Data Scientist's Toolbox Project Tutorial

By: Matt Marchand Last Updated: 7/19/2014

I'm new to Git Bash and GitHub so I thought I'd write this tutorial as a reference for myself, though maybe it can help others, too.

This tutorial makes the following assumptions:

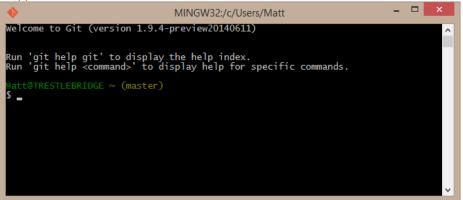
- You already watched all the lectures and did all the guizzes
- You already have GitBash installed
- You already have a GitHub account created
- You have already completed the course project phase where you created a repository ("repo" called "datasciencecoursera"

Note: I'm doing this on a Windows 8.1 PC. If you are using a Mac or a Linux system (or possibly with an older revision of Windows), you may see different folder structures get created in your local filesystem.

Start by creating the HelloWord.md file. It doesn't matter where you put this file for now.

Part 1: Create and set up your local repo

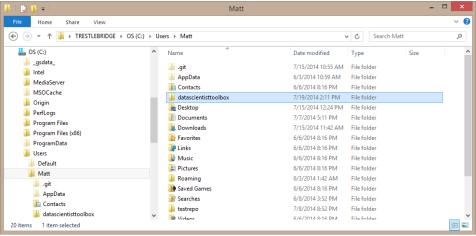
1) Open the GitBash CLI application



2) Create a directory on the GitBash command line. You can use whatever name you like, but I created one called datascientisttoolbox so I will use that here:

mkdir ~/datascientisttoolbox

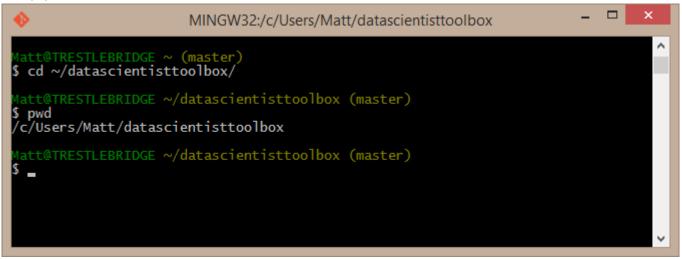
Note that this creates a folder in your c:\Users\WINDOWSUSERNAME folder by default! You can change to any folder on your system that you want in GitBash first.



3) Change to that directory:

cd ~/datascientisttoolbox

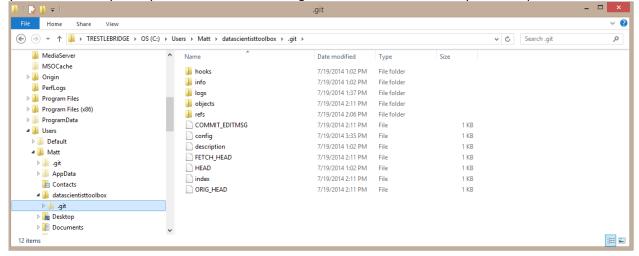
This changes the GitBash CLI to be operating with **datascientisttoolbox** as the working directory. You can run **pwd** to verify this.



4) Initialize the directory as a repo:

git init

This creates the .git repo substructure underneath the datascientist toolbox directory. The .git folder may be hidden, so if you want to see it you may need to enable the viewing of hidden files and folders in your File Explorer.



5) Point the local repo to your remote repo. The ACCOUNT_NAME and REPO_NAME will be unique to you, although if you followed the project directions the REPO_NAME will simply be "datasciencecoursera":

git remote add origin https://github.com/ACCOUNT_NAME/REPO_NAME

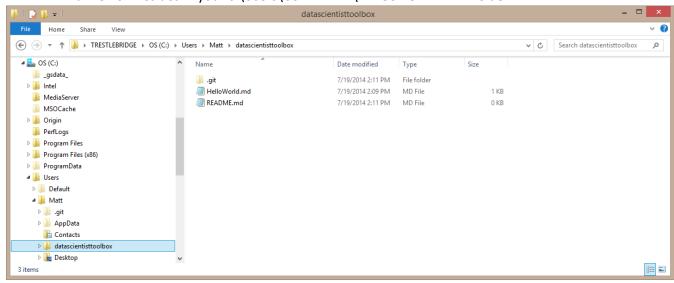
example: git remote add origin https://github.com/MatticusCaesar/datasciencecoursera

Part 2: Getting the file into the remote repo

- 6) Copy your **HelloWorld.md** file (or whatever other files you happen to want to upload/commit) into the datascientisttoolbox folder using File Explorer or whatever method you prefer.
- 7) Sync your remote repo with the local repo:

```
git pull https://github.com/ACCOUNT_NAME/REPO_NAME
```

This pulls all files to your local repository. If you did the earlier parts of the project correctly, you'll see that the **README.md** file now resides in your c:\Users\USERNAME\REPOSITORYNAME folder:



8) Add the HelloWorld.md to the queue for committing. Use "." as shorthand for adding all files (a wildcard), or you can specify explicit filenames separated by a space:

```
git add .
Or
git add HelloWorld.md
```

9) Commit the changes. Use the -m parameter to add a "Change message".

git commit -m "I'm committing the HelloWorld.md file"

```
MINGW32:/c/Users/Matt/datascientisttoolbox

Matt@TRESTLEBRIDGE ~/datascientisttoolbox (master)

pwd
/c/Users/Matt/datascientisttoolbox

Matt@TRESTLEBRIDGE ~/datascientisttoolbox (master)

git add .

Matt@TRESTLEBRIDGE ~/datascientisttoolbox (master)

git commit -m "readded Helloworld.md file"

[master fe72275] readded Helloworld.md file
1 file changed, 1 insertion(+)

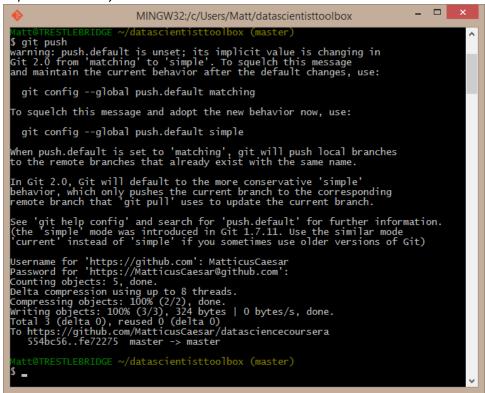
Matt@TRESTLEBRIDGE ~/datascientisttoolbox (master)

$ ______
```

10) Upload it all to the remote repo on GitHub:

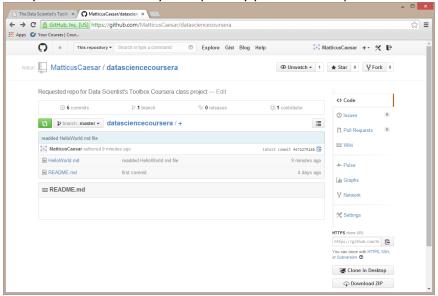
git push

Note: You will be asked to authenticate to your GitHub account when you do this, so make sure you have your accountname and password handy:

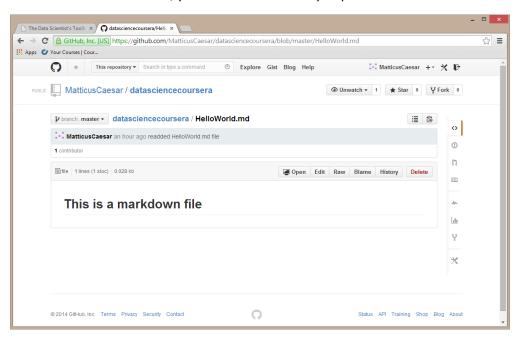


Part 3 – Verifying success

That should be it! If you use your browser to visit your repository you'll see the uploaded file:



If you click the link for the HelloWorld.md file, you'll see the contents you put in.



You can now copy your URL listed in the browser to do that phase of the assignment on the Coursera Data Scientist's Toolbox class assignment page.