How to Get Help

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I usually answer questions Monday to Friday around 9AM PST What is React?

What is its purpose?

...Boring

Let's make an app with React!

goo.gl/T6zQ9q

Tool for making a tiny React App

...But really, what is React and its purpose?

React is a Javascript library

React's *ultimate* purpose is to show content (HTML) to users and handle user interaction

Why didn't we use Redux to make that app?

React can work by itself

...but it can also work with a tremendous variety of other libraries, packages, servers, and databases

What was that 'class' thing?

A Javascript 'class'.

React 'components' are made using either Javascript functions or classes

What was the HTML looking stuff?

JSX

It looks like HTML and can be placed in Javascript code. Determines the content of our React app just like normal HTML

How did the screen change when we moved the mouse?

An event handler

Event handlers are used to detect user interaction and respond to it

Why did we add two libraries (React and ReactDOM)?

React is split into two separate libraries

'React' knows what a component is and how to make components work together.

'ReactDOM' knows how to take a component and make it show up in the DOM

...But really, what is React and its purpose? Why didn't we have to use Redux to make that app?

Questions!

What was the HTML looking stuff?

What was that 'class' thing?

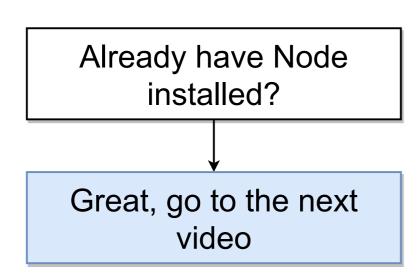
How did the screen change when we moved the mouse?

Why did we add two libraries (React and ReactDOM)?

Let's learn more about JSX

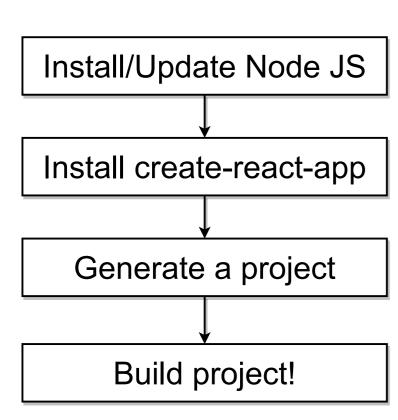
Codepen is great, but not frequently used for professional projects

Let's generate a new *local* React project!



nodejs.org/en/download

After installing Node you might have to restart your terminal to get 'node -v' to work



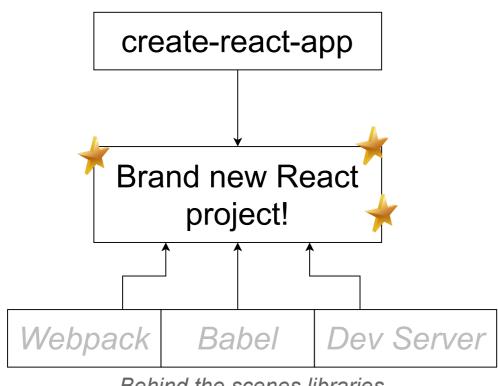
Installs this package globally so we can run it from the terminal

npm install -g create-react-app

We want to 'install' a package onto our computers

Name of the package we want to install computers

Alternate command! npx create-react-app <name of project>



Behind the scenes libraries that you don't have to setup

ES2015

ES2016

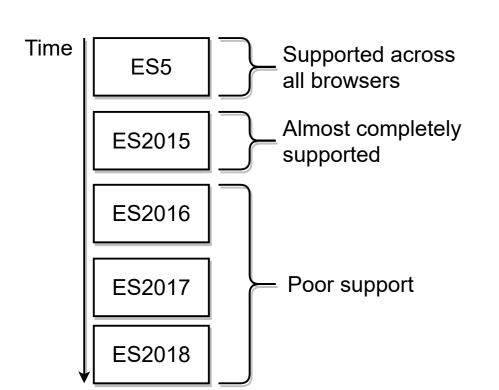
ES2017

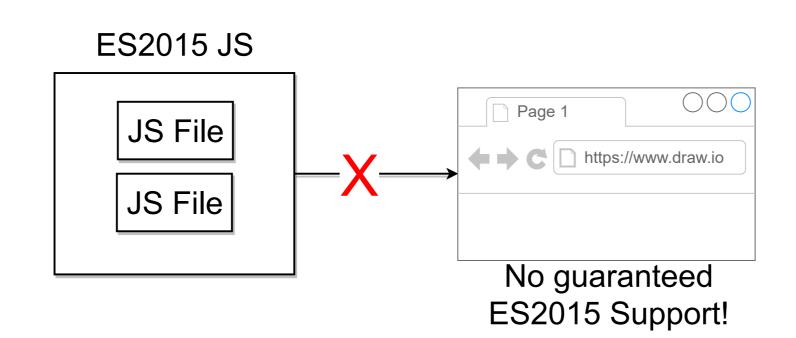
ES2018

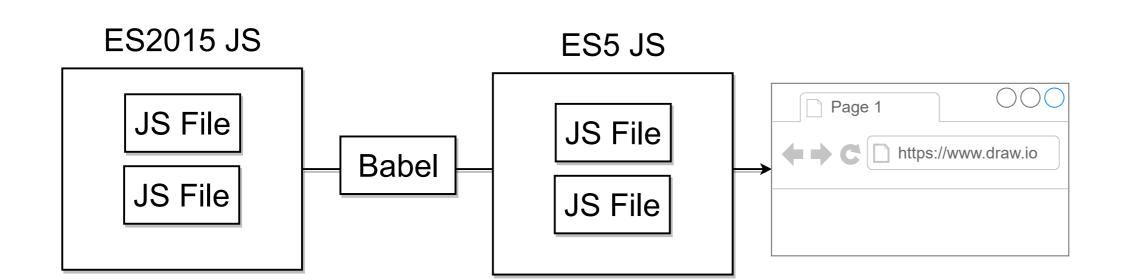
Version of Javascript you probably know

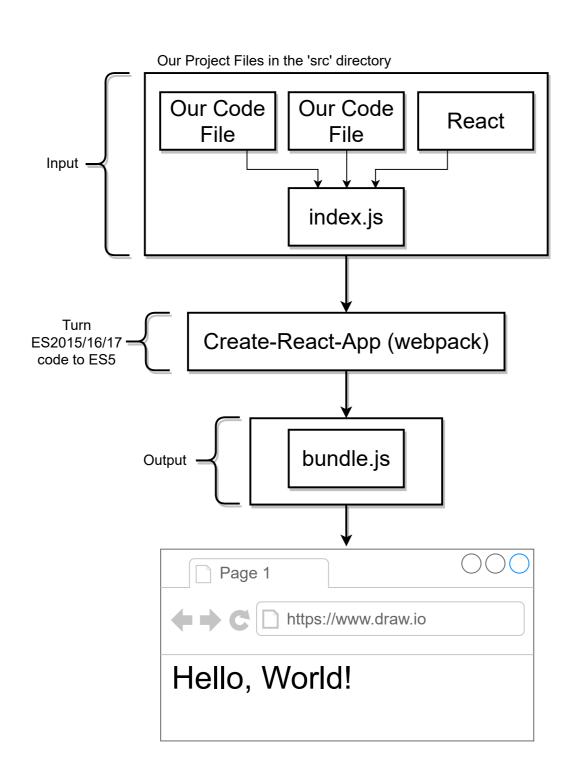
Newer versions of Javascript with new and useful features

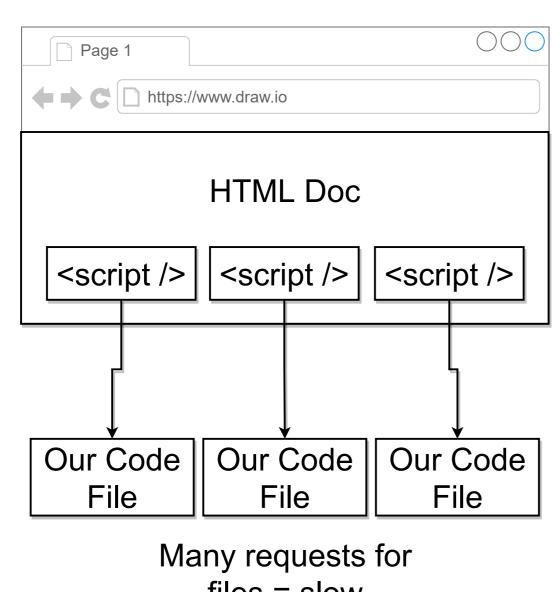
ES2019



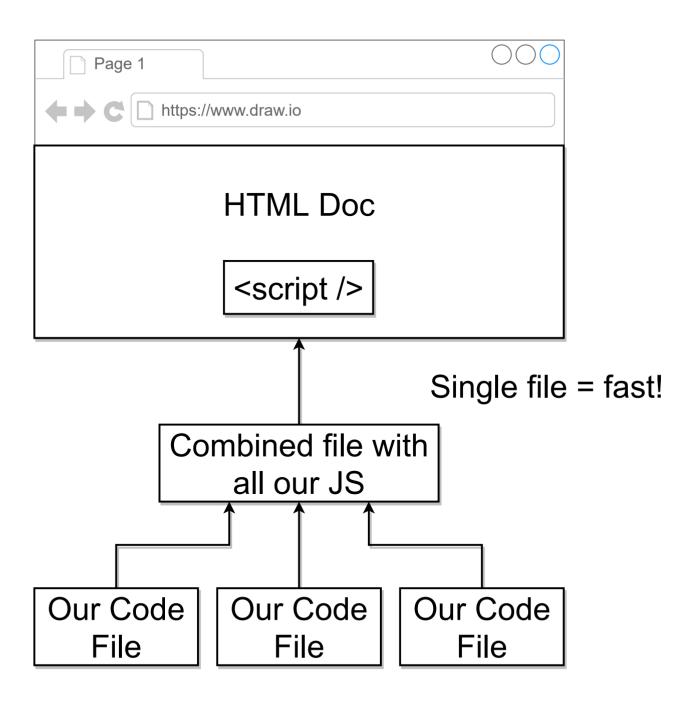


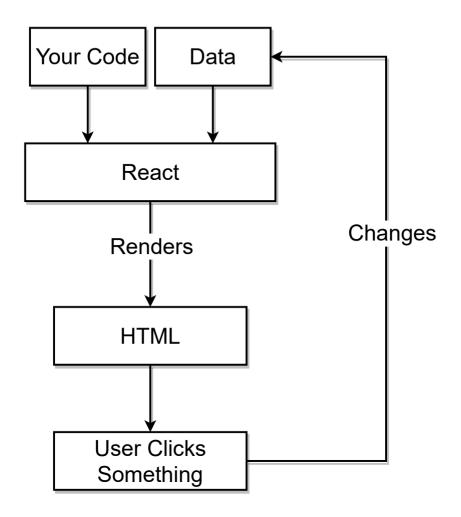






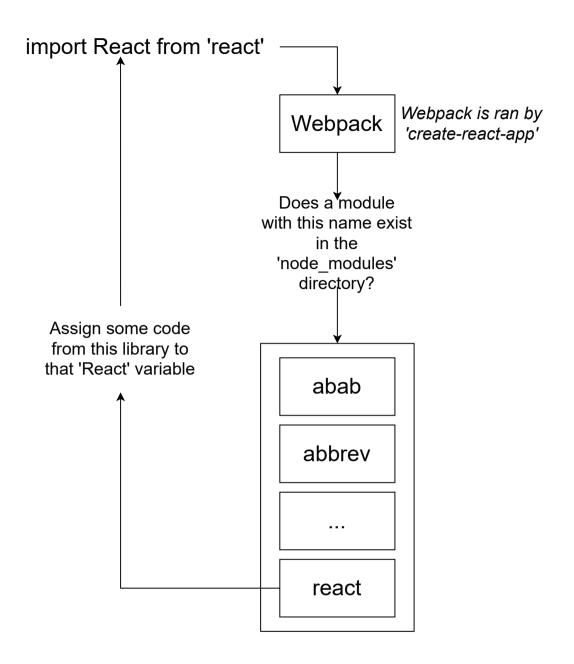
files = slow





Showing Content in the Browser

Problem	Solution
Where do we add code?	Figure out how create- react-app loads code we write
What code do we add?	Figure out how to show HTML with React
How do we run the code we add?	Figure out how to build or run the create-react-app project

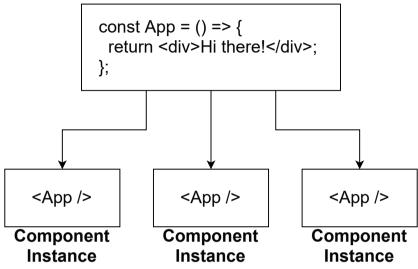


React

Knows how to make React components work together ReactDOM

Knows how to take a pile of React components and show them in the DOM

Component Class



Project Directory pa	src	Folder where we put all the source code we write
	public	Folder that stores static files, like images
	node_modules	Folder that contains all of our project dependencies
	package.json	Records our project dependencies and configures our project
	package- lock.json	Records the <i>exact</i> version of packages that we install
	README.md	Instructions on how to use this project

Port in use message

localhost:3000 doesn't work

Stopping the React app

Starting the app up in the future

Press Control+C at the terminal

Run npm start in the project directory

Once the app is started, you can visit it at localhost:3000

We want to get code from some other file or dependency

import

React

from

'react'

The variable we want to assign this import to

The variable we want to assign this import to

The variable we want to the file we are importing

The variable we want to the file we are importing

