

EDPS 6560 Multimedia Learning Week 1 - Introduction

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Spring 2019
January 9th



Class Schedule

- Introductions
- Course Objectives
- Today's Objectives
- Canvas & Syllabus Overview
- Class Discussion of Commonly Used Terms
- Looking Forward to Activities & Projects



Introductions

Introduce yourself to your colleagues (...anyone joining us that is NOT registered in EDPS 6440)

- Name & Program (e.g., IDET, L&C, Counseling, ...)
- Job? Interest in instructional design?
- If your house were on fire, name 3 things that you would bring out with you



Class Objectives

Provide beginners with the skillsets to develop your own website

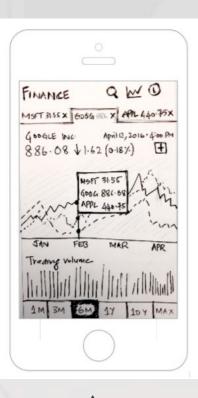
- Apply HCI methods how to manage a project and implement designs
- Develop web-based interface that is responsive to different devices (mobile, tablet, desktop) and interactive
- Gain technical skills associated to coding websites – how to code the documents and create the multimedia assets



EDPS 6440 vs. EDPS 6560

HCI

Understanding of how to design materials and interactions to meet user needs







Multimedia

Understanding of how to produce materials and interactions that meet user needs

What? Why?

Planning

Design



How?

Executing

Development



Today's Objectives

- Common terms that you will hear about a lot
- Explain the building blocks of web development and how it all fits together in this course
- Getting ready for next week
 - How do I prepare for next class?
 - What will I need in class to do the work?
 - What if I get stuck?!?



What is the Internet?

(In case you've just woken from a coma and missed these last 3 decades...)

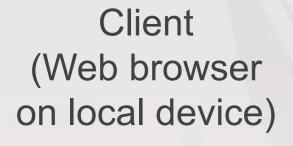




How the Internet Works

Where? Uniform Resource Locator (URL) http://example.com

How? Hypertext Transfer Protocol (HTTP)
Protocol used to exchange hypertext over a network



GET /document Host (URL)

Server (e.g. GitHub, Facebook, ...)

What? Hypertext (structured text), stylesheets, scripts, images, ...















Why? Nuclear war... but mostly cute cat videos

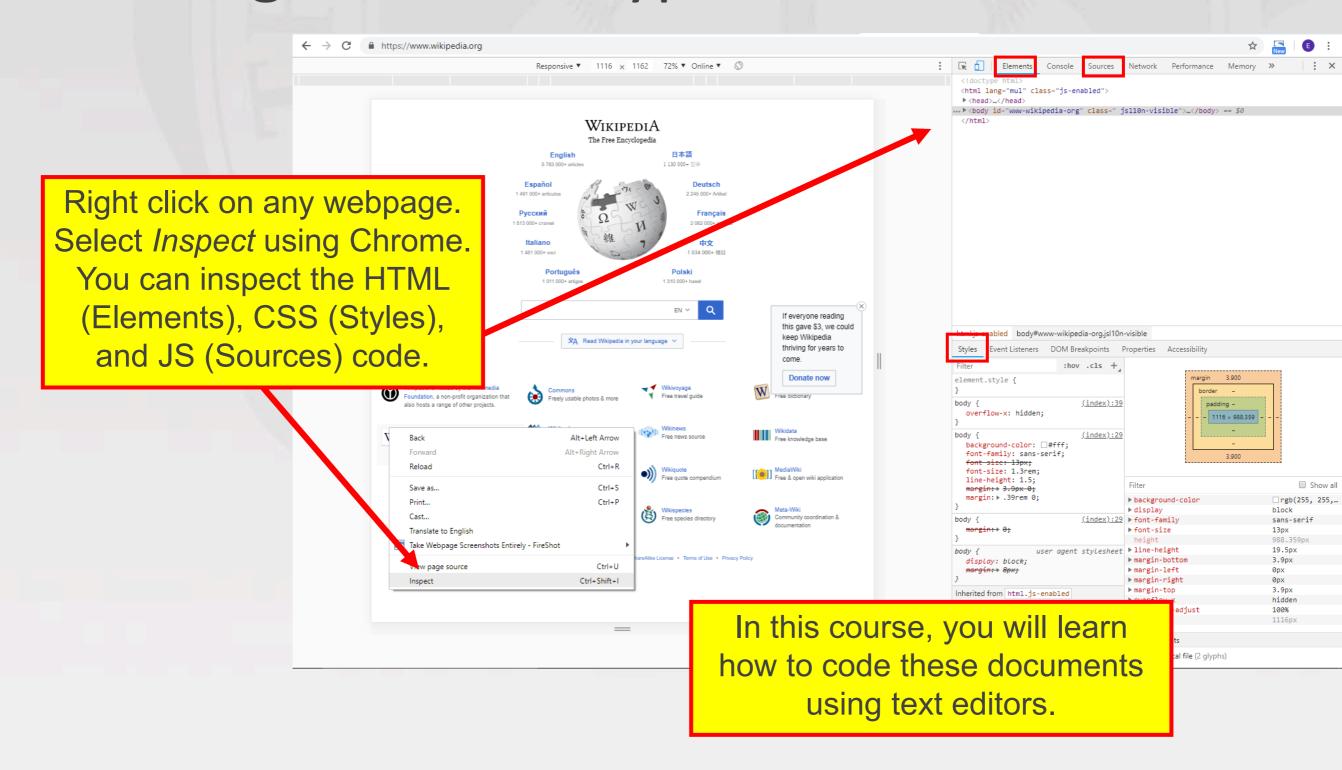


Building Blocks of Hypertext... Documents

Language	Purpose	Example	Libraries	Timeline
HyperText Markup Language (HTML)	Code that structures your web content and give it meaning and purpose.	Do I have paragraphs, lists, images?		Spring; 5 Weeks
Cascading Stylesheets (CSS)	Style your website.	Maybe the paragraphs should all be in black color? Or font size should be bigger?	BS4, Googlefonts, Fontawesome, Animate.css	Spring; 10 Weeks
JavaScript (JS)	Interactive features to your website.	What happens if I click here? Or hover my mouse cursor over this?	BS4, JQuery	Summer; 12 Weeks



Building Blocks of Hypertext... Documents





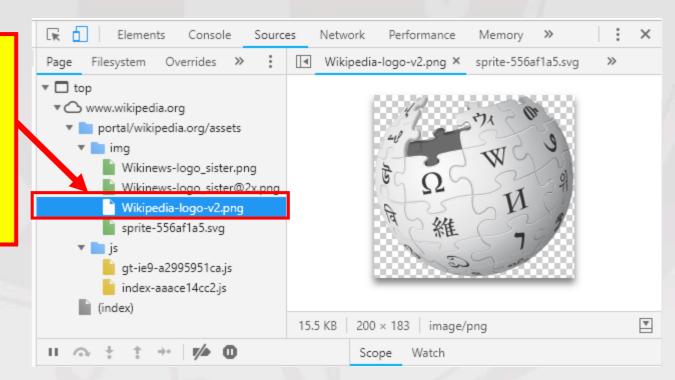
Building Blocks of Hypermedia... Assets

Language	Purpose	Example	Adobe App	Timeline
Raster Images	Tiny dots or squares with color inside. Put enough together and you've got a photograph.	Common examples include .png, .jpg, .tiff files.	Photoshop	Spring; 5 Weeks
Video Sequence	Assemble together multiple raster graphics together and add sound you've got yourself a video sequence.	.mp4, .mov	Premiere Pro	Spring; 5 Weeks
Vector Images	Kind of like a stylesheet in CSS – it stores all the lines, shapes, and colors as mathematical formulae.	as .eps or .svg	Illustrator	Spring; 5 Weeks
eLearning Module	Powerpoint for the web – includes timeline animations applied to different types of media, incl. text, rasters, vectors.	HTML5/Video/.ex e export	Captivate	Summer; 12 Weeks



Building Blocks of Hypertext... Assets

Assets are stored on servers alongside documents in folders such as "img". These are linked within documents and will be rendered by the web browser on the screen.



In this course, you will learn how to edit properties of these assets using Adobe CC apps.



Technical Skills Necessary for Instructional Designers

Web Designer

Colors, fonts, graphics, content (i.e., wire framing, prototyping, user testing, heavy users of Adobe CC, WYSIWYG editor programs to export code - Captivate, Lectora, Storyline, Adobe XD, InDesign, Sketch, Xara, Affinity, ...)

Front-End Web Developer

Code that assembles all the pieces together into a web-based interface (i.e., HTML for the content, CSS for the styling, JS for the interactions, and UI libraries (jQuery, Bootstrap) and frameworks to organize them all (Angular, React, Vue)

 Call for Jobs (Check Canvas for examples)... Usually organized around specialties in larger companies; a broad skillsets facilitate coordination amongst interdisciplinary teams

Learning and Dev Consultant, Project Lead/Manager, Instructional Script Writer/Designer, Software Engineer, Graphic Artist



Break (10 Min.)



How to Navigate the Canvas Course Section

- Syllabus is the first module
- Each module is organized by week
- How to get ready for each class:

Before class (Sat-Sun): Familiarize yourself with videos, exercises, and readings in preparation for next class (AdobeTV, Codecademy, and so on). You can also post to discussion forum (Any issues or post, if applicable to that particular week)

During class (Wed): Download class slides for Adobe CC software demo (ppt or pdf) & Review the code snippets and activity

After class (Th-Fri): Familiarize yourself with assignment(s)

Incl. projects and activities due by 11h59PM on Friday (work is completed in class)



Working In Class

Out-of-Class

- Watch AdobeTV instructional videos
- Complete Codecademy modules
- Skim online resources (e.g., Blog posts, W3School examples, Bootstrap 4 documentation)

In-Class (Typical Schedule)

- 1. Code demonstration (30 min.)
- 2. Practice and question period (50 min.)
- 3. BREAK
- 4. Adobe CC demonstration (30 min.)
- 5. Practice and question period (50 min.)



Let's Review the Course Syllabus

- Office hours and my contact info
- No textbook required all readings/videos/exercises in Canvas
- Course assignment and evaluation methods (see description & schedule 1 week revise/resubmit option)

Assignment	Weight	Deadline(s)
Activities #1-5: Front-End Web Development	30%	Jan 9, Jan 23, Feb 13, Mar 20, Apr 17
Project #1: Raster Graphic in Photoshop	20%	Feb 6
Project #2: Video in Premiere	20%	Mar 6
Project #3: Vector Graphic in Illustrator	20%	Apr 10
Training Videos, Readings, and Exercises	10%	Apr 17



Alignment with EDPS 6440 Schedule

EDPS 6560 Assignments	Deadline(s)	EDPS 6440 Assignments
Project #1: Raster Graphic in Photoshop	Feb 6	
	Feb 11	HCI Exercise #3: Persona and Scenario (<i>Create a user persona using Photoshop</i>)
Project #2: Video in Premiere	Mar 6	
	Mar 18	HCI Exercise #5: Low-Fidelity Video (<i>Edit the video using Premiere Pro</i>)
Project #3: Vector Graphic in Illustrator	Apr 10	
	Apr 15	High Fidelity Video (<i>Draw assets for UI components in Illustrator</i>)
Activity #5 (Digital portfolio OR Prototype of an app/site with hyperlinks to simulate interactions)	Apr 17	



Choosing a Topic for Activities/Projects

A few examples (HCI class requirements? Career goal? Hobbies?):

- Design a professional portfolio to showcase your technical skills and all the assets you've developed in EDPS 6560/HCI (used as an example throughout the course)
- Design a website to help teachers use technology in optimal, studentcentered way
- Design a website to host training modules to help K-12 teachers to teach online
- Create a tablet interface for charting in the ER
- Create a mobile app to share resources with students for learning outside of the classroom
- Create a classroom website to showcase all the cool activities that students are doing





Brian Tillman

UX/UI Learning Experience Designer Greater Salt Lake City Area | Computer Software

Current Previous

Western Governors University

Maintenance Connection LLC, U.S. Forest

Education

Portfolio

Example: ESL App for Teaching Phrasal Verbs (Tillman, Fuentes, LaMar, Wang, 2018)



Project #1: User persona created with Photoshop





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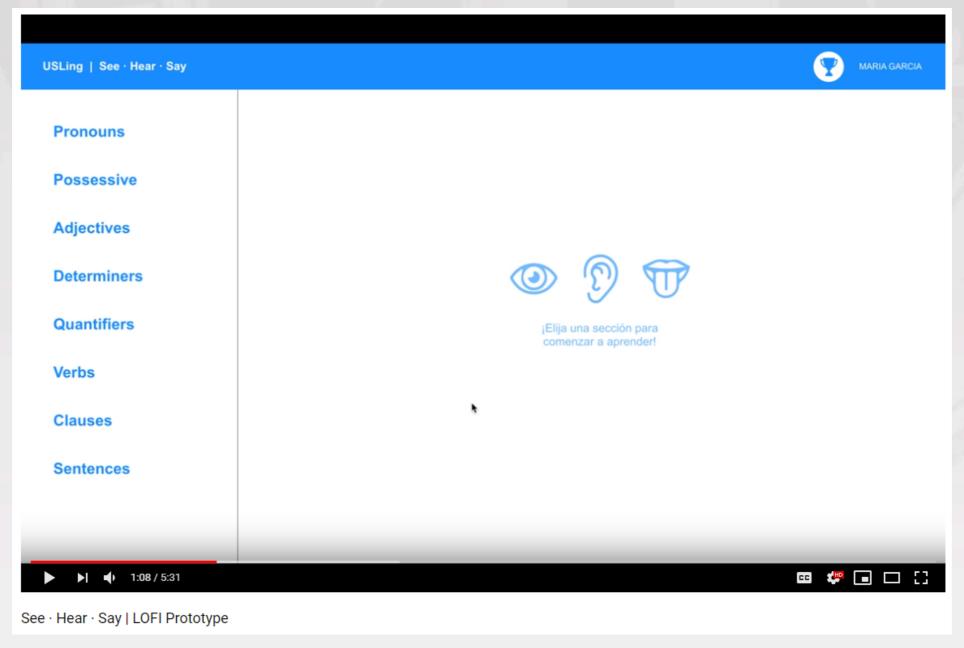
Western Governors University

Maintenance Connection LLC, U.S. Forest

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es Portfol

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Project #2: Low-Fi video edited in Premiere Pro





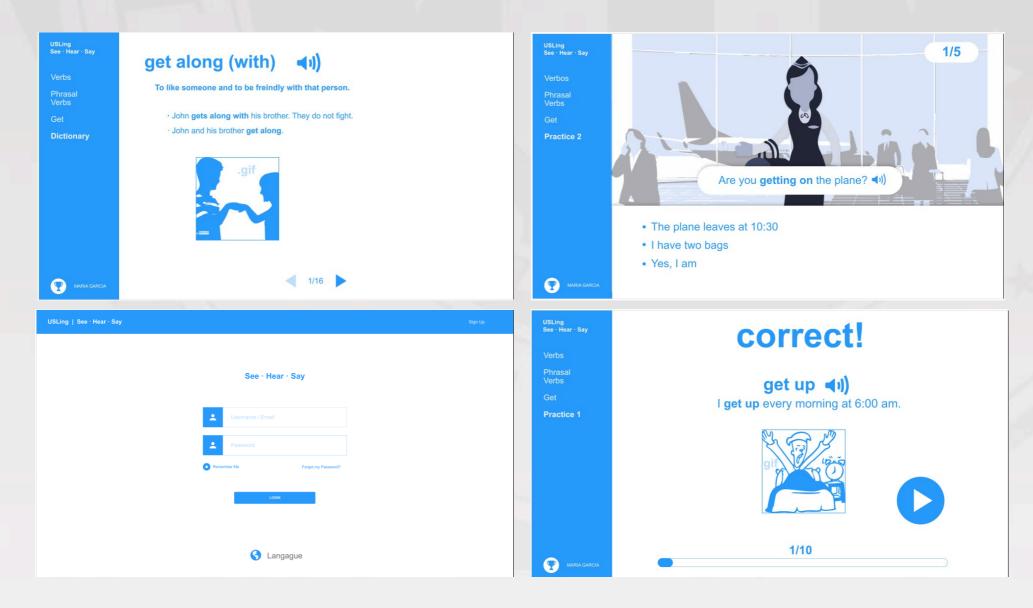
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Project #3: Icons/Some artwork created with Illustrator Activities #1-5: Creating the elements (HTML) and adding styling properties (CSS)



 Adobe Creative Cloud Campus License Agreement (Photoshop, Premiere Pro, Illustrator)

Download and institutional login instructions

Source Text Editor (Brackets, or equivalent)

Download

*** These software are also available in our labtop cart ***

Websites Account Sign Up

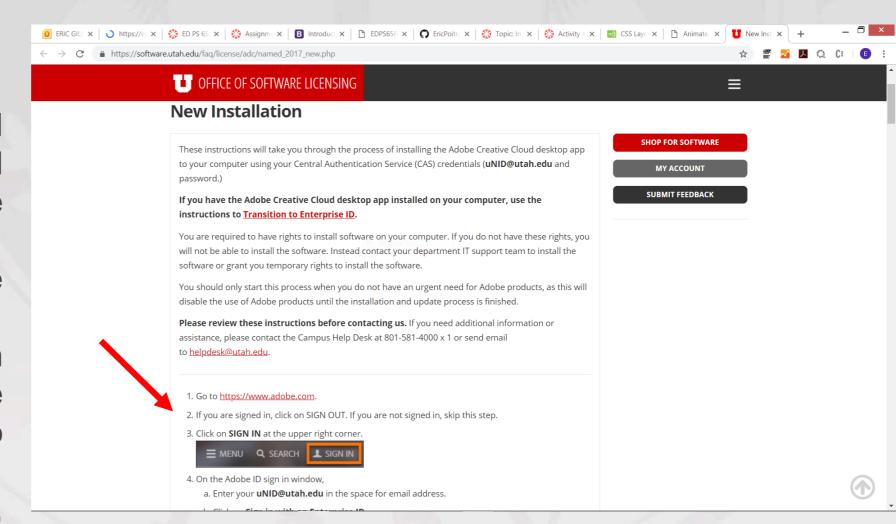
Codecademy Sign Up Page

GitHub Sign Up Page



Adobe Creative Cloud

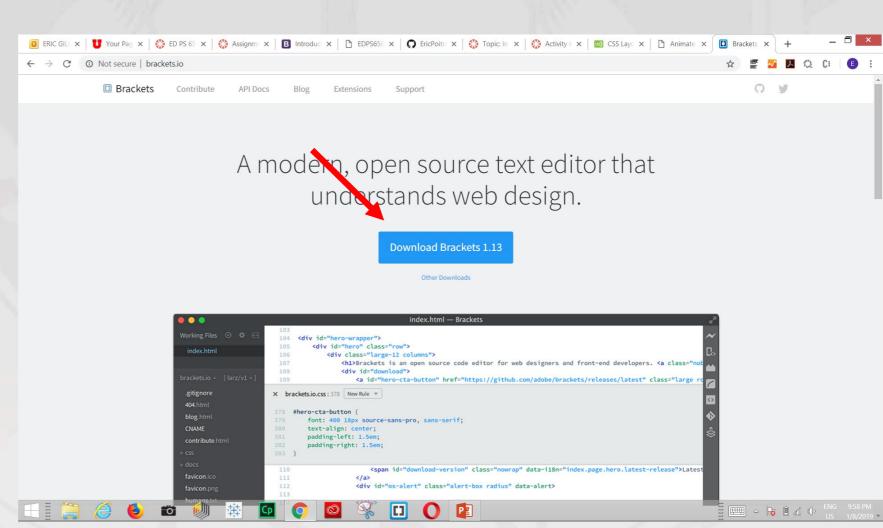
- The instructions to download Adobe Creative Cloud desktop manager are mentioned below.
- Sign in with your enterprise ID (UNID and password)
- 2 sessions can run simultaneously on separate machines – remember to logout.
- Install 3 apps Photoshop, Illustrator, Premiere Pro (otherwise use laptops in class)





Adobe Brackets

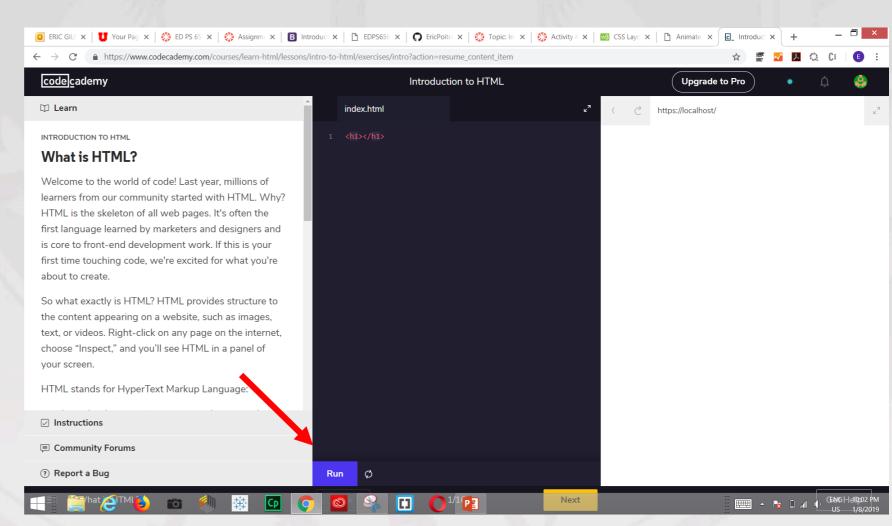
 Free and simple text editor to write HTML, CSS, and JS code





Codecademy

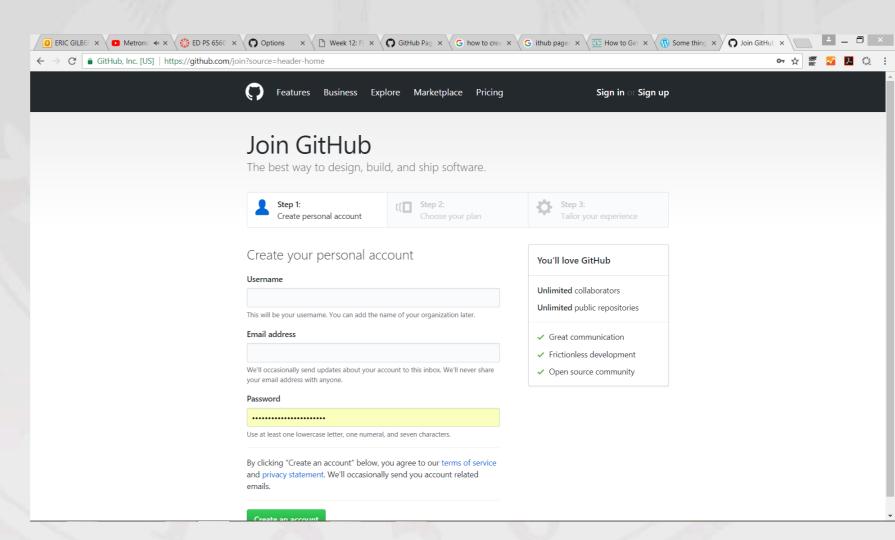
- Online and interactive tutorials for learning how to code
- Provides feedback on each attempt for multi-step problem





Sign up for an account

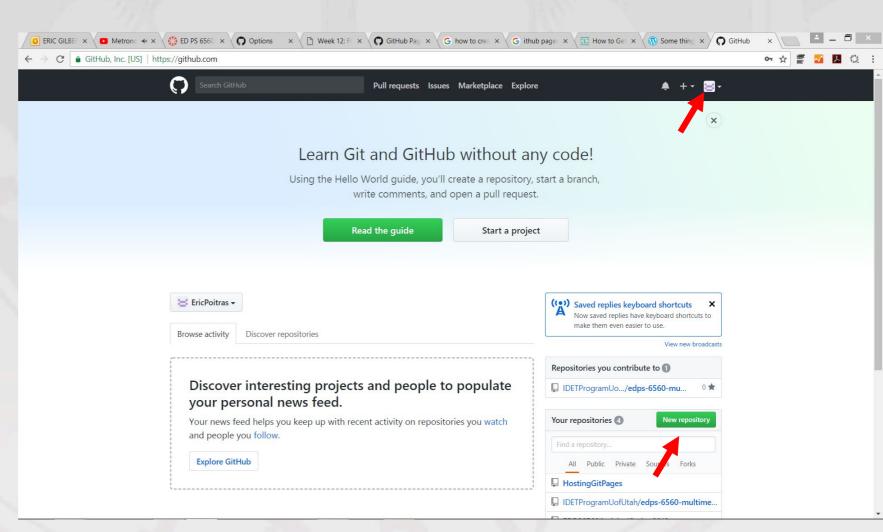
- 1. Navigate to this website: https://github.com/join?sou rce=header-home
- 2. Choose a username, email, and password. Create an account.





Creating a repository

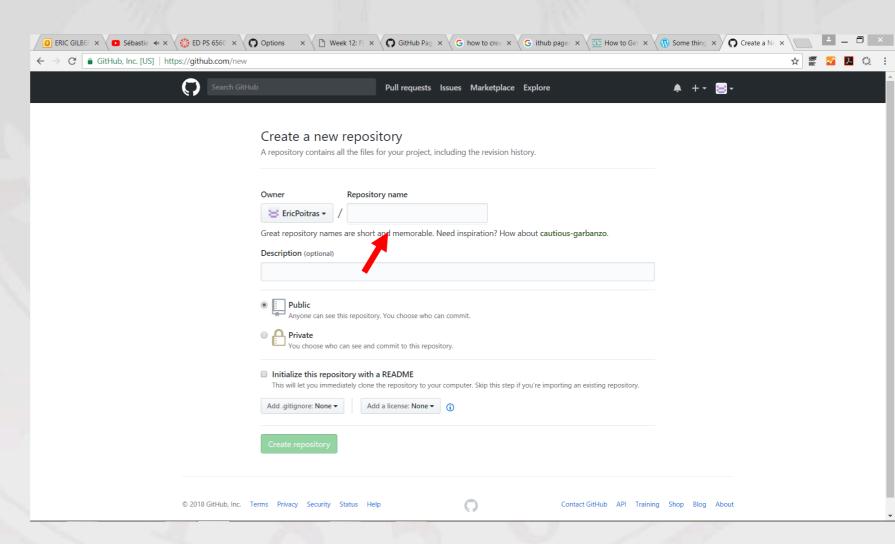
- 1. Navigate to your profile page once you've signed in to the platform.
- 2. Select New Repository.





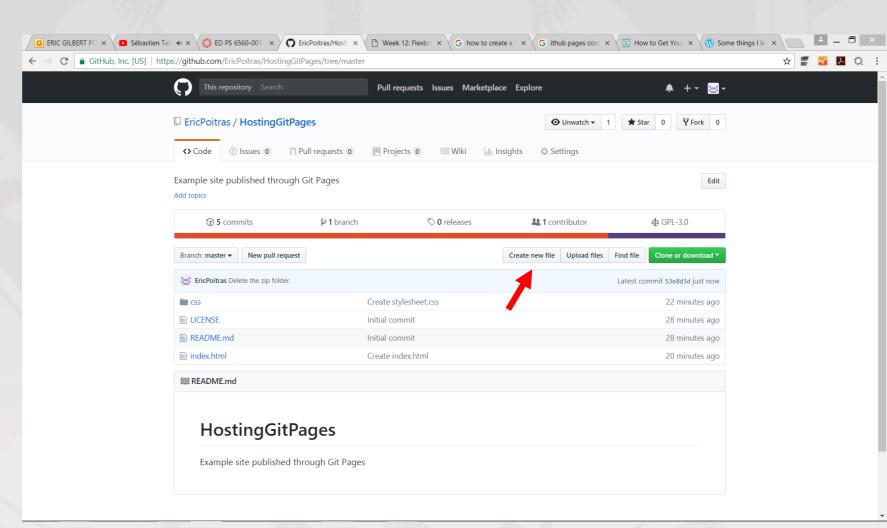
Creating a repository

- 1. Write a name for the repository. Write also a short description.
- 2. Choose Public. Then, specify that the repository should be created with a Readme file.
- 3. Create the repository.



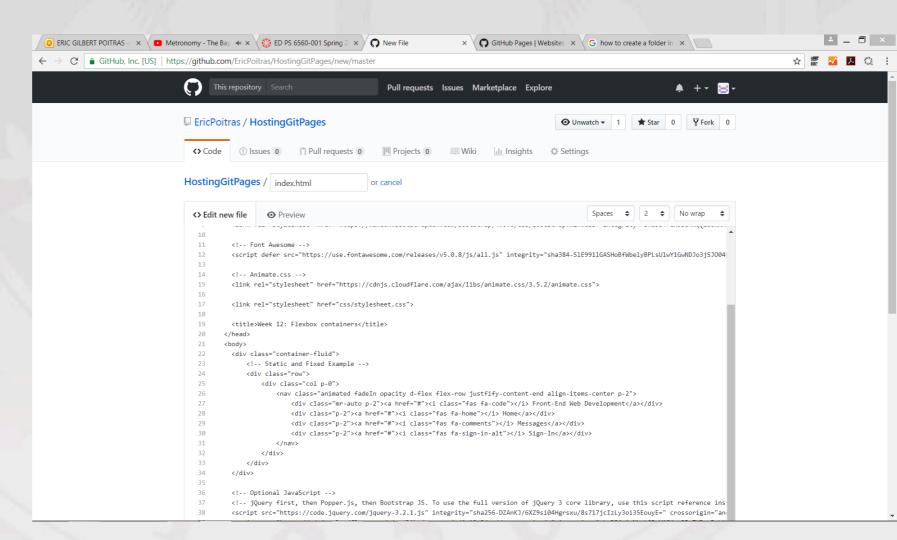


- 1. GitHub pages requires the use of an index.html file.
- 2. Create a new file. Call it index.html. Commit the change to the repository.



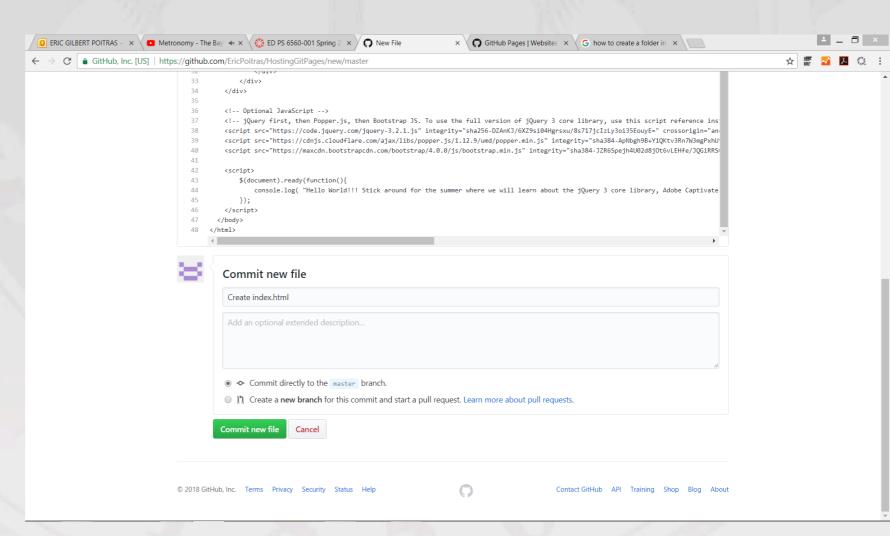


- 1. Select the index.html. Using the pen icon, edit the contents of the file.
- 2. Navigate to the BS4 website to the starter template section: https://getbootstrap.com/docs/4.1/getting-started/introduction/#starte-r-template.
- 3. Copy paste the code from the starter template into the index.html.



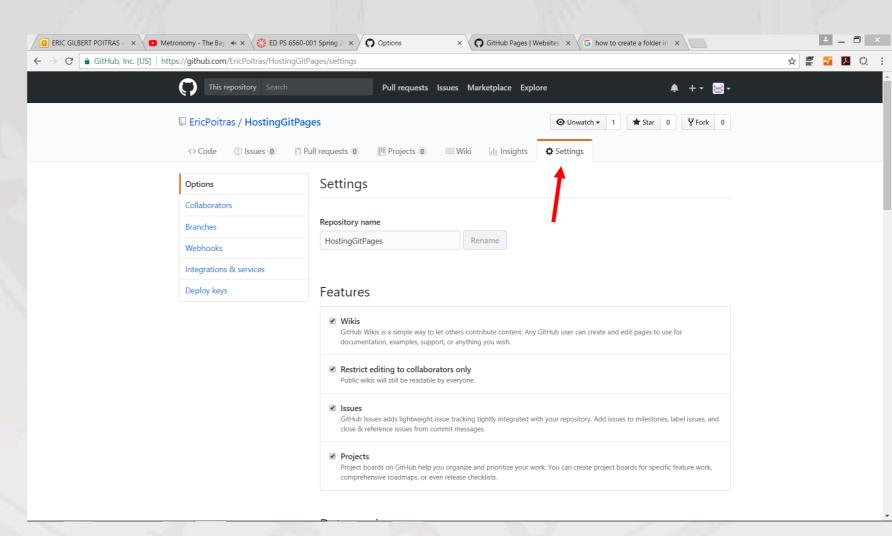


- 1. Customize the hello world! Message.
- 2. Commit the changes to the master branch.





- 1. Navigate to the Settings of your account.
- 2. Scroll down until you reach the section "GitHub Pages".

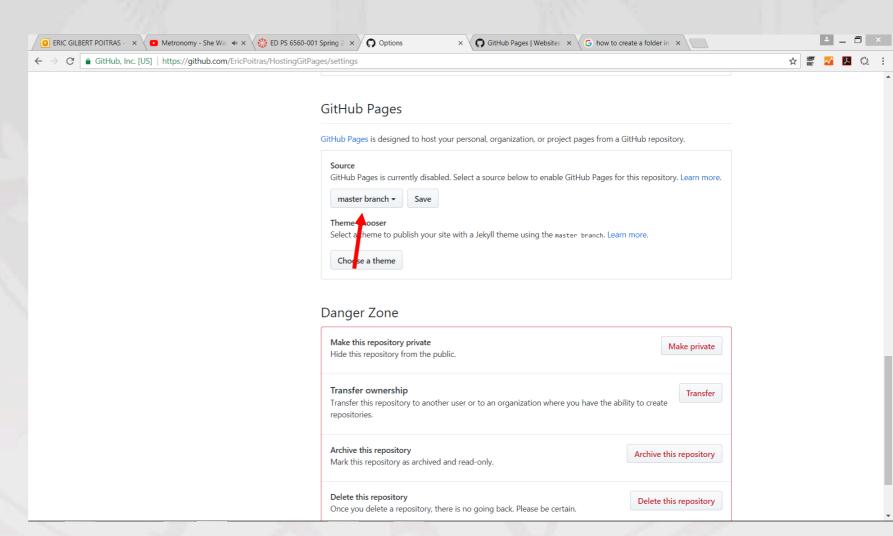




Creating the folder structure for your website

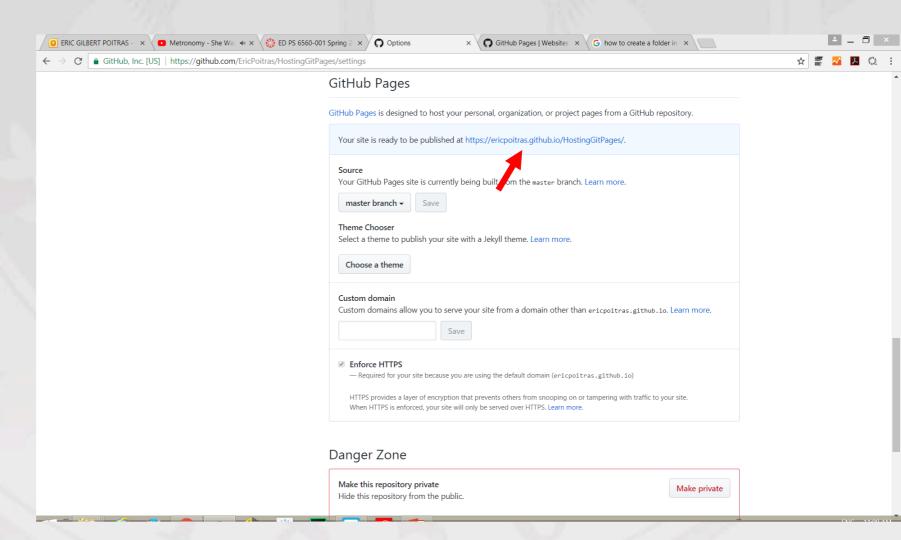
1. In the GitHub pages section, specify that you want to host the website from the master branch.

2. Select Save.





- 1. A confirmation message should appear with the url address of your site.
- 2. Navigate to the url address. Submit the url address via the Canvas course section to complete your first Activity #1 assignment.





In Preparation for Next Week

- Download and install the software you will need for next week
- Review the instructional videos in the Canvas module "In Preparation for Week 2... Learn About Photoshop"
- Sign up for an account in Codecademy. Complete the assigned module "Introduction to HTML"
- Skim the W3School reference on HTML we will refer to it often in the course – quick read through to familiarize yourself with these resources