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
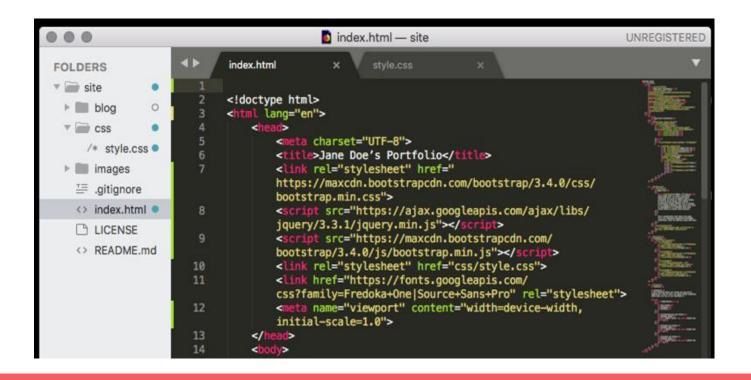- Helps developers more than plain text

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
  - 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 <p subtitle to <p class="tm-site-subtitle">My Portfolio</p>
    - Edit the next <p> to include your bio
  - Section 2:
    - Update <h2>Lorem ipsum dolor to <h2>My Skills</h2>
    - Update the subsequent <p> tags to your skills
  - Section 3:
    - Update the <h2>Duis vel vaius eros to <h2>My Goald</h2>
    - Update the subsequent <p> and <ul> tags to your skills
- What you don't finish you'll do as homework!

Bonus: At Home –Modify the Contact Form!

In the File System:

- Create a file in js folder called script.js

In HTML

- Modify the following tag:

  `<form action="#" class="tm-contact-form" method="POST">`
- Remove the method="Post" and add an id="contact"
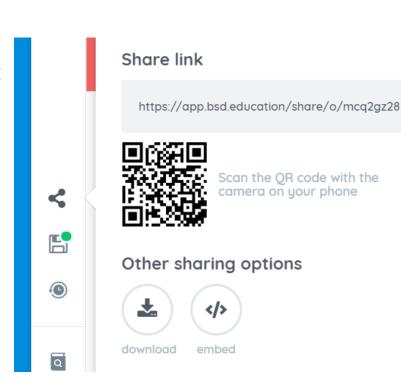- Add script.js to the head tag as `<script src="js/script.js"></script>`

In SCRIPT.JS

- Create a function

  contact.onclick = function() {event.preventDefault(); window.location.href = 'mailto: YOUREMAILADDRESS' }

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!

Share link

https://app.bsd.education/share/o/mcq2gz28

Scan the QR code with the camera on your phone

Other sharing options

download   embed

GitHub Pages

Let's get your site on the web!
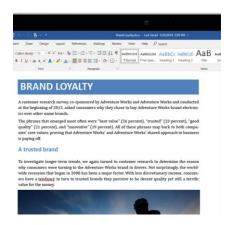
In this section we'll cover:

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
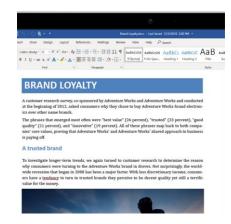- tracks changes made by individual developers

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
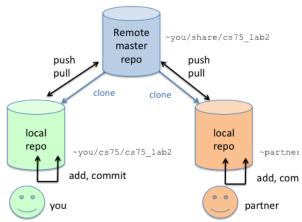 - You can then share your changes with other by 'checking in' files

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

Azure DevOps

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: Create a GitHub account. **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.
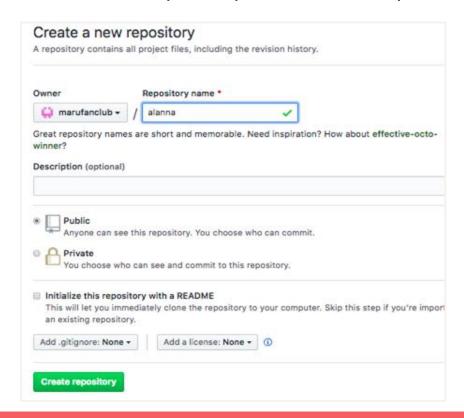An email containing verification instructions was sent to **1kjqegssbmlrvo0@gmail.com**.

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/2020-seminar

Create a new repository

A repository contains all project files, including the revision history.

Owner   Repository name *

marufanclub ▾   /   alanna   ✓

Great repository names are short and memorable. Need inspiration? How about **effective-octo-winner**?

Description (optional)

○ **Public**
   Anyone can see this repository. You choose who can commit.

○ **Private**
   You choose who can see and commit to this repository.

☐ Initialize this repository with a README
   This will let you immediately clone the repository to your computer. Skip this step if you're import an existing repository.

Add .gitignore: None ▾   Add a license: None ▾   ⓘ
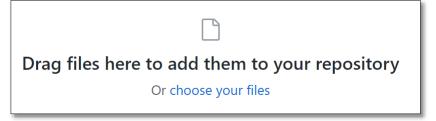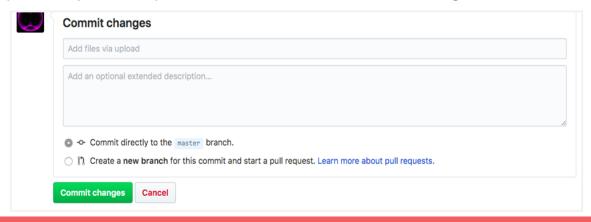
Create repository

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.

Drag files here to add them to your repository

Or choose your files

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

Commit changes

Add files via upload

Add an optional extended description...

⊙ ⊶ Commit directly to the `master` branch.

○ ⁜ Create a **new branch** for this commit and start a pull request. Learn more about pull requests.

Commit changes   Cancel

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**

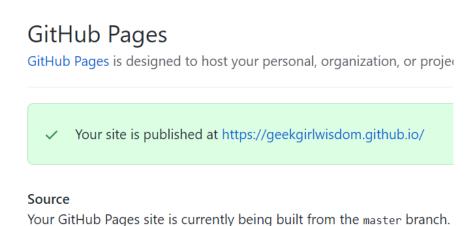|		
📁 css	4/9/2021 12:00 AM	
📁 img	4/9/2021 12:00 AM	
📁 js	4/9/2021 12:00 AM	
📄 ABOUT THIS TEMPLATE.txt	4/9/2021 12:00 AM	
🌐 index.html	4/9/2021 12:00 AM	

Code Along: Get your site on the web

Step 7:

- Make certain you are still on the github.com/USERNAME/USERNAME.io folder
- Click the settings button   ⚙ Settings
- Click the pages tab   Pages

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.

GitHub Pages

GitHub Pages is designed to host your personal, organization, or proje

✓   Your site is published at https://geekgirlwisdom.github.io/

Source
Your GitHub Pages site is currently being built from the master branch.

[⑂ Branch: master ▾]   [📁 / (root) ▾]   [Save]

Code Along: Get your site on the web

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

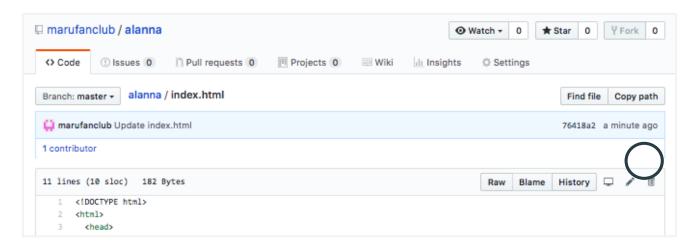https://**username**.github.io/

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.

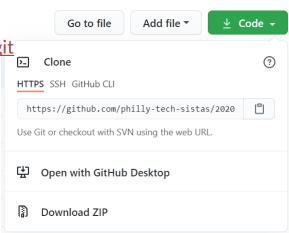# Bonus: How to download a repo & collab!

- **Via the Website:**
  - 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:**
  - 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

Go to file | Add file ▾ | ⬇ Code ▾

⌄_ Clone ⓘ

HTTPS SSH GitHub CLI

https://github.com/philly-tech-sistas/2020

Use Git or checkout with SVN using the web URL.

⊡ Open with GitHub Desktop

🗎 Download ZIP

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 on FlatIcon.com

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
  - 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

- **Actual Computer Science Programs**
  - MA, MS, MIS or just graduate-undergraduate coding classes

- **Philly Boot Camps (& some remote)**
  - 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
  - Thinkful

Career Roundtable: Q & A

Philly Tech Sistas & General Assembly Partnership

- Discounts on <u>digital skills workshops</u> for 100% percent off
- Use unique code: phillytechsistas from 4/01/21 until 06/01/21

Philly Tech Sistas & General Assembly Partnership

Navigate Your Career With Purpose
- **Date:** 4/29
- **Speaker:** Yvonne Dodd
- **Outcomes:** GA career coach on taking the next steps

Reinventing Your Career and Life
- **Date:** 5/4
- **Speakers:** Yvonne Dodd
- **Outcomes:** GA career coach on taking the next steps

How To Leverage The Power of Linkedin
- **Date:** 6/14
- **Speaker:** GA Career Coach
- **Outcomes:** GA career coach on taking the next steps

Scholarships – Code Resources

- https://technical.ly/philly/2019/07/11/learn-to-code-11-mostly-local-philadelphia-bootcamps-resources-meetups-courses-coding-programming-dev/
- 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