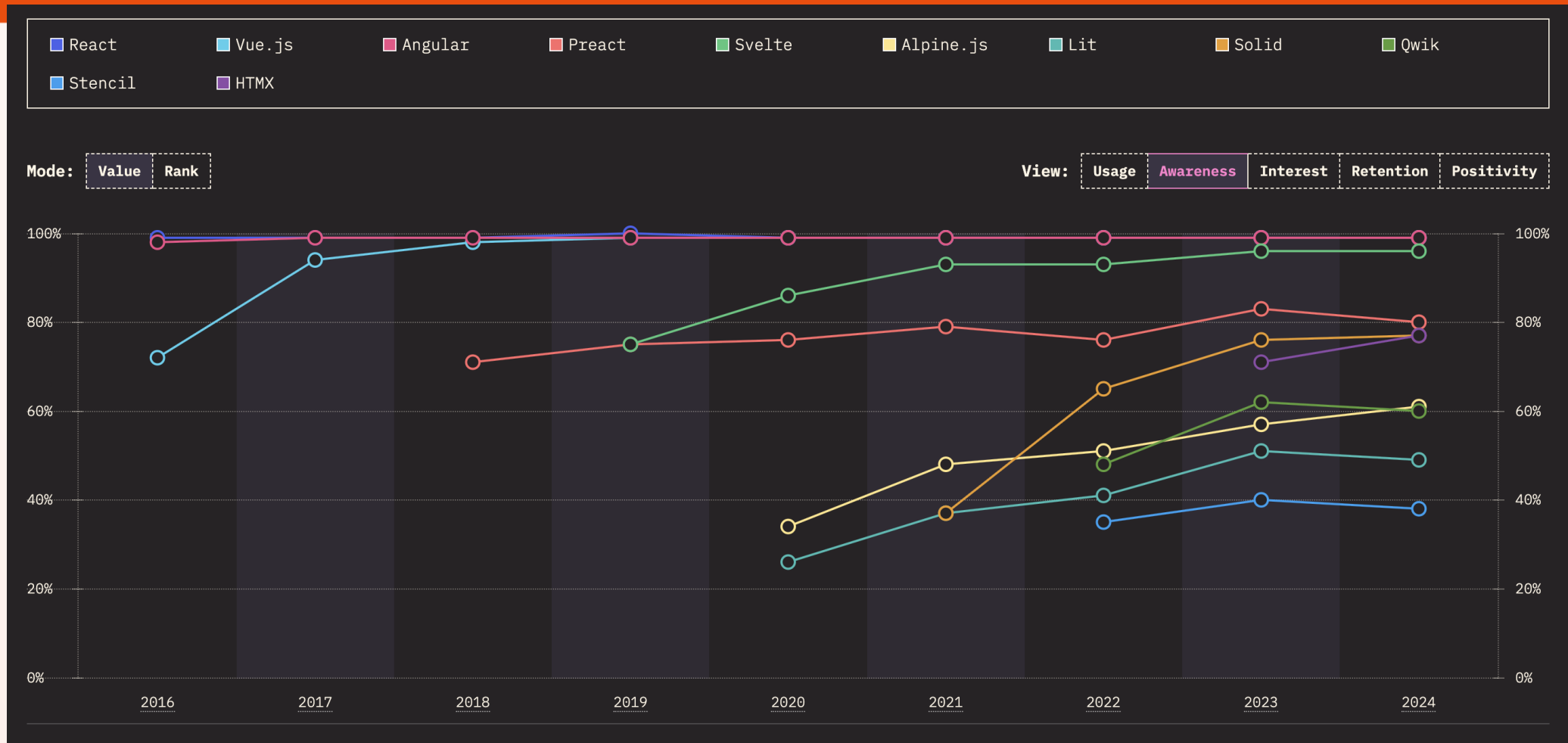
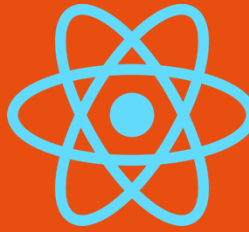
History ...

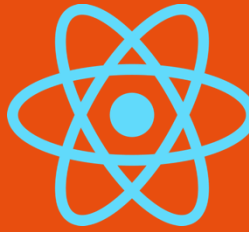


StateOfJs (usage)

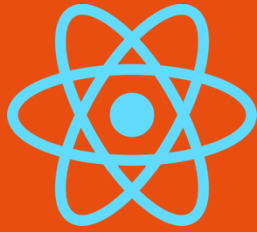


Interest (stateofjs)

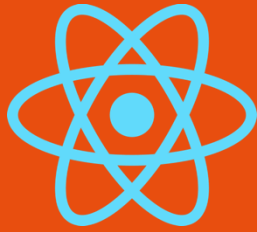




With **React** or **Vue**, you'll also need to select other products for **routing**, **dependency injection**, **forms**, **bundling** and **deploying** ...



The **Angular** framework is a platform that includes
all you need for developing and deploying a Web app

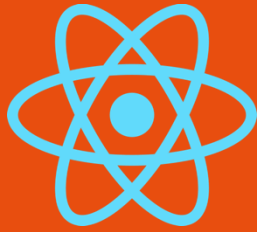


Open Source Javascript library since **2013**

Developed by **Facebook** & **Instagram** Dev's

Intended to be the “**V**” in a **MVC**

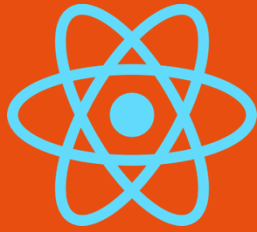
Great for **SPA** (Single Page Application)



Virtual DOM

JSX

(sintaxe de XML para Javascript, opcional)



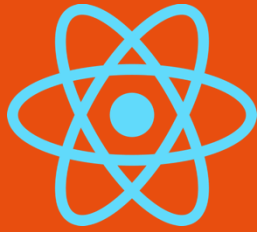
JS Objects are faster than **DOM Objects**

React Virtual DOM is a **JS Object**

React **never** read from the “real” DOM

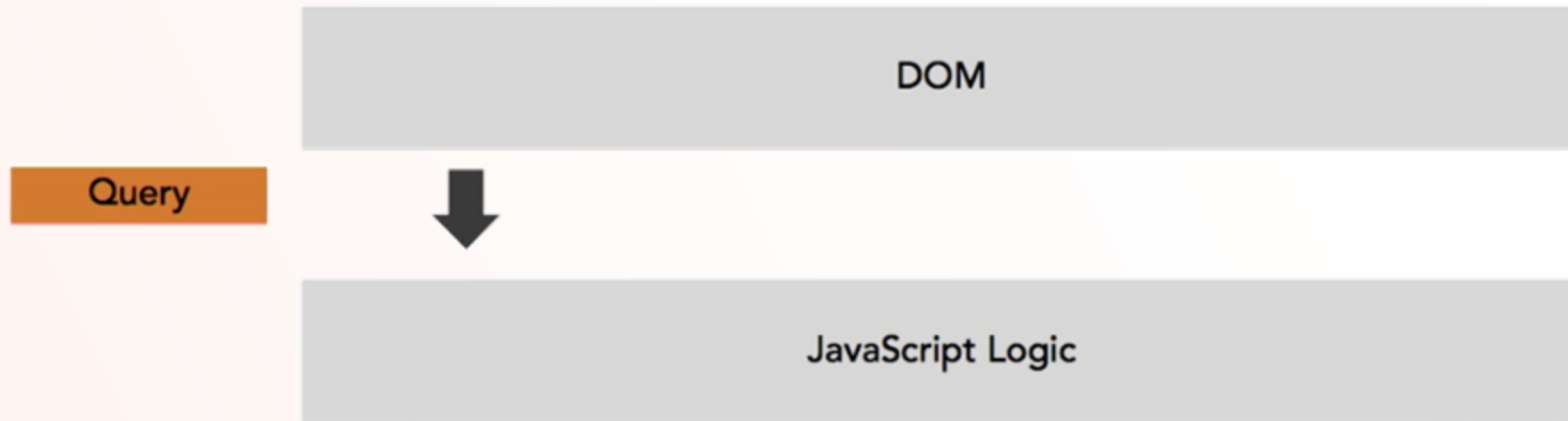
React only writes in the “real” DOM if **needed**

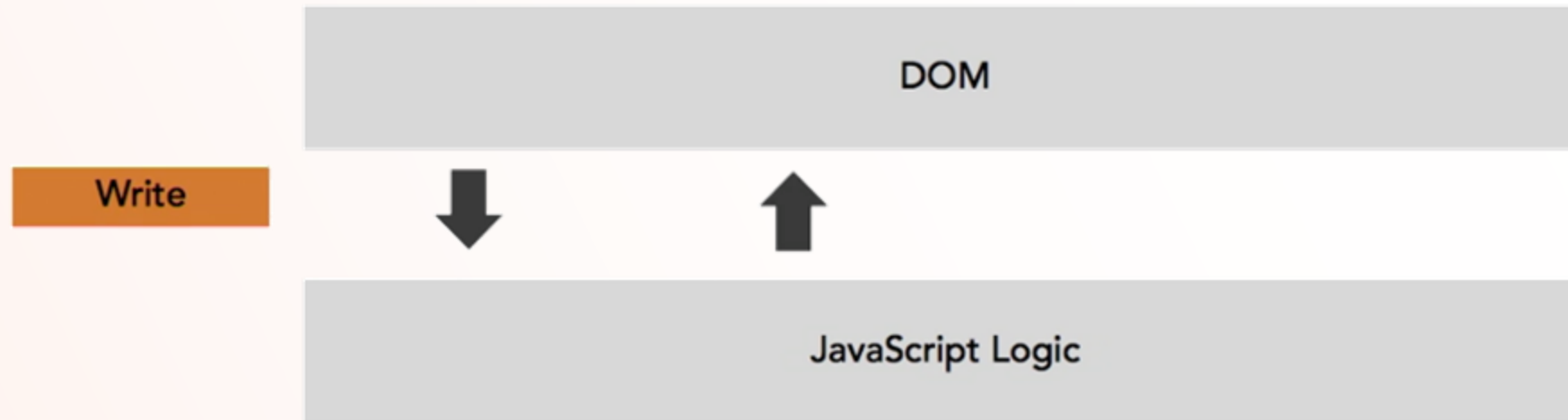
Updates **efficiently** the **DOM**

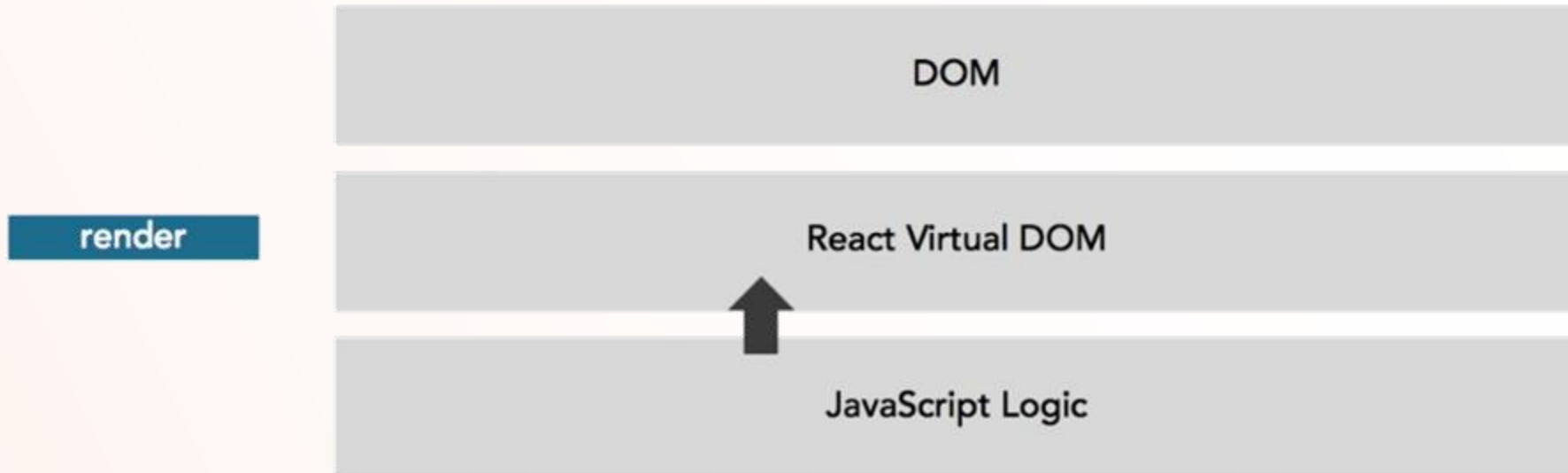
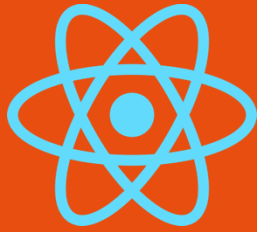


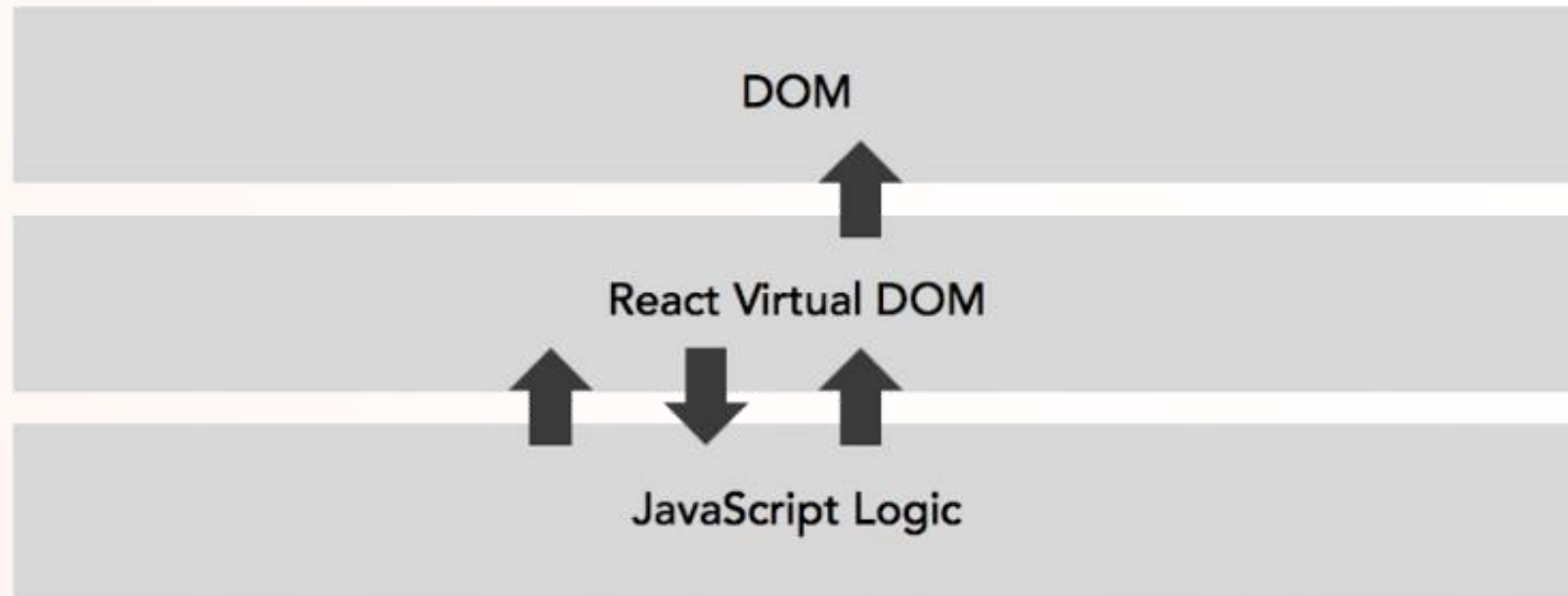
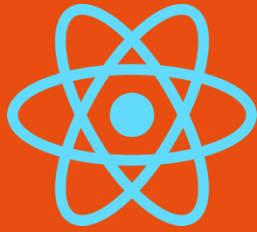
DOM

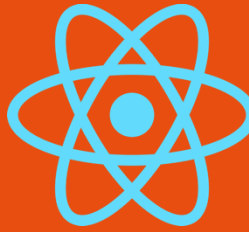
JavaScript Logic



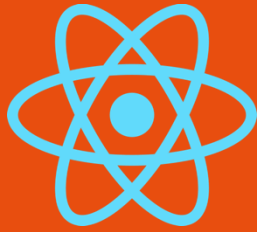








Exemplo....



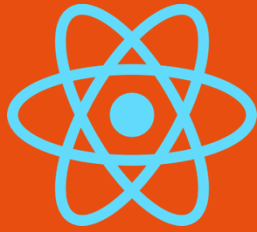
Component Focused

One-Way Data Flow

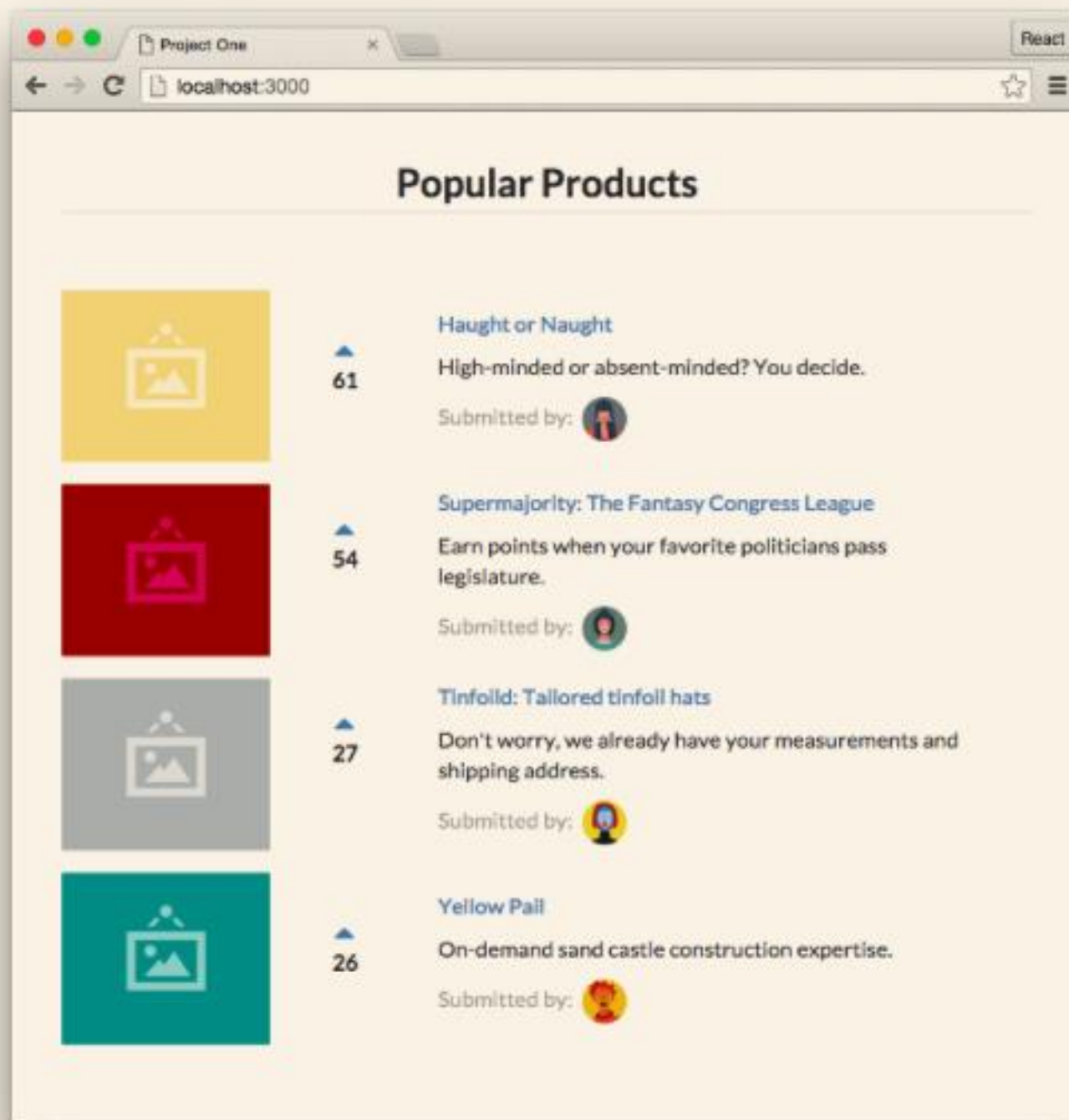
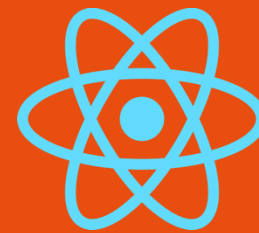
States

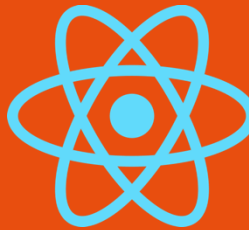
Props

Exemplo

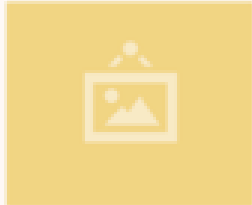








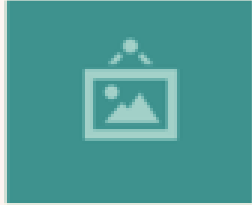




VOTING APP





Popular Products

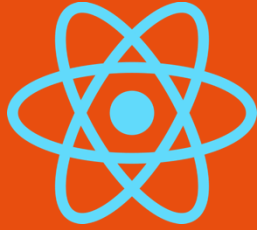
	 61	<p>Haught or Naught</p> <p>High-minded or absent-minded? You decide.</p> <p>Submitted by: </p>
	 54	<p>Supermajority: The Fantasy Congress League</p> <p>Earn points when your favorite politicians pass legislature.</p> <p>Submitted by: </p>
	 27	<p>Tinfoil: Tailored tinfoil hats</p> <p>Don't worry, we already have your measurements and shipping address.</p> <p>Submitted by: </p>
	 26	<p>Yellow Pail</p> <p>On-demand sand castle construction expertise.</p> <p>Submitted by: </p>

React Component



```
export default function Xpto() {  
  return (  
    <div>Xpto</div>  
  )  
}
```

JS vs JSX



```
// JS Vanilla
```

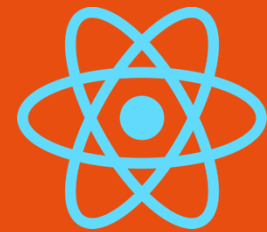
```
export const Xpto = () =>  
  React.createElement('div', {className: 'ui items'}, 'Hello, friend! I am a basic React  
  component.'
```

```
export const Xpto1 = () =>  
  React.createElement('div', {className: 'ui items'},  
    React.createElement('p', null, 'Hello, friend! I am a basic React component')  
  )
```



```
//JSX
```

```
export const Xpto2 = () => <h2>Ola do  
  XPTO</h2>
```



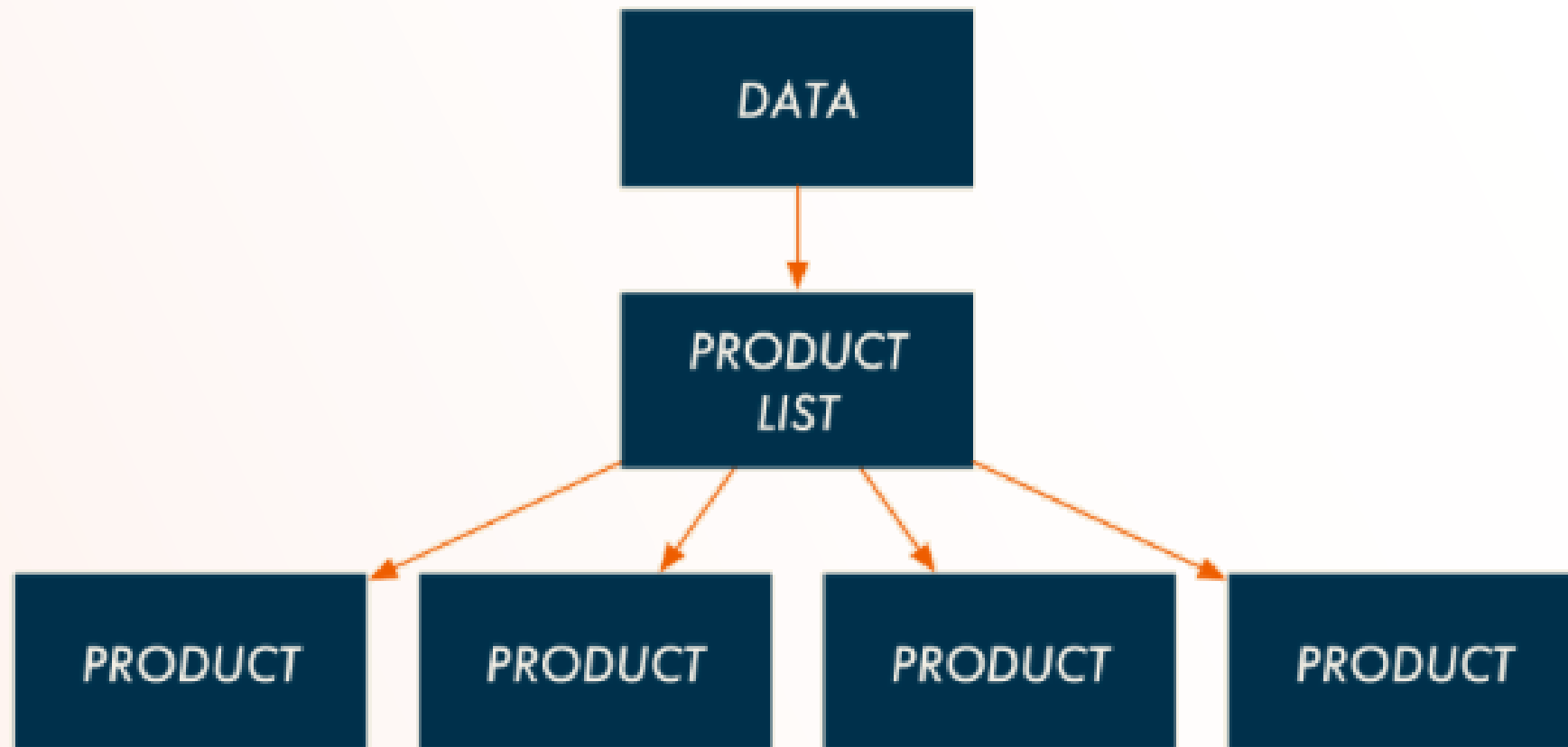
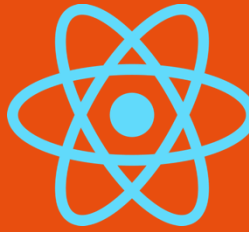
Codigo...

`npm create vite`

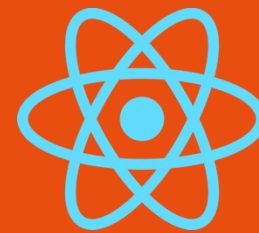
ou









`yarn create vite`

React - PROPS

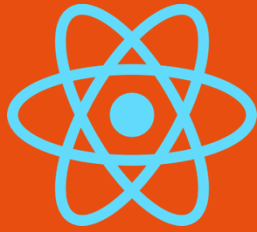


React – “key” attribute



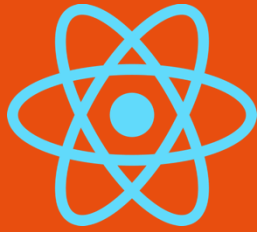
	<p>▲ 16</p> <p>Yellow Pail</p> <p>Submitted by: </p>	ID 1
	<p>▲ 59</p> <p>Supermajority: The Fantasy Congress League</p> <p>Submitted by: </p>	ID 2
	<p>▲ 53</p> <p>Tinfoild: Tailored tinfoil hats</p> <p>Submitted by: </p>	ID 3
	<p>▲ 28</p> <p>Haught or Naught</p> <p>Submitted by: </p>	ID 4

Product components (orange) inside of the ProductList component (red)



Whereas **props** are **immutable** and owned by a component's **parent**

state is owned by the component.



when the **state** or **props**
of a **component** update,

the component **will re-render itself**



Organize your React App in **Components**

JSX inside **render** method

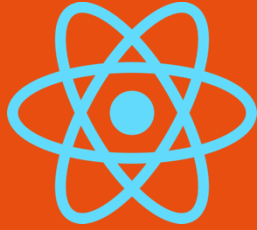
Data Flow from Parent to Child through **props**

Event flow through **functions**

State vs **Props**

How to **manipulate State**

React **LifeCycle** Methods



1

Acréscitar botao para retirar votos

2

Acréscitar 1 botao para alterar a visualização da ProductList alternadamente por ordem descendente e ascendente

FLAG

www.flag.pt

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PORTO Rua Oliveira Monteiro, N° 168, 4050-438 Porto email: querosabermais@porto.flag.pt Tel. 226 094 789

uma marca

Rumos | Knowledge
training | sharing