Philly Tech Sistas Intro to Github Class 6

Integrated Development Environment

Let's get out of App.BSD!

In this section we'll cover:

- 1. What is an IDE?
- 2. Work off a Template
- 3. Lab: Download Sublime & Create Portfolio

What is an IDE

Integrated Development Enviroment

- Software that assists in development
- Can autocomplete code
- Highlights errors
- Helps developers more than plain text

Sample IDEs:

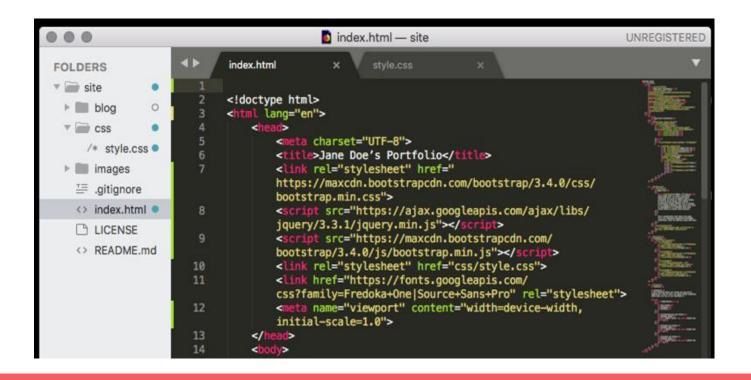
Online.

- JSFiddle.Net online 'Fiddles' help you to 'fiddle' with code
- CodePen.io a code 'playpen' or 'sandbox' to play with code Offline
- Visual Studio Code (Front End like JS)
- Visual Studio (Back End like C#)
- Atom
- Sublime
- Notepad++ (an enhanced plain text editor)



Today's IDE: Sublime

- Download the installer for your laptop https://www.sublimetext.com/
- You will finish the installation in the lab



Editing a Template: Your Portfolio

- Click download on https://www.free-css.com/free-css-templates/page263/new-spot
- You will finish extracting the zip in your lab

Lab: Editing a Template (30 min)

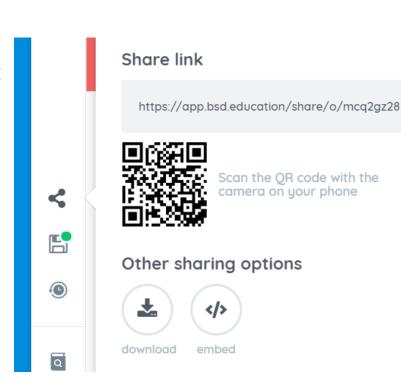
- Run the Sublime Intaller
- Extract the downloaded template zip to your desktop
- Open Index.html (the default landing page of most sites) in your IDE
- Edit the Index.html
 - o Edit the <title> tag to <title> Portfolio </title>
 - Section 1:
 - Edit the <h1> tag to <h1 class="tm-site-title">YOUR FIRST NAME
 - Edit the My Portfolio
 - Edit the next to include your bio
 - Section 2:
 - Update <h2>Lorem ipsum dolor to <h2>My Skills</h2>
 - Update the subsequent tags to your skills
 - Section 3:
 - Update the <h2>Duis vel vaius eros to <h2>My Goald</h2>
 - Update the subsequent and tags to your skills
- What you don't finish you'll do as homework!

Take A Break!

10 Min!

Bonus: Go to app.bsd.education

- Click on a sandbox you enjoyed building
- Click on the 'share', social media link in the left
- Click download
- Your code will be downloaded!





GitHub Pages

Let's get your site on the web!

In this section we'll cover:

- 1. What is Git?
- 2. What is GitHub?
- 3. How to use GitHub Pages to host your site

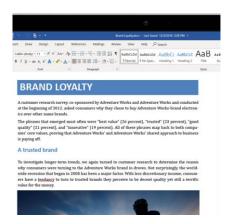
What is Git?

Git is Google Docs for developers

- handles version control
- tracks changes made by individual developers



Doc V1 - Jason



Doc V2- Miriam





Final Version - Everyone

How Does Git Track Changes?

- Git uses a database (repo) to track changes.
 - The main repo tracking your changes and everyone else's is in the cloud
 - A local repo is installed on your hard drive
 - Everytime you make a change, the local repo tracks it
 - You can then share your changes with other by 'checking in' files

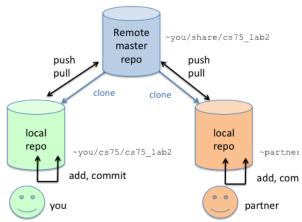


Figure from https://www.cs.swarthmore.edu/~newhall/unixhelp/git_create.php

Standard Git Vocabulary

Hosting: A 'cloud' service provider that hosts websites, hosts repos or provides storage space

Repository: A folder that contains the files, folders, images, etc., that you want Git to track.

Commit: Explicitly storing your change to your repo

Branch: Create a specific version dedicated to a specific change you want to make i.e. you want to change a button, create a branch dedicated to that version

Push: To 'share' your changes on your local you **push** them out to the cloud / main repo

Master / origin: Typically what people call the main repo hosted in the cloud

Pull: To see everyone else's changes stored in the master repo, you 'pull' them down

Merge: Combine your changes with others

History: See the changes you and other people made

Git platforms - Hosts

GitHub



Microsoft



BitBucket



GitLab



Multiple Ways to Upload Files

- Upload through the site
 - Log into github
 - Click into your folder on the site
 - Drag n drop to upload files
- Use a third party software program like GitHub Desktop, Git Sourcetree or an IDE



'Push' through the command line (Try @ Home!)

- Install the Git Software on your desktop: https://git-scm.com/downloads
- Create a folder or 'repo' on github (without spaces or special characters in the name)
- · Create a folder with the same name on your local
- · Go to Command line
- · On Windows: Open windows command prompt
- · On Mac: Applications->Utilities->Terminal
- · Navigate to that directory on the command line
- Inside that folder on the command line, do the following:
- To create a local git repo, type: git init
- To add files in your folder to the repo, type: git add filename
- To save the files permanently to the repo, type: git commit -m "first commit"
- To save this as a version, type: git branch -M main
- To connect your local repo, to the cloud repo, type: git remote add origin https://github.com/yourusername/yourrepo.git
- To save your local files to your cloud drive, type: git push -u origin main

Let's get your site on the web!

GitHub is a coder's portfolio! Often job applications will ask you to share a link to your GitHub account.

Now that you have an account, you'll be part of the GitHub social network.

- You'll have a place to showcase your projects
- You can provide portfolio links to employers
- You can contribute to other projects
- You can gain access to code requiring a github account



Code Along: Get your site on the web

We'll use GitHub's free web hosting through GitHub Pages. Here's an overview of the next steps:

- Make GitHub account
- Make a GitHub repository
- Add and Commit our HTML and CSS code into this repository
- Update repository settings to enable GitHub Pages



Code Along: Get your site on the web

Step 1: <u>Create a GitHub account</u>. Your username will end up being part of your site's url, so choose wisely!

Step 2: Verify your account through email.



Verify email address

Please verify your email address

Before you can contribute on GitHub, we need you to verify your email address.

An email containing verification instructions was sent to 1kigegssbmlrvo0@gmail.com.

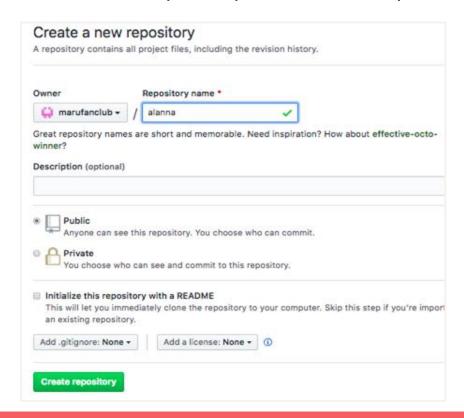
Didn't get the email? Resend verification email or change your email settings.



Code Along: Get your code on the web

Step 3: Login. Click New Repo Button. Create a repository called CodeSample

Repositories	☐ ☐ New
Find a repository	
philly-tech-sistas/20)20-seminar

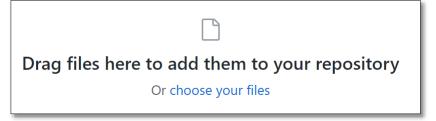




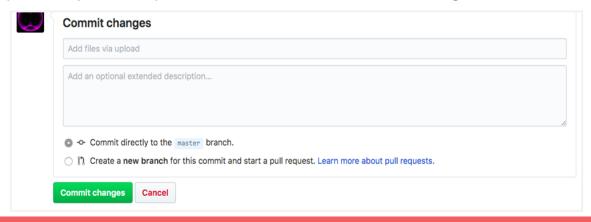
Code Along: Get your code on the web!

Step 4: Click the upload link under 'Quick Setup' or go to github.com/USERNAME/REPONAME/upload

Get started by creating a new file or uploading an existing file.



Step 5: Add an interview-worthy description of your file and click "Commit changes"





Code Along: Get your site on the web!

Step 6: Now let's put your portfolio on the web as a website hosted by github.

- Go back to github.com
- Create a new repo called USERNAME.GITHUB.IO (If your username is PTS, use PTS.GITHUB.IO)
- Click upload files under 'Quick Setup'
- Drag and drop files from inside 2017_new_spot up to USERNAME.GITHUB.IO

CSS	4/9/2021 12:00 AM
img	4/9/2021 12:00 AM
] js	4/9/2021 12:00 AM
ABOUT THIS TEMPLATE.txt	4/9/2021 12:00 AM
o index.html	4/9/2021 12:00 AM



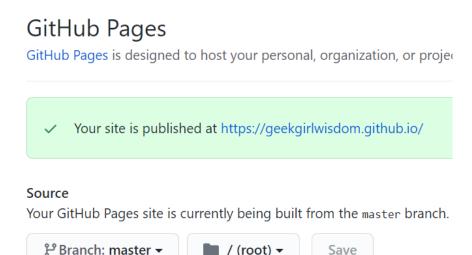
Code Along: Get your site on the web

Step 7:

- Make certain you are still on the github.com/USERNAME/USERNAME.io folder
- Source
 GitHub Pages is currently disabled. Select a source below to enable GitHub Pages

 None
 Save

 To enable GitHub Pages select master or main as your Source.





Code Along: Get your site on the web

Step 8: Tada! Now you should see your site when you visit...

https://username.github.io/



Bonus: How to update your site?

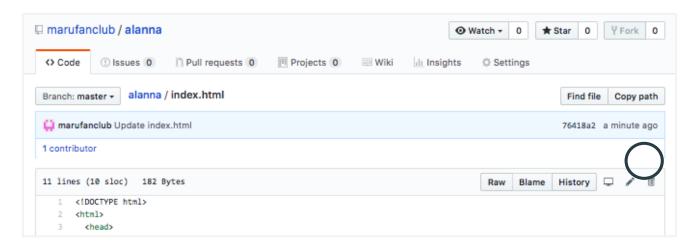
Update Method 1: Make the changes locally, then upload the files over the originals.

- 1. Drag and drop your updated files or folders
- 2. Add a description of your change and then commit the change by clicking the "Commit changes" button.
- 3. GitHub will automatically track the new changes



Bonus: Updating text files on github!

Update Method 2: Update a text file by clicking the edit icon button. Make a change to the file on github directly. Then click commit.





Bonus: How to download a repo & collab!

Via the Website:

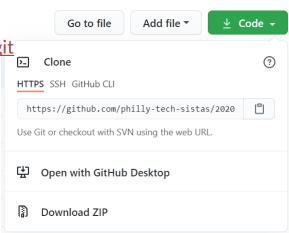
- o Go to the Git URL i.e. https://github.com/MunGell/awesome-for-beginners
- Click the Code button, Choose Download Zip

• Through the command line:

- o Go to the Git URL i.e. https://github.com/philly-tech-sistas/2020-seminar
- Click the code button, Choose Clone, copy the URL
- Open Windows Command or Macintosh Terminal
- Navigate to the folder you want to pull the code to
- Type: Git Clone https://github.com/philly-tech-sistas/2020-seminar.git

Via Third Party Software:

- Install Git and GitHub Desktop on your laptop
- Click the code button, Choose Clone, Open in Github Desktop
- Github Desktop will download the files to a folder you choose



Learn More

Getting started with Git: https://www.atlassian.com/git/tutorials/setting-up-a-repository

- Provides step-by-step guides to version using the version control tool
- Requires using your computer's command line

GitHub Guides - Hello World: https://guides.github.com/activities/hello-world/

- Walks readers through the process of creating repos, branches and pull requests
- Requires no knowledge of code or Git

GitHub Desktop: https://guides.github.com/activities/hello-world/

An easy to use desktop application for managing your GitHub repos

Real Tech Talk

Where to Go Next? The Job Market

- Prepare for the Tech Interview!
 - Do coding exercises, walk through basic web knowledge
 - CSS Diner https://flukeout.github.io/
 - https://www.codewars.com/
 - https://www.freecodecamp.org/
 - Check Lynda.com's tech interview videos
- Know Your Worth!
- Jobs with Just Basic CSS-JS-HTML Skills
 - Business Analyst
 - Project Manager / Scrum Master (look at agile methodology or ScrumAlliance.org)
 - QA Tester
 - HelpDesk or IT Specialist
 - Content Manager (WordPress/Drupal)
 - Freelance Site Developer
 - Check Out: GlassDoor, Indeed, LinkedIn, Academia (Upenn, Drexel, Temple), Hospitals
- Bro Culture Micro Aggressions Withholding Info No Documentation
 - https://genderbiasbingo.com/wp-content/uploads/2013/12/SenarioCards.pdf
 - https://www.thedoe.com/narratives/uphill-battle-against-gender-inequality-tech-industry
- Build Community & Network
 - Facebook Groups, Women in Tech Summit Groups, LinkedIn, Philly Tech Sistas



Icons made by Pixel Perfect

While Looking for Work: Give Back!

Practice Coding Games

- https://www.codewars.com/
- https://www.freecodecamp.org/

Volunteer as a tutor, mentor or teacher

- Philly Tech Sistas
- TechGirlz
- phillycoderdojo
- Code For Philly
- o Blak Girls Code
- Volunteer tech skills for alumni group/ community group/church/mosque/family

Attend Online Conferences

- https://javascript-conference.com/
- Amazon's AWS Conferences
- Women in Tech Summit
- And the list goes on ...



Furthering Your Knowledge

- On-Line Resources
 - w3schools.com
- Video Training
 - Lynda.com
 - Udemy.com
 - TeamTreeHouse.com



- o MA, MS, MIS or just graduate-undergraduate coding classes
- Philly Boot Camps
 - CodeCademy.com (online, self-directed)
 - Trilogy (UPenn, Rutgers)
 - FlatIronSchool
 - CodingDojo.com
 - PerScholas (coming to Philly Java, C#)
 - New York Code & Design Academy
 - NuCamp
 - Tech Elevator



Career Roundtable: Q & A







Scholarships - Code Resources

- https://technical.ly/philly/2019/07/11/learn-to-code-11-mostly-localphiladelphia-bootcamps-resources-meetups-courses-coding-programmingdev/
- https://skillcrush.com/blog/free-coding-games/
- https://www.practicum.blog/women-who-code-with-practicum?
- https://www.udacity.com/scholarships/blacks-in-technology?
- https://blackwomentech.com/
- https://github.com/MunGell/awesome-for-beginners

More About the Online Code Camps

Codecademy: https://www.codecademy.com/

- Offers a variety of courses for front end, back end, and more
- Has a free version, pro subscription, and paid 8-10 week specialized courses

Freecodecamp: https://www.freecodecamp.org/

- Offers curriculums for a variety of paths with certificates upon completion
- Completely free