

# Problem Set Two

**Due prior to 5:00 PM on Friday, February 12**

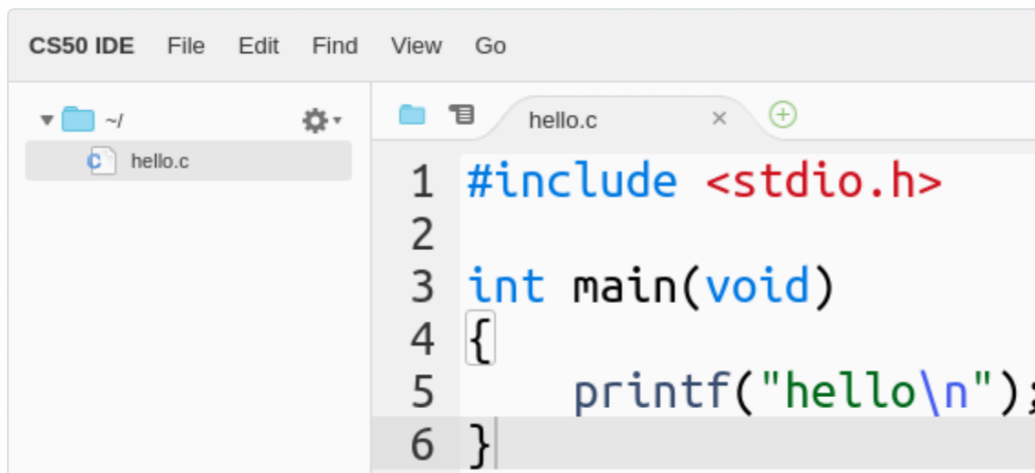
This assignment is worth 30 points.

Before you do anything else, make sure you have created an account for yourself on the website <http://ide.cs50.io> and on <http://github.com>. It is essential to use the Google Chrome browser.

The **ide.cs50.io** website will present a page that looks like this:

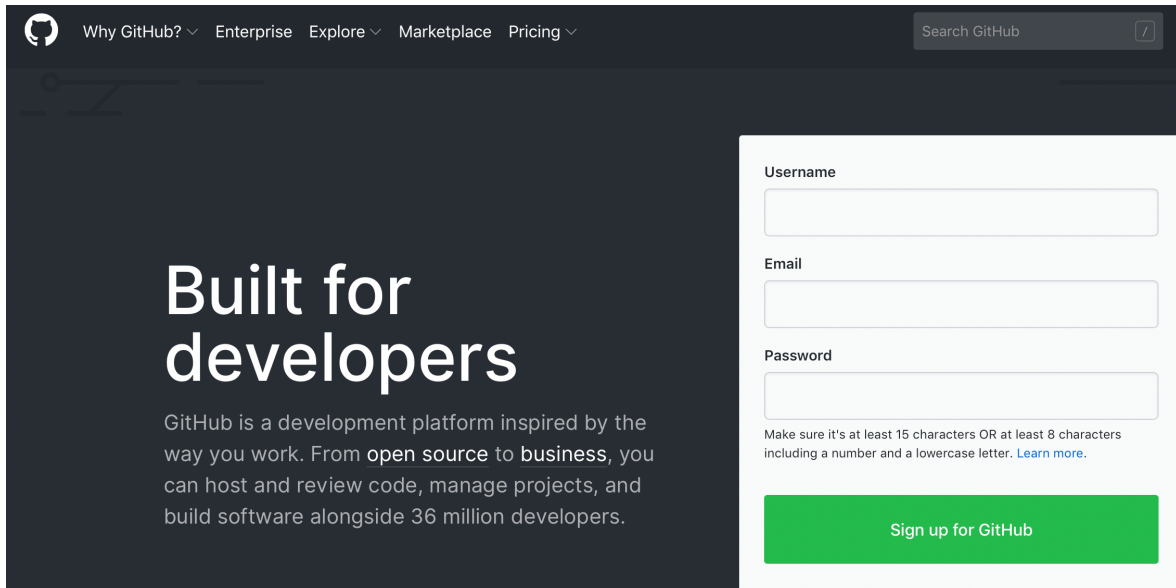
## CS50 IDE

Integrated development environment for students and teachers



At the bottom of the main page is a link that says "Check the [documentation](#) to get started or [Sign in with GitHub!](#)"

If you click the [Sign in with GitHub!](#) link, you will be taken to a page that allows you to create a free account on Github:

The image shows the GitHub sign-up page. On the left, there's a dark blue section with the GitHub logo and the text "Built for developers". Below this, it says "GitHub is a development platform inspired by the way you work. From open source to business, you can host and review code, manage projects, and build software alongside 36 million developers." On the right, there's a white sign-up form with fields for "Username", "Email", and "Password". Below the password field, there's a note: "Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. [Learn more.](#)". At the bottom of the form is a green button that says "Sign up for GitHub".

Why GitHub? ▾ Enterprise Explore ▾ Marketplace Pricing ▾ Search GitHub

# Built for developers

GitHub is a development platform inspired by the way you work. From [open source](#) to [business](#), you can host and review code, manage projects, and build software alongside 36 million developers.

Username

Email

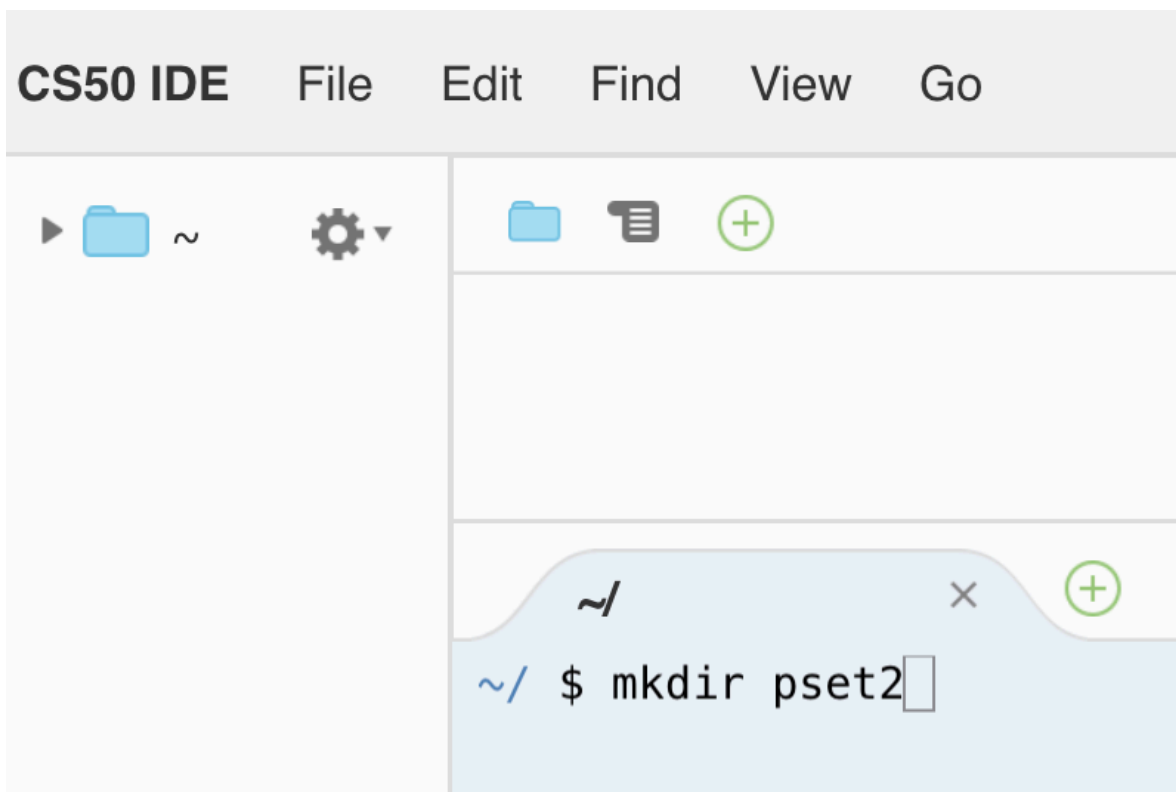
Password

Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. [Learn more.](#)

Sign up for GitHub

You will receive an email authorization to complete the creation of your *Github* account. After this has happened, you will be able to log in to [ide.cs50.io](#) very easily.

Once you have successfully signed in to [ide.cs50.io](#), you should create a new folder named **pset2** by typing the command **mkdir pset2** in the lower window:

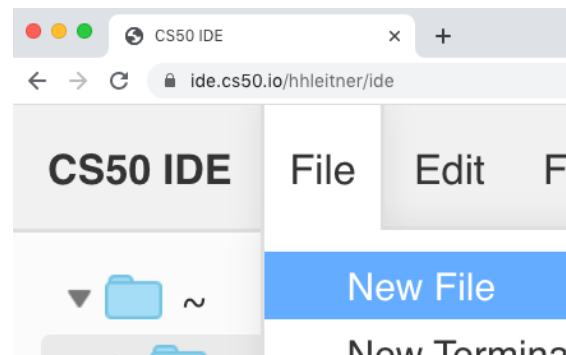




The command you just typed created a “subdirectory” or folder in your top level folder — which is where you will create files for this problem set. The lefthand side of your browser window should look like this:

*FINALLY, here’s the main focus of what you will be working on:* **You are to design an original website, using raw HTML commands** (as opposed to using software such as *Adobe Dreamweaver*, that automatically generates HTML). The content of your website could be personal or fictional.

You should create this website by using the simple built-in *ide.cs50.io* text editor to create your *HTML* files. You can easily create a file as shown below by going to the **File** menu and selecting *New File* as shown here:



When you save your files, be sure to locate them all within the **pset2** folder. If you forget to do so, you can later drag them into the correct place by using the graphical interface on the lefthand side of the display. Alternatively, you could instead create the files on your local computer’s hard drive, and later drag them into the **pset2** folder once you are done.

As you create your *HTML* files, you should be able to open them directly in a web browser (e.g., *Safari*, *Firefox*, *Chrome*, *Internet Explorer*) in order to verify that they are rendering properly. One way to make this happen, is to start a web server by typing precisely the following commands (shown underlined in a bold underlined typeface) in the lower terminal window:

```
~/ $ cd pset2
```

```
~/pset2/ $ http-server
```

```
Starting up http-server, serving ./
```

```
Available on:
```

```
https://d56dbb8a-93d7-42b9-b72a-0ca680a1251a-  
ide.cs50.xyz:8080
```

```
Hit CTRL-C to stop the server
```

- Note the public address of your website gets printed. Type this URL into a web browser, or just click the link. You will see a list of files in the **pset2** folder. Click the **index.html** file and the main page of your website will be displayed.
- Important: the main page of your website must be a file whose name is **index.html**. The other HTML files in your **pset2** folder can be *hypertext* links from the main page.

***At a minimum, your website must contain the following elements:***

- ◆ It must comprise at least *3 separate pages*, and these pages must contain navigation links to move between the other pages.
- ◆ It must contain at least *2 links* to “external” websites.
- ◆ It must contain at least one *heading* (e.g., a “title”).
- ◆ It must contain at least one *image* (preferably, a “jpg” type of file).
- ◆ It must contain at least one *list* (numbered or unnumbered).

For 2 points of *extra credit*, your website should contain at least one instance of original *Javascript* code, even if it’s just a simple prompt for the user to enter some information. For up to an additional 3 points of *extra credit*, produce a website that goes well beyond the minimum requirements stated above.

Note: if you have already created a personal webpage using HTML in the past, then create something new.

Submit all of the HTML and related files (e.g., images) as a .zip upload via *Gradescope* — the same way you submitted your *Scratch* assignment. Your website (and HTML code) will then be evaluated by the teaching assistants.

A good online resource for learning HTML is <http://www.w3schools.com/tags/default.asp> (described in lecture). **If you need help**, first try the course’s *Piazza* discussion board, available from the link on the lefthand side of the CSCI E-7 course website. If you prefer to make an in-person appointment with a teaching fellow or need some personal advice, try emailing one or more of the staff.

Finally, the teaching fellows will also be holding office hours to assist you — their office hours are posted on the CSCI E-7 course website (if you click a particular calendar entry you will see the LOCATION of the office hour).

*Have fun! A prize of some kind will be awarded to the creators of the two or three funniest/cutest/most interesting websites.*