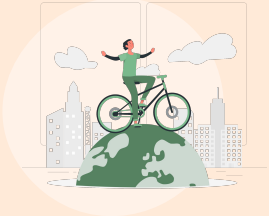
INFO 101 Class Two

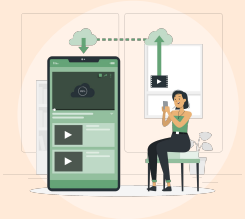
Thurs. March 31, 2022
Topics: Builders tab, HTML

Today's Plan: Complete a Builder

Create a Github Account and Repository



"Hello World" Activity



Upload Files

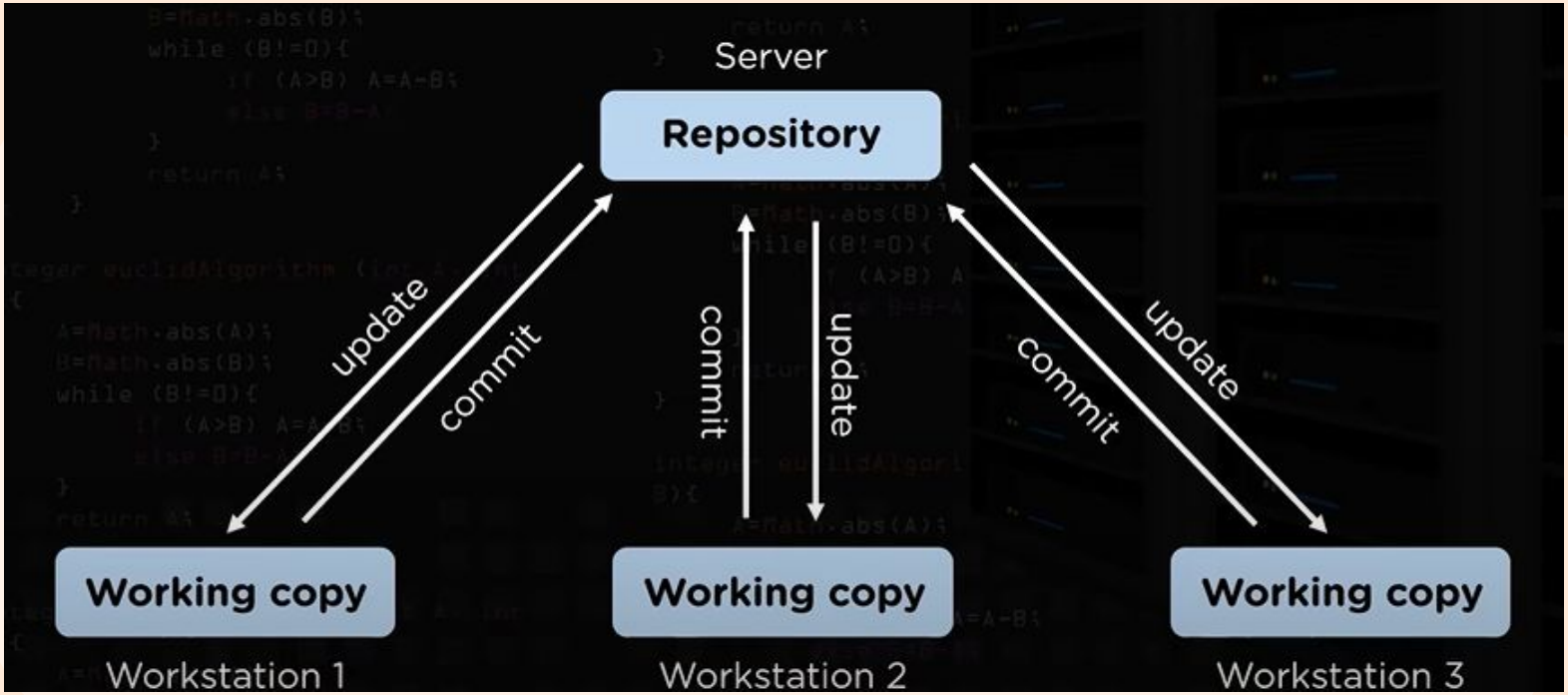
Workshop

01.

Create a Github Account and Repository

What is Github?

- **Git** is the most popular **version control system**
  - A version control system is a system that records changes to a file so a specific version of a file can be restored later if needed
- It is used for coordinating work among groups of people and tracking progress
- **Github** is a **Git repository hosting service**, so it allows people to do collaborative work through a web-based graphical interface


Server
Repository
update
commit
commit
update
commit
update
Working copy
Working copy
Working copy
Workstation 1
Workstation 2
Workstation 3

Establishing a Website: Account

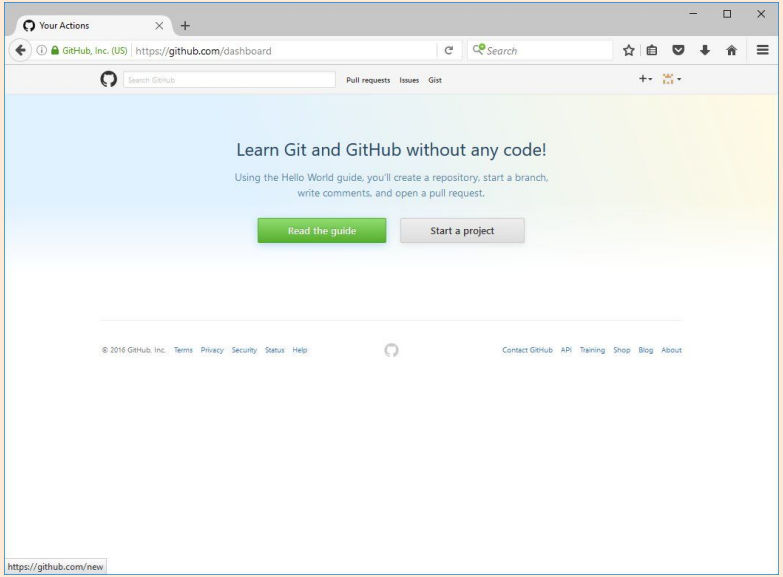
1. Go to the Builder Tab on gClass
2. Create a Github account: https://github.com/join?source=header-home
    a. Please make your username your UW netId - your student number. We need you to make a new account with this specific name so we can find you.
        i. Ex: coreya04-12345678
    b. Use a valid email account because Github will use it to verify your account

Establishing a Website: Confirm

After you've created your account you'll need to confirm your email:

1. Click "Start a Project"
2. Wait for the email to arrive and then click the link it sends you.

3. Github should take you back to the Start A Project Page.

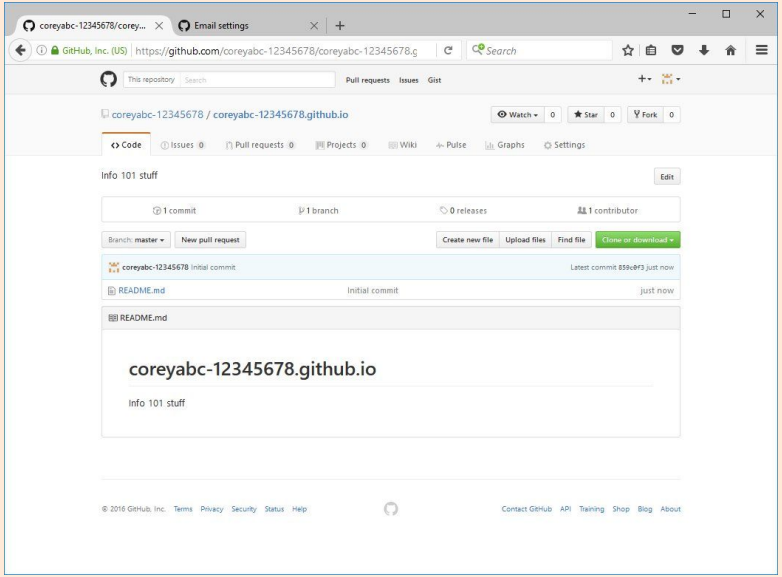


Establishing a Website: Repository

After you've confirmed your email:

1. Click on "Start a Project" or find your way to the Repositories Page
2. Click "Create one" (but don't fill in the info yet)

3. After pressing Create Repository you should land at a page that looks like this:



Establishing a Website: VSCode

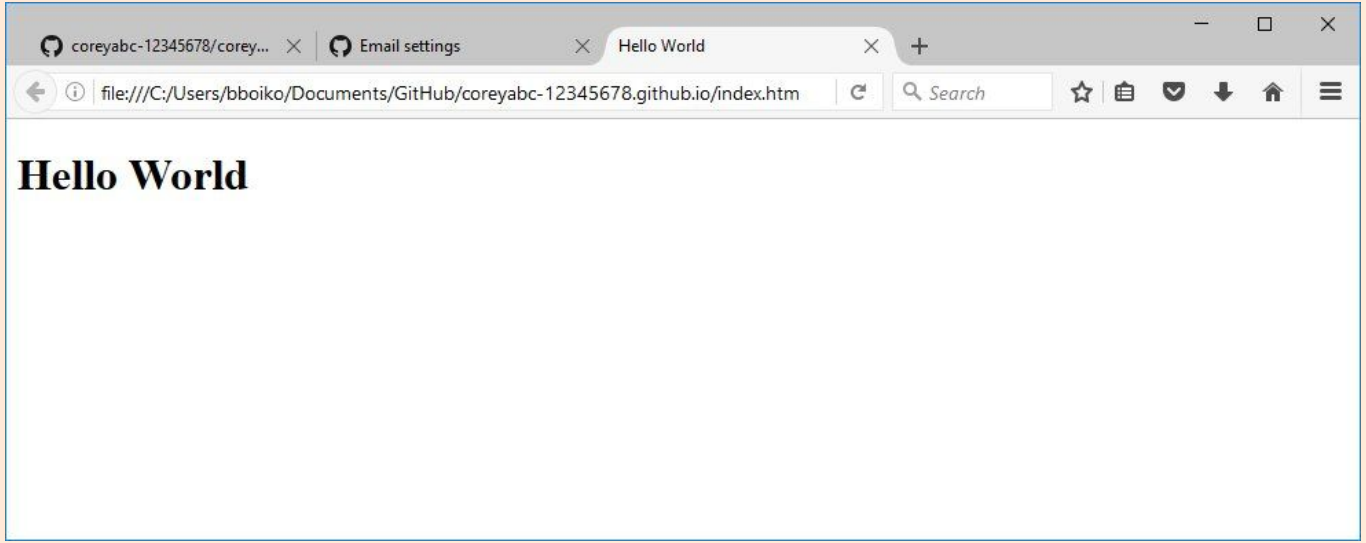
After creating a repository:

1. Download Visual Studio Code, Notepad++ or TextWrangler (OSX)
2. Create a new file in your application and name it index.html
3. Write this code

```
<!DOCTYPE html>
<html>
    <head>
        <title>Hello World</title>
    </head>
    <body>
        <h1>Hello World</h1>
    </body>
</html>
```

Establishing a Website

Open the file and make sure it looks like this in your browser:



Establishing a Website: Upload

Now you have a Web page and you have Github set up to put this and any other pages on the web for you.

1. Go to https://github.com and navigate to the repository you created
2. Press the “Upload Files” button
3. Upload your index.html file

Your first page should now be on the Web at

https://[netId][student number].github.io/

02.

Workshop!

I will show you how to embed...

01.
Images and videos from your computer's files

02.
Youtube Videos

03.
Google Maps

04.
Soundcloud Songs

Embedding Pictures and Videos

Some embeds are simply HTML tags that tell the browser to put something on the page

- <img> tag is one of the basic media tags
- In HTML 5 there is an <audio> tag that lets you embed a little audio player in your page.
- Similarly there is a <video> tag that lets you embed a video on your page.

Embedding Web Media using iFrame

- <iFrame> is a way to insert someone else's web page inside yours.
- The <iframe> tag is an easy way to embed media from other websites.
- For Youtube videos, you just have to copy and paste the iFrame code from the "share" button of a video and click "Embed" to get the HTML code.

03.

Original Work

Embed Files in your HTML Document

When you are satisfied with the files you have submitted, click the button below to certify that your files are uploaded.

Click to certify that all the above links Work

Here is what to create for the different original work levels:

- **Level 1: Newbie**. Show us a page that has:
  1. A Youtube video
  2. A google map
  3. One more thing that we did not demo in the workshop
- **Level 2: Apprentice**. Show us a page that has:
  1. A Youtube video that plays starting at minute 3
  2. A video that plays using the HTML5 video tag
  3. Something using the object tag
- **Level 3: Master**. Show us a page that has:
  1. A Youtube video that plays starting at minute 3 and another feature that you can't get from the basic embed code you paste from Youtube
  2. A video and audio file that plays using the HTML5 video and audio tags
  3. Something using the object tag that is not flash
  4. An RSS feed displayed

Toggle this on to let me know you are ready to be graded!

You can also toggle it off if you don't want me to grade.