

Photo by [Roman Synkevych](#) on [Unsplash](#)

Creating a Personal Website Using GitHub

Technica 2021

About Me

- Sagar Saxena (he/him)
- Junior Computer Science Major at UMD
- Third year mentoring at Technica!
- Second year leading a workshop, but first time leading a beginner track workshop!
- Created my first web app at a hackathon
- Made my first personal portfolio in high school



Today's Agenda

Git and GitHub

Getting started with using Git and GitHub to manage your code base

Local Website

Creating a local website using HTML, CSS, and JavaScript

Deployment

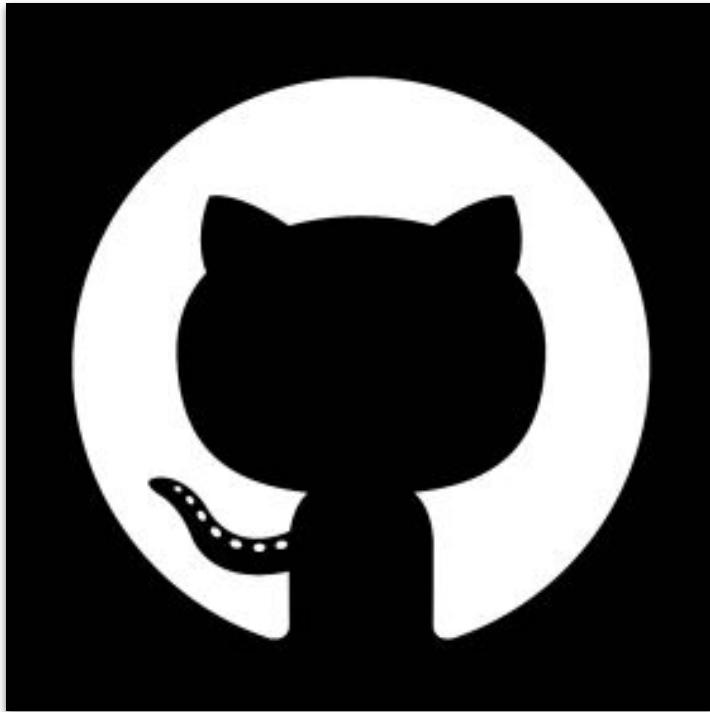
Deploying your local website to be publicly available using GitHub

Prerequisites

- **Code Editor or IDE** (a few are listed below)
 - [Sublime Text](#), [VSCode](#), [Atom](#)
 - Alternatively,
 - A code editor from the command line (vim, nano, emacs)
 - Notepad orTextEdit (won't have nice syntax highlighting)
- **Git** installed on your command line (alternatively, the web IDE will work fine as well)
- **A GitHub Account** (we'll step through how to create this if you don't already have one)
- **Profile Picture** (or [this picture of a dog](#) I found online)
- **Resume** (I made a [sample](#) using this [awesome website](#))



Image Source: [Better Homes and Gardens](#)



O1

Git and GitHub

Getting started with using Git and GitHub to manage your code base

A Brief Introduction

Git

Allows you to manage your local code base and version control your code

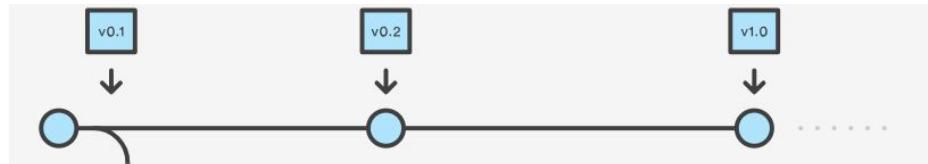


Image Source: [Medium](#)

GitHub

Stores and hosts your local code base on a remote server

GitHub Account

If you don't already have a GitHub Account, sign up for one here
<https://github.com/signup>

Generate a Personal Access Token

Go to <https://github.com/settings/tokens>

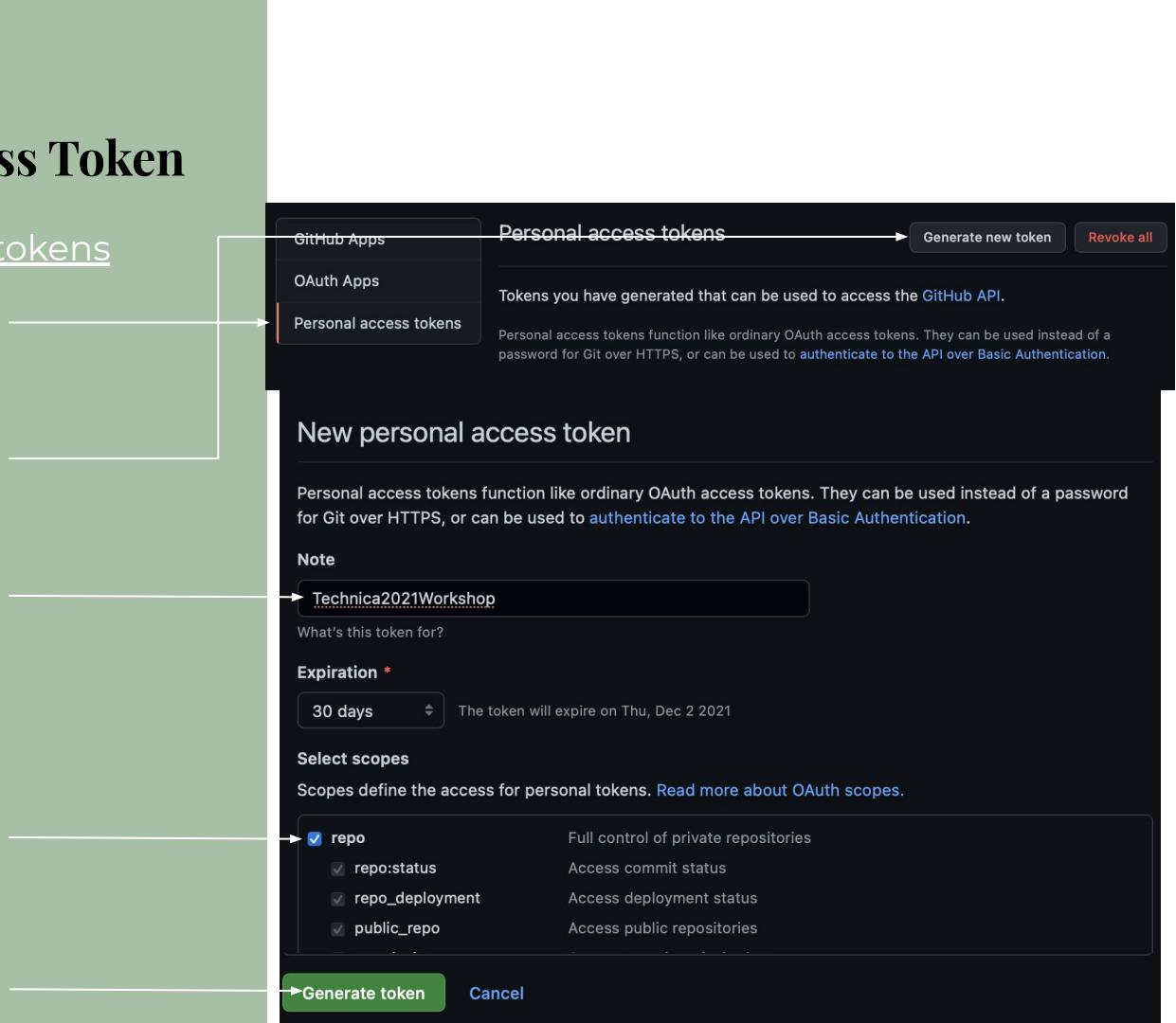
Click Personal Access Tokens

Generate A New Token

Add a Note

Select repo

Click Generate Token



Create a Repository For Your Website

Choose a name for your repository

Set permissions to public

Add a README

Create the repository

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository](#).

Owner *



sagardsaxena

Repository name *



Portfolio



Great repository names are short and memorable. Need inspiration? How about [miniature-dollop](#)?

Description (optional)

Technica 2021 Workshop

Public

Anyone on the internet can see this repository. You choose who can commit.

Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

Add a README file

This is where you can write a long description for your project. [Learn more](#).

Add .gitignore

Choose which files not to track from a list of templates. [Learn more](#).

Choose a license

A license tells others what they can and can't do with your code. [Learn more](#).

This will set `main` as the default branch. Change the default name in sagardsaxena's [settings](#).

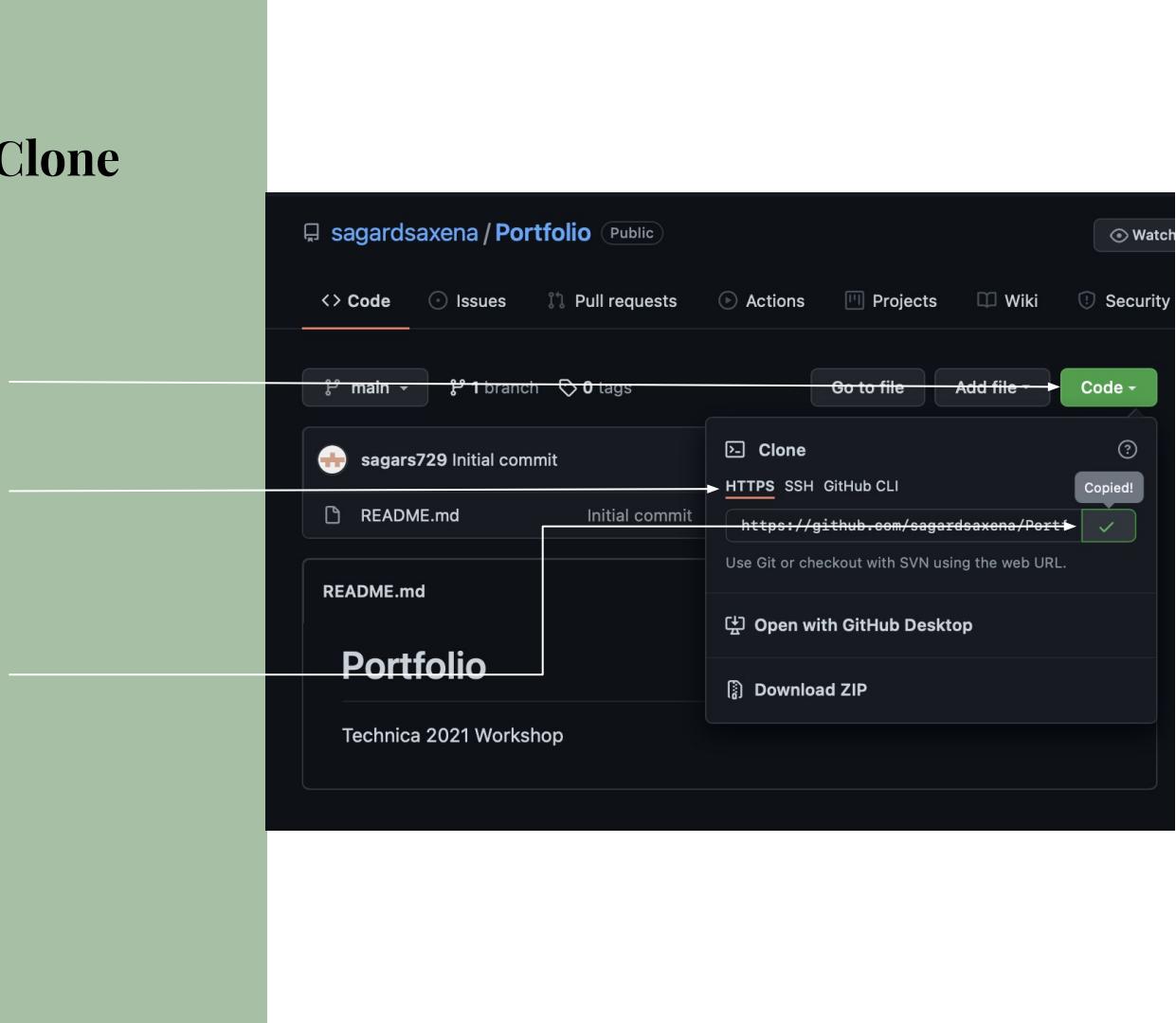
Create repository

Copy Your Repository Clone

Click the Code Button

Select HTTPS

Click the Copy Button



Clone Your Repository

Clone your repository

Change your directory

List the files in your directory

```
Programming$ git clone https://github.com/sagardsaxena/Portfolio.git
Cloning into 'Portfolio'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
Programming $
Programming$ cd Portfolio/
Portfolio $
Portfolio$ ls
README.md
```

Basic Git Commands

git pull

Pulls changes from GitHub to your local repository

git add

Adds a file to be committed to your repository

git commit

Commits all files that have been added

git push

Push all commits to your remote repository on GitHub

A Simple Example

Modify your README

Run git status to see changes

Add the README

Commit the README

Push your commits

Password = Generated Token

README.md

1 # Portfolio

2 Technica 2021 Workshop

3

4 Created By Sagar Saxena

```
Portfolio $ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

            modified:   README.md
```

```
no changes added to commit (use "git add" and/or "git commit -a")
Portfolio $ git add README.md
```

```
Portfolio $ git commit -m "Update README"
[main 47a9b32] Update README
 1 file changed, 1 insertion(+), 1 deletion(-)
```

```
Portfolio $ git push
Username for 'https://github.com': sagars729
Password for 'https://sagars729@github.com':
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
```

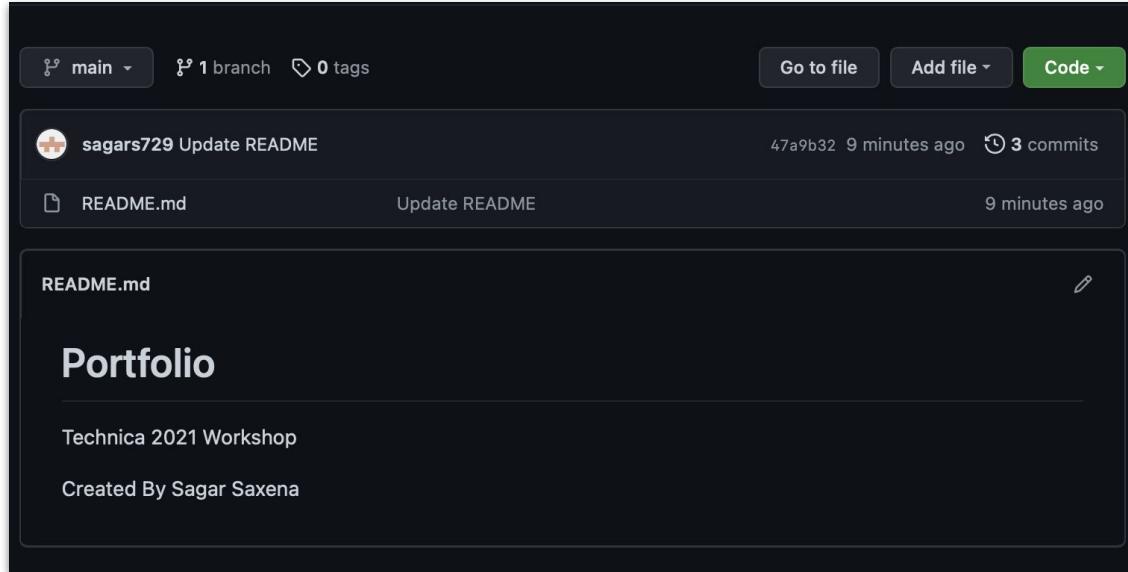
```
Writing objects: 100% (6/6), 525 bytes | 525.00 KiB/s, done.
Total 6 (delta 1), reused 0 (delta 0)
```

```
remote: Resolving deltas: 100% (1/1), done.
```

```
To https://github.com/sagardsaxena/Portfolio.git
  800b826..47a9b32  main -> main
```

```
Portfolio $
```

Your Repository is Updated on GitHub!

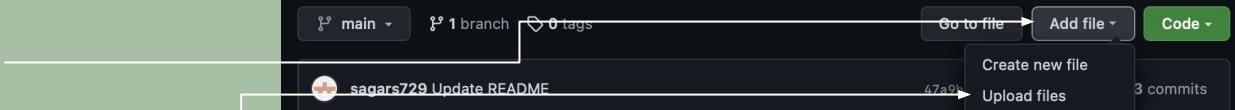


Using the Web IDE

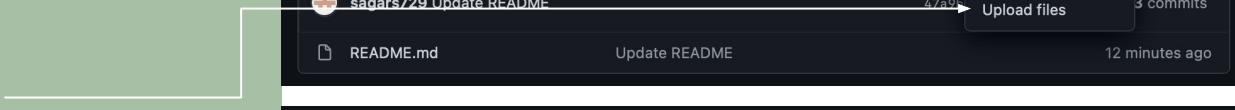
Modify your README



Click Add File



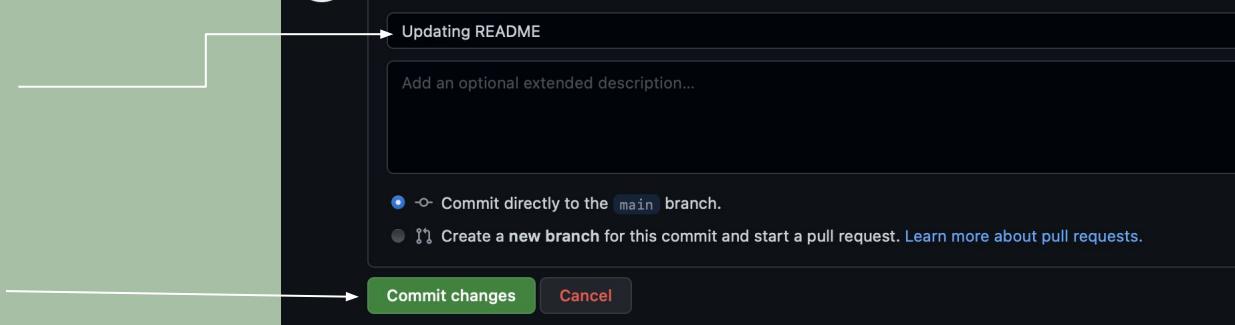
Click Upload Files



Upload Your File

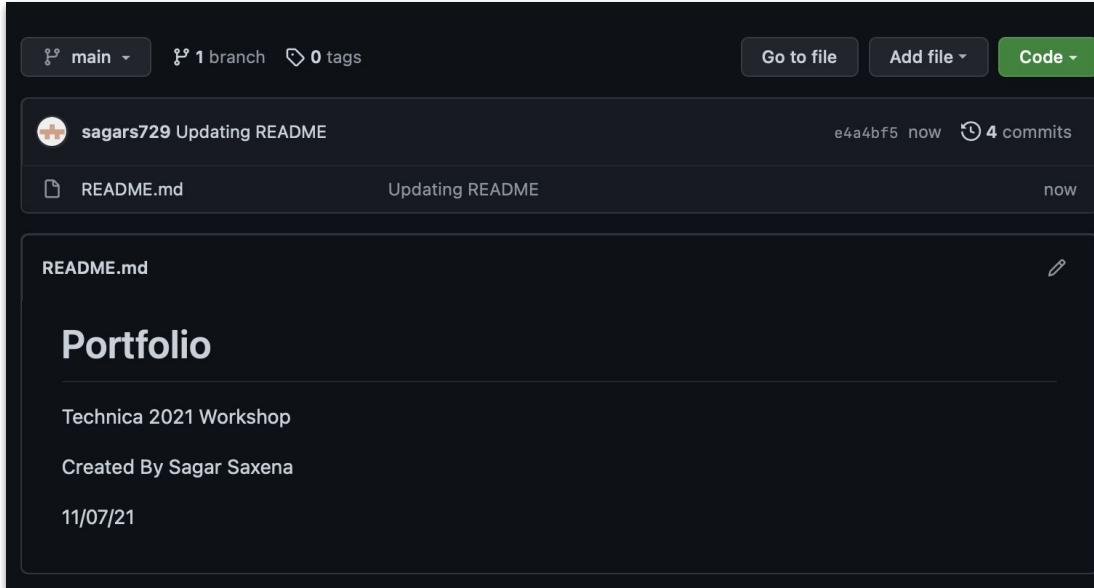


Add a Commit Message



Commit Your Change

Your Repository is Updated on GitHub!





O2

Local Website

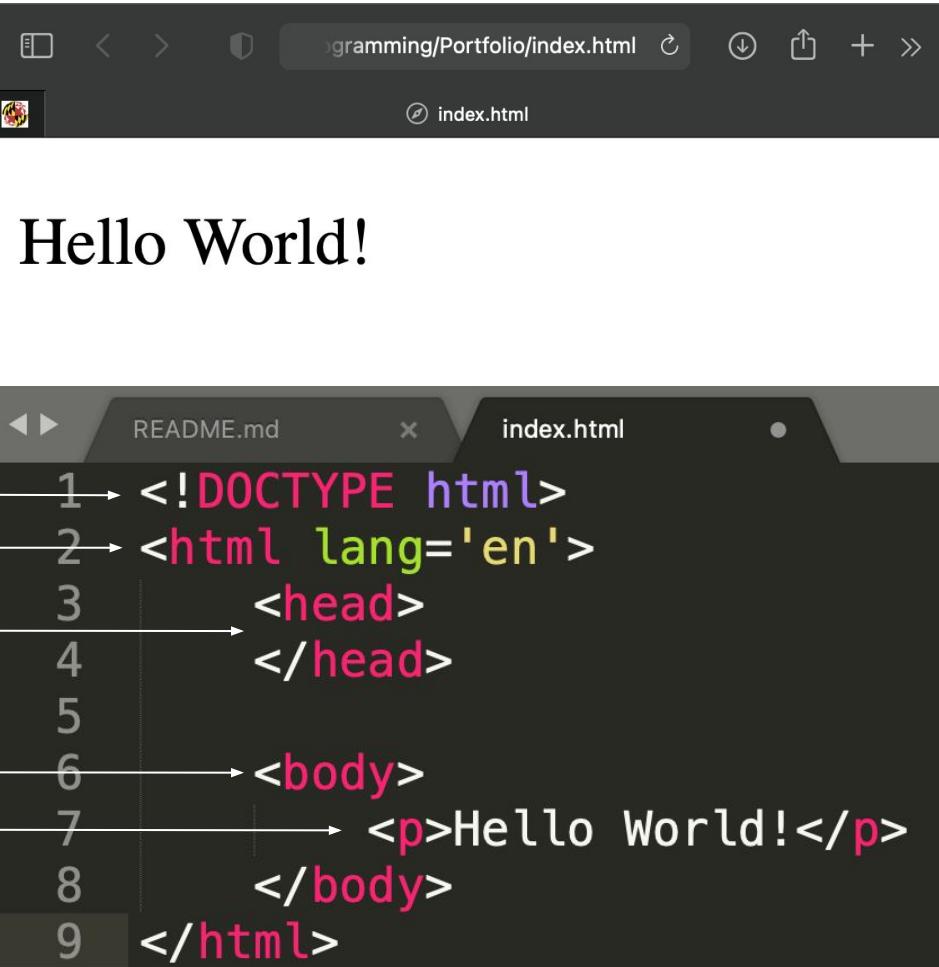
Creating a local website using
HTML, CSS, and JavaScript

Create a Simple Website

Set Document Type
HTML Tags Enclose Your Page

Head Tags Enclose Metadata

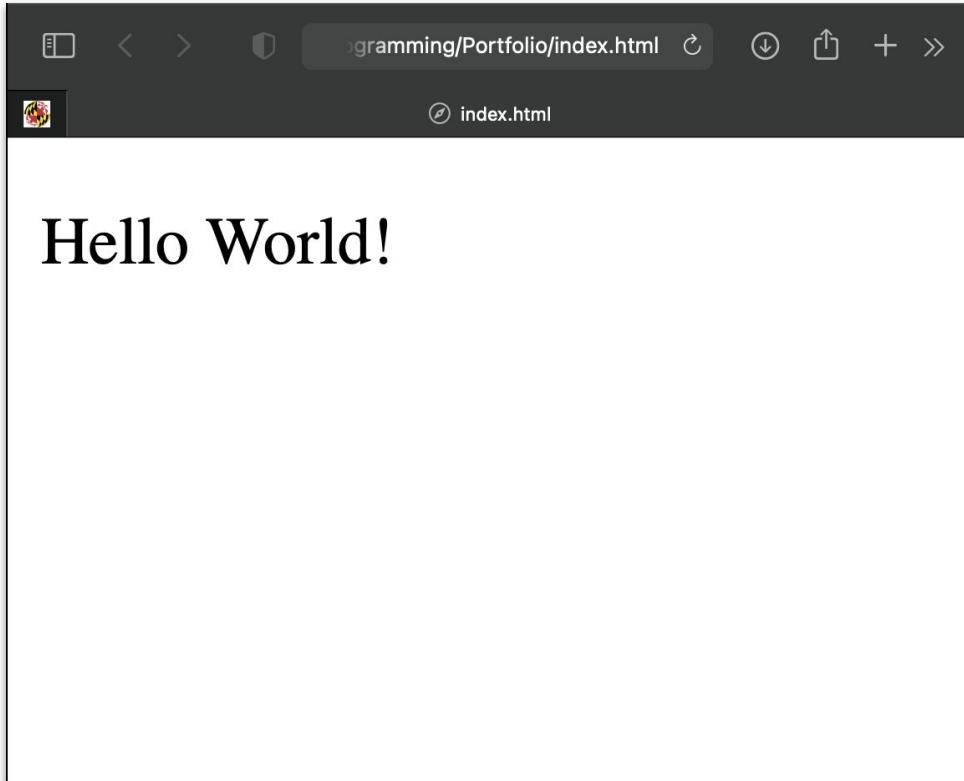
Body Tags Enclose Content
Paragraph Tags



The image shows a code editor interface with two tabs: 'index.html' and 'README.md'. The 'index.html' tab is active, displaying the following code:

```
1 → <!DOCTYPE html>
2 → <html lang='en'>
3 →   <head>
4 →   </head>
5
6 →   <body>
7 →     <p>Hello World!</p>
8   </body>
9 </html>
```

The code is color-coded: 'DOCTYPE' is in red, 'html' is in green, 'lang' is in blue, 'head' is in pink, 'body' is in pink, and 'p' is in pink. Line numbers 1 through 9 are shown on the left.



Not bad for 9 lines of code,
but we can do better!

We want

- a professional website
that looks great!
- to spend less time on
style and more time on
content

Materialize

Materialize

A modern responsive front-end framework based
on Material Design

[GET STARTED](#)

[UPGRADE FROM 0.100.2](#)

Release: 1.0.0

[Materialize](#) allows us to use pre-designed components
and styles that are based on [Material Design](#).

Add CSS and JS Scripts for Materialize

<https://materializecss.com/getting-started.html>

Add Link Tags in Head

Add Script Tags in Body



```
1  <!DOCTYPE html>
2  <html lang='en'>
3  <head>
4      <!-- Compiled and minified CSS -->
5      <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0/css/materialize.min.css">
6  </head>
7
8  <body>
9      <p>Hello World!</p>
10     <!-- Compiled and minified JavaScript -->
11     <script src="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0/js/materialize.min.js"></script>
12
13 </body>
14 </html>
```

Add Color and Center Title

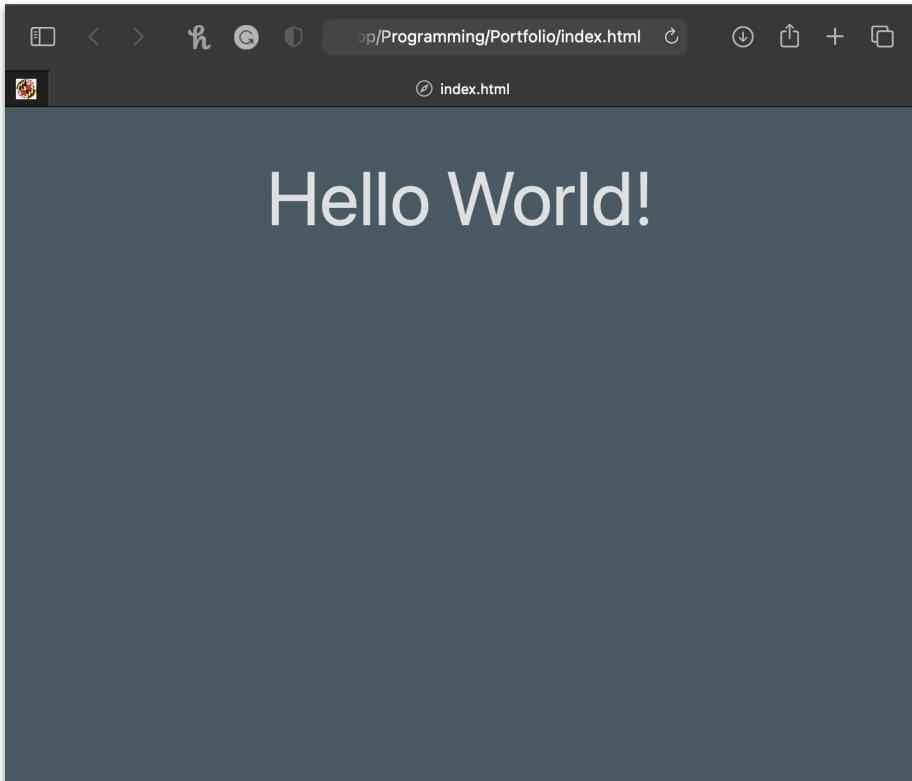
<https://materializecss.com/color.html>
<https://materializecss.com/typography.html>
<https://materializecss.com/helpers.html>

Make background blue grey
and darken it two shades

Center text, make it grey, and
lighten it two shades



```
1 <!DOCTYPE html>
2 <html lang='en'>
3   <head>
4     
5     <link rel="stylesheet" href=
6       https://cdnjs.cloudflare.com/ajax/libs/
7       materialize/1.0.0/css/materialize.min.cs
8   </head>
9   <body class="blue-grey darken-2">
10    <h1 class="center-align grey-text
11      text-lighten-2">Hello World!</h1>
12
13
14 </body>
</html>
```



Nice, in just a few steps we've added a splash of color to our page and it doesn't look as plain!

Now, **we want**

- An Image
- Some Text
- A Link

Why don't we add a card?

Add A Card

<https://materializecss.com/cards.html>

Add a Horizontal Card

With an Image

Of Our Dog

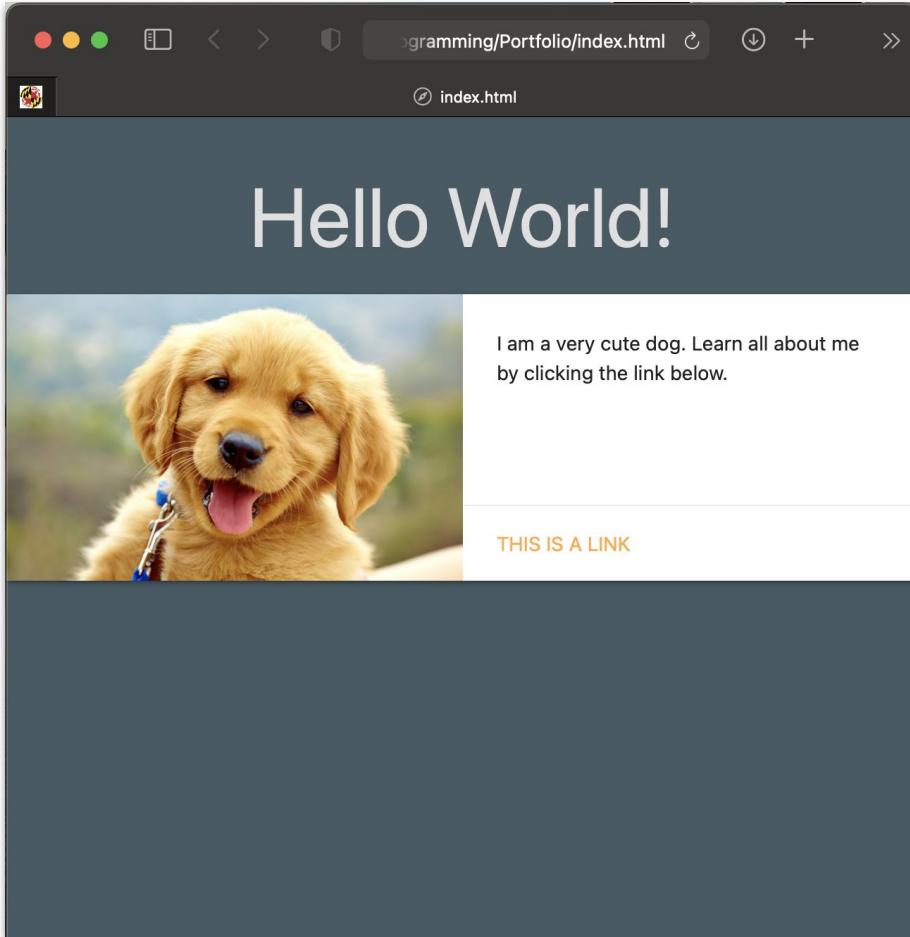
Add A Stacked Card

With a paragraph about the dog

Add An Action Card

With an Empty Link

```
8   <body class="blue-grey darken-2">
9     <h1 class="center-align grey-text text-lighten-2">
10    Hello World!</h1>
11   <div class="card horizontal">
12     <div class="card-image">
13       
14     </div>
15     <div class="card-stacked">
16       <div class="card-content">
17         <p>I am a very cute dog. Learn all about
18           me by clicking the link below.</p>
19       </div>
20       <div class="card-action">
21         <a href="#">This is a link</a>
22       </div>
23     </div>
24   </div>
25
26
27   <!-- Compiled and minified JavaScript -->
28   <script src="https://cdnjs.cloudflare.com/ajax/
29     libs/materialize/1.0.0/js/materialize.min.js"></
30     script>
31   </body>
```



Great, we have an image, some text, and a link aesthetically laid out in a card! But, the link doesn't point anywhere and the title doesn't make much sense.

Now, **we want to**

- Link our sample pdf
- Change our title

Link Resume and Add Name

Add Name as Header

Link Our Resume

```
8   <body class="blue-grey darken-2">
9     <h1 class="center-align grey-text text-lighten-2">
10    Dog McDoggerson</h1>
11
12    <div class="card horizontal">
13      <div class="card-image">
14        
15      </div>
16      <div class="card-stacked">
17        <div class="card-content">
18          <p>I am a very cute dog. Learn all about me
19            by clicking the link below.</p>
20        </div>
21        <div class="card-action">
22          <a href="resume.pdf">My Resume</a>
23        </div>
24
25        <!-- Compiled and minified JavaScript -->
26        <script src="https://cdnjs.cloudflare.com/ajax/libs/
27          /materialize/1.0.0/js/materialize.min.js"></script>

```

The screenshot shows a PDF document titled "resume.pdf" open in a dark-themed browser window. The document features a large, fluffy golden retriever puppy photo on the left. To its right is a vertical red line, followed by the text "HELLO" in large black capital letters and "I'm Dog!" in red. Below this, the dog's details are listed: "McDoggerson", "1 years", "Male", and "15 pounds".

Dog is...

- Fluffy
- Soft
- Playful
- Vaccinated
- House Broken
- Insured

About my pet

Dog McDoggerson is an amazing dog. I adopted him from an animal shelter when he was just a few months old. He's been absolutely delightful for the entire family and loves meeting new people. His favorite pass time is to play hide and seek with the kids. He also loves munching on his favorite doggie snacks and his eyes light up when we bring out the whipped cream.

We've successfully linked our resume to our website and changed the title to be more relevant! Let's add just a few more flourishing touches.

Now, **we want to**

- Use flow text
- Add shadow

Add Responsive Text and Shadow

<https://materializecss.com/typography.html>

<https://materializecss.com/shadow.html>

Add Shadow

Add Flow Text

```
8   <body class="blue-grey darken-2">
9     <h1 class="center-align grey-text text-lighten-2">
10    Dog McDoggerson</h1>
11
12    <div class="card horizontal z-depth-5">
13      <div class="card-image">
14        
15      </div>
16      <div class="card-stacked">
17        <div class="card-content">
18          <p class="flow-text">I am a very cute dog.
19            Learn all about me by clicking the link
20            below.</p>
21        </div>
22        <div class="card-action">
23          <a href="resume.pdf" class="flow-text">My
24            Resume</a>
25        </div>
26      </div>
27    </body>
```

A screenshot of a web browser window displaying a portfolio page. The title bar shows the URL as "Programming/Portfolio/index.html". The main content area has a dark blue header with the text "Dog McDoggerson" in white. Below the header is a large image of a golden retriever puppy. To the right of the image is a text block: "I am a very cute dog. Learn all about me by clicking the link below." Below this text is a yellow button labeled "MY RESUME". The rest of the page has a dark blue background.

Dog McDoggerson



I am a very cute dog. Learn all about me by clicking the link below.

[MY RESUME](#)

Amazing.



03

Deployment

Deploying your local website to
GitHub

Push Changes To GitHub

Pull Remote Changes

Check Status

Add All Files

Create a Commit

Push Your Changes

```
Portfolio $ git pull
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
From https://github.com/sagardsaxena/Portfolio
  47a9b32..e4a4bf5  main      -> origin/main
Updating 47a9b32..e4a4bf5
Fast-forward
  README.md | 4 +---+
  1 file changed, 3 insertions(+), 1 deletion(-)
Portfolio $ git status
On branch main
Your branch is up to date with 'origin/main'.

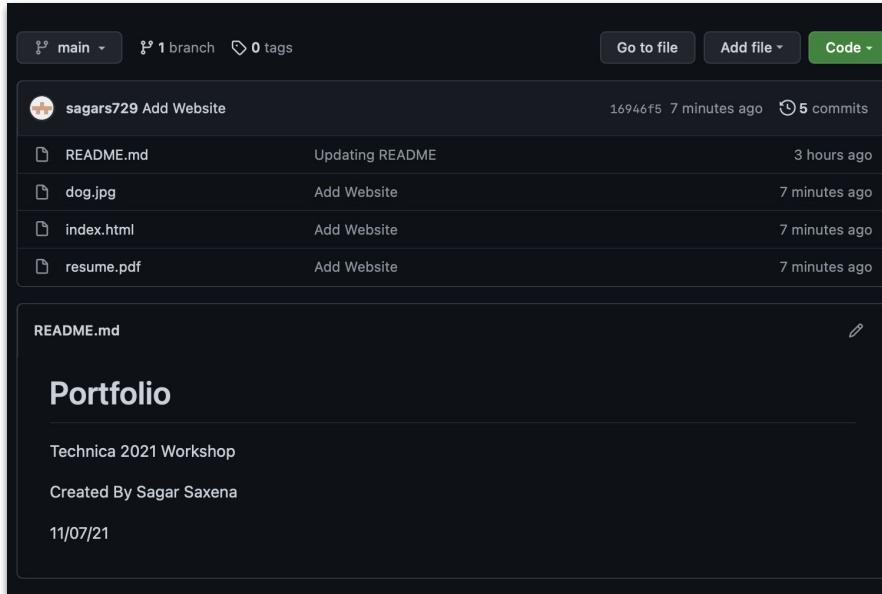
Untracked files:
  (use "git add <file>..." to include in what will be committed)

    dog.jpg
    index.html
    resume.pdf

nothing added to commit but untracked files present (use "git add" to track)
Portfolio $ git add .

Portfolio $ git commit -m "Add Website"
[main 16946f5] Add Website
  3 files changed, 28 insertions(+)
  create mode 100644 dog.jpg
  create mode 100644 index.html
  create mode 100644 resume.pdf
Portfolio $ git push
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 1.32 MiB | 4.51 MiB/s, done.
Total 5 (delta 0), reused 0 (delta 0)
To https://github.com/sagardsaxena/Portfolio.git
  e4a4bf5..16946f5  main -> main
Portfolio $ 
```

Our Website Files Are on GitHub!



Deploy Your Website

Go to the Repository Settings

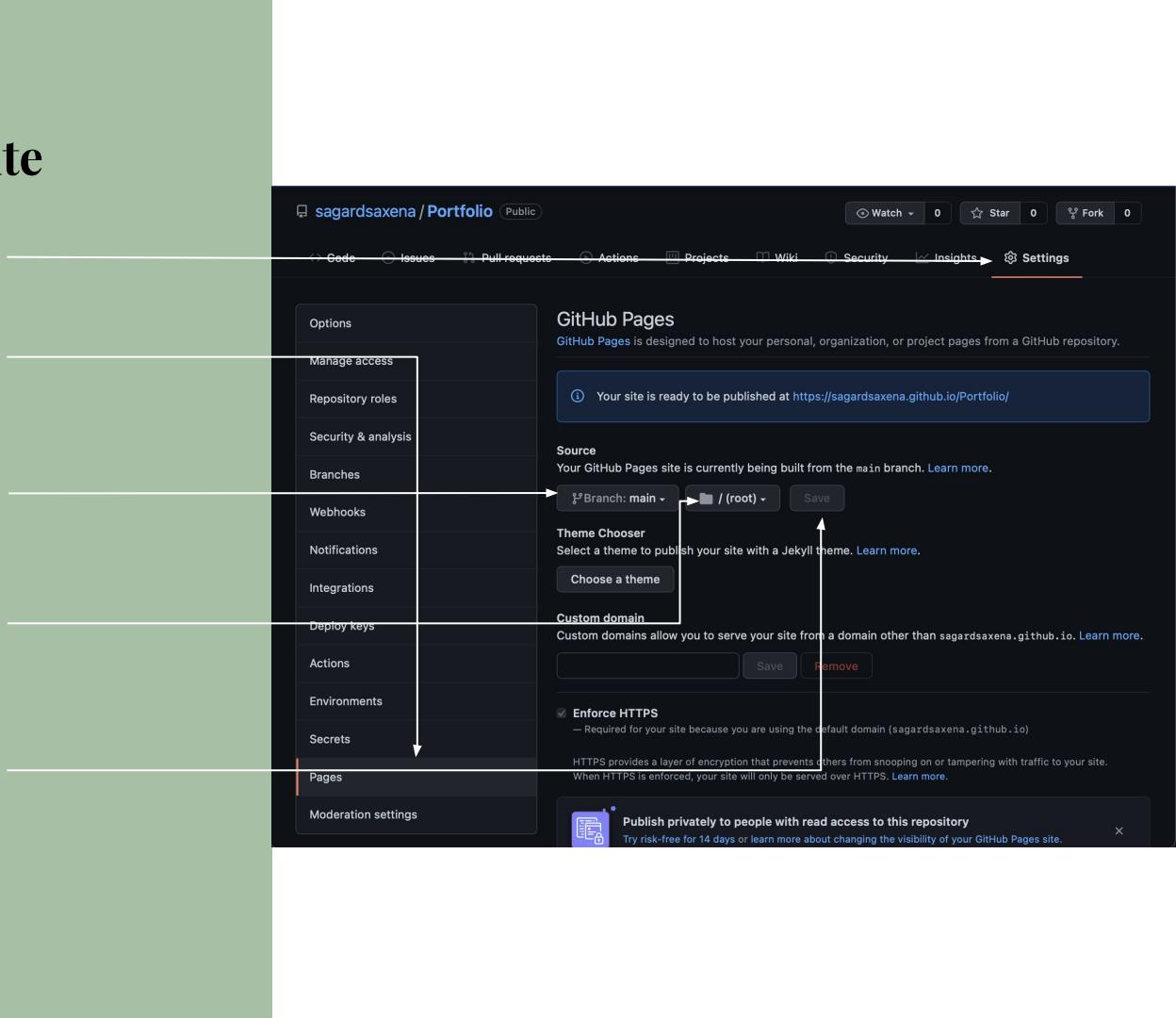
Go to the Pages Tab

Select The Main Branch

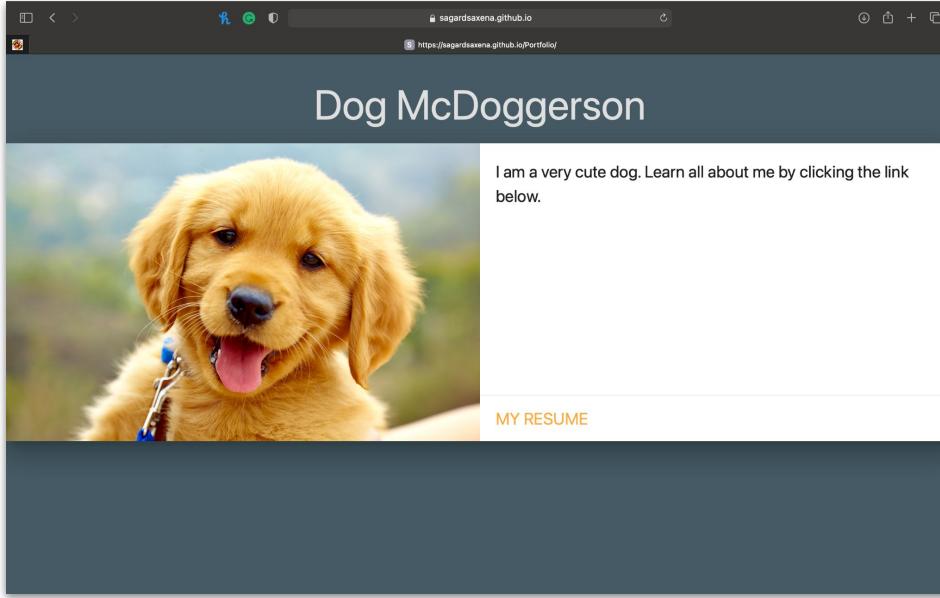
Select Root Directory

Hit Save

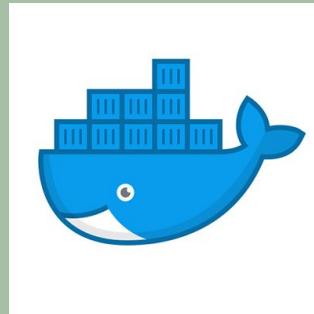
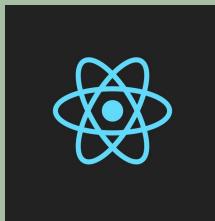
Wait A Few Minutes



Our Website Is Now Publicly Accessible!



There's Much More To Learn!



Thanks!

Do you have any questions?

Reach out to me on Slack during the
Hackathon!

Email: sagardsaxena@gmail.com

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