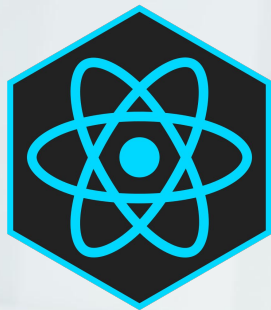
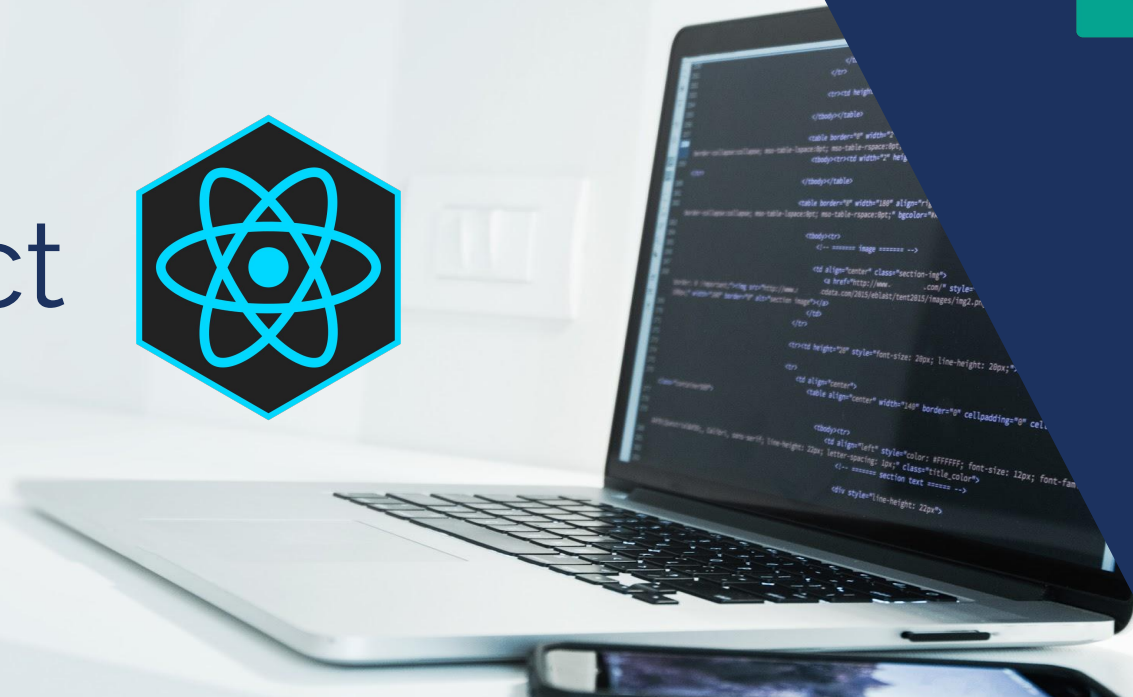


# React



itj  
{...}

BOOTCAMP





# HELLO!

I am Idalid Avila :D

@carotteid



Idalid Avila



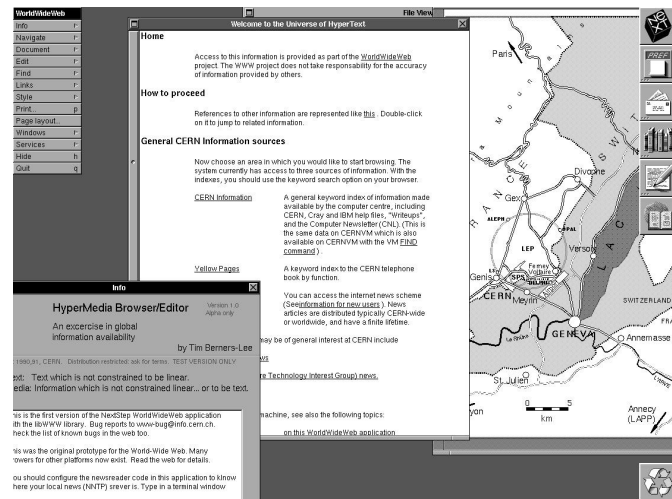
1.

# The making of the webpage

*Once upon a time in a CERN office...*

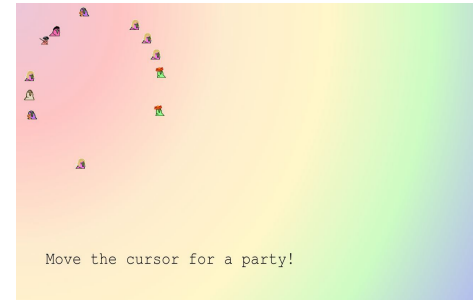
# Why we have 3 languages instead of 1?

- ▶ 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.

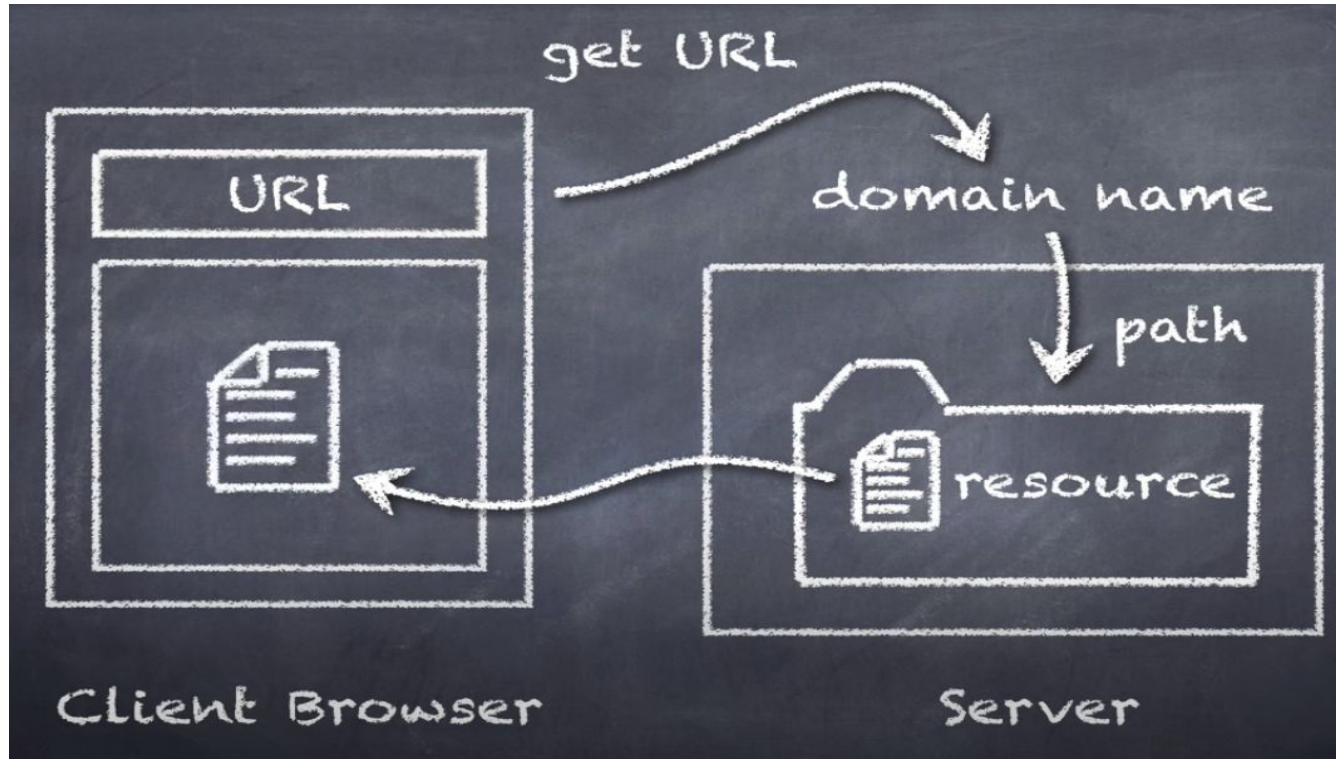


2.

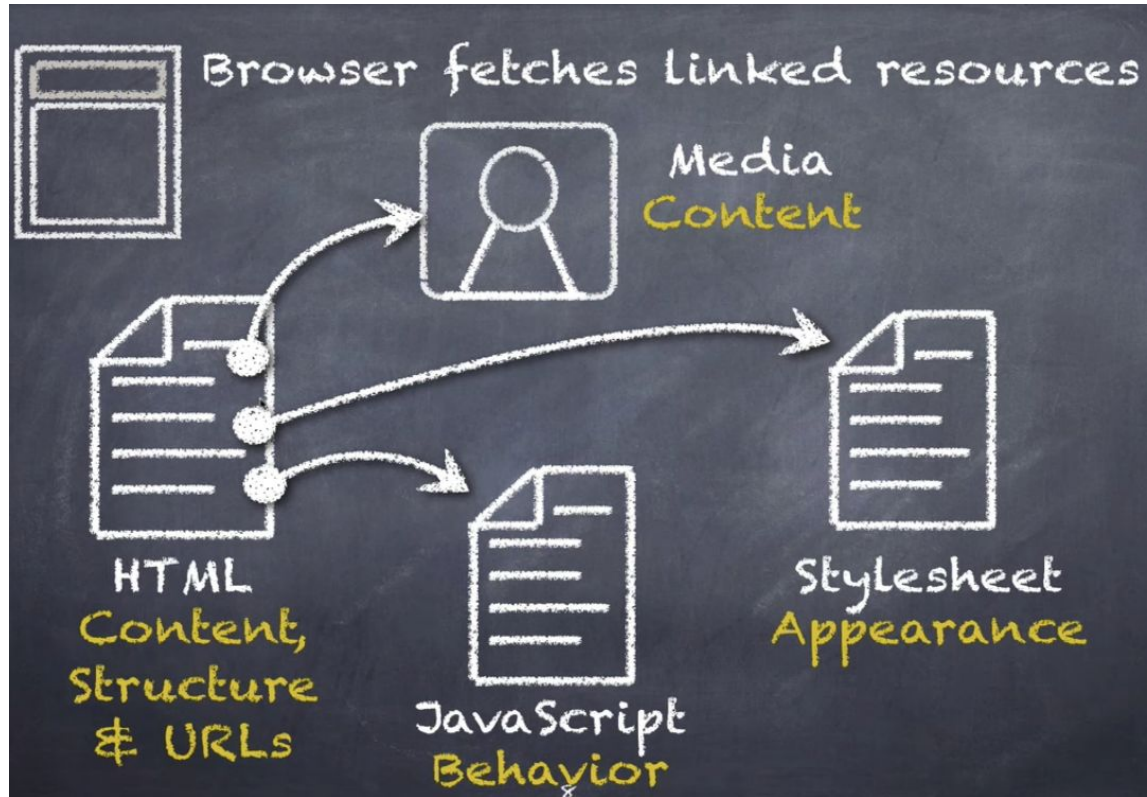
# The lifecycle of a webpage

*Fetching all the way down*

# How the browser gets the page?



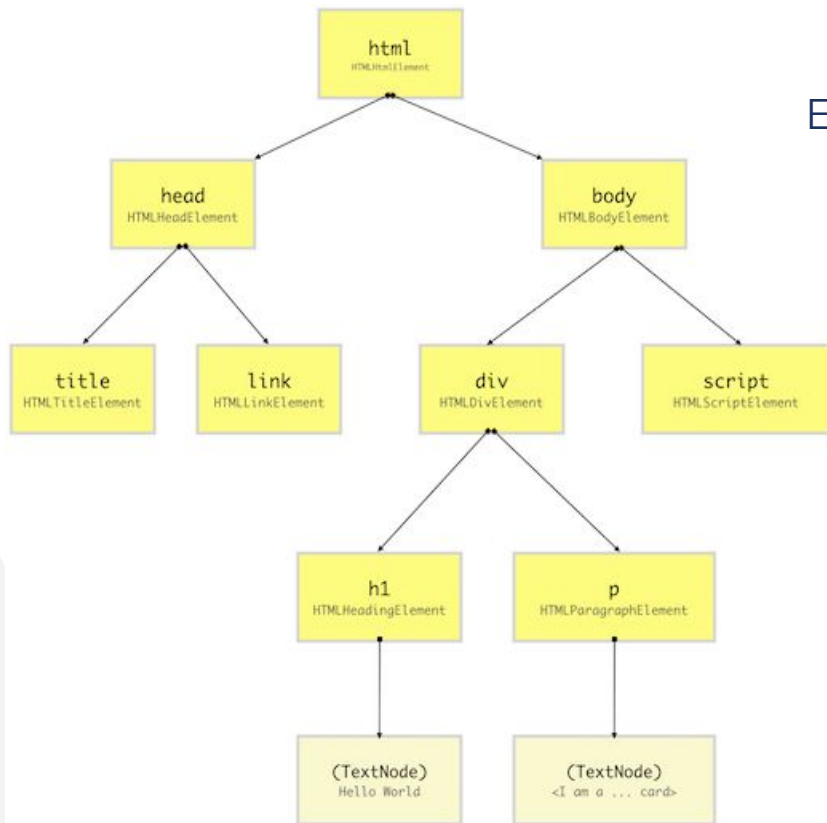
# In what order is processed?





# The D.O.M.

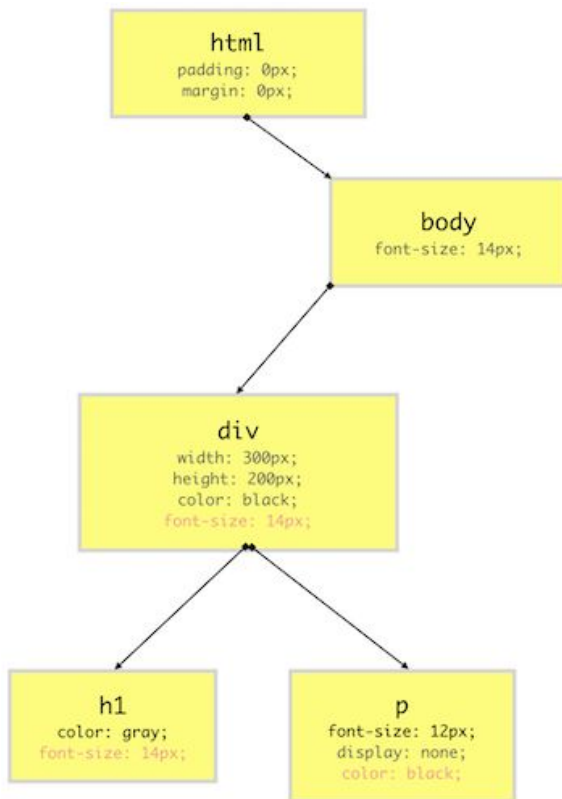
## Document Object Model



Each one is called a Node

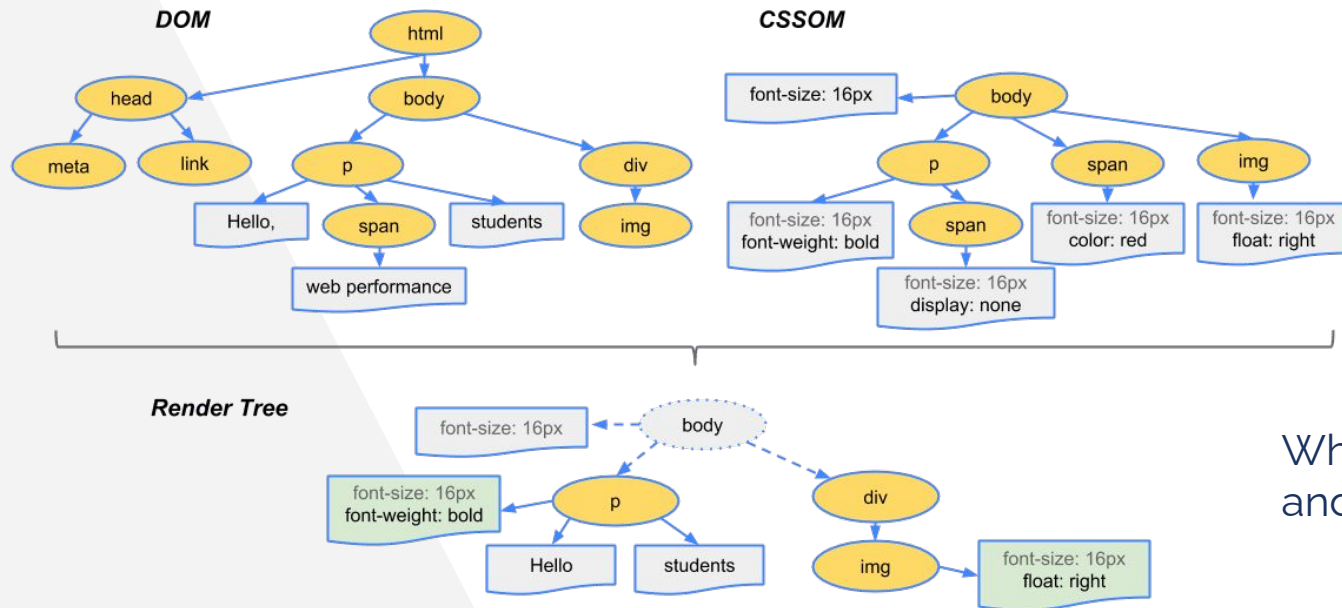
# The CSSOM

## CSS Object Model



Get their elements  
through Selectors

# The Render Tree



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

2.

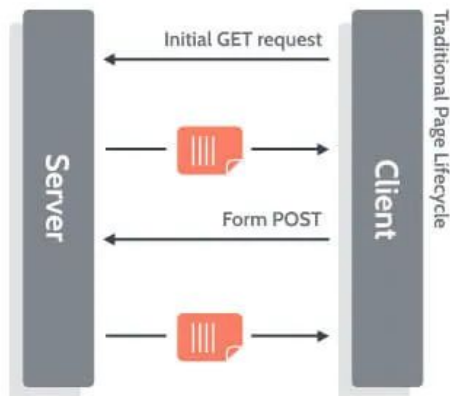
# What is a Single Page Application?

*I heard that you liked Javascript...*

# Compared to traditional webpages

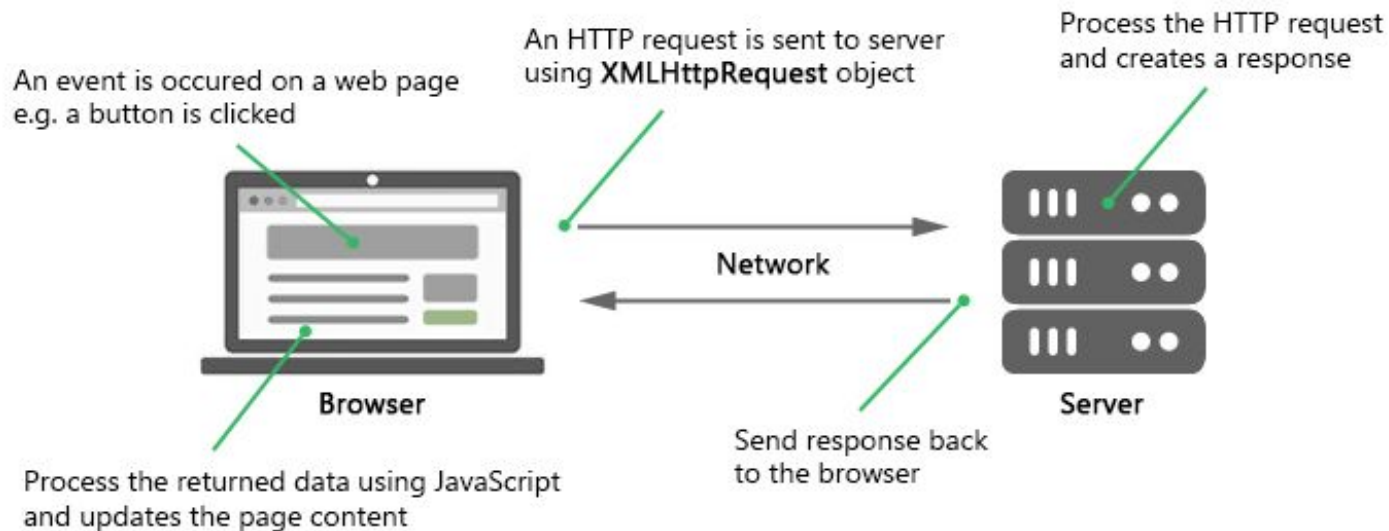


Think of Json as one-size-fits-all for data.

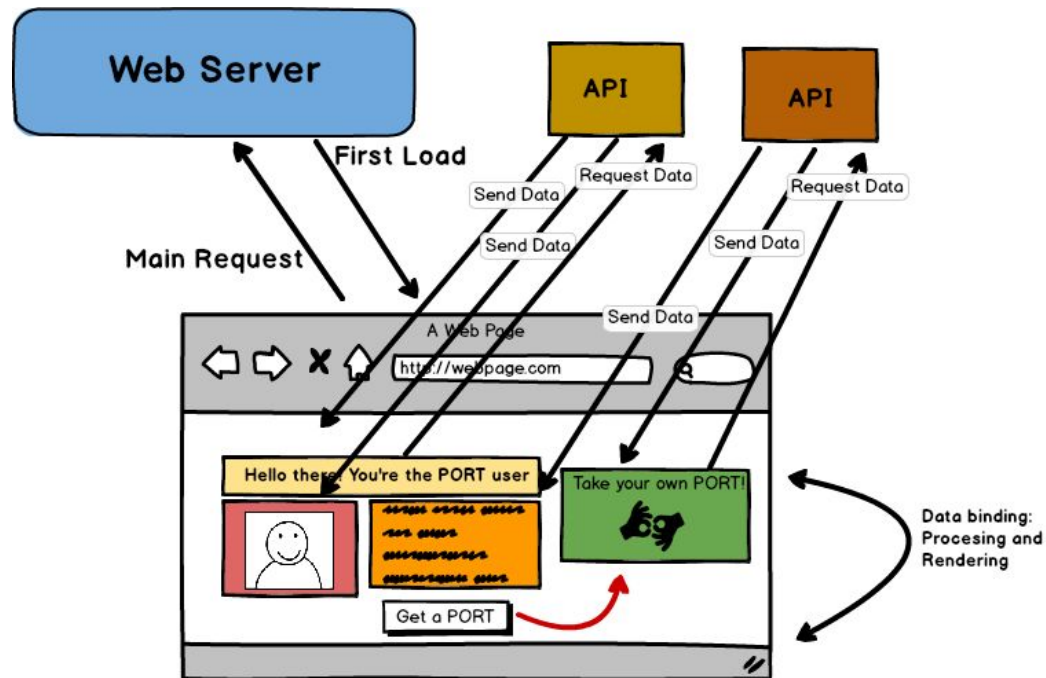


With each request the page will reload.

# What is AJAX?



# 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

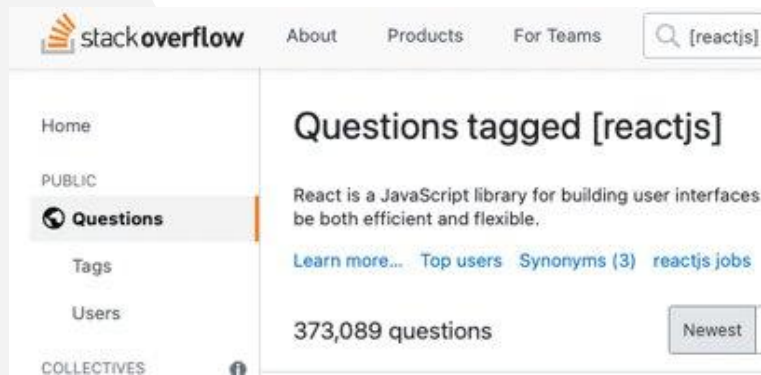


StackOverflow  
Survey 2021

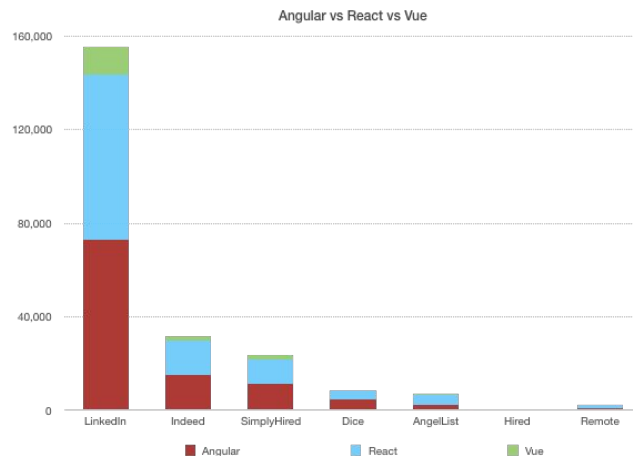
Developer

# And that means...

## It's easy to get help if you are stuck



## Lots of opportunities

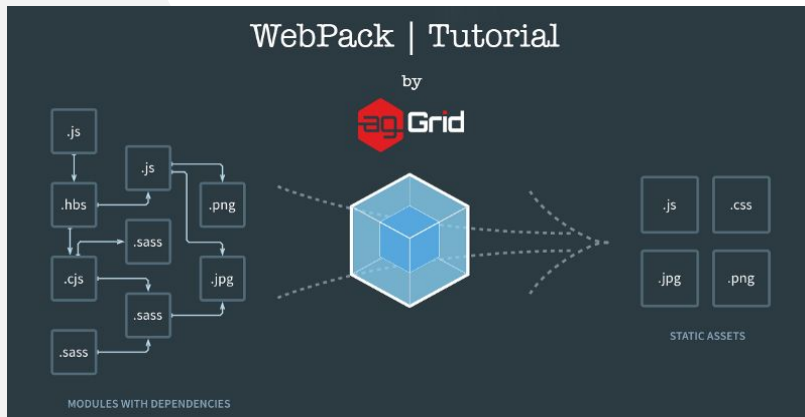


# More than one way to crack an egg (or a problem)

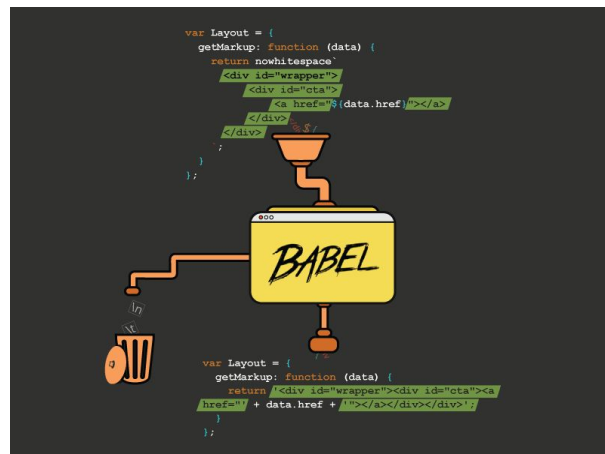


# Two familiar examples

## Webpack bundles everything



## Babel makes it work everywhere



# 4. Time to learn by doing

# If you haven't installed Nodejs yet



Node.js® is a JavaScript runtime built on [Chrome's V8 JavaScript engine](#).

OpenSSL security releases may require Node.js security releases

Download for macOS (x64)

16.14.1 LTS

Recommended For Most Users

17.7.1 Current

Latest Features

[Download 17.7.1 Current](#)

[Other Downloads](#) | [Changelog](#) | [API Docs](#)

[Other Downloads](#) | [Changelog](#) | [API Docs](#)

Or have a look at the [Long Term Support \(LTS\) schedule](#)

# 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"



Edit src/App.js and save to reload.

[Learn React](#)

# 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:

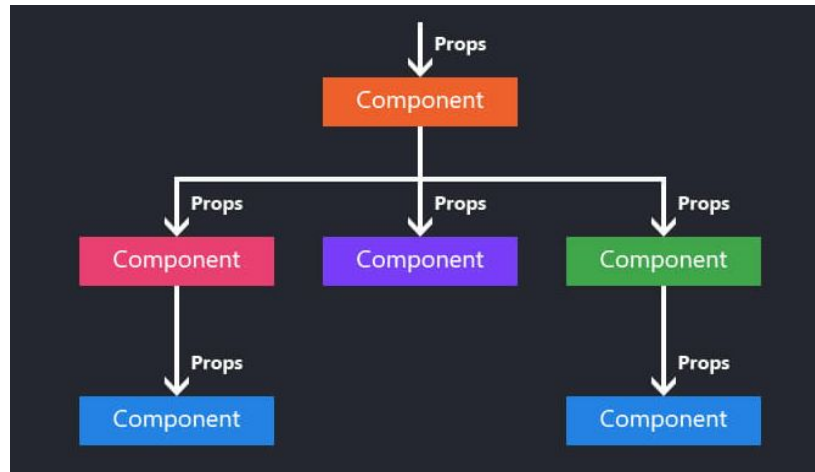
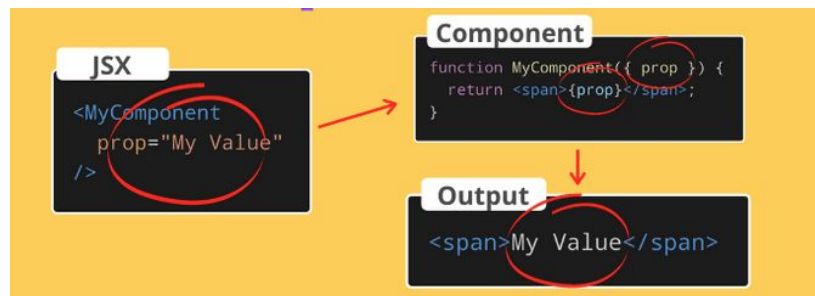
```
const App = () => {  
  |   return <div>Hello world!</div>  
}
```

What the browser will see:

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



# How components communicate?





# THANKS!

**Any questions?**

You can find me at [id.avilacamargo@gmail.com](mailto:id.avilacamargo@gmail.com)