Starting with Git

1) Sign up to GitHub

https://github.com/join

2) LAM git repository
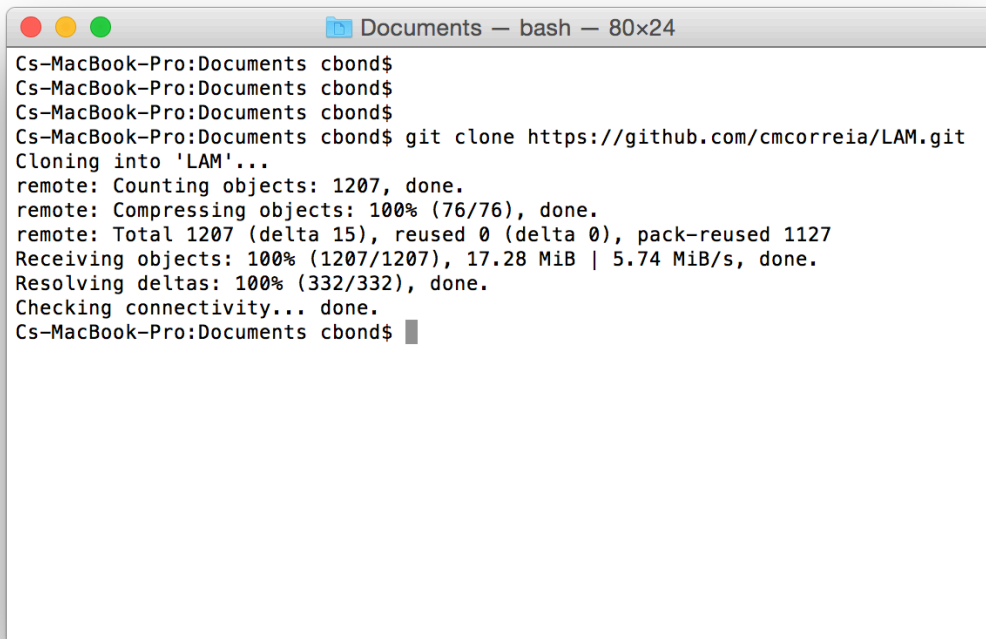- Overview of repository structure, no. of branches, history etc.
- Watch repository (emails about any updates).

https://github.com/cmcorreia/LAM

3) Clone `git clone` `https://github.com/cmcorreia/LAM.git`
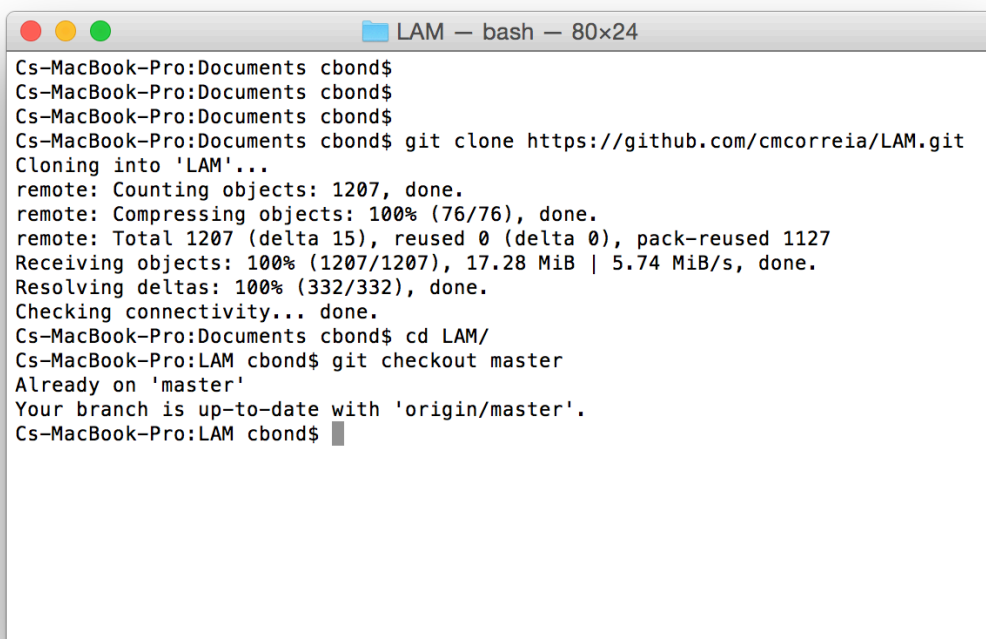 o   Clone the repository onto your computer.

```
●  ●  ●                     📁 Documents — bash — 80×24
Cs-MacBook-Pro:Documents cbond$
Cs-MacBook-Pro:Documents cbond$
Cs-MacBook-Pro:Documents cbond$
Cs-MacBook-Pro:Documents cbond$ git clone https://github.com/cmcorreia/LAM.git
Cloning into 'LAM'...
remote: Counting objects: 1207, done.
remote: Compressing objects: 100% (76/76), done.
remote: Total 1207 (delta 15), reused 0 (delta 0), pack-reused 1127
Receiving objects: 100% (1207/1207), 17.28 MiB | 5.74 MiB/s, done.
Resolving deltas: 100% (332/332), done.
Checking connectivity... done.
Cs-MacBook-Pro:Documents cbond$ ▊
```

Checkout `git checkout` `master`
  o   One repository, potentially many possible branches.
  o   Checkout your chosen branch.

```
●  ●  ●                        📁 LAM — bash — 80×24
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Cs-MacBook-Pro:Documents cbond$
Cs-MacBook-Pro:Documents cbond$ git clone https://github.com/cmcorreia/LAM.git
Cloning into 'LAM'...
remote: Counting objects: 1207, done.
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remote: Total 1207 (delta 15), reused 0 (delta 0), pack-reused 1127
Receiving objects: 100% (1207/1207), 17.28 MiB | 5.74 MiB/s, done.
Resolving deltas: 100% (332/332), done.
Checking connectivity... done.
Cs-MacBook-Pro:Documents cbond$ cd LAM/
Cs-MacBook-Pro:LAM cbond$ git checkout master
Already on 'master'
Your branch is up-to-date with 'origin/master'.
Cs-MacBook-Pro:LAM cbond$ ▊
```
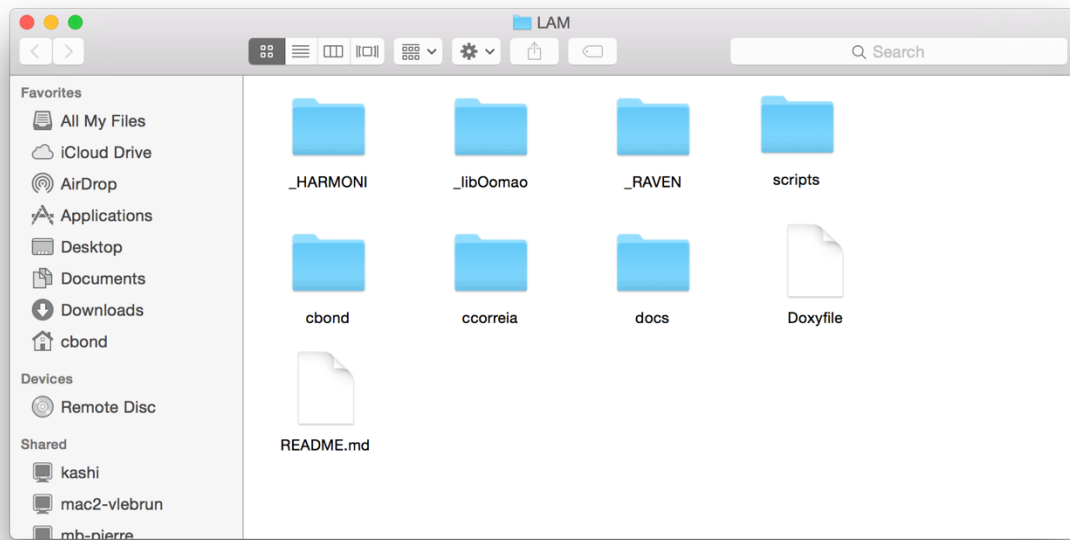
o   Now you have a local version of the git repository: LAM

Git cheat sheet

Command	Description
`git clone https://github.com/cmcorreia/LAM.git`	Clone given repository from git server
`git checkout master`	Checkout your chosen branch (or change branch), in this case the 'master' branch.
`git branch branch_name`	Create new branch of the current git repository named 'branch_name'. If the branch already exists this will change your current branch to 'branch_name'.
`git pull`	Get any changes to your current branch (pull changes from the git server).
`git add filename`	Add files to the git. The add command is only required when the file is new to the repository, not for changes to the file.
`git commit –m "commit message"`	Commit any changes to the git repository. Commit must be used for any changes to files and after add to upload new files to the server.
`git status`	Check the status of your working copy against the current git repository. Will list any changes staged/unstaged for upload to the repository.
`git push`	Uploads you changes staged by commit to the git repository.
`git fetch –all` `git reset ––hard origin/branch_name`	If you want to return your working copy to the current status of the repository. WARNING: this will overwrite all your local changes.
`git rm filename`	Remove file from repository. Will only be removed from the git repo after commit and push.

Git help

https://git-scm.com/docs