Git Overview

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1 Useful git commands

Continue from where stashed

REMOTE refers to the repository. LOCAL refers to a file or branch on your machine. Note that local branches will not be added to the repository unless they are pushed. To work with a remote-tracking branch, you can pull from it to a local branch.

Please do not commit anything other than source code (i.e., do not commit any observation or CSV files generated from simulations). Also, do not leave the commit message empty.

Branching	
List all (local) branches	git branch
List all (local + remote) branches	git branch -a
Check out (switch to) a (local) branch	git checkout <my branch=""></my>
Create/checkout a new (local) branch	git checkout -b <new branch="" name=""></new>
Create/checkout branch to track remote one	<pre>git checkout -t origin/<remote branch=""></remote></pre>
Update list of all branches	git fetch
Merge from local branch to checked-out branch	git merge <branch from="" merge="" to=""></branch>
Pulling	
Pull changes from master branch on remote	git pull origin master
and merge into checked-out branch	
Pull from a branch on the remote	git pull origin <remote branch=""></remote>
Adding/removing/committing	
Check status of checked-out branch	git status
Add a file or folder to be committed	git add <file folder="" name=""></file>
Remove a file	git rm <file name=""></file>
Commit a file to the checked-out branch	git commit -m " <commit message="">"</commit>
	(git commit will open an editor)
Push a branch to the repository	git push origin <my branch=""></my>
Miscellaneous	
Save working directory without committing	
	Air prapii
(useful when wish to switch branches)	

git stash pop

2 Accessing the repository

Generate a public RSA key (you may need to install OpenSSH first):

- 1. cd into the (hidden) .ssh directory in your home folder (e.g., \home\ewah\.ssh)
- 2. Run the following command: ssh-keygen -t rsa -C "<youremailhere>"
- 3. Press enter when prompted for the name to save under. Do not change the name from id_rsa.pub.
- 4. Enter a non-empty passphrase when prompted.
- 5. Email me the id_rsa.pub file.

Before you can access the repository, I will need to authorize your RSA key. Once I've let you know that this is done, you will be able to access the repository. To clone the repository, first create a new directory, and cd into it. Then enter the following command:

```
git clone git@hft.eecs.umich.edu:hft.git .
```