Advanced Programming for Scientific Computing Tutor 01: Modules, Git, GitHub

Stefano Zonca

MOX Dipartimento di Matematica Politecnico di Milano

A.A. 2014/2015

Modules

List available modules:

module avail

Load a module:

module load <name>

\$mk<name>Home \$mk<name>Inc \$mk<name>Bin

Unload a module:

module unload <name>

List loaded modules:

module list



Git

```
Git is a distributed revision control system.
http://git-scm.com/
Configure git:
        git config —list
        git config —global user.name "YOUR_NAME"
        git config —global user.email "YOUR_EMAIL_ADDRESS"
https://help.github.com/articles/set-up-git/
```

Main Git commands

```
Clone a repository:
```

git clone username@host:/path/to/repo

Add changes to index:

git add <filename>

Commit changes:

git commit -m "Message"

Send changes to remote:

git push origin master

Main Git commands

Get changes from remote repo:

git pull

Move to a different branch:

git checkout
branch_name>

List of commits:

git log

GitHub

- ▶ go to https://github.com/
- search pacs-course

Fork https://help.github.com/articles/fork-a-repo/:

- fork the project into your repository
- go to your repository
- copy the clone URL
- ▶ git clone <url>

Link your fork to original repo:

- go to original repo
- copy the clone URL
- ▶ git remote add upstream <url>



GitHub

```
Sync a fork
https://help.github.com/articles/syncing-a-fork/:
```

- ▶ git fetch upstream
- git merge upstream/master

Create a pull-request: https:

//help.github.com/articles/creating-a-pull-request/

- from github, go to your fork
- select the branch with new changes
- create a pull-request