

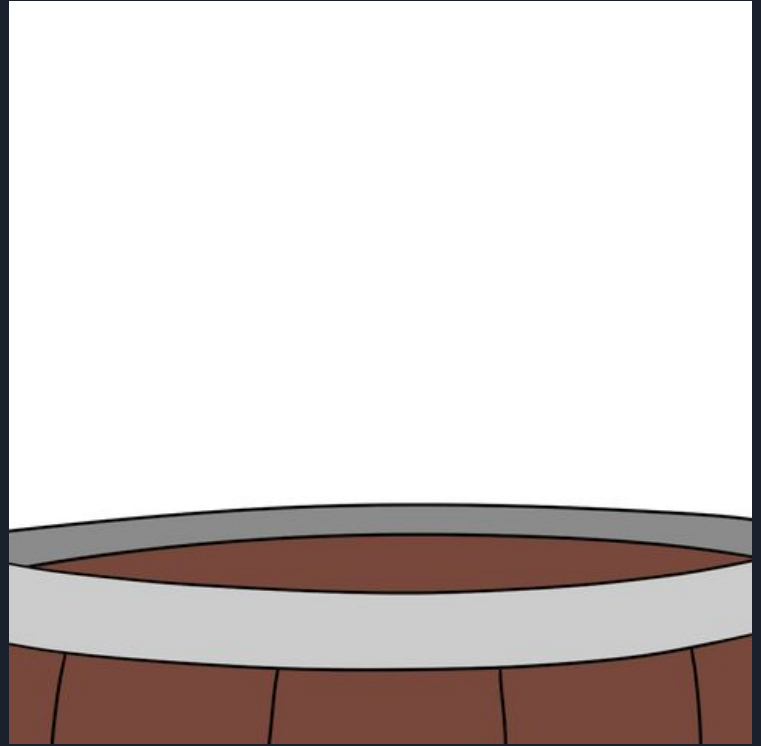
A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front one is blue and the back one is a light green color. They are positioned diagonally, with the blue one in front of the green one.

Git/GitHub and CDNs



Submit Homework

Make sure you submitted your Invision URL
on Canvas





Last Week Review

- Working with Invision
- Advanced CSS
 - Rounded Corners
 - Box Shadows
 - Transitions



This week overview

- CDNS
 - What are they
 - How to use them
- Git and GitHub
 - Create New Final Directory
 - Use GitHub Desktop
 - Start Using GitHub

CDNs





CDN: What & Why

CDN stands for “content delivery network” or “content distribution network”

- A CDN allows for the quick transfer of assets needed for loading Internet content including HTML pages, JavaScript Files, Stylesheets, images, and videos
- “CDN nodes are usually deployed in multiple locations, often over multiple backbones, Benefits include reducing bandwidth costs, improving page load times, or increasing global availability of content”.



CDN: When will we use them?

CDN are vastly important and one way you can implement them is within your own projects.

For example let's take a look at [Twitter Bootstrap](#)

Twitter Bootstrap is/was an extremely popular framework for building Responsive Frontend websites and application.

Let's build a page that brings in Twitter Bootstrap to demonstrate how you might do this without the assistance of a CDN



CDN: Demonstrate Twitter Bootstrap (TWBS)

1. Open class-directory
2. Create bootstrap.html file
3. Download [Twitter Bootstrap](#)
4. Unzip bootstrap-3.3.7-dist
 - a. The reason we aren't using Bootstrap 4 for this is because it doesn't come bundled with fonts by default
5. Place the assets
 - a. bootstrap-3.3.7-dist/css/bootstrap.min.css >>> class-directory/assets/css
 - b. Don't worry about JavaScript files
 - c. bootstrap-3.3.7-dist/fonts/* >>> class-directory/assets/fonts
 - i. The * means all the files
6. On Twitter Bootstrap site visit [Components](#) and paste in some examples



CDN: Manual file placement

With that example we had to manually go out to

1. Go to the website
2. Download the files
3. Unpack the files
4. Place the asset files
5. Code

That isn't a ton of work in this example but what if

- You had to do this for 30 different tools, plugins, etc.?
- You are serving files from your server say in the US. What if your user is in China?





CDN: How do we implement?

1. Staying in class-directory
2. Create a new file bootstrap-cdn.html
3. Navigate to [Twitter Bootstrap "Getting Started"](#)
4. Copy the first CDN link for CSS
5. Paste that link inside your HTML file in the <head>
6. Now in the <body> copy all the elements you had from bootstrap.html

CDN: FTW

As you can see with a single line of html and the power of CDN you

- ~~1. Go to the website~~
- ~~2. Download the files~~
- ~~3. Unpack the files~~
- ~~4. Place the asset files~~
5. Code





CDN: Loading Fonts

Custom fonts are a popular and fun way to make your website unique and give your site a bunch of personality

Many popular sites like

- [DaFont](#)
- [FontSpace](#)

Are great places to download and use custom fonts

For this demonstration we are going to load in a custom [Google Fonts](#)

Google Fonts is a great site to get amazing professional looking fonts simply and easily for any project



CDN: Manual loading of fonts

1. Open class-directory
2. Create a new html file called fonts.html
3. Go to [Google Fonts](#) and download a font
4. Unzip the file of the font you selected
5. Take that font file and place inside of class-directory/assets/fonts
6. Create a fonts.css file inside of class-directory/assets/stylesheets
7. Inside the CSS file link up @font-face rule for your downloaded font
8. Back to fonts.html link up fonts.css
9. Test



CDN: Load fonts by CDN

1. Create a file called fonts-cdn.html
2. Go back go [Google Fonts](#)
3. Select the font you had prior
4. Highlight the `<link .../>`
5. Paste link in `<head>` of your HTML file
6. Create a new CSS file
 - a. assets/stylesheets/fonts-cdn.css
 - b. Create a CSS rule and paste in the font family
7. View your code in the browser

1 Family Selected

Black Han Sans

EMBED CUSTOMIZE

Load Time: Fast

Embed Font

To embed your selected fonts into a webpage, copy this code into the `<head>` of your HTML document.

STANDARD @IMPORT

```
<link href="https://fonts.googleapis.com/css?family=Black+Han+Sans" rel="stylesheet">
```

Specify in CSS

Use the following CSS rules to specify these families:

```
font-family: 'Black Han Sans', sans-serif;
```

For examples of how fonts can be added to webpages, see the [getting started guide](#).



CDN: Recap

- Content delivery networks are the transparent backbone of the Internet in charge of content delivery
- No matter what you do or what type of content you consume chances are it is being powered by some type of CDN
- CDNs minimize the distance between users locations and the web servers allow for better performance
- Spreads out your content so it is not in a single location

Git & GitHub



Git & GitHub

Git & GitHub have been brought up on multiple occasions and it may not have sunk in yet what is being talked about

Git = Version Control

GitHub = Platform that uses Git





What is Git?

“Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency” - git

Git is a Version Control System

Version control is a system that records changes to a file or set of files over time so you can recall specific version later





GitHub for Noobs!



1

History



GitHub for Noobs!



2

Workflow



Furthering Git and GitHub knowledge

GitHub for Noobs!

3

GitHub App

GitHub for Noobs!

4

Command Line

Deploy Site Using GitHub Desktop





Preface

My workflow is a bit different than what will be demonstrated in this lecture. I do not use GitHub desktop professionally. However, that doesn't mean it is not an acceptable tool to use in professional or personal environment. Tools are meant to get a job done and at the end of the day that's all that matters is the job gets done.

Because of this you may find differing material and resources online. All that is completely acceptable to follow if it works for you or others.

Good YouTube Series:

1. [Getting Started With GitHub Part 1](#)
2. [Getting Started With GitHub Part 2](#)
3. [Getting Started With GitHub Part 3](#)

What is GitHub Desktop?

GitHub Desktop is a Graphical User Interface for interacting with GitHub

Available on MacOS and Windows

Designed by the folks at GitHub

Free

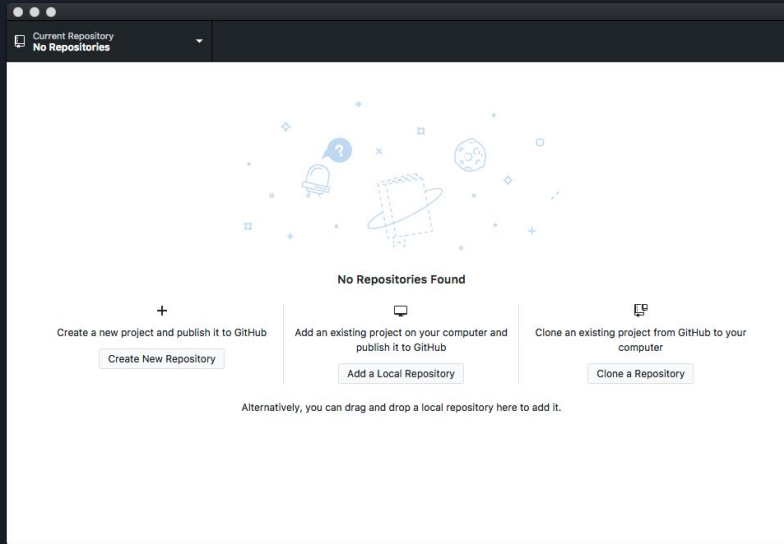




Installing GitHub Desktop

1. [Download GitHub Desktop](#)
2. Install GitHub Desktop (locate GitHubDesktop.zip on your file system)
3. Once installed you will be prompted to enter your GitHub.com credentials
4. Step through the rest of the steps, you may receive an e-mail a 3rd party app has authorized your account

Setting up your first Repo

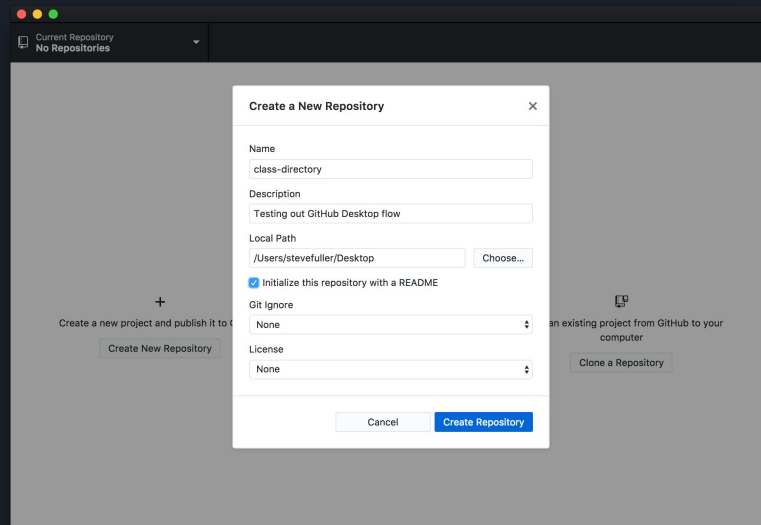


- Create a new project and publish?
 - You don't have Git files in your project
- Add an existing project and publish?
 - You have Git files in your project
- Clone an existing project from GitHub?
 - There's code already on GitHub you want to download and work on

Create a new project

- Name your project
- Write Description
- Where do you want your Repo to reside on your filesystem?
- Initialize with README?
 - A README is information about your project like installation instruction(s), how to use, FAQs, etc.
- Git Ignore
 - Files you don't want in GitHub
- License
 - Copyright protections

Creating this will create a new folder with your essential Git files

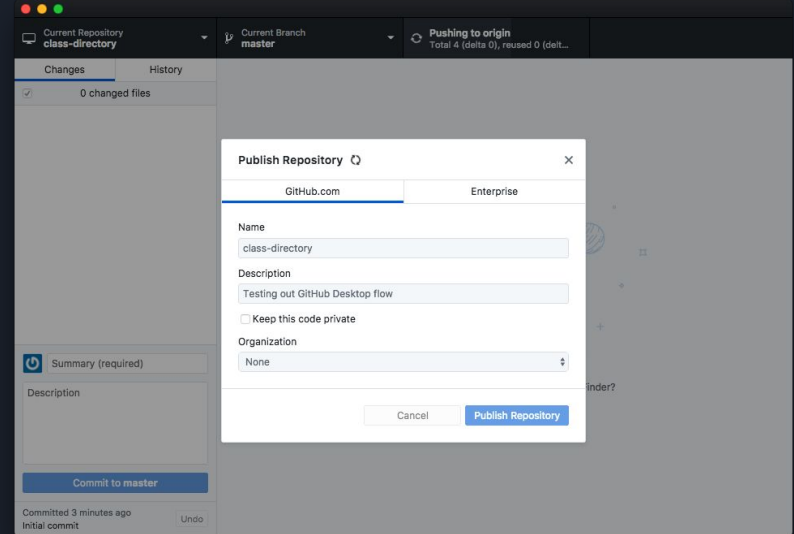
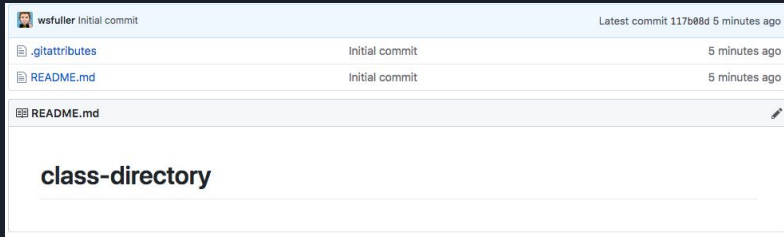


Publish Repository

In the top right corner press “Publish Repository”

Now go to:
github.com/username/:repo-name

And you should see something like:



Congratulations you've just published to GitHub!!!



But like, where's my code and stuff?!?!





One more thing... the .gitignore file

.gitignore is a file we use to omit certain files from being submitted to GitHub

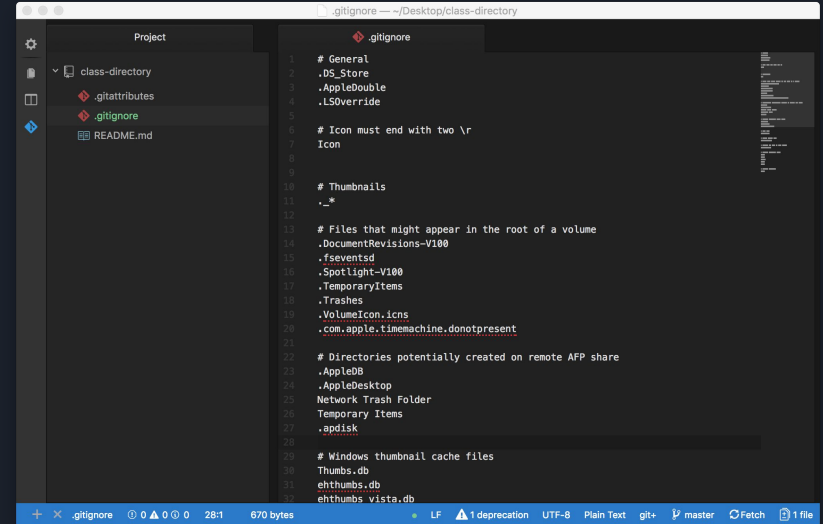
[macOS gitignore](#)

[Windows gitignore](#)

Here are a couple basic files that should cover our needs. For example though you don't want to be committing things like .psd, .sketch, etc files into GitHub. The .gitignore should always be updated before for code commits to avoid any unnecessary files from accidentally being committed.

Adding your .gitignore

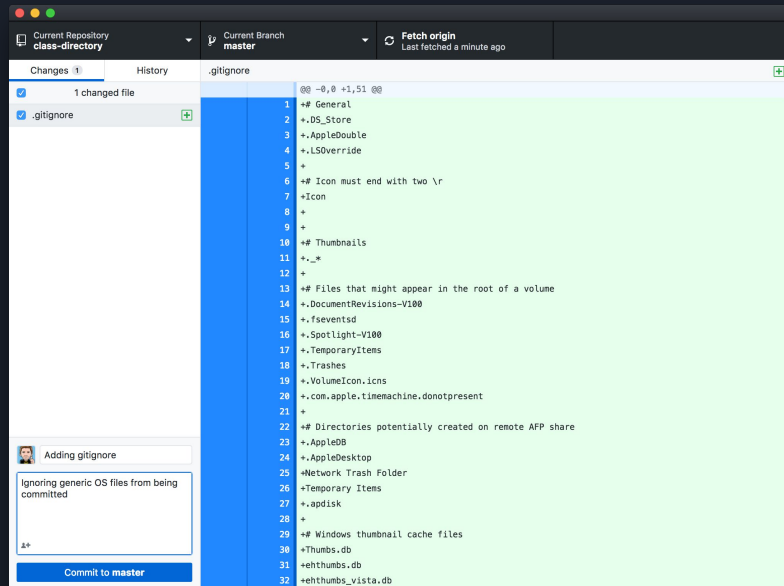
1. Open up your GitHub folder that was created in Atom
2. Make a new file called “.gitignore”
3. Paste in the sample code from the previous slide links
4. Commit this new file to your GitHub repo



```
.gitignore
# General
.DS_Store
.AppleDouble
.LSOVERRIDE
# Icon must end with two \r
Icon
# Thumbnails
.*
# Files that might appear in the root of a volume
.DocumentRevisions-V100
.fseventsd
.Spotlight-V100
.TemporaryItems
.Trashes
.VolumeIcon.icns
.com.apple.timemachine.donotpresent
# Directories potentially created on remote AFP share
.AppleDB
.AppleDesktop
.Network Trash Folder
.Temporary Items
.apdisk
# Windows thumbnail cache files
Thumbs.db
ehthumbs.db
ehthumbs_vista.db
```

Commit your .gitignore

1. Open GitHub desktop
2. Fill out Summary
3. Fill out Desktopion (optional)
4. Commit to **master**
5. Click Push origin
6. Visit your repo



You've just updated your repo!!!



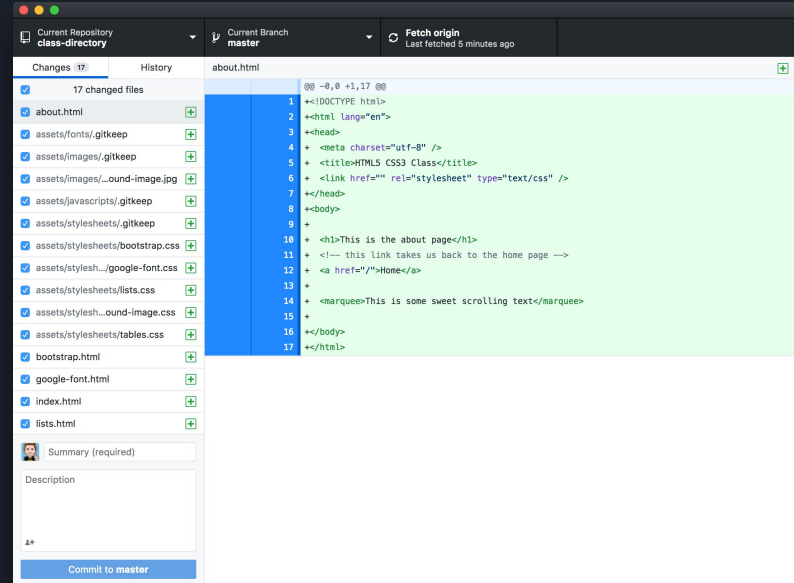
But like, where's my code and stuff?!?!



Let's get our actual code up

All we've done is prepare a folder that's linked to GitHub, there's a couple more steps to get this all working

1. Copy your working code into the one you just created for GitHub
2. Now you should see your files showing up
3. Summary
4. Description
5. Commit to **master**
6. Push to origin
7. Visit your GitHub Repo
8. Pat self on back



Oh yeah



But we aren't quite done yet...

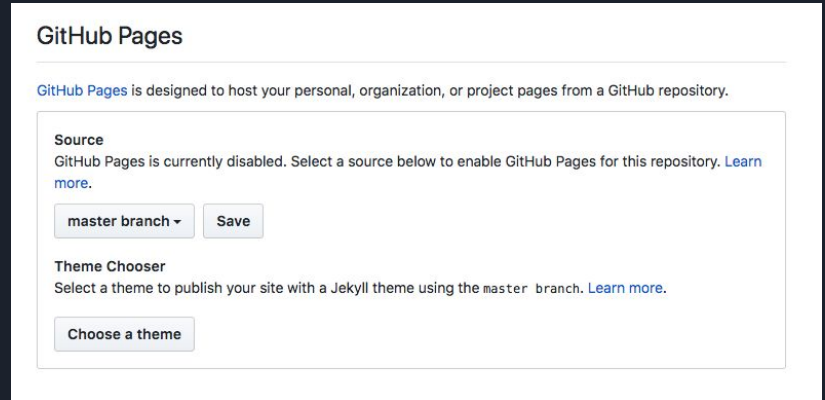




Publish to GitHub Pages

GitHub pages will allow GitHub to take our code and publish a working website for everyone to view

1. Go to your GitHub Repo page
2. Click the Settings tab
3. Scroll down till you see “GitHub Pages”
4. Source should be your master branch
5. Click save
6. You should see a link: “Your site is ready to be published at :URL
7. Go grab a coffee and should be live in ~30 minutes



GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

Source
GitHub Pages is currently disabled. Select a source below to enable GitHub Pages for this repository. [Learn more.](#)

master branch ▾ Save

Theme Chooser
Select a theme to publish your site with a Jekyll theme using the master branch. [Learn more.](#)

Choose a theme

Congrats on using GitHub and Deploying
your site!!!



Homework

- Submit: GitHub URLs (omit this till next week)
 - URL to your Repo
 - URL to your GitHub Page
- Read
 - Ch 17 & 18
- Code
 - About Page
 - Tour Dates



megan jo