

React Introduction



BOOTCAMP





HELLO!

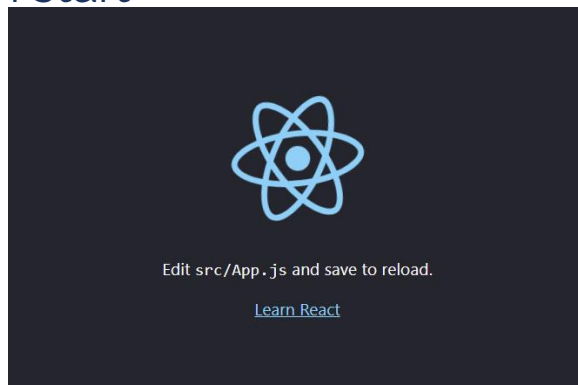
I am Yael Aguilar.

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@Yael-aguilarg9819 on
Linkedin 

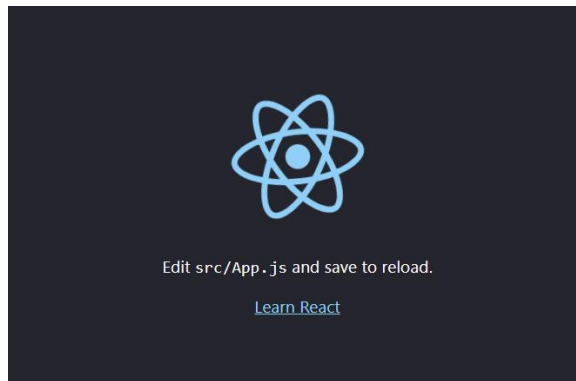
How to create a React App

- ▶ Start any IDE or Code Editor (VSCode Recommended.)
- ▶ Open the console (Control + J in VSCode)
- ▶ Type "npx create-react-app fullstack-bootcamp-project" and wait
- ▶ Write "cd fullstack-bootcamp-project" in the console
- ▶ Then write "npm start"



Or use the given template with th styles!

- ▶ Start any IDE or Code Editor (VSCode Recommended.)
- ▶ Open the console (Control + J in VSCode)
- ▶ Type "git clone <https://github.com/itjuana-bootcamp/template-start-react.git>"
- ▶ Then "cd template-start-react" in the console
- ▶ Write "npm install" in the console
- ▶ Then write "npm start"



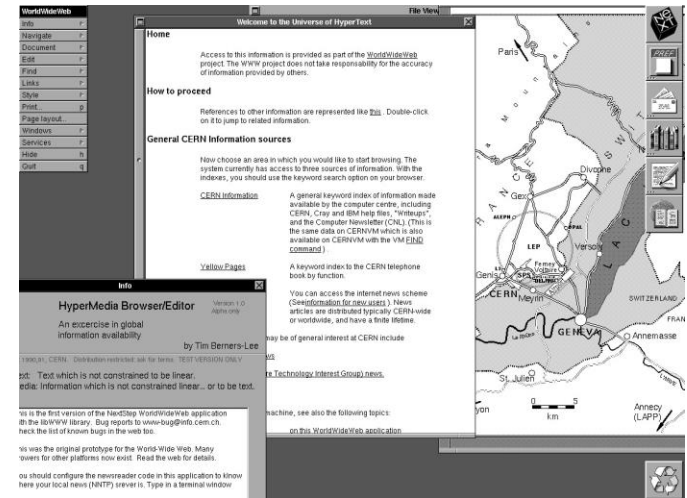
1.

The making of the webpage

Once upon a time in a CERN office...

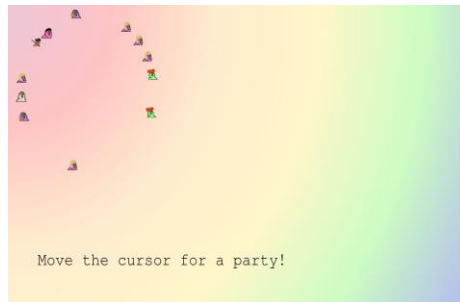
Why we have 3 languages instead of 1?

- ▶ Developed in different times for different reasons
- ▶ HTML – 1990
A way for researchers to share more easily their documents



Why we have 3 languages instead of 1?

- ▶ CSS – 1996 – Standardize how web pages look across browsers.
- ▶ JavaScript – 1995
Make the web more dynamic with animations and interaction.

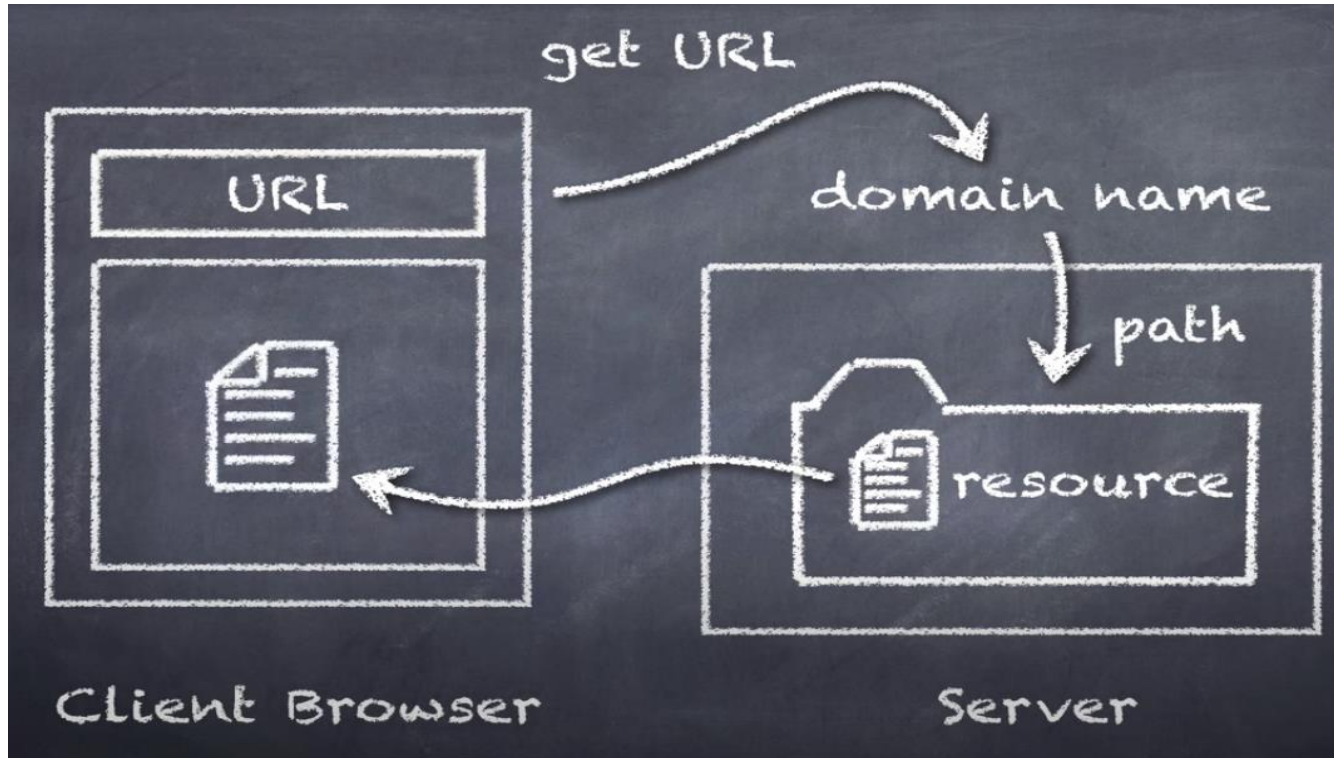


2.

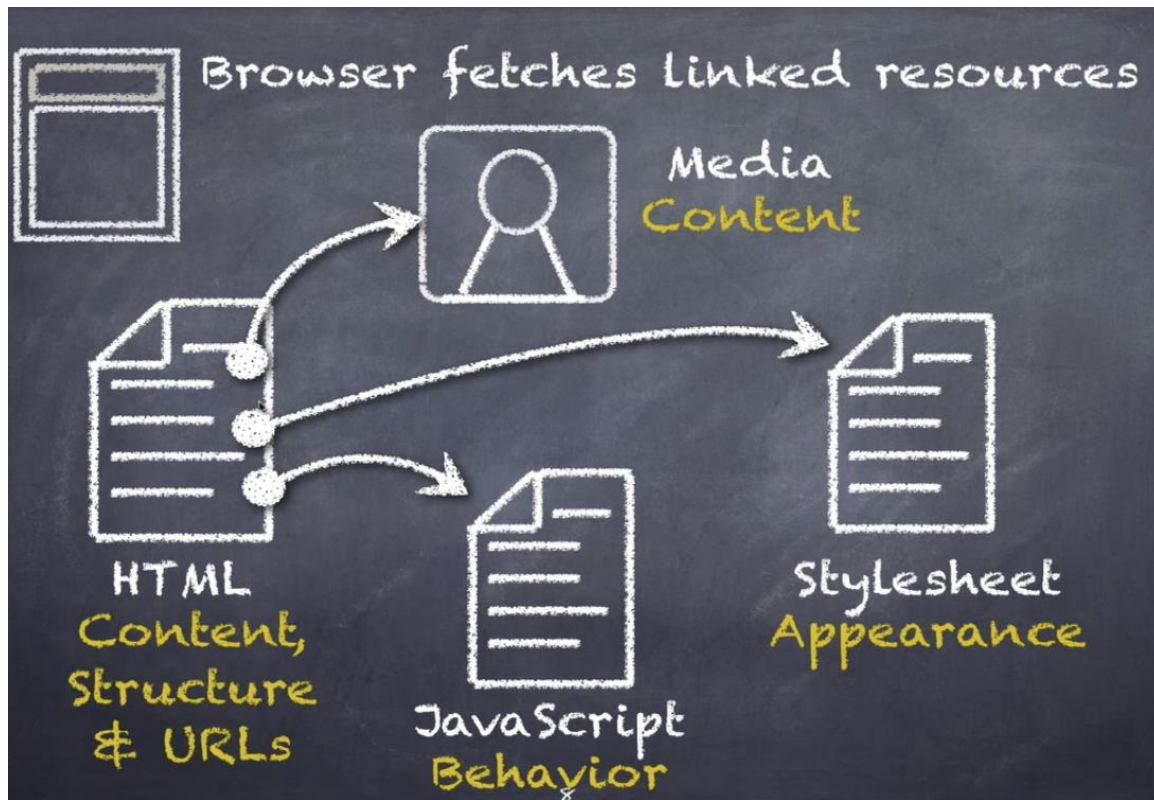
The lifecycle of a webpage

Fetching all the way down

How the browser gets the page?

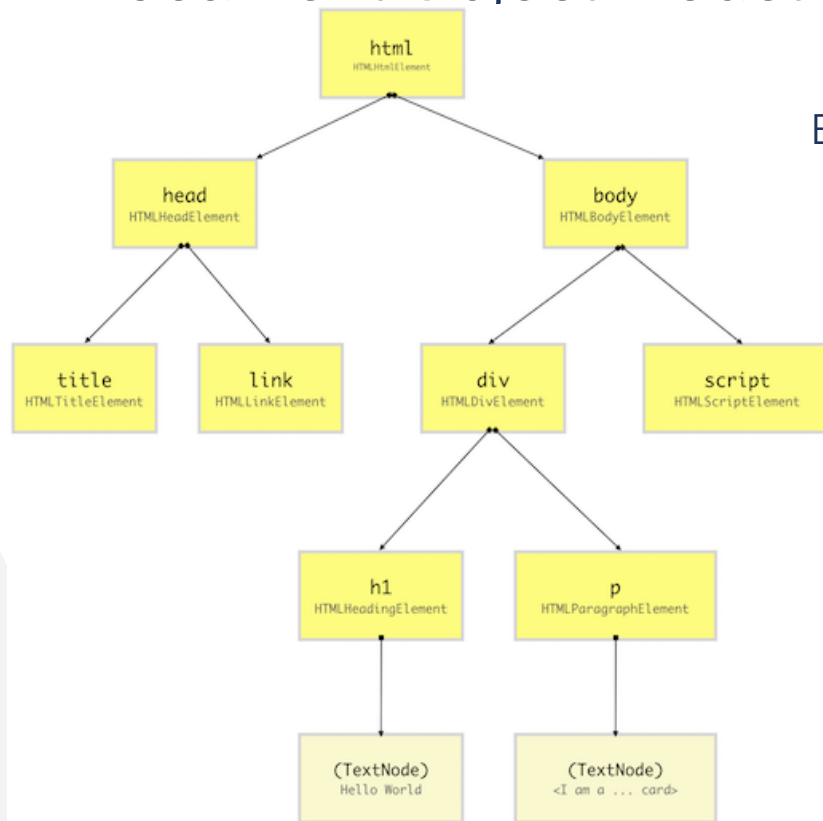


In what order is processed?



The D.O.M.

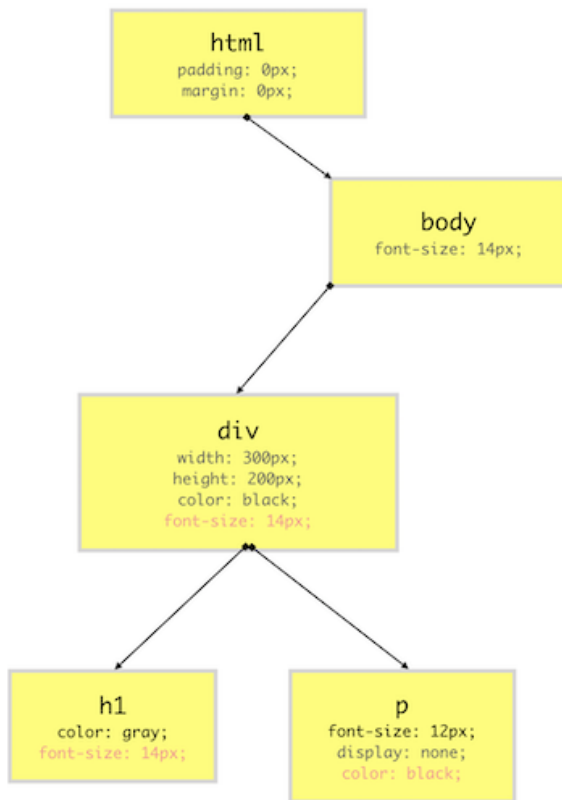
Document Object Model



Each one is called a Node

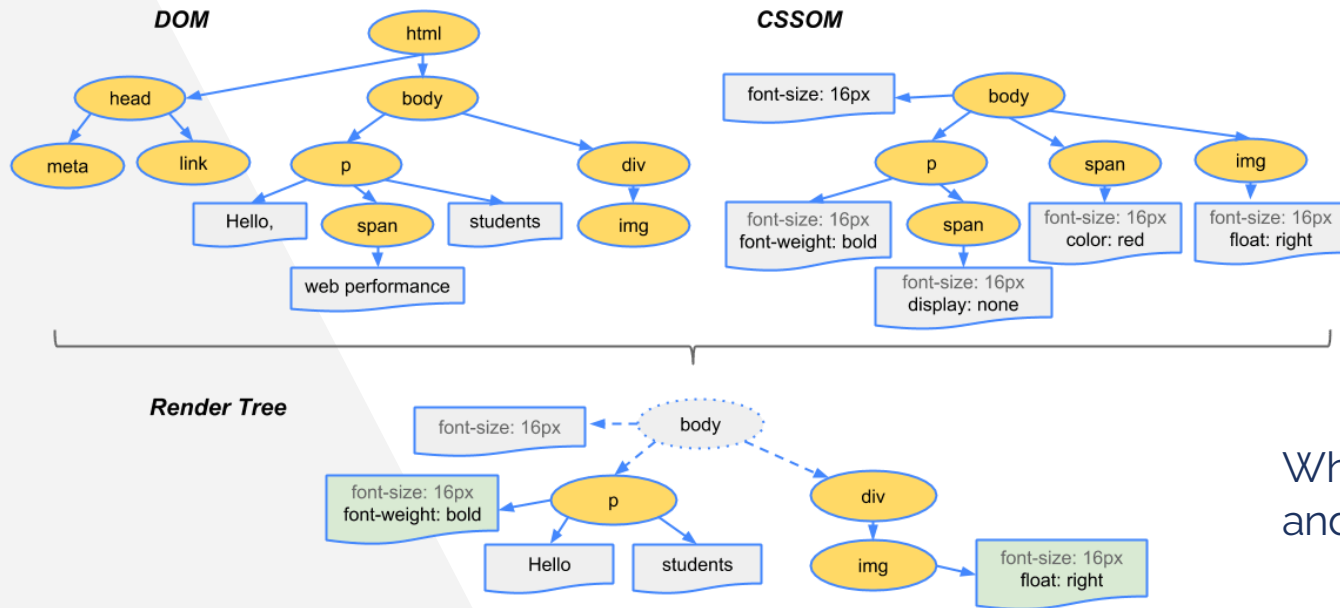
The CSSOM

CSS Object Model



Get their elements
through Selectors

The Render Tree



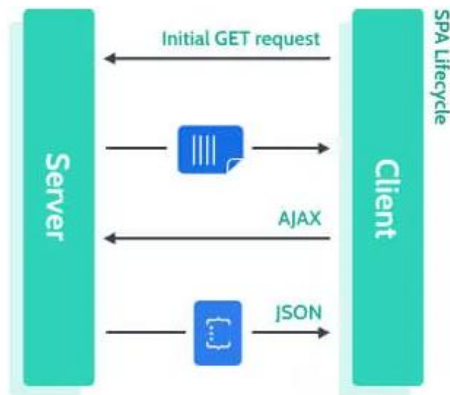
What is shown to the user and what JS will modify.

2.

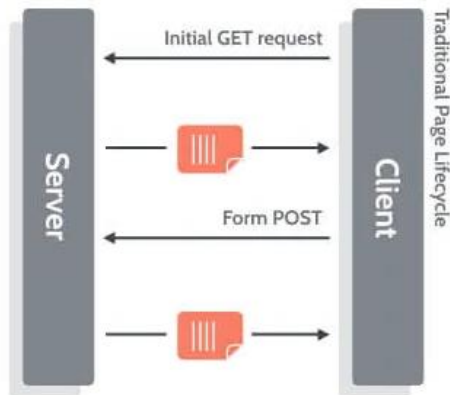
What is a Single Page Application?

I heard that you liked Javascript...

Compared to traditional webpages



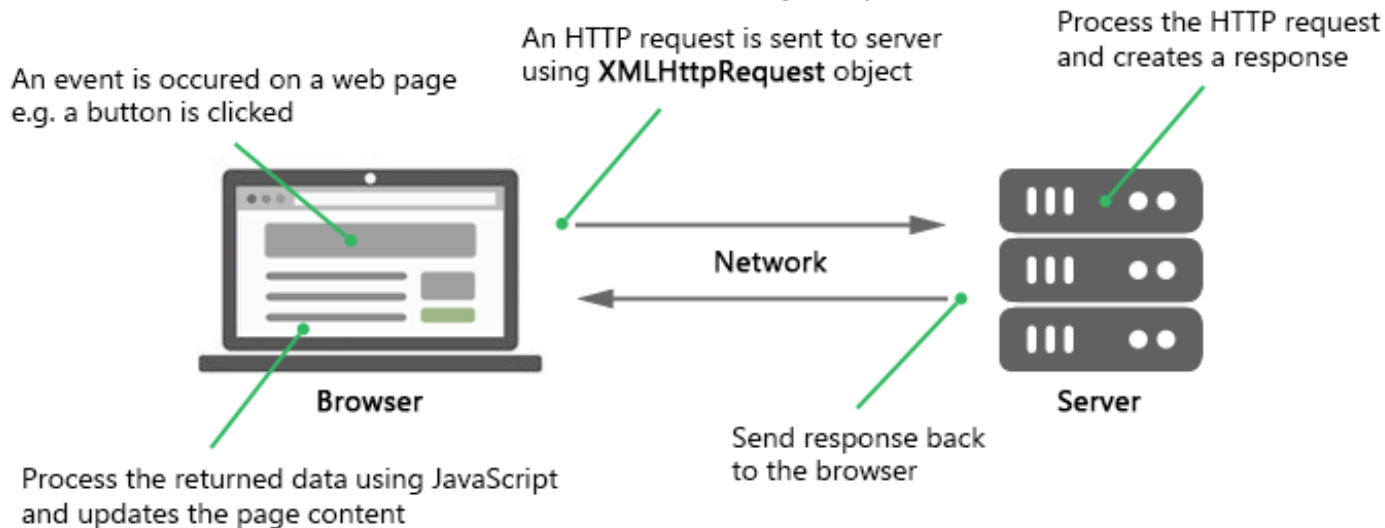
Think of Json as one-size-fits-all for data.



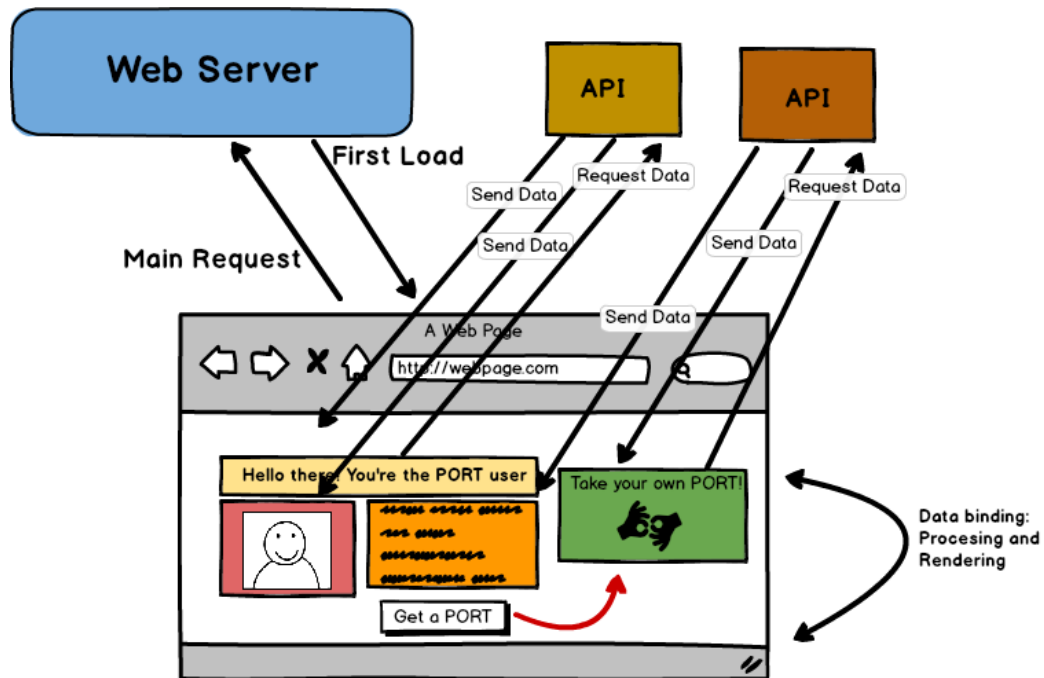
With each request the page will reload.

What is AJAX?

We'll learn a lot more about AJAX in the upcoming days



No only limited to a single server



Single Page Application - SPA Rendering Model (Idealized)

3. Why React?

Produced a React-ion for sure.

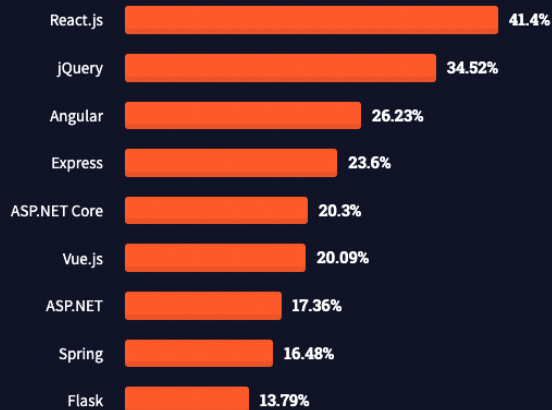
As popular as something can be

Web frameworks

This year, React.js surpassed jQuery as the most commonly used web framework.

All Respondents

Professional Developers

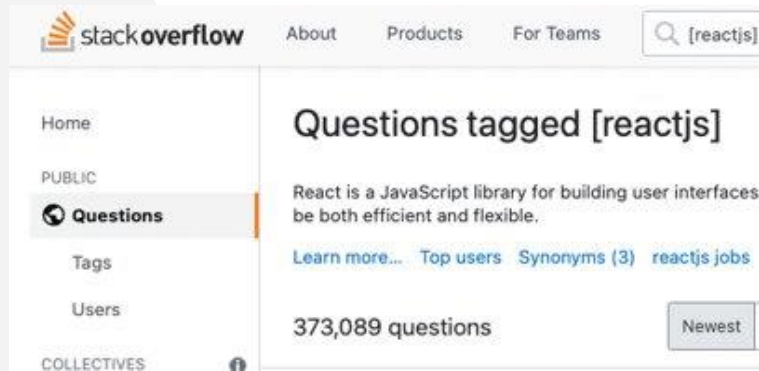


StackOverflow
Survey 2021

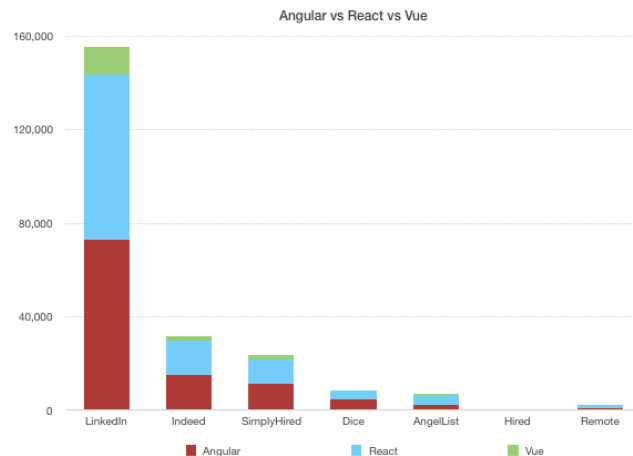
Developer

And that means...

It's easy to get help if you are stuck



Lots of opportunities

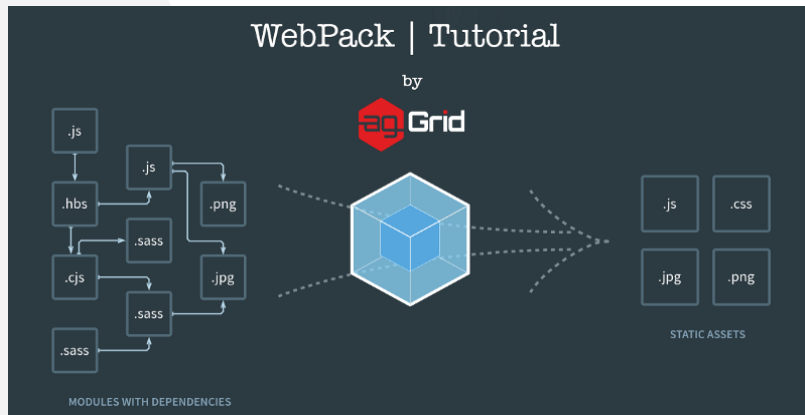


More than one way to crack an egg (or a problem)

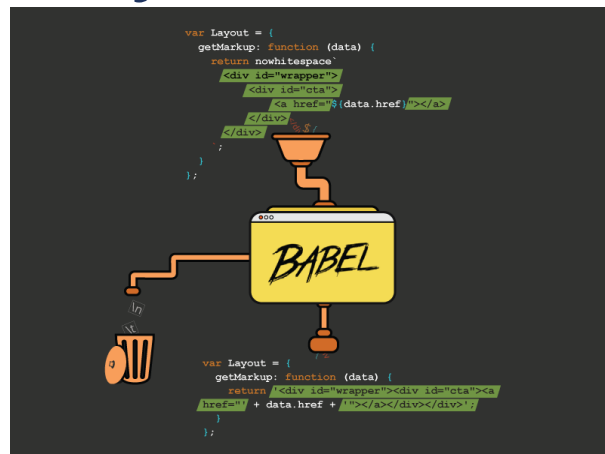


Two familiar examples

Webpack bundles everything



Babel makes it work everywhere



4. Time to learn by doing

What is JSX?

- ▶ Mix of JS with an HTML-like syntax
- ▶ React embraces that rendering logic is inherently coupled with User Interface logic
- ▶ Instead of separating by presentation and behavior, is separated by loosely coupled units called components.

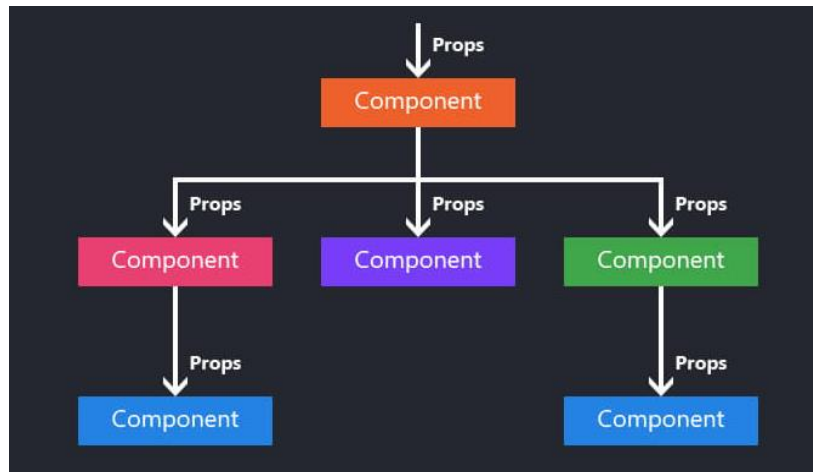
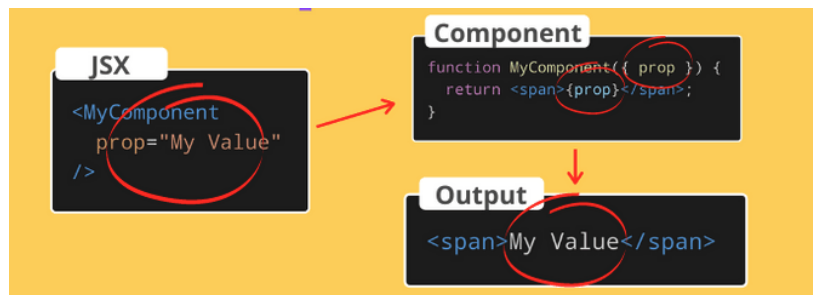
What we write:

```
const App = () => {  
  | return <div>Hello world!</div>  
}
```

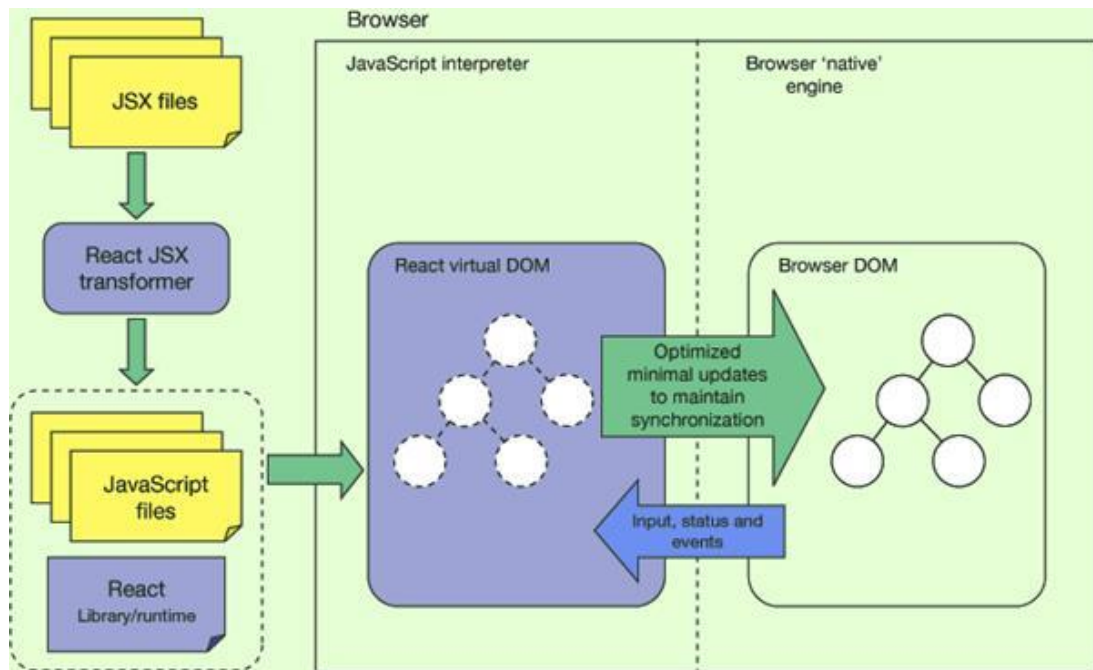
What the browser will see:

```
const App = () => {  
  | return React.createElement("div", null, "Hello world!");  
};
```


How components communicate?

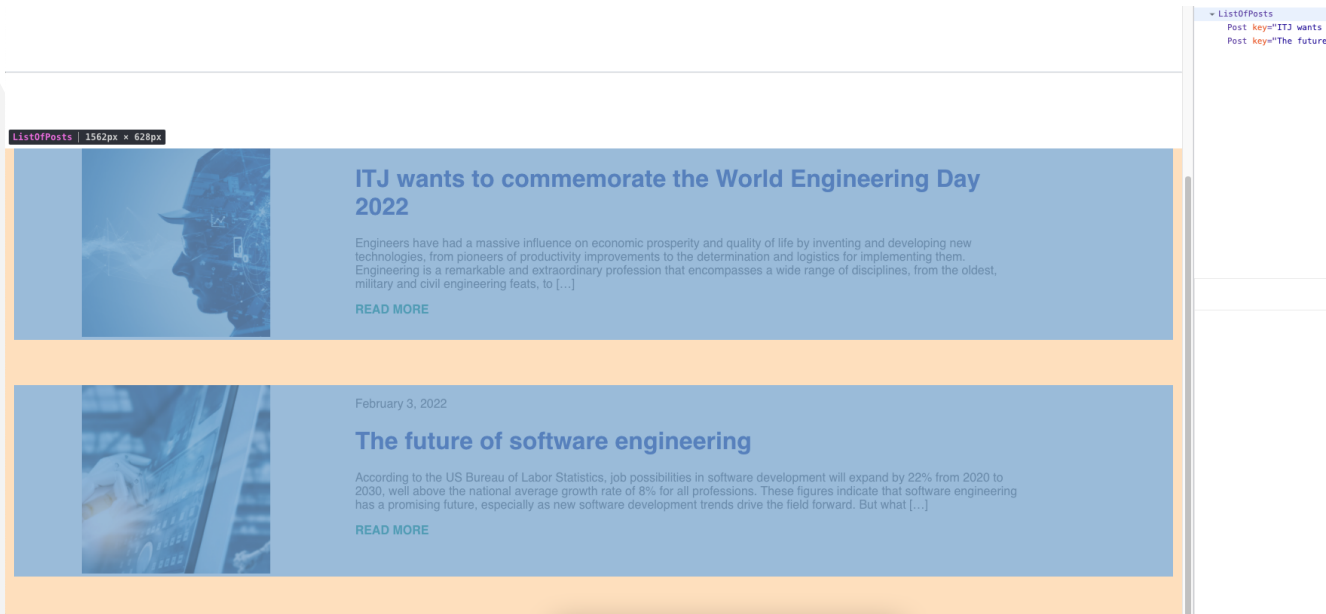


A small peek under the hood



How does a composed component works?

- ▶ Each of the Post don't know about the other Posts, only the ListOfPosts that creates them





THANKS!

Any questions?

You can find me at yaelgarciag819@outlook.com

Don't hesitate to ask anything in the Whatsapp Group!