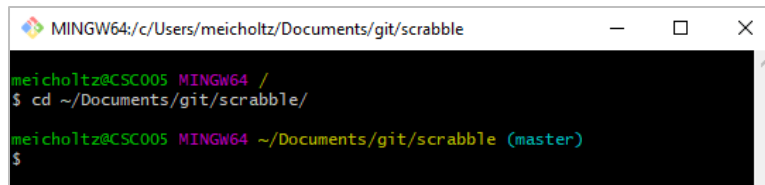


# How to label Scrabble boards

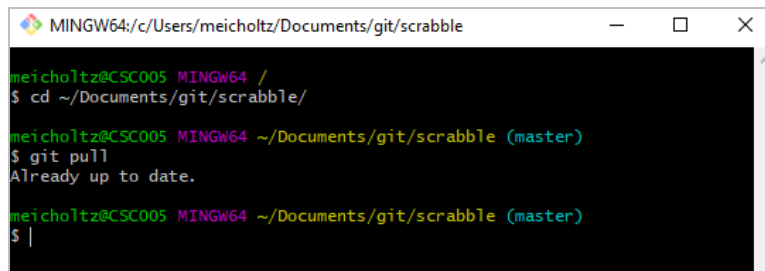
1. Open Git Bash.



2. Change to the root directory of the Scrabble git repository using the `cd` command.  
(NOTE: Your path may be different from the one listed below)



3. If you have done everything correctly, you should see the light blue text "(master)" as above. Now, make sure you have "pulled" the latest code to your local repository. It will either say you are "Already up to date." or it will print a bunch of text describing the new code that is being pulled to your local copy.



4. Now you are ready to start labeling Scrabble boards. To do so, run the following command:

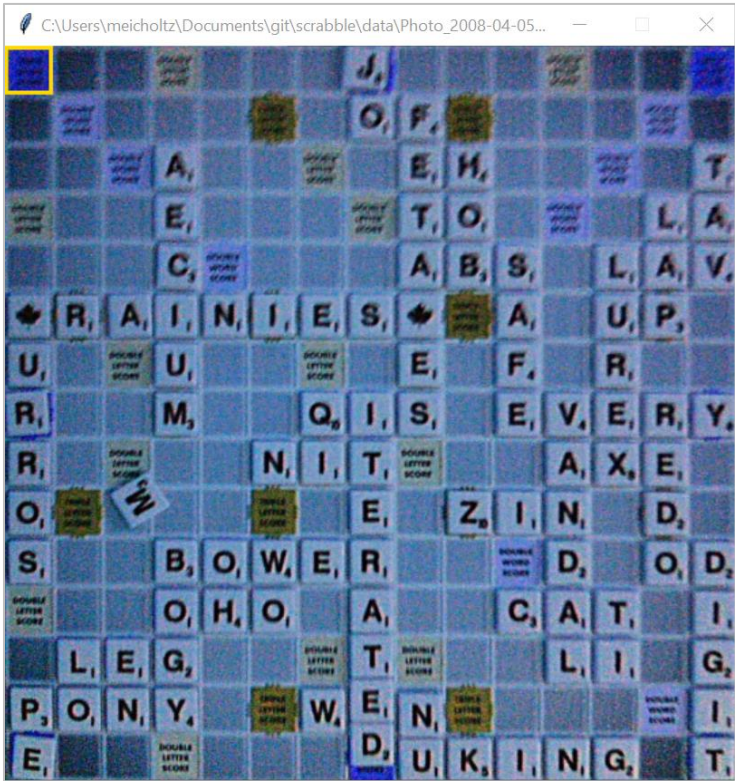
```
python labelboards.py -l labels/labels.txt -s -u samantha
```

Let's break down what is happening in this command...

python	this tells Git Bash that you want to use python to run something
labelboards.py	this is the name of the python file you want to run
-l labels/labels.txt	this is an input argument to the python file; specifically, this tells the program where to find the labeled corners of Scrabble boards <i>NOTE: those are the lowercase letter 'L' not the number '1'</i>
-s	this is also an input argument that tells the program to scroll (i.e. when you type a letter, it will automatically move to the next tile)
-u samantha	this input argument tells the program which user is doing the labeling (so that we don't duplicate work!)

	Valid user strings include: alexander, alex, a, af, afaus, faus (for Alexander Faus) matthew, matt, m, me, meicholtz, eicholtz (for Matt Eicholtz) samantha, sam, s, sl, slynch, lynch (for Samantha Lynch) guest (for anyone not listed above)
--	---

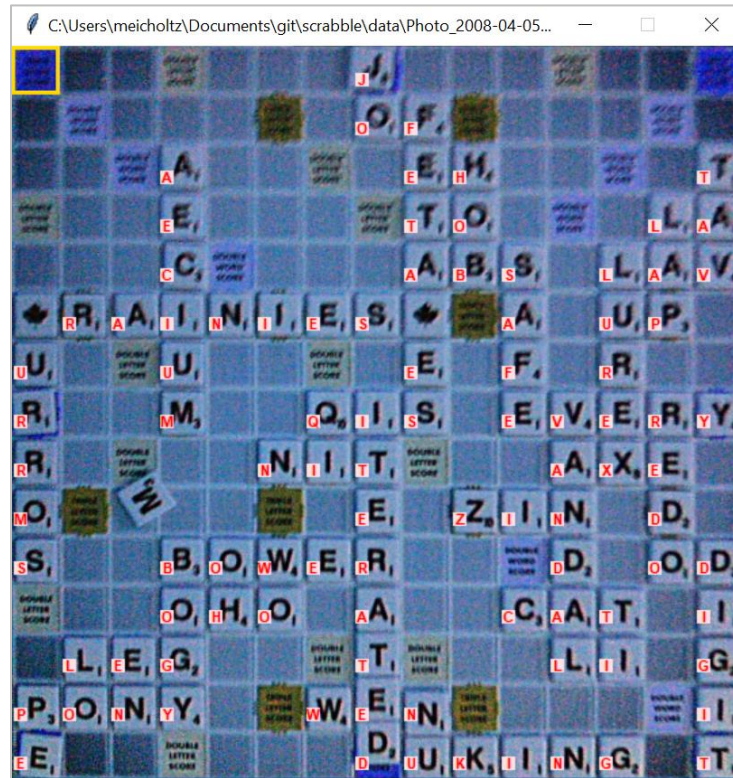
5. If you typed the command above correctly, a window should appear with a sample Scrabble board pictured as well as a yellow square in the top-left corner.



The yellow square indicates which letter you are currently labeling. You can use the following keyboard and mouse controls to label the image:

mouse click	clicking on the board will move the yellow square to where you clicked
left arrow, backspace	move the yellow square one tile to the left
right arrow, spacebar	move the yellow square one tile to the right
up arrow	move the yellow square one tile up
down arrow	move the yellow square one tile down
Delete	delete the current label
Ø	delete all board labels
ABC...XYZ	assign a given letter to the current tile
Enter (Return)	save the board labels <i>IMPORTANT: Only do this <u>after all letters have been assigned!</u></i>
Esc	quit the program (the current board will not be saved)

The basic workflow is to navigate the image, labeling the letters using the corresponding keys, until the entire board has been labeled.



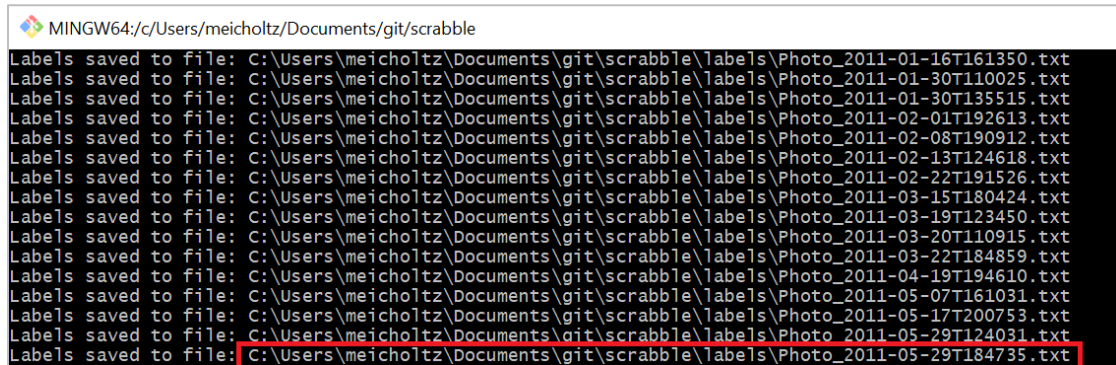
Notice how the labels appear as tiny red letters in the bottom-left of each tile that has been labeled. Also, not how the "M" on the left that is misplaced on the board does not get a label. In general, misplaced or severely crooked tiles do not need to be labeled.

After the board looks like the image above, hit Enter on your keyboard and a new board should appear.

**\*\*\*IMPORTANT\*\*\***

Suppose you accidentally hit Enter *before* you were finishing labeling the entire board...  
What should you do?

First, hit Esc to exit the program. Then, look at the Git Bash window and you should see output that looks somewhat like this:



```
MINGW64:/c:/Users/meicholtz/Documents/git/scrabble
Labels saved to file: C:\Users\meicholtz\Documents\git\scrabble\labels\Photo_2011-01-16T161350.txt
Labels saved to file: C:\Users\meicholtz\Documents\git\scrabble\labels\Photo_2011-01-30T110025.txt
Labels saved to file: C:\Users\meicholtz\Documents\git\scrabble\labels\Photo_2011-01-30T135515.txt
Labels saved to file: C:\Users\meicholtz\Documents\git\scrabble\labels\Photo_2011-02-01T192613.txt
Labels saved to file: C:\Users\meicholtz\Documents\git\scrabble\labels\Photo_2011-02-08T190912.txt
Labels saved to file: C:\Users\meicholtz\Documents\git\scrabble\labels\Photo_2011-02-13T124618.txt
Labels saved to file: C:\Users\meicholtz\Documents\git\scrabble\labels\Photo_2011-02-22T191526.txt
Labels saved to file: C:\Users\meicholtz\Documents\git\scrabble\labels\Photo_2011-03-15T180424.txt
Labels saved to file: C:\Users\meicholtz\Documents\git\scrabble\labels\Photo_2011-03-19T123450.txt
Labels saved to file: C:\Users\meicholtz\Documents\git\scrabble\labels\Photo_2011-03-20T110915.txt
Labels saved to file: C:\Users\meicholtz\Documents\git\scrabble\labels\Photo_2011-03-22T184859.txt
Labels saved to file: C:\Users\meicholtz\Documents\git\scrabble\labels\Photo_2011-04-19T194610.txt
Labels saved to file: C:\Users\meicholtz\Documents\git\scrabble\labels\Photo_2011-05-07T161031.txt
Labels saved to file: C:\Users\meicholtz\Documents\git\scrabble\labels\Photo_2011-05-17T200753.txt
Labels saved to file: C:\Users\meicholtz\Documents\git\scrabble\labels\Photo_2011-05-29T124031.txt
Labels saved to file: C:\Users\meicholtz\Documents\git\scrabble\labels\Photo_2011-05-29T184735.txt
```

Locate the file that you just labeled (highlighted in red above). Then, manually navigate to that folder using the File Explorer and delete the text file. This will ensure that you label it again when you rerun the code.