Git tutorial

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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.

Bran	ching
List all (local) branches	git branch
List all (local + remote) branches	git branch -a
Create a new (local) branch	git branch <new branch="" name=""></new>
Check out (switch to) a (local) branch	git checkout <my branch=""></my>
Update list of branches	git fetch
Merge from local branch to checked-out branch	git merge <branch from="" merge="" to=""></branch>
Pul	ling
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>
A.1.1: /	
	ing/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>
Miscel	laneous
Save working directory without committing	
(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 .ssh directory in your home folder (e.g., \home\ewah\.ssh)
- 2. Run the following command: ssh-keygen -t rsa -C "<youremailhere>"
- 3. Enter a non-empty passphrase when prompted.
- 4. Email me the id_rsa.pub file.

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 .