

Git Course

Session One - Crib Notes

The structure of a Git command...

git <verb> [args] All commands use this format

git help <verb> Documentation of all commands is available

Git conventions

master The main branch of the repository

origin The name given to the remote you cloned a repository from

origin/branch name Where to find remote branches after fetching them

HEAD The top of your current branch

HEAD[^] The parent of HEAD

HEAD~4 Four commits ago (the great-great grandparent of HEAD)

Useful things to know about the Terminal...

1s -a Lists files in current directory (-a includes hidden files)

mkdir Makes a new directory
cd <dir name> Changes current directory

cd .. Changes directory - one level up from current

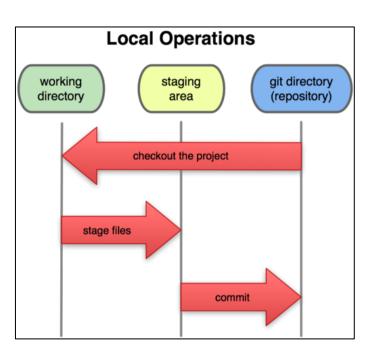
<dir1>/<dir2>/readme.txt
The directory slash is the reverse of the windows console

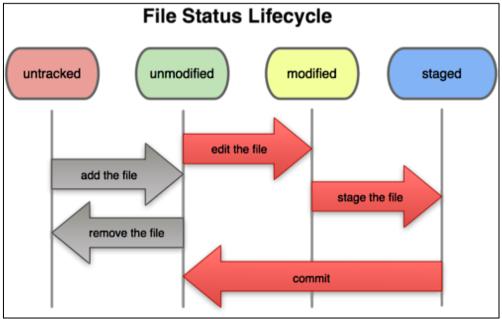
[TAB] Tab completion is supported in many places

q Press 'q' to quit certain screens (e.g. help screens)

The three states:

File lifecycle:





Commands you will need to use for Exercise 1...

New commands you will need for Exercise 2...

```
git checkout -b branch_name
git checkout branch_name
git branch
git branch -D branch_name
git merge branch_name
git &

Greate a new branch and switch to it

Switch to an existing branch
List all branches
Delete a branch
Merge the specified branch into your current HEAD
Open a graphical view of the repository
```

New commands for Exercise 3...

```
git reset --hard Undo changes in working directory
git reset --hard HEAD~1 Go back one commit
git mergetool Open the merge tool you have configured git to use
git whatchanged See what files changed in all commits (or specify a commit by providing it's SHA hash)
git diff See what changed inside files in working directory (or specify a commit)
Remove untracked files from working directory
```

New commands for Exercise 4...

```
git clone remote_location
git push remote_name branch_name
git remote -v
git fetch remote_name
git branch -r
```

Clone a copy of the remote repository to your local disk
Push specified branch to remote repository
List currently referenced remote repositories (use –v for verbose information)

Fetch all changes on remote repository into local repository List branches on remote repository that have been 'fetched'

Remote repository to play with:

https://github.com/DrivenSoftware/GitCourseDemo