FUNDAMENTALS WDD 130

W02: GitHub Pages Hosting Setup

Overview

- Task: Set up hosting for your webpages.
- Purpose: Prepare a place to store your website to be seen live on the Internet.

Background

We will continue setting up a way to get our web pages live on the web. Last week we learned how to create pages using the Microsoft Visual Studio Code editor. Now we will continue by learning how to upload our files to GitHub. Then from there they can be seen on GitHub Pages. We can then share the website with an instructor or fellow students for collaboration.

Again, like last week, there are a number steps we will need to go through to get everything set up. You will be installing and setting up Git, GitHub, and GitHub Pages.

If you aren't familiar with Git, there is a 'What is Git?' video you can watch, but basically Git keeps track of your project folder as you make changes to any of the files. You can commit to these changes, or decide you want to keep them, and then transfer or push our files to our project that is stored on GitHub servers. We will refer to the folder with all our project files as a repository or repo. That is a huge simplification of Git and Repositories, but we really aren't going to go super in depth with versioning control in this beginning level course. We are mainly using GitHub Pages because it's a nice, free way to publish our website so it can be live on the Internet without having to pay for hosting or a domain.

Instructions

Each list of steps is followed by a video demonstrating the same steps. **Carefully** follow each step in the order they are presented here.

O1 Sign up for a GitHub Account

- 1. Visit the <u>Github.com</u> website.
- 2. Select the Sign Up button.
- 3. You'll enter an email. Then select Continue.
- **4.** Create a password that has to be at least 15 characters or 8 characters with a number and lowercase letter. Then select **Continue**.
- **5.** Enter a username all in lowercase. *Use a professional name since this username will show up in the domain of your web projects.* You might show these links to future prospective employers. If you get a red 'X' to the left of your username, then someone else has already used that username and you need to choose a different one. *Don't forget the email, password, and username you used for this new GitHub account.* We will need them later.
- 6. Enter 'n' for the next step unless you want email from them.
- **7.** At this point it wants to make sure you are human, so it has you solve a few simple puzzles. Select **Start puzzle** and follow the directions. Select **Create account**.
- **8.** It will send a launch code to the email you listed. Use that launch code and enter it.
- **9.** You can skip any personalization questions by selecting the **Skip Personalization** link near the bottom.

The following video demonstrates the steps above. The last bit of the video should just show the launch code getting entered. You can just keep the account open on your browser while you go on to the next steps in the setup process.



12 Install Git on your computer

Select and follow only the Windows, Mac, or Linux Instructions.

For Windows Users

For Mac Users

For Linux Users

Set up Visual Studio Code with Git and GitHub

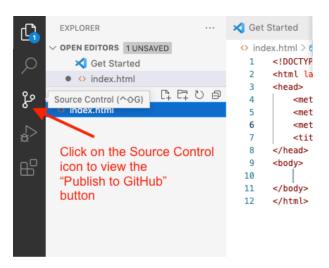
Our wdd130 folder will hold all our files and resources for all our projects and keep track of any changes we make. When we are ready, we want to then transfer the local files to our remote GitHub account.

Before you start, make sure you have the previous step completed with Git installed and your Git config username and email settings done.

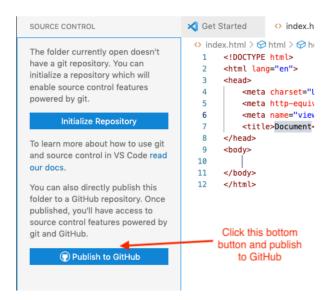
Let's use the folder we set up last week called 'wdd130' to become a repository in GitHub so we can eventually see our website online.

Remember we already had the 'aboutme' folder within wdd130 that contained our aboutme project. We had an index.html file and folder(s). The images folder had an image file in it.

- 1. Make sure the wdd130 folder is open in VSCode if it's not already open. If you have other folders open in VSCode that use Git make sure you close them. You only want the one wdd130 folder open, otherwise you won't see the button you need to see in the next few steps. (It may ask if you trust the file source. It's your folder and files so you can trust it.)
- **2.** Select the **Source Control** icon in VSCode. (It's the 3rd one from the top on the left.)



3. Select the blue button that says **Publish to GitHub**. If you don't see this button, make sure you have all other Git repo folders closed.



4. Select **Allow** if you get a message saying 'The extension 'GitHub' wants to sign in using GitHub.'

- **5.** If you are prompted for an authorization for Visual Studio Code to Access GitHub, select **Continue**.
- **6.** If you are asked to allow the page to open 'Visual Studio Code', select **Allow**.
- 7. You may also be asked to allow an extension to open this URI, select Open.
- **8.** VSCode will choose the folder you have open, the wdd130 folder as the the repository and give you the option to 'Publish to GitHub public repository'. **Choose the one that says 'public', not 'private'.** This will make a new public repository in our GitHub account.

```
Get Started
                Test3
index.html > 6
               Publish to Citi lub private reposit
      <!DOCTYF Publish to GitHub public repository sisDaley/Test3
      <html lang- en >
                                                               Be sure to choose "Public" from the
 3
      <head>
                                                               dropdown menu
 4
          <meta charset="UTF-8">
          <meta http-equiv="X-UA-Compatible" content="IE=edge">
  5
          <meta name="viewport" content="width=device-width, initial-scale=1.0">
  6
          <title>Document</title>
  7
 8
     </head>
 9
     <body>
10
11
      </body>
      </html>
```

- **9.** It will show a list of all the files in the wdd130 folder. They will all be selected by default so just click 'OK' to include all files in the new respository.
- **10.** You may get a prompt to 'Authorize Git Credential Manager' here. Select **Authorize**.
- **11.** If you get a message asking if you'd like to periodically run fetch you can say 'Yes', but it's not necessary.
- **12.** You can see in your GitHub account (at Github.com) the new repository there and the files there that now mirror the files in the wdd130 folder you have on your computer

13. Now we will only have to 'push' any changes or additions to GitHub.

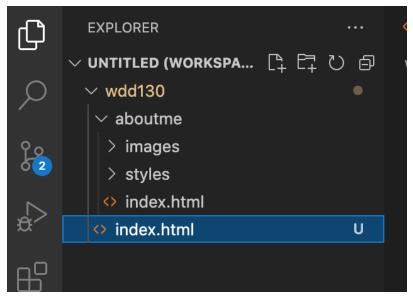
The following video demonstrates the steps above. I used a Mac computer with this video. Windows computers won't have the .DS_Store file.



Q4 Starting our Home Page

Let's start a new index.html page (Home Page) inside our repository. Remember to use all lowercase letters and no spaces in file names.

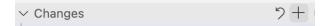
1. In VSCode, open the Explorer panel and add a file to the wdd130 folder called index.html. This index.html is different from the index.html inside of aboutme. It will be the home page of our entire repository (wdd130) folder.



- **2.** Open the file and start a new HTML document with an exclamation mark '!' and select **Enter**. This will start a new file for you.
- 3. Change the default title text of 'Document' to 'WDD130 Home Page'
- 4. Add the following code inside the body:

- **5.** As you save this file, you will notice another blue circle number show up on our Source Control icon. Our local Git noticed a new file in our repository.
- 6. Select the Source Control Icon.

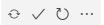
7. Select the + sign next to Changes.



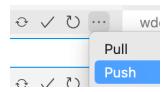
8. Now commit the change to our local repository by adding a message to the 'Message' input box that describes what changes we've made. Something like 'Added the home page for wdd130'.



9. Select the check mark to the right of your repository name.



10. Now send those changes to the remote repository by selecting the 'More actions' ... (3 dots) and choose **Push** from the pop up menu. This will send the index.html to GitHub.



11. When you go to your GitHub account, you should now see the index.html file in the repository there.

05 Setting up GitHub Pages

Let's set it up so we can see our GitHub files as live web pages on the Internet. We're almost there. Hang in there.

- 1. Let's see this page live on the Internet by setting up GitHub pages. Go back to the GitHub.com account. Click on your repository name and then click 'Settings' with the gear icon. In the submenu that appears to the left choose 'Pages'
- 2. In the **Source** section, select the button that says **None** and change it to the 'main' branch, leave the next one at 'root' and select **Save**. Your branch

could be named 'master' instead of 'main' and that's fine. You will only have one branch to choose from there.

- **3.** Above that section, you will get a colored area that says 'Your site is ready to be published at ...' with the name of your URL that can be used by anyone to see your website. Woo Hoo! We did it!
- **4.** Give it a few minutes for your home page to show up. You might need to refresh the page after a few minutes.

The following video demonstrates the steps of GitHub Pages:



You might want to bookmark that new github.io website address so you can easily see your home page each week.



Practice with Pushing all our additions and edits for our project to GitHub

Let's add another HTML element to our page to see how we will push our edits and additions of our project to GitHub

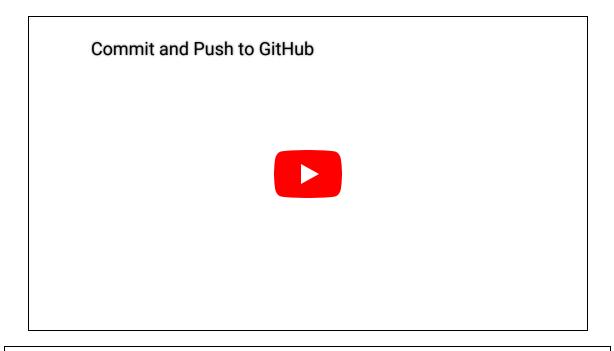
This step is all you will need to do from this point on as you edit and make additions to your projects. All previous steps were just setup.

1. In VSCode, open the Explorer panel and add a paragraph to the index.html. You can add it below the navigation.

- **2.** As you save this file, you will notice another blue circle number show up on our Source Control icon. Our local Git noticed the change in our file in our repository.
- 3. Select the + sign next to the index.html file.
- **4.** Now commit the change to our local repository by adding a message to the 'Message' input box that describes what changes we've made. Something like 'Added a paragraph to the home page'.
- **5.** Select the check mark to the right of your repository name.
- **6.** Now send those changes to the remote repository by selecting the **More actions** ... (3 dots) and choose **Push** from the pop up menu. This will send the index.html to GitHub.

7. Give it a few minutes to update on GitHub, but when you go to your GitHub Pages URL (web address) you should see the changes to the index.html.

The following video demonstrates pushing to our GitHub repository from Visual Studio Code:





When editing or adding to your files:

Do not make edits or addition to your repository files inside of the GitHub online editor. Always just edit your local files on your computer through the Visual Studio Editor and then 'push' the changes to the online repository.

See your instructor if you have any trouble.

We did it! That was a lot of set up but worth it to have free hosting. And from here on out, you just have to commit and push any changes you make in your wdd130 repo from VSCode.