Repository: current file + histories

Clone: “make a copy of the repository”

git log

* Arrow to scroll, PgUp, PgDown
* Q to exit

$ git log | grep -A 4 "Revert controls"

Revert controls

Git diff <commit\_id1> <commit\_id2>

* With commit\_id: shows the difference between two commits

Git diff

* Without commit\_id: shows the difference between modified file and those in staging area

Git diff --staged

* Compare between files in staging area and repository

Git checkout <commit\_id>

* Restoring a previous version
* Eg. a bug was found since version XXX, but you can’t really remember which version. So you want to try to see
* To create a new branch, do Git checkout –b <commit\_id>

## Setting up a new repository

Go to the desired directory and

git init

* Note that it does not create any commits yet
* HEAD = current commit

Git status

* Status since last commit
* On master branch?

Git add <filename>

* Add them to the staging area (not yet repository)

Git commit

* Staging area -> repository