

Introduction to Unmanned Ground Vehicles

Instructor: Micho Radovnikovich

Email: mtradovn@oakland.edu

ECE 495/595 – Winter 2017

Homework #1 – Pulling and Pushing a Repository

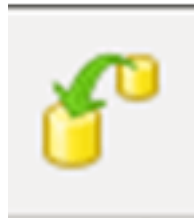
Due: Wednesday, January 11th

The purpose of this assignment is to become familiar with TortoiseHg, as well as to introduce the homework submission procedure that will be used throughout the course. More details about the basic functionality of Mercurial and TortoiseHg can be found in the tutorial document entitled **Mercurial Concepts**.



Setting up all the software is a prerequisite for this assignment. Be sure to have completed the instructions found in the tutorial document **Computer Setup Tutorial**.

Step 1 – Pull Homework #1 Files

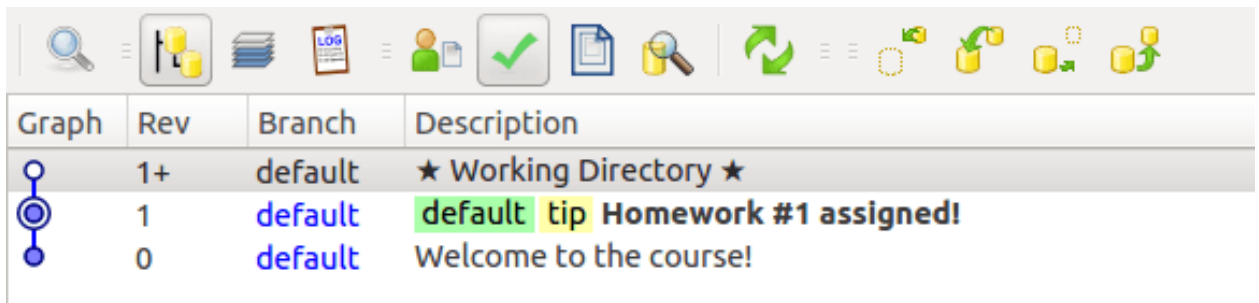
1. Open TortoiseHg, double click on the **ugv_course** repo, and click the **Pull Incoming Changes** button:



2. You should now see something like this:

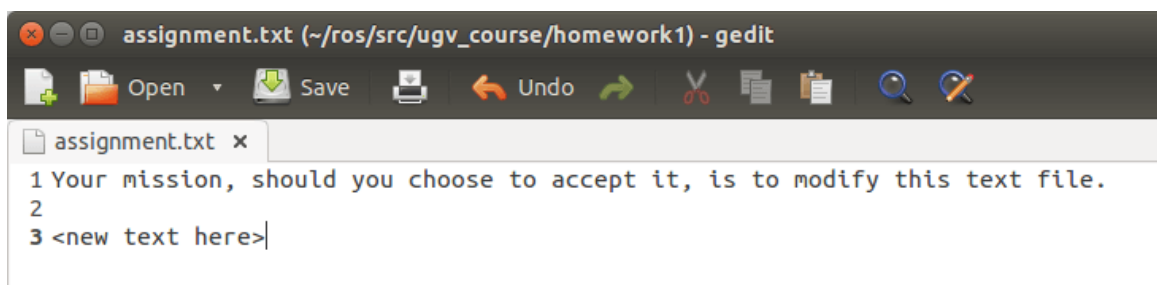
			
Graph	Rev	Branch	Description
	0+	default	★ Working Directory ★ Not a head revision!
	1	default	default tip Homework #1 assigned!
	0	default	Welcome to the course!

3. Right-click the **Homework #1 assigned!** revision and update to it:



Step 2 – Edit a Text File

1. In the repository folder on your computer, you should now find a **homework1** folder, with a text file inside.
2. Open **assignment.txt** in the **gedit** text editor, add some text of your choice on a new line, and save it.

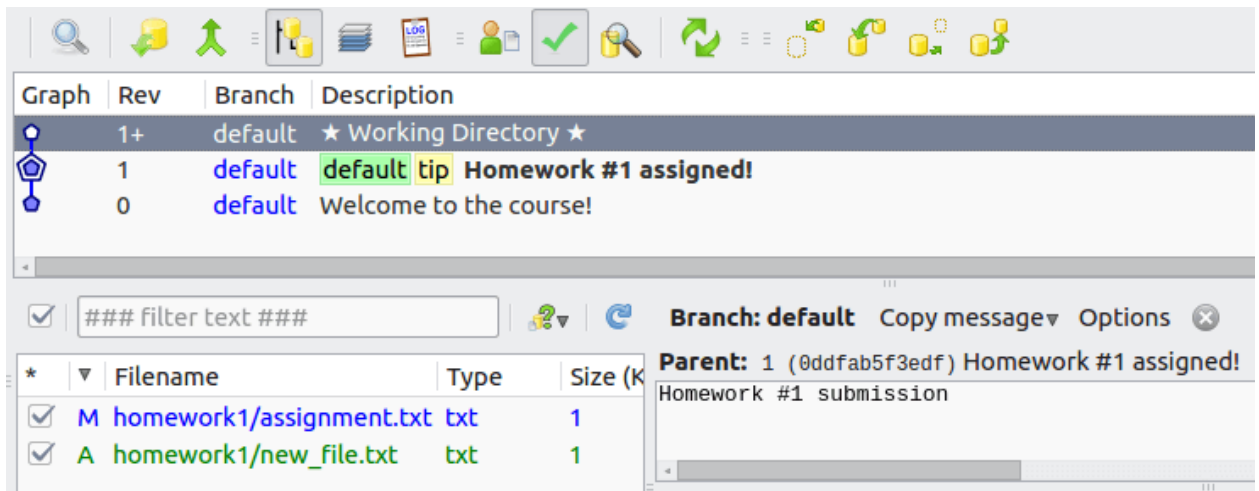


Step 3 – Add a New File

1. In the **homework1** folder, create a new file called **new_file.txt**.
2. Add some more text of your choice to **new_file.txt** and save it.

Step 4 – Commit and Push

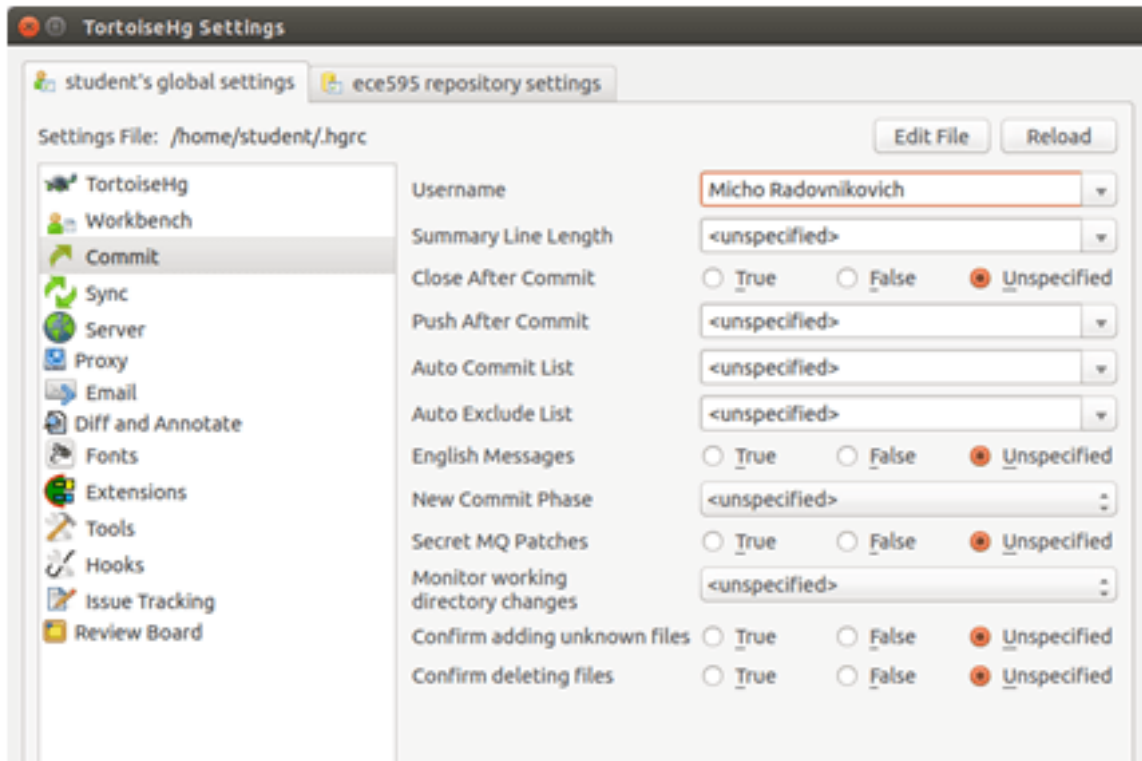
1. Back in TortoiseHg, click the refresh button to see something like:



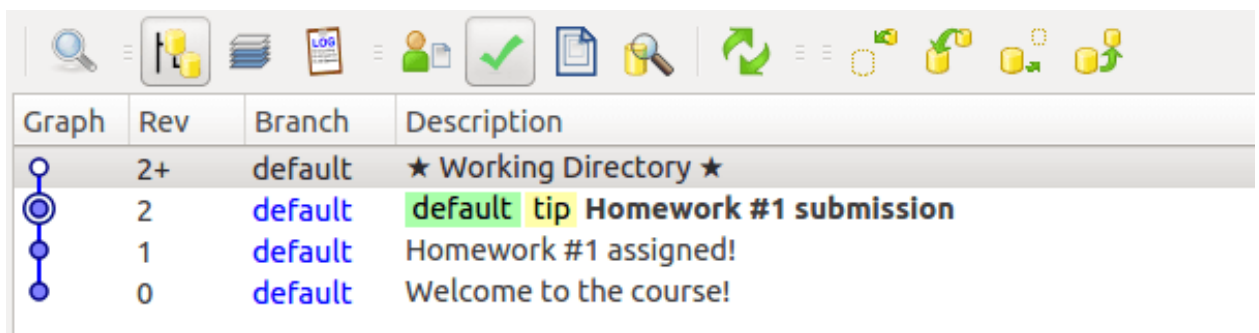
You'll see an "M" at the bottom next to **assignment.txt**. This means that there are local modifications to this file that haven't been committed into the repository yet. There will also be a "?" next to **new_file.txt**. This indicates that it is an **unversioned** file, which means it hasn't been added to the repository yet. Right click the file name and click "Add". It should turn green and show an "A".

The checkboxes next to each file selects the file for commit. This allows you to commit only a subset of the changes if you want. For this assignment, make sure both files are checked.

2. Add the commit message **Homework #1 submission** in the text box next to the list of modifications, and click **Commit**. TortoiseHg might ask you to **identify yourself to Mercurial**. Do this by simply putting your name in the **Username** box in the TortoiseHg global settings window:



After the commit is done, you should see:



At this point, the commit has only been made to your local clone of the main repository on BitBucket. The next step is to push the changes so that the main repository gets them:



3. Enter your BitBucket password when prompted, and then you should see something about the push being completed.
4. You're done! Be sure to check your email for a notification of my contributing some feedback.