

# Using a Chromebook for HTML/CSS/JavaScript Development

Presented by CoderDojo Denver

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Welcome to CoderDojo Denver! We're very excited that you've joined us.

In the past, we've asked students to bring a laptop with them to each CoderDojo session, and recently we've seen some students on Chromebooks, so we wanted to make sure that you had a set of instructions to follow to develop HTML, CSS and JavaScript as easily as others around you on a Windows or MacBook system.

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NOTE: These instructions are specific to Chromebooks, but the Chrome Dev Editor is available on Windows and MacBook systems as well! If you're on Windows or Mac, you can still follow these instructions, but any instructions about using "ALT-Click" will be different. On Windows, you can Right-Click, and on a Mac you can Ctrl-Click

# Getting Started

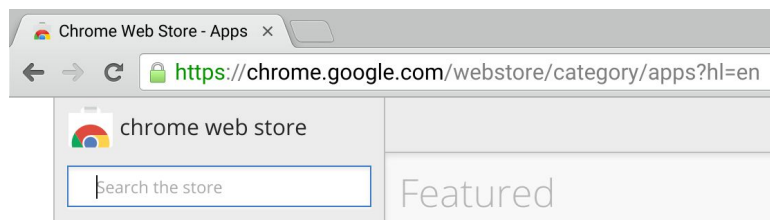
## Logging In to Your Chromebook

To use a Chromebook, you need to have a Google account, usually a Gmail account will do. When you power up your Chromebook, you'll see a login screen where you can choose your account (if it's your own Chromebook) or there will be a link or button at the bottom of the login page which says "Add User" which you can click to login into your Google account.

## Adding an Editor

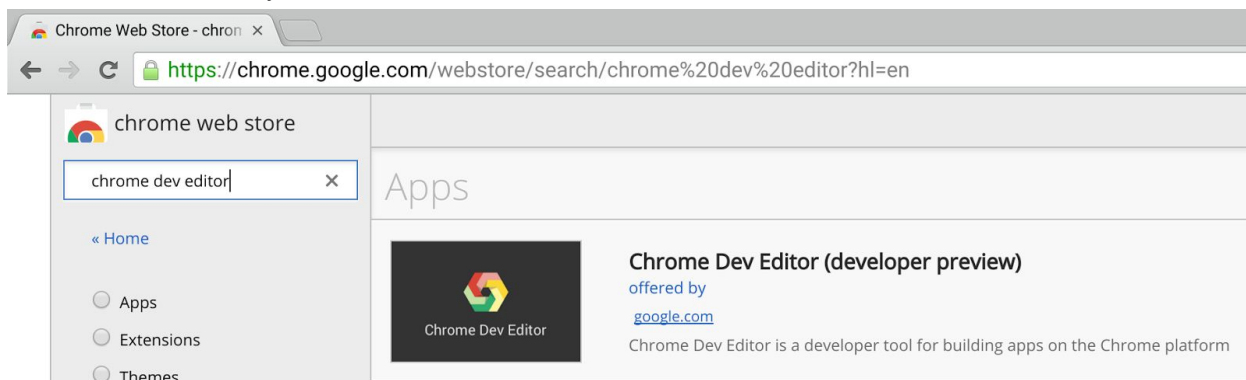
In order to modify the HTML, CSS or JavaScript files for each lesson, you will need a program, or application, which allows you to edit these files. Google created a great developer editor called the Chrome Dev Editor and gives it away for free, you just need to install it!

Now that you're logged in, open Google and search for "Chrome Web Store". The very top link you find will take you to a URL which will look like <https://chrome.google.com/webstore>



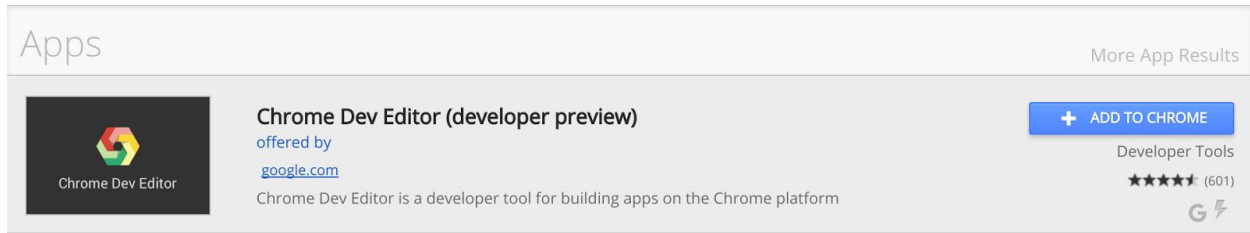
In the search area, type these words and then press Enter: **chrome dev editor**

Here's the correct one you want:

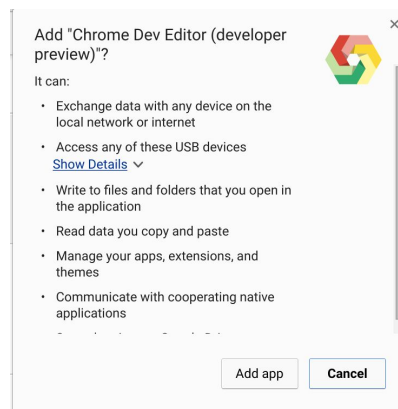


## Installing the Chrome Dev Editor

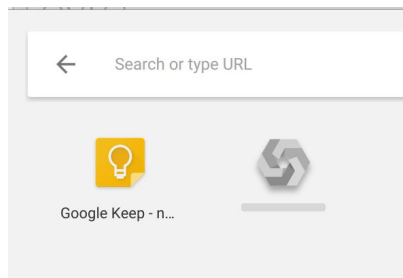
To install the Chrome Dev Editor, click on the “ADD TO CHROME” button on the right side:



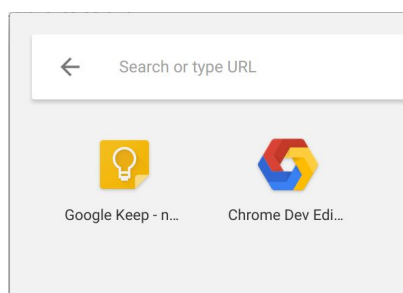
When you click on this button, you will see a new window asking if you're sure that you want to add this application. Click on the “Add app” button.



A new window will appear with a gray hexagon icon, this means that your Chromebook is downloading and installing the application:



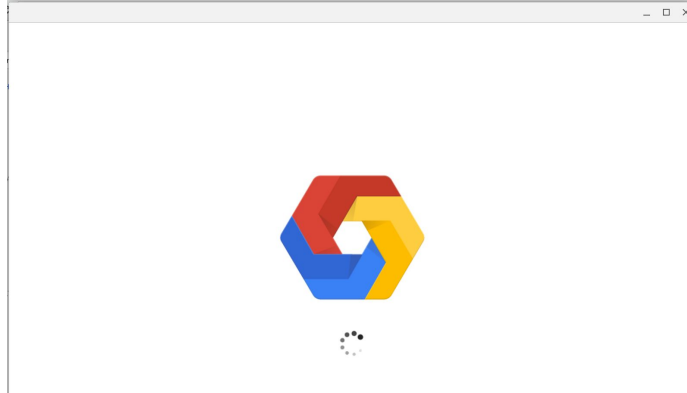
When it is finished installing, the icon will show all of its colors:



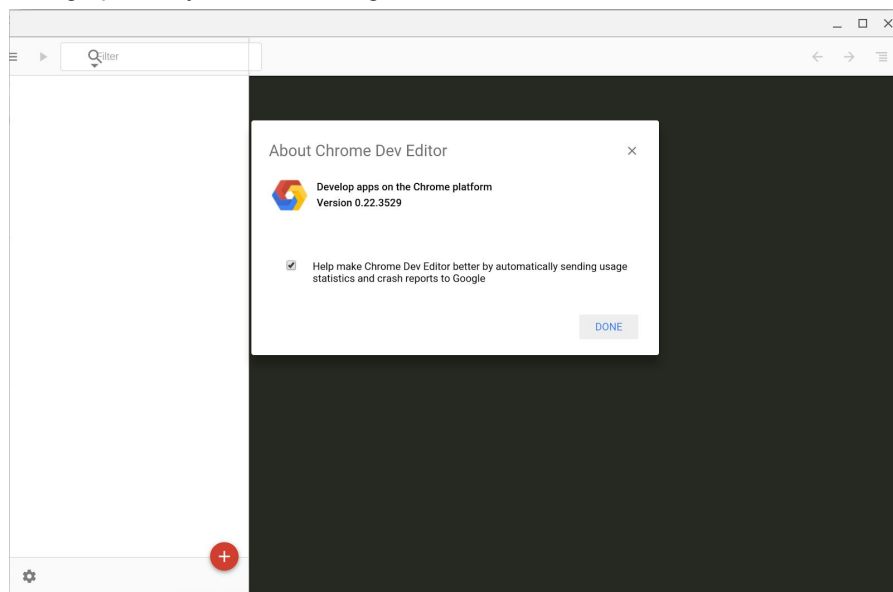
# Running the Chrome Dev Editor (CDE)

From that last window, we'll double-click on the "Chrome Dev Editor" icon to start the application. If you've already closed that window, click on the Search icon on your Chromebook toolbar and type the word **editor** and your Chromebook should find the application icon so you can click on it. This will start the application.

You will see a much larger window with a much larger picture of the Chrome Dev Editor logo:



When it's finished starting up, it may look something like this:



You'll only see this "About Chrome Dev Editor" window the very first time you run Chrome Dev Editor. In this window, it's asking if you'll allow your Chromebook to send some anonymous information about how you use Chrome Dev Editor back to Google. Don't worry -- it doesn't send any of your data files, and doesn't send anything about who you are! If you're not comfortable with this, you can click on the checkmark to turn it off. Click the **DONE** button to close the window.

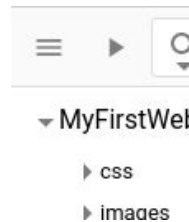
For the rest of this lesson, we're going to write the letters "**CDE**" to mean "Chrome Dev Editor" so we don't have to type the whole name over and over. If you see the letters "CDE", we're talking about Chrome Dev Editor.

## Downloading the CoderDojo Projects

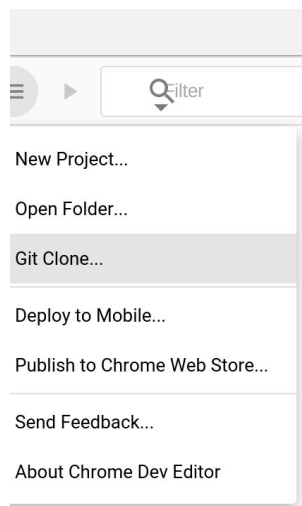
The first project that beginners work on at CoderDojo Denver is the “My First Website” project, so these instructions will teach you how to use CDE with that project. There are instructions on the very last page if you want to load a different project.

The instructions for Windows and MacBook laptops need you to download and unpack a ZIP file with lots of other complicated instructions. We’ve made something really easy for you to get started much faster on a Chromebook using CDE!

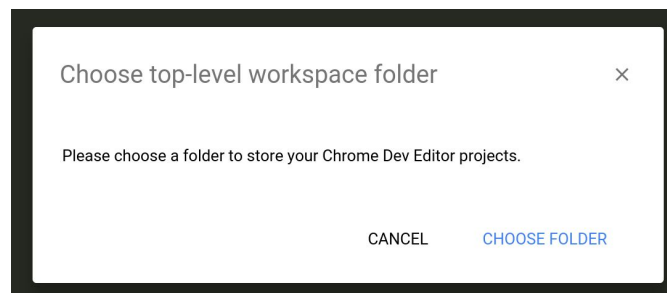
In the editor, at the top left corner, you’ll see an icon that looks like three lines stacked on top of each other. We call this a “**hamburger**” icon, because it kind of looks like the two pieces of a hamburger bun with the hamburger patty in the middle!



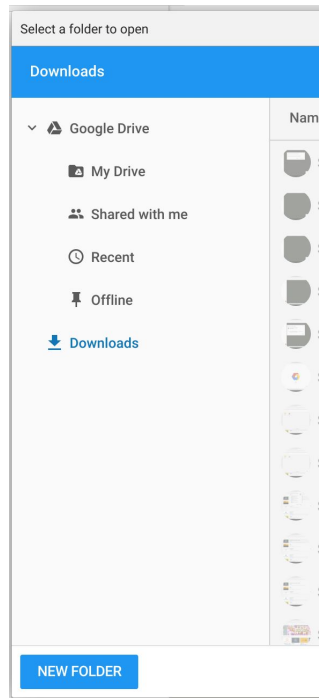
If you click on this “hamburger” icon, you’ll see a menu appear that looks like the next image. Choose the menu item called “**Git Clone...**” Don’t worry about what it means in this lesson, it’s just a super easy shortcut that we set up for our Chromebook students!



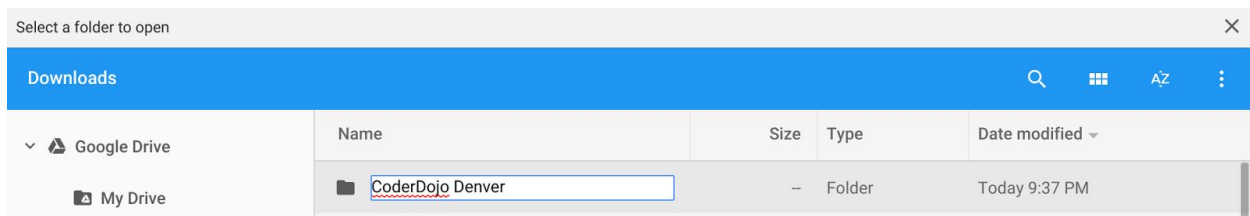
When you click on “Git Clone...” you’ll be asked to choose a “top-level workspace folder” where you’re going to save all of your work. You’ll only see this window one time, but we need to do this before we can continue.



Click on the 'CHOOSE FOLDER' words, and your Chromebook will show a new window, showing all of the files you have on your Chromebook. It may be showing you your Downloads folder similar to this:



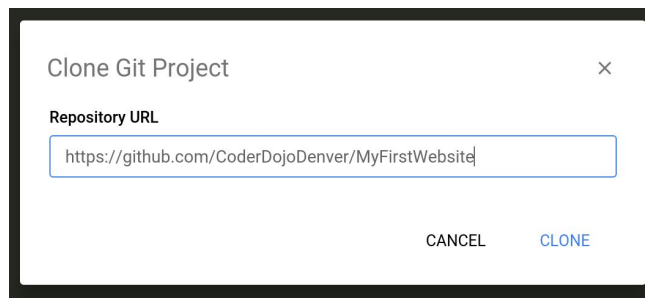
Let's click on the "Downloads" folder on the left just to be sure, and then click on the "**NEW FOLDER**" button at the bottom. You'll see a new place to type something at the top of that window. We're going to type the words "**CoderDojo Denver**" in that area, like the next picture, and then press the Enter key.



Once you hit Enter, double click on that new "CoderDojo Denver" folder, and click on the "OPEN" button at the bottom right corner. As soon as you click OPEN, you'll see another window asking you to type in a web site address. If you're going to work on "My First Website", this is the web address you need to enter:

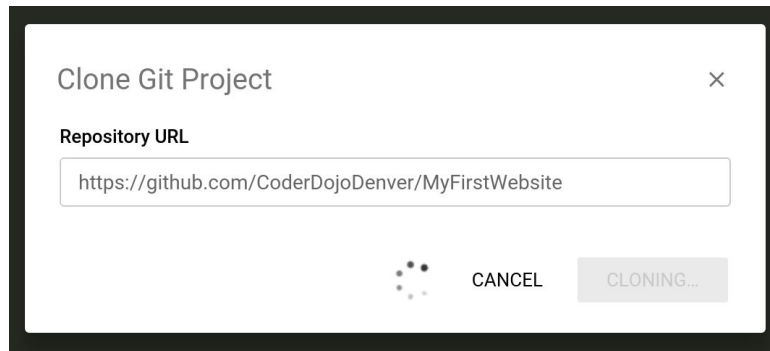
**<https://github.com/CoderDojoDenver/MyFirstWebsite>**

It should look like the picture below. Make sure that you type it exactly like this, with the Uppercase Letters or it won't work properly! Next, click on the word "**CLONE**"

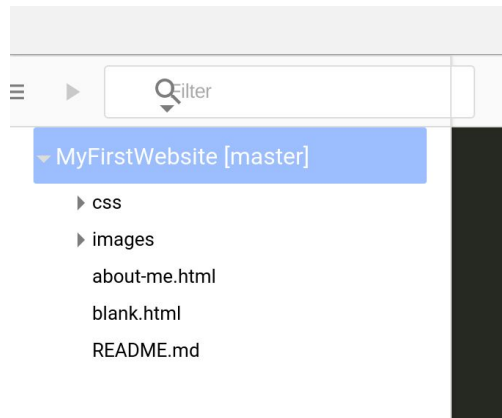


There are URLs at the very last page for the other CoderDojo Denver projects, so if you're not working on My First Website, you can go look at the last page to find the correct web address to type here.

CDE will show a spinning image that looks like a bunch of dots chasing each other. This tells us that your Chromebook is trying to download the project for us:



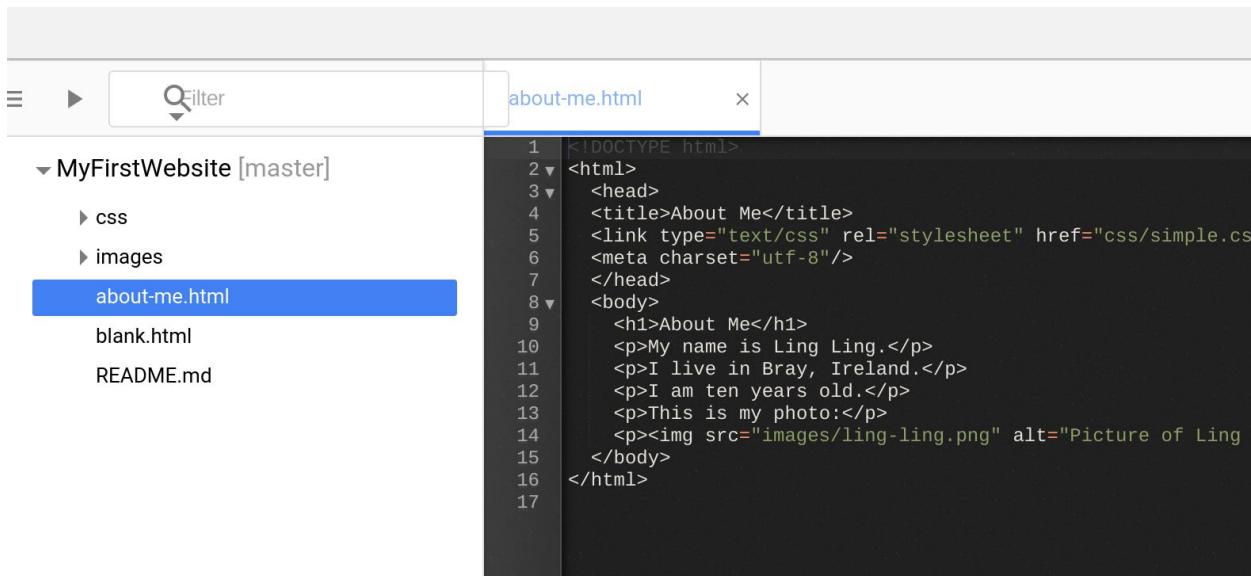
When it's all finished, you should see a bunch of files listed on the left side of your CDE window that look like this:



If that's NOT what you see, please ask a mentor for help!

## Editing Files in CDE

To edit the code in a file, just double-click on the file name in the list of files on the left side, and you'll see the code appear in the darker window on the right. For example, let's double-click on the file called “**about-me.html**”

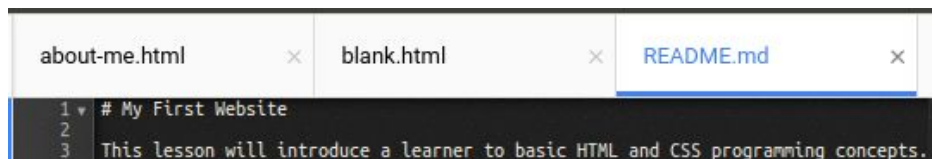


Go ahead and open a few files by double-clicking on “about-me.html” and “blank.html” and “README.md”

When you do this, you'll see their file names listed above the gray editor window, in “tabs” that have the file name and an ‘x’ icon. You can click on those tabs to switch to that file in the editor, and you can click the ‘x’ icon beside a filename to close the file.

If you open lots of files, you might see those tabs get smaller and squished, so it's a good idea to close files that you're not making changes to any more.

If you have more than one tab open, you'll see that one tab has a **blue line under the file name**. This shows you which tab is “**active**” that's the file you're editing right now. In the picture below, the “README.md” file is our “active” file:



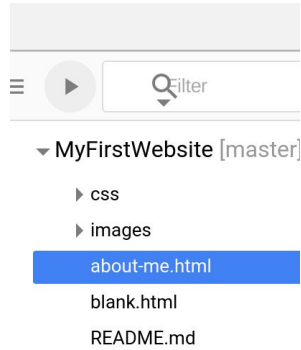
## Saving Your Work

After you make changes to a file, you need to hold down the CTRL key on the keyboard, and while you hold it down, press the ‘S’ key to “Save” your file. **You'll always need to Save your work before you can see any changes in your web browser!** If you have lots of files open, clicking a “tab” for another file will automatically save your work.

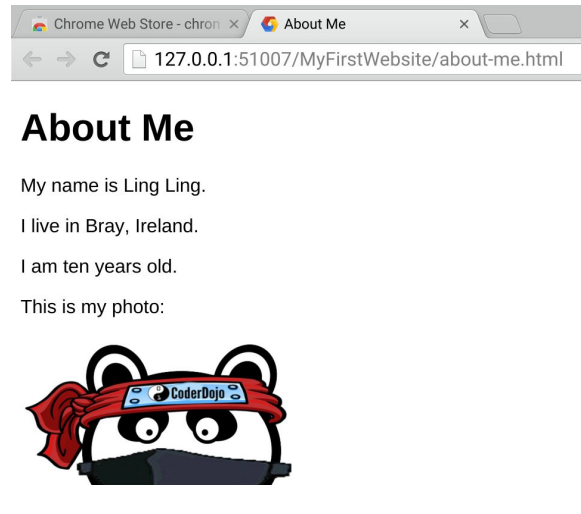


## Seeing Your Work in the Chrome Web Browser

Next to the “hamburger icon” at the top left corner of the CDE window, you’ll see an icon that looks like a triangle. We call this the “**Play**” icon, and it will load your “active” page in a browser. Double-click on the “about-me.html” file on the left side to make sure that’s our “active” editor tab, and then click the Play button.



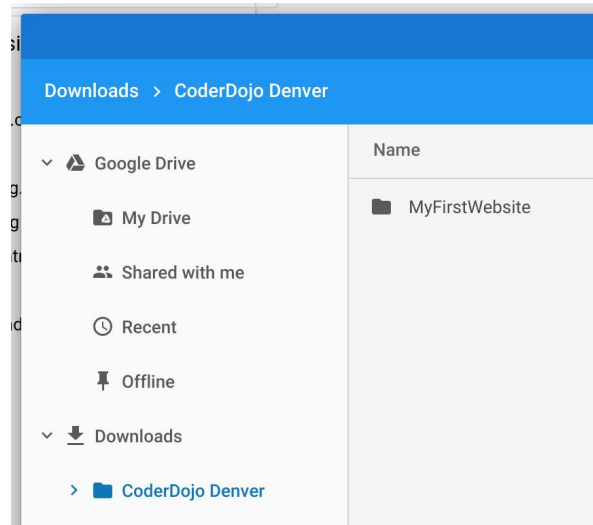
You’ll notice that the window changes to your Chrome Web Browser and shows you the “about-me.html” page:



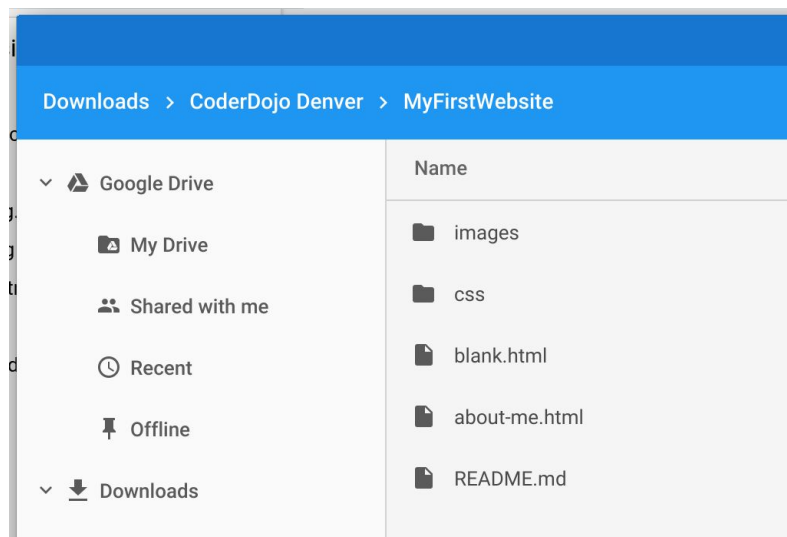
## Making New Files to Edit in CDE

In the instructions for many of our projects, such as “My First Website”, you have to create new files and sometimes create new folders. This is a little bit tricky on a Chromebook.

To get started, you can click on the “Search” icon on your Chromebook toolbar and type the word “Files” and press Enter. You should see a new window open that looks something like the next picture. Click on the Downloads folder on the left side, then double-click on the “CoderDojo Denver” folder you made, then double-click on the project folder you want to work with. In this example, we’re showing you the “MyFirstWebsite” folder:



You should see all of your files, like this:

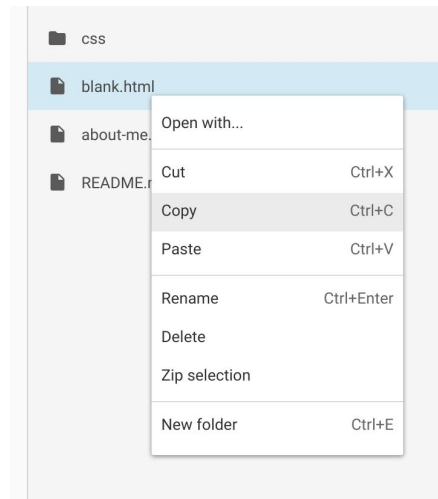


Let's copy the "blank.html" file to a new file called "index.html".

Click ONE time on the file "blank.html".

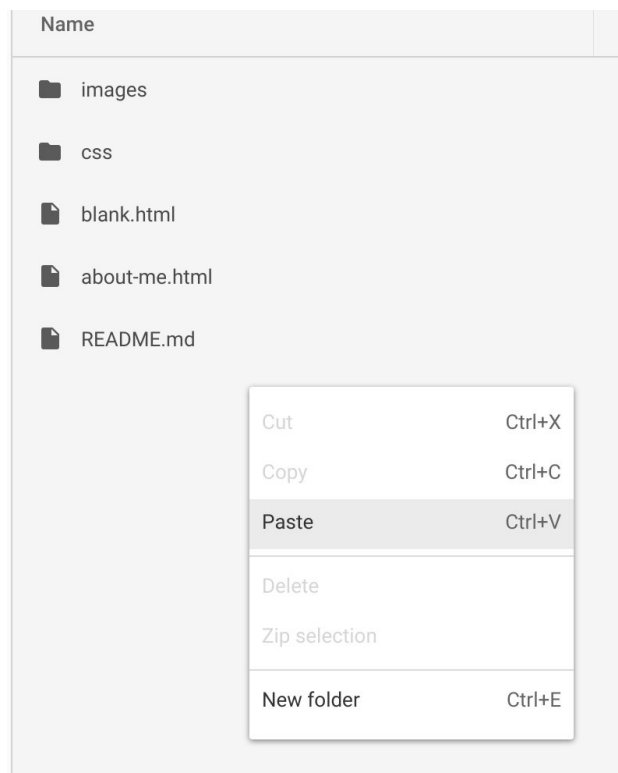
Next, hold down the "**ALT**" key on your keyboard, and click ONE time on "blank.html" again.

You should see a menu open that looks like this:

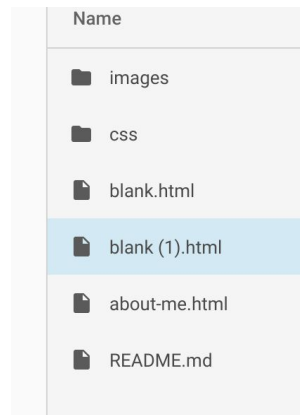


Click on "**Copy**" in that menu.

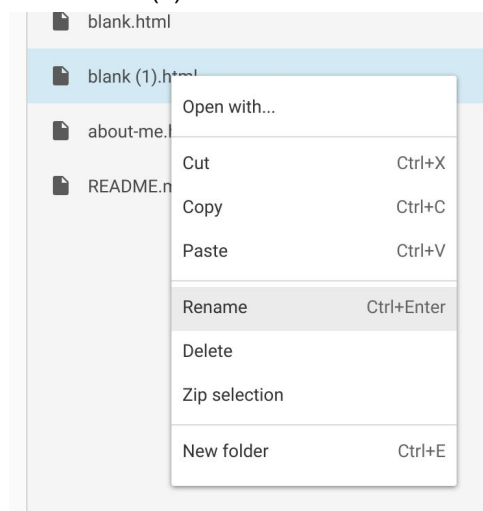
Next, find an empty area under the "README.md" file and hold down the **ALT** key again and click on that empty area. You should see a menu that looks like this:



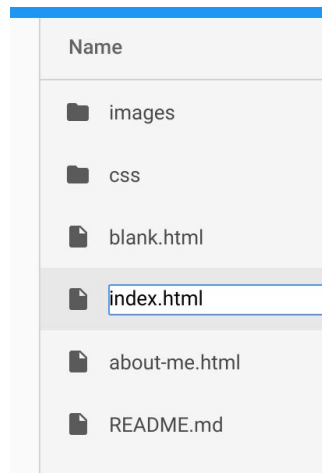
Choose **“Paste”** from the menu, and you’ll see a new file created called “blank (1).html”:



Hold down the ALT key again and click on “blank (1).html” and choose “Rename” from the menu:



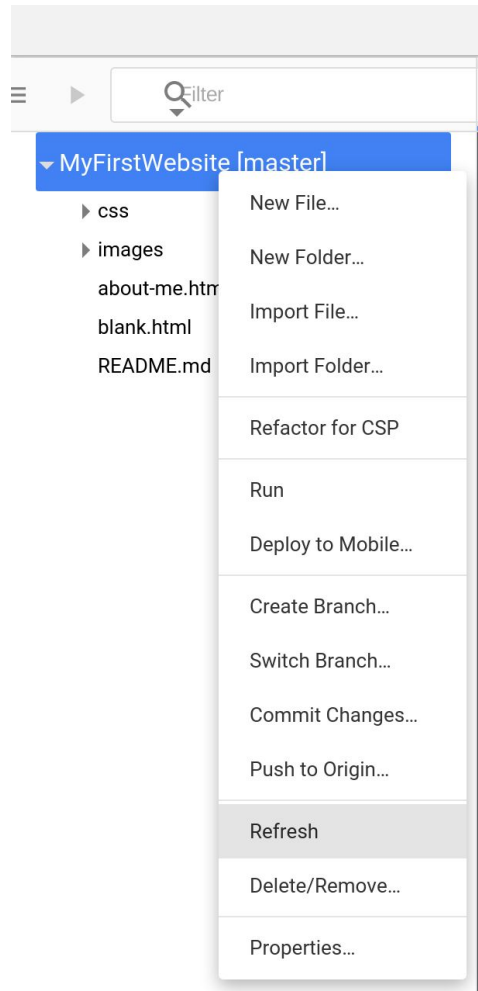
Name your file **index.html** and press Enter. (Your Chromebook may keep the “.html” part of the filename for you)



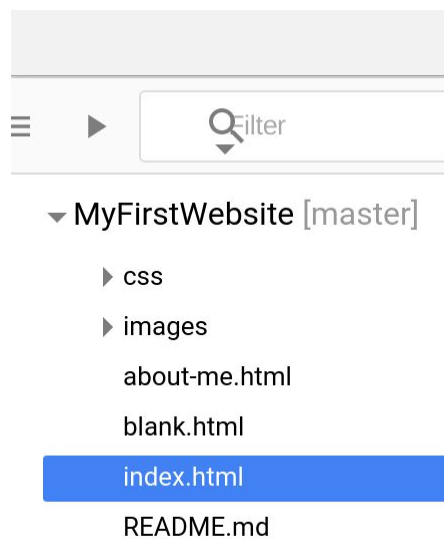
Now, hold down the ALT key one more time and press the TAB key until you see your CDE window again, then let go of the ALT key.

**Wait a minute -- Chrome Dev Editor may not show your new “index.html” file -- where is it???**

If you don't see a new file that you've just created, you can hold down the ALT key and click on “**MyFirstWebsite [master]**” and you'll see a menu where you can “Refresh” the list of files:



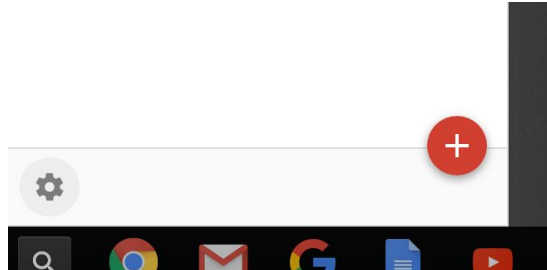
Whew! Your index.html file should be there now!



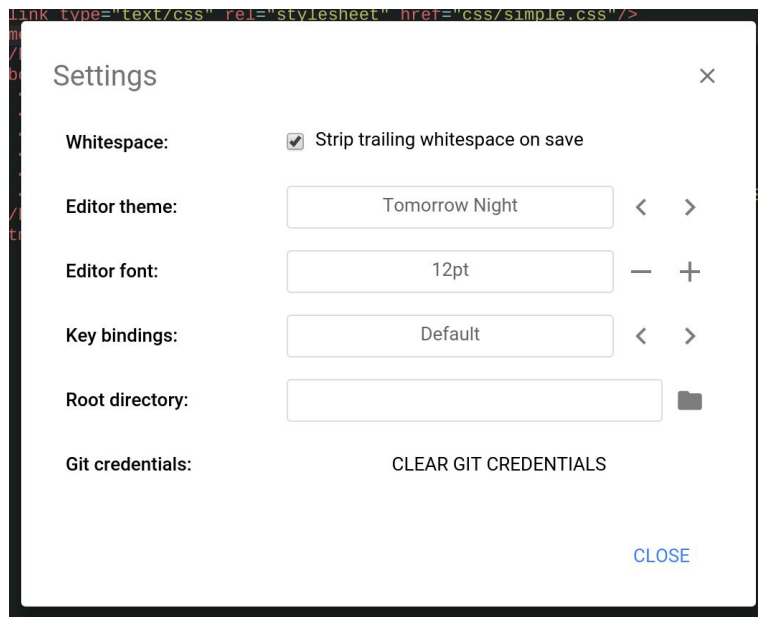
## Changing How CDE Looks

You'll notice that as you write HTML, CSS and JavaScript code that CDE sometimes writes the code in different colors. If you don't like the dark gray editor background color, or want some fancier colors on the HTML, CSS or JavaScript code, you can change how CDE looks!

At the bottom left corner of CDE you'll see a **“Gear”** icon. This will open the Settings for CDE. Go ahead and click on the “gear” icon.



You'll see a window with settings. You can change a few things about the editor, but to change the colors of CDE, you'll click the arrow icons < and > for the **“Editor theme”**. I like the “Tomorrow Night” theme myself, but you can choose whichever one you like.



You probably don't need to change the other settings other than the “Editor font” size to be bigger or smaller. Click on the word **“CLOSE”** when you're finished making changes.

# Other CoderDojo Projects

As we mentioned earlier, these instructions showed students how to get the project files for “My First Website” from a GitHub.com web address, but CoderDojo Denver has many other projects, and so do many other CoderDojo groups around the world. (their instructions may not be in English, though!)

To get a current list of all of our projects, you can visit our CoderDojo Denver organization on GitHub at this web address:

<https://github.com/CoderDojoDenver>

If you want to load the code for other HTML/CSS or JavaScript projects, here is a list of our current projects. The GitHub web address above may be more up to date, though, so please check it first, or ask for help.

## Intermediate HTML and CSS

This project is the next lesson after “My First Website” and the “Git Clone” address for CDE is:

**<https://github.com/CoderDojoDenver/Intermediate-HTML-CSS>**

## Beginner JavaScript

This project teaches students about the JavaScript programming language. The “Git Clone” address for CDE is:

**<https://github.com/CoderDojoDenver/Beginner-JavaScript>**

## Intermediate JavaScript

This is the second part of the JavaScript series and its “Git Clone” address for CDE is:

**<https://github.com/CoderDojoDenver/Intermediate-JavaScript>**

## e-Card Sushi

The CoderDojo group in Iowa City created an e-card project that some students have worked with in our Denver group. The “Git Clone” address for CDE is:

**<https://github.com/CoderDojoDenver/ecard-sushi>**

## Beginning Databases

The Databases instructions can't be followed on a Chromebook, but if you want to download the project in CDE, you can still open the instructions and use a web site like [www.sqlfiddle.com](http://www.sqlfiddle.com) to run the commands. The “Git Clone” address for this project is:

**<https://github.com/CoderDojoDenver/Beginner-Databases>**