WORKSHOP #4

CREATE-REACT-APP

LETS BECOME FRIENDS WITH THE COMMAND PROMPT.

- Open the command prompt by pressing the Windows key + R and type in cmd into the
- This should open a lovely command prompt that will allow us to do all sorts of fun things.
- We first want to check if we have node installed. Type "npm -version" without the quotes in your command prompt. If we see a version that is above 5.0 we're all set.
- If not we will see and error saying "npm is not a recognized program", and we'll want to follow the directions in the next few slides.

INSTALLING NODE

If node isn't installed on our computers, we need to navigate to https://nodejs.org/

We want to click on the Windows Installer button highlighted below

LTS Recommended For Most Users		Current Latest Features		
Windows Installer node-v10.13.0-x86.msi	macOS Installer		Source Code node-v10.13.0.tar.gr	
Windows Installer (.msi)	32-bit	-bit 64-bit		
Windows Binary (.zip)	32-bit		64-bit	
macOS Installer (.pkg)	64-bit			
macOS Binary (.tar.gz)	64-bit			
Linux Binaries (x64)	64-bit			
Linux Binaries (ARM)	ARMv6	ARMv7		ARMv8
Source Code	node-v10.13.0.tar.gz			

INSTALLING NODE

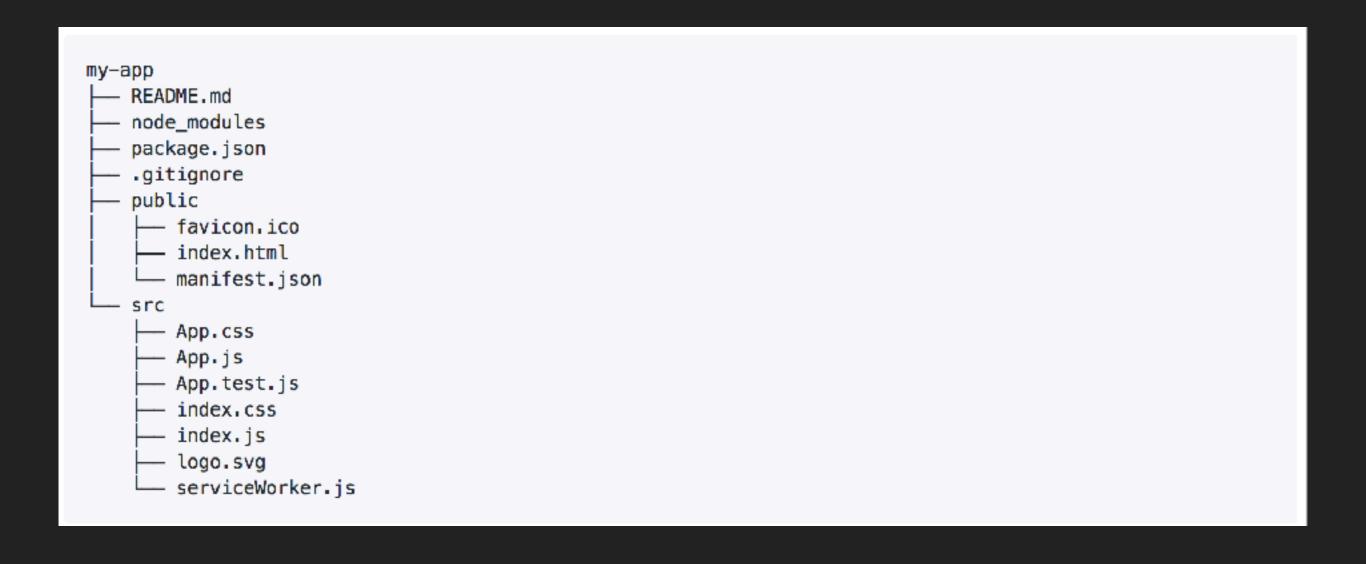
- Once we click on the windows button a download should start. Run the file once the d/l has completed.
- Follow along the prompts to install node on your computer. Once the installer is complete it might have you restart your computer (hopefully not).
- Close any command prompt windows, and reopen a new one, and type in "npm -version" without the quotes. Now we should see a version number and this will allow us to install packages with the "Node Package Manager".

INSTALLING CREATE-REACT-APP

- So now we want to set up our create-react-application to be installed on our computer. This will allow us to use the createreact-app command to create projects and install the correct files necessary for our react application.
- In our command prompt, we want to make a directory that we will install our react applications into. First we need to navigate into our Documents folder. We do this by using the cd command (which stands for Change Directory).
- ▶ The format is cd directoryNameGoesHere.
- From the command prompt type "mkdir react-applications" without the quotes.

- Now that we have a directory that we can install our react applications. Lets create our rock scissor paper project.
- In our command prompt make sure we are in our reactapplications folder by using the command "cd" - this stands for change directory. The command "cd reactapplications" should bring us into the correct directory.
- Now lets type "create-react-app rockscissorspaper"
- It'll take a minute to set up the correct files.

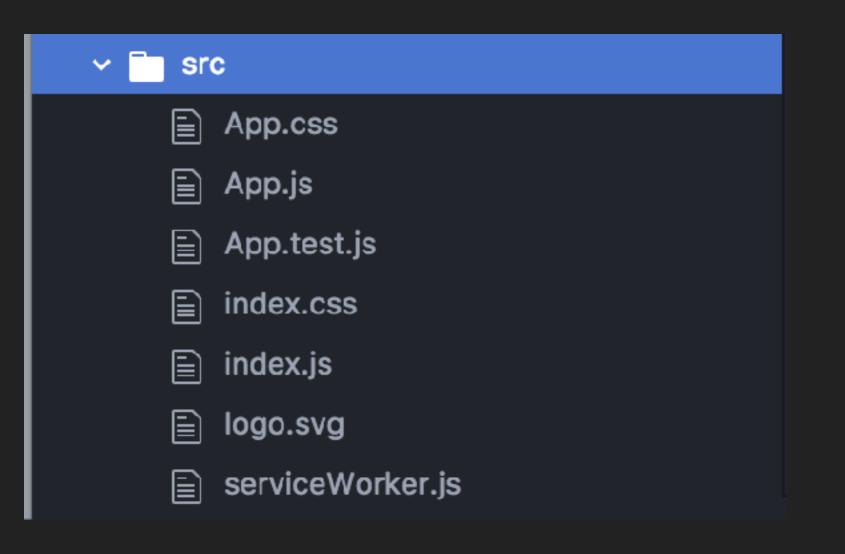
Now that we have our application initialized. Lets open it up and check out the directory structure that create-reactapp initially gives us. (Here is where you want to open the project in your local IDE to see the directory structure)



CREATE-REACT-APP

- rockscissorspaper
 - > 🛅 .git
 - > node_modules
 - > **n** public
 - > 💼 src
 - gitignore
 - package-lock.json
 - package.json
 - README.md

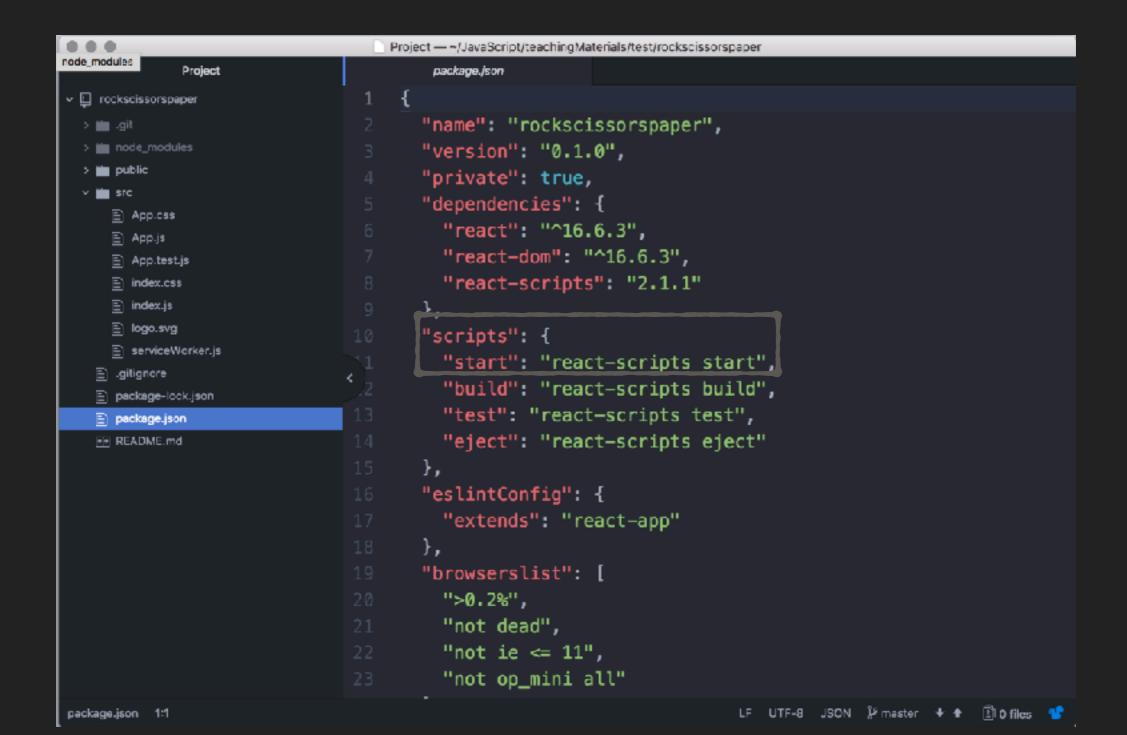
This is what the directory structure will look like in the atom IDE.



Our src directory is where we are going to be working 99% of the time.

This is where our main App.js file is as well as where we would want to create our component JS files.

Now its time to start a server. Select the package.json file.



- We have a script that will allow us to locally run our application, and we run this script by typing in our project directory "npm run start"
- ▶ If successfully complied you should see this in your console.

You can now view rockscissorspaper in the browser. Local: http://localhost:3000/ On Your Network: http://192.168.1.183:3000/ Note that the development build is not optimized. To create a production build, use npm run build.

If you open your browser and go to http://localhost:3000/ you should see the create-react-app boilerplate page loading.



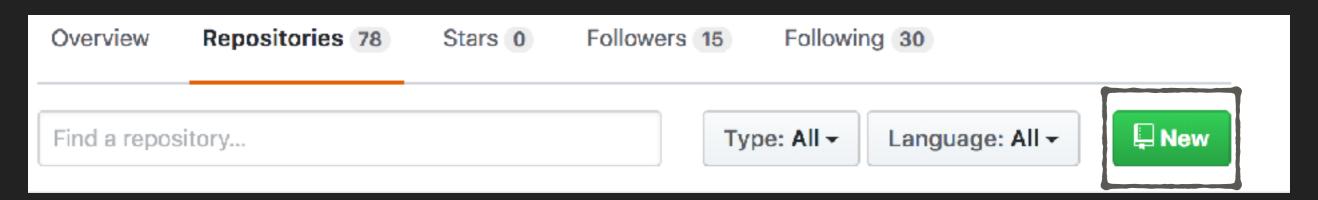
Edit src/App.js and save to reload.

Learn React

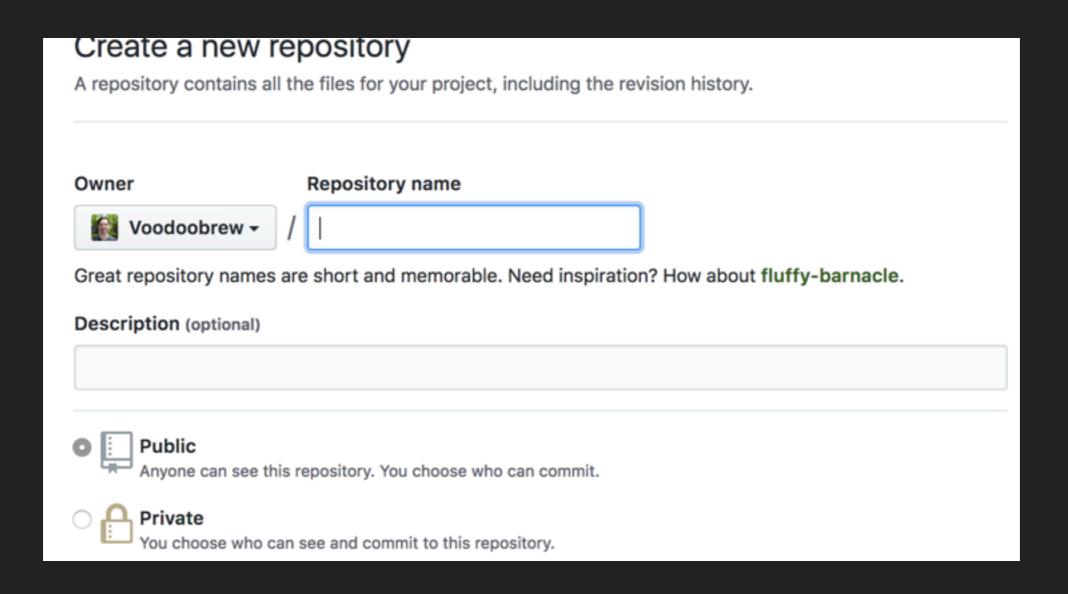
- Now that we have our boilerplate and directory structure created. We want to add this to a repository on github. This way we start using version control to handle our projects.
- First we have to create this repo on github. Navigate to <u>GitHub.com</u> and log in.
- Then we want to navigate to our repositories tab at the top of your page



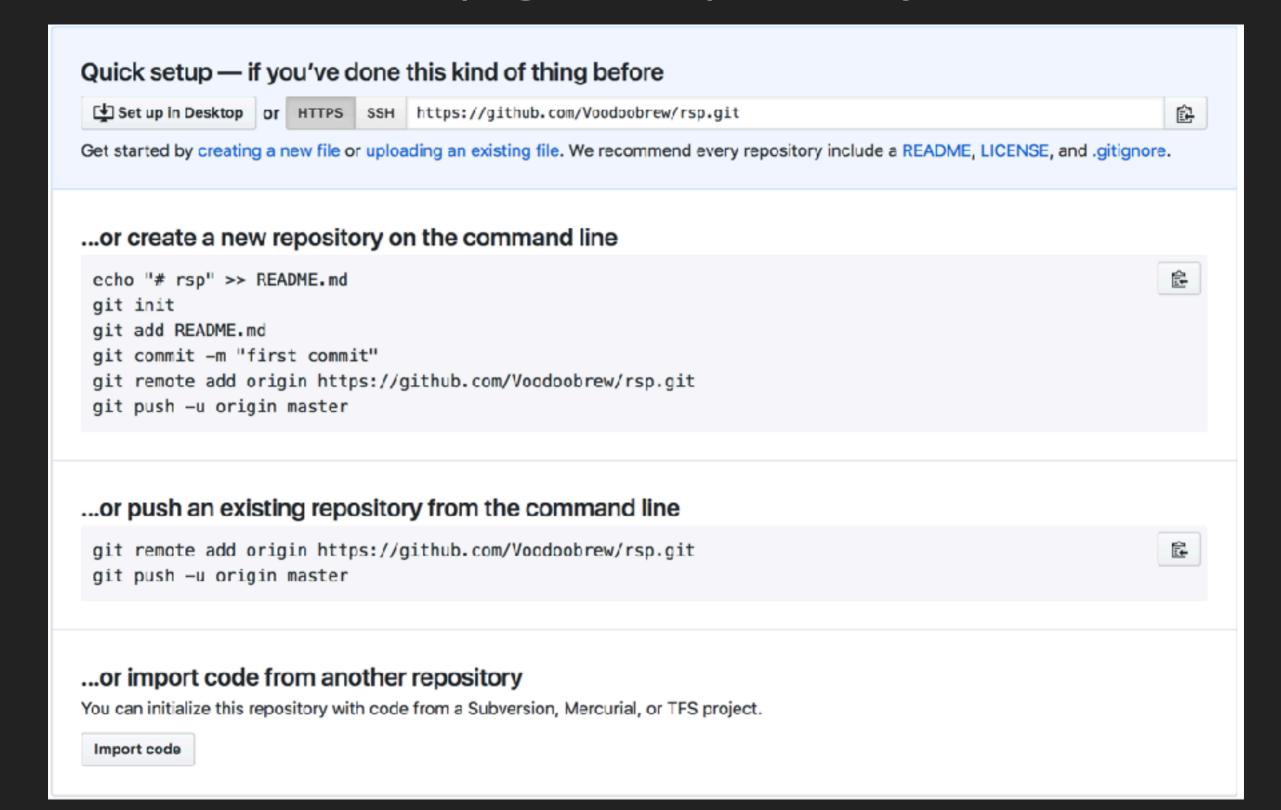
We want to create a new repository by clicking the "New" button pictured.



Then we want to give our repo a declarative name that describes our project. Now lets give our repo a name of rock-scissors-paper in the repository name field.



We should see this page if setup correctly.



- Lets navigate to our react-applications directory and make sure we change directories into our rockscissorspaper folder.
- Now we want to initialize the project by typing in git init into our command prompt.
- After our repository is initialized. We want to add in all of our files that we have so far. Run the **git add**. (that's a period after the add word to make sure it adds everything in the directory initialized).
- Then we want to commit these files to our repo by running the command git commit -m "First Commit"

- Now we need to use that link up in the quick setup to add into our remote repository.
- You want to run the command.
 git remote add origin https://github.com/
 YOURNAMEHERE/rock-scissors-paper.git
- Then we want to push these files to our repo's master branch.
 - In the command prompt run git push -u origin master

Here are some useful links to reference: https://help.github.com/articles/adding-an-existing-project-to-github-using-the-command-line/

https://github.com/facebook/create-react-app