

Multiple HTML Pages & Github

CISC-2350-R01 | Fall 2017 | Week 3

Ruta Kruliuskaite

Today's Agenda

- Attendance
- Homework presentations
- Review HTML Media Elements
- Working with multiple HTML pages
- Introduction to Github & Github pages
- Homework Assignment

Homework presentations

<http://bit.ly/2xzLHvt>

HTML Media Elements

**What multimedia elements can
we use on a website to enrich
the experience?**

Media elements

- Images
- GIFS
- Frames of other websites, i.e. Google Maps
- Video
- Sound
- Animation
- 3D models

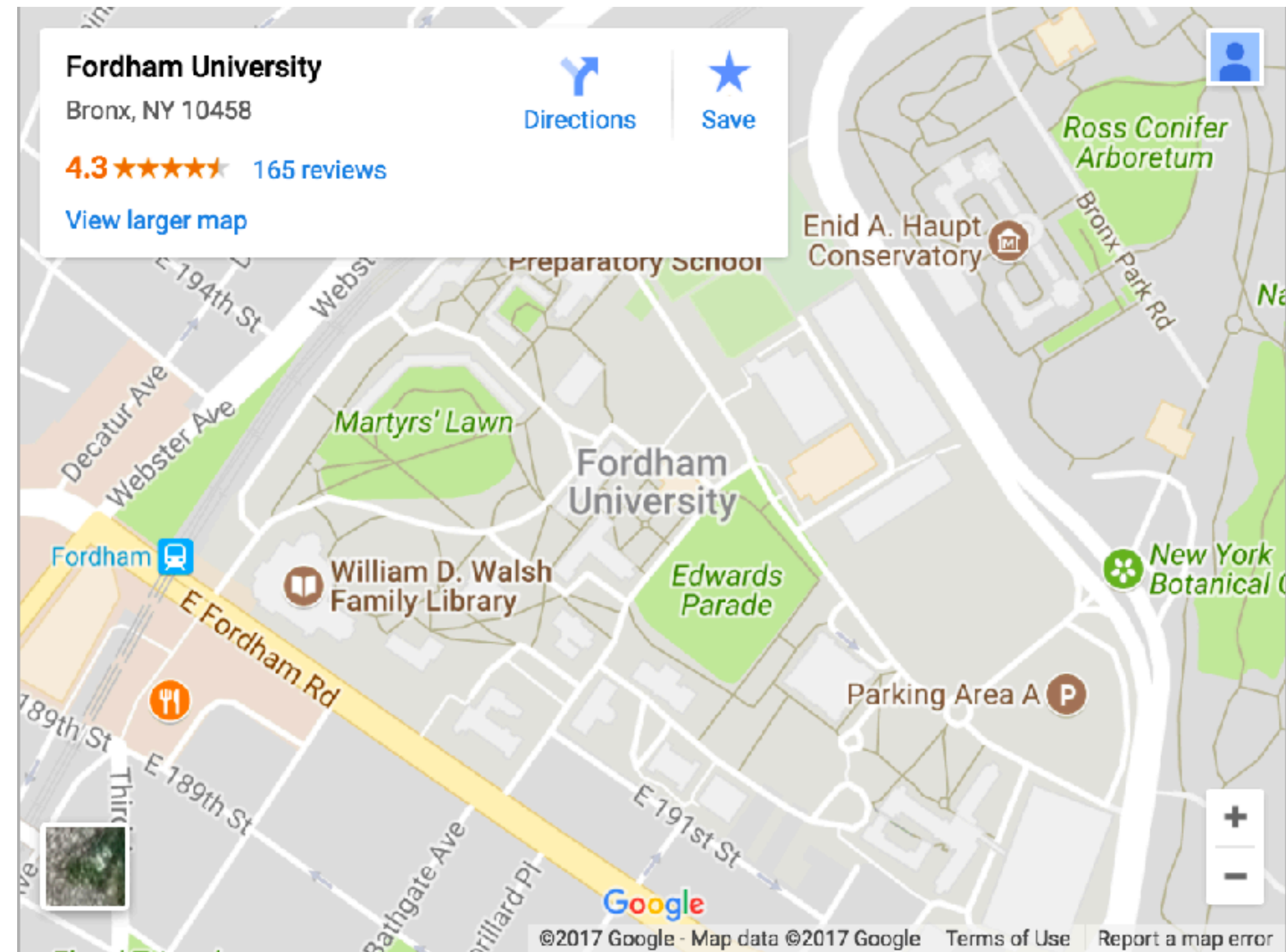
1. HTML iframes

What is an iframe?

- iframe is an abbreviation of “inline frame”
- Uses `<iframe>` tag
- Youtube, Google Maps
- Copy code from another website and adjust these attributes:
src, height, width
- Code can usually be found under “Share” section
- More info on [iframe tag](#)

Example iframe

```
<iframe src="https://www.google.com/
maps/embed?pb=!1m18!1m12!1m3!
1d3017.4480566921543!
2d-73.8878873843578!
3d40.86204037931593!2m3!1f0!2f0!
3f0!3m2!1i1024!2i768!4f13.1!3m3!1m2!
1s0x89c2f37e5180c091%3A0x39c5c
f445ed73ef8!2sFordham+University!
5e0!3m2!1sen!2sus!
4v1505080850545" width="600"
height="450" frameborder="0"
style="border:0" allowfullscreen>
</iframe>
```



2. HTML video

<video /> structure

main tag

poster

width/height

control attributes



```
<body>

<!-- Adding video tag -->
<video poster="media/listen.jpg" width="400px" preload loop autoplay controls>
  <source src="media/listen.mp4"/>
  <source src="media/listen.webm"/>
</video>
</body>
```



different
sources

Attributes & formats

- **Check out** all the things you can control when using video
- For now, we'll look into these attributes:
 - Preload - what preloads when the page loads
 - Controls - if the play/stop buttons are visible
 - Autoplay - if the video should start playing automatically
 - Loop - if the video should loop on completion
- We'll use .mp4 & .webm formats to be compatible with all browsers
- Videos can be converted using **Miro Video Converter**

3. HTML audio

<audio /> structure

main tag



control attributes



```
<audio controls autoplay loop>
  <source src="audio/virginia.mp3" />
  <source src="audio/virginia.ogg" />
  <p>This browser does not support this audio format</p>
</audio>
```

different
sources



text is the file
cannot be found



Attributes & formats

- Preload - what preloads when the page loads
- Controls - if the play/stop buttons are visible
- Autoplay - if the video should start playing automatically
- Loop - if the video should loop on completion
- We'll use both **.mp3** & **.ogg** formats and add multiple sources

Multiple HTML pages

The way you link pages depend on your file structure!

Relative URLs can be used when linking to pages within your own website. They provide a shorthand way of telling the browser where to find your files.

Linking to an external page (absolute)

```
<a href="https://www.google.com/">Visit Google</a>
```

Linking to a page on my own site (relative)

```
<a href="pages/about.html">My about page</a>
```

Multiple pages

- We have index.html page
- We've used it as a one-page website so far
- But now we want to have more than one page?
- Include pages like about.html, contact.html, portfolio.html
- How do we do it?

WIRED

SUBSCRIBE



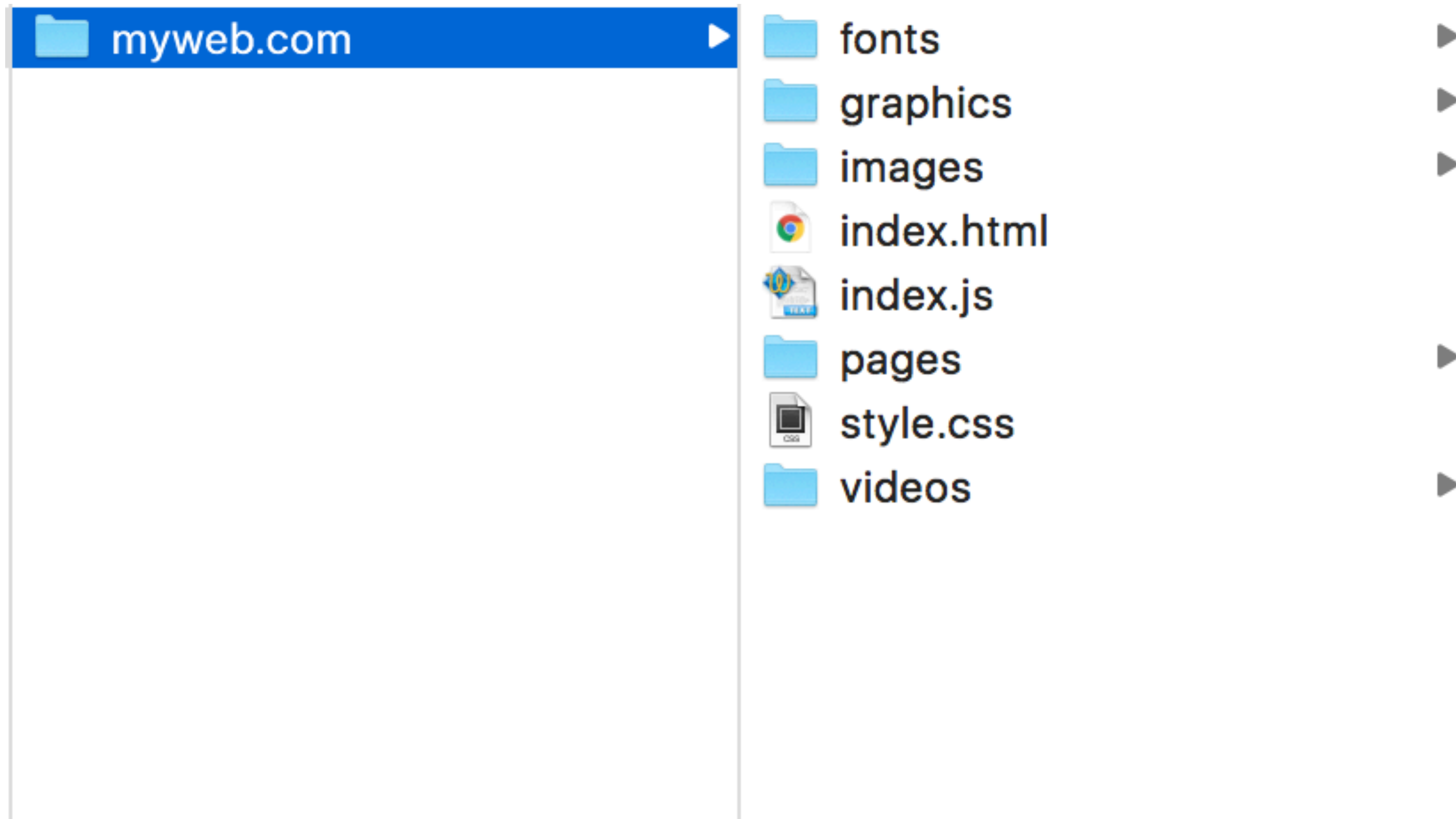
GEAR

SCIENCE

SECURITY

TRANSPORTATION

Let's look at our file structure again



Linking to different pages

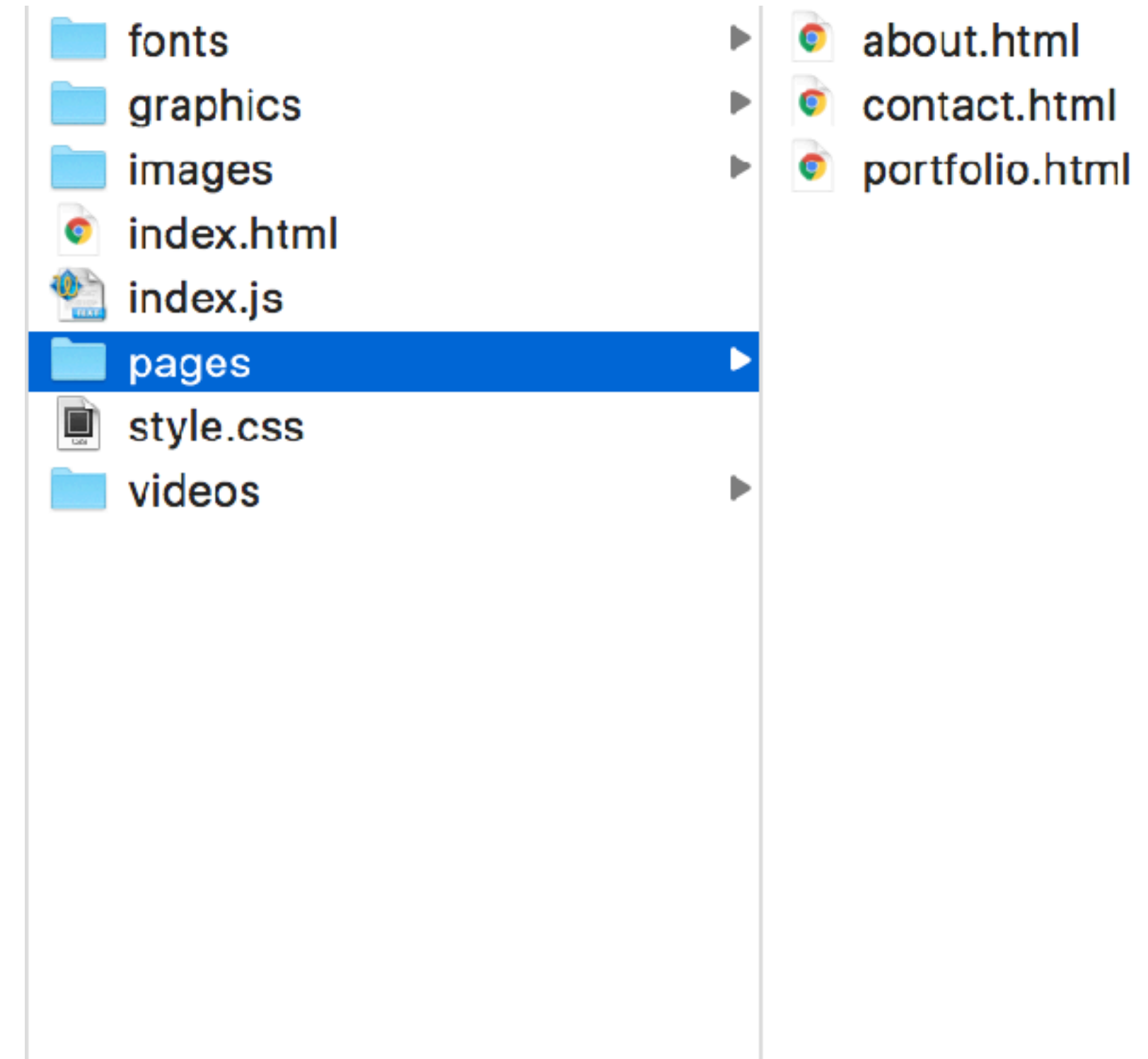
We need to link to all the other pages, just like any other links:

```
<a href="pages/about.html">About</a>
```

```
<a href="pages/contact.html">Contact</a>
```

To return to our main page from About or Contact pages, we'd write:

```
<a href="../index.html">Home</a>
```



Linking to different pages

- With CSS making menus and menu bars will become way more easier
- For now we'll make them using `<nav>` tag
- The `<nav>` tag defines a set of navigation links
- [Here's](#) an example for making a nav bar without using CSS

The `<nav>` tag

- Use to create a navigation bar (will only work in Chrome or Firefox, not earlier browsers)
- Within that tag you can add links to all your pages, e.g.:

```
<nav>
```

```
  <a href="pages/about.html">About</a>
```

```
  <a href="pages/contact.html">Contact</a>
```

```
</nav>
```


Github

What is Github?


- A community of millions of developers online
- Largest open source community in the world
- Home to software projects / code hosting
- Code collaboration program


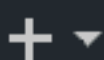

What is Github 2?


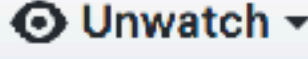

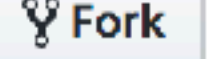
- Versioning program
- GitHub is web portal, Git is what is used through terminal
- We'll be using web portal to keep track of our assignments
- Everyone will have their own username and “repository” for this class

Instructions

- Go to github.com and sign up
- Create a repository and name it the class code **CISC_2350_R01**
 - be sure to check the box that initialises with a README.md
- Make a folder for week3 -> Create new file -> Type “Week3” and add “/” and then name a README.md file again
- Within that folder upload last week’s assignment. You can drag your files into the window and they will upload.
- Hit “Commit”
- You’ll be using your GitHub to upload homework for the rest of the class

 This repository Search Pull requests Issues Marketplace Explore



 [rutaitp](#) / [CISC-2350-R01-2017](#)  1  1  1

[Code](#) [Issues 0](#) [Pull requests 0](#) [Projects 0](#) [Wiki](#) [Settings](#) [Insights](#)

Syllabus, class notes and assignments for CISC-2350-R01 at Fordham University, Fall 2017.

Edit

[Add topics](#)

 23 commits

 1 branch

 0 releases

 1 contributor

Branch: master








New pull request


Create new file

Upload files

Find file

Clone or download

 rutaitp week3-1 slides and code	Latest commit 24b3065 3 days ago
 Website Template	more changes 10 days ago
 week1	adding week1 slides 13 days ago
 week2-1	more updates 7 days ago
 week2-2	week3-1 slides and code 3 days ago
 week3-1	week3-1 slides and code 3 days ago
 README.md	Update README.md 12 days ago

 [README.md](#)

CISC-2350-R01: Info & Web Programming

Class times: Monday & Thursday, 5:30-6:45pm. 4 credits

Create a new repository for the class from the dropdown menu. You can call it 'CISC_2350_R01' or some other name that makes sense to you. This is where you'll upload all your homework.

[Pull requests](#) [Issues](#) [Marketplace](#) [Explore](#)

Create a new repository

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

Owner

Repository name



rutaitp ▾

/

CISC-2350-R01



Great repository names are short and memorable. Need inspiration? How about **furry-journey**.

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 importing an existing repository.


Add .gitignore: **None** ▾

Add a license: **None** ▾





Create repository

Make sure to check this box when making your repository.

 This repository Search

Pull requestsIssuesMarketplaceExplore

 + 

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Unwatch 1Star 1Fork 1

<> CodeIssues 0Pull requests 0Projects 0WikiSettingsInsights


Syllabus, class notes and assignments for CISC-2350-R01 at Fordham University, Fall 2017.

Edit

Add topics

23 commits1 branch0 releases1 contributor

Branch: masterNew pull requestCreate new fileUpload filesFind fileClone or download

 rutaitp

week3-1 slides and code

Latest commit 24b3065 3 days ago

Website Template	more changes	10 days ago
week1	adding week1 slides	13 days ago
week2-1	more updates	7 days ago
week2-2	week3-1 slides and code	3 days ago
week3-1	week3-1 slides and code	3 days ago
README.md	Update README.md	12 days ago

README.md

CISC-2350-R01: Info & Web Programming

Class times: Monday & Thursday, 5:30-6:45pm. 4 credits

Once you have your repository made, you'll create a new folder for that week's homework. Click "Create new file".

CISC-2350-R01-2017 / test / or [cancel](#)

Type “test”, then add “/“, then type “README.md”
(GitHub needs a README to create an empty folder)

<> Edit new file

👁 Preview

Spaces



2



No wrap



1



Commit new file

Create README.md

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 new file

Cancel

Click “Commit new file”

Branch: master ▼

New pull request

Create new file

Upload files

Find file

Clone or download ▼



rutaitp committed on **GitHub** Create README.md

Latest commit 7dbee47 2 minutes ago



Website Template

more changes

10 days ago



test

Create README.md

2 minutes ago



week1

adding week1 slides

13 days ago



week2-1

more updates

7 days ago



week2-2

week3-1 slides and code

3 days ago



week3-1

week3-1 slides and code

3 days ago

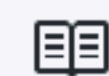


README.md

Update README.md

12 days ago

New folder appears among all the other folders. You should create new folder for every week. Then drag your files into the browser. They will be added to that week's folder.



README.md

CISC-2350-R01: Info & Web Programming

CISC-2350-R01-2017 / test



Once you're in the correct folder, you can drag and drop your files (and folders) into the folder

Drag files here to add them to your repository

Or [choose your files](#)



Commit changes

Add files via upload

Drag additional files here to add them to your repository

Or [choose your files](#)

index.html



/pages/about.html



/pages/contact.html



Commit changes

Add files via upload

Add an optional extended description...

Once they're uploaded, commit (aka save) your changes

☒ 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



This repository

Search

Pull requests

Issues

Marketplace

Explore



rutaitp / CISC-2350-R01-2017

Unwatch

1

Star

1

Fork

1

Code

Issues 0

Pull requests 0

Projects 0

Wiki

Settings

Insights

Branch: master

CISC-2350-R01-2017 / test /

Create new file

Upload files

Find file

History



rutaitp committed on GitHub Add files via upload

Latest commit 9c15bfa just now

pages

Add files via upload

just now

README.md

Create README.md

18 minutes ago

index.html

Add files via upload

just now

README.md

You're done! Your files are there.

In-class exercise

In-class exercise

- Upload your Week3 homework to your Github account
- Post your index.html file and any associated images to your Github account in the proper file structure.

Github pages

**Easy way to host your website on
Github without any external web
hosting services**

rutaitp / CISC-2350-R01-2017

Unwatch ▾

1

★ Star

1

🍴 Fork

1

↔ Code

! Issues 0

🔗 Pull requests 0

📁 Projects 0

📖 Wiki

⚙ Settings

🔍 Insights ▾

Branch: master ▾

CISC-2350-R01-2017 / test /

Create new file

Upload files

Find file

History



rutaitp committed on GitHub Add files via upload

Latest commit 9c15bfa an hour ago

..

📁 pages

Add files via upload

an hour ago

📄 README.md

Create README.md

an hour ago

📄 index.html

Add files via upload

an hour ago

📖 README.md

First, we need to create
a new “branch” that our
folder will be on

<> Code

! Issues 0

🔗 Pull requests 0

📁 Projects 0

📖 Wiki

⚙ Settings

Insights ▾

Branch: master ▾

CISC-2350-R01-2017 / test /

Create new file

Upload files

Find file

History

Switch branches/tags



gh-pages

Branches

Tags

gh-pages

📄 index.html

Add files via upload

an hour ago

Create README.md

an hour ago

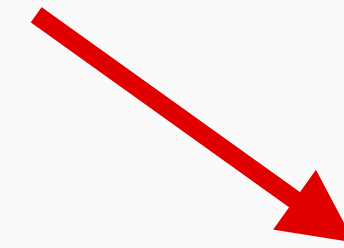
Add files via upload


an hour ago


📖 README.md


We do so by clicking on “master” and adding new branch named “gh-pages”. That's the default branch name on which Github pages are working. Write “gh-pages” and hit “enter”.


Then we have to go to
“settings” to change our
default branch





 **rutaitp / CISC-2350-R01-2017**


 Code


 Issues **0**

 Pull requests **0**

 Projects **0**


 Wiki

 **Settings**

 Insights ▾

Unwatch ▾1

★ Star1

 Fork1


Branch: **master** ▾ **CISC-2350-R01-2017 / test /**

Create new file

Upload files


Find file

History

 **rutaitp** committed on **GitHub** Add files via upload


Latest commit 9c15bfa an hour ago

..

 **pages**


Add files via upload

an hour ago

 **README.md**


Create README.md

an hour ago

 **index.html**

Add files via upload

an hour ago

 **README.md**

Options

Collaborators

Branches

Webhooks

Integrations & services

Deploy keys

Default branch

The default branch is considered the “base” branch in your repository, against which all pull requests and code commits are automatically made, unless you specify a different branch.

master ▾

Update

Protected branches

Protect branches to disable force pushing, prevent branches from being deleted, and optionally require status checks before merging. New to protected branches? [Learn more.](#)

Choose a branch... ▾

No protected branches yet.

When you are in the Settings, choose “Branches”

Options

Collaborators

Branches

Webhooks

Integrations & services

Deploy keys

Default branch

The default branch is considered the “base” branch in your repository, against which all pull requests and code commits are automatically made, unless you specify a different branch.

master ▾

Update

Switch default branch

✕

Filter branches

gh-pages

✓ master

Choose a branch... ▾


Click on “master”, choose “gh-pages” and hit “update”


event branches from being deleted, and optionally require status checks? [Learn more.](#)

No protected branches yet.

Default branch changed to gh-pages




 **rutaitp / CISC-2350-R01-2017**

 Unwatch ▾

1


 Star

1

 Fork

1

 Code

 Issues 0

 Pull requests 0

 Projects 0

 Wiki

 Settings

Insights ▾

Options

Collaborators

Branches

Webhooks

Integrations & services

Deploy keys

Default branch

The default branch is considered the “base” branch in your repository, against which all pull requests and code commits are automatically made, unless you specify a different branch.

gh-pages ▾

Update

**It will look like this.
You're almost done!**

Protected branches

Protect branches to disable force pushing, prevent branches from being deleted, and optionally require status checks before merging. New to protected branches? [Learn more](#).

Choose a branch... ▾

Now go to

[username.github.io/mainfolder/](#)

[thisweekfolder/](#)

Homework assignment

Homework

For Monday (due Sunday by 6pm):

1. Read:

- This article on file structure: <http://www.htmlquick.com/tutorials/organizing-website.html>
- This article on The Virtue of Open Source

2. Monday web review presentation - William & Caroline (submit link to your site by Sunday 6pm)

For Thursday (due Wednesday by 6pm):

3. Building on the same page from last week, add the following:

1. A second HTML page. For the second page you can add additional content and link it in your file.
2. An additional iframe
3. An audio element:
 - You can find something online or record your own audio with your phone
4. A video that relates to the content of your site
 - A video must be locally on your page and linked appropriately. The video should relate to the content of your site. Even better if it's shot by you!
5. <nav> element on your page (which you can use to link your second page if you choose)
6. Be sure to include additional comments

4. Upload your page to Github by Wednesday 6pm.

5. Create a Github page and post link to it on #general channel on Slack by Wednesday 6pm.

6. Office hours: Monday 6:45-7:45pm. Sign up [here](#).