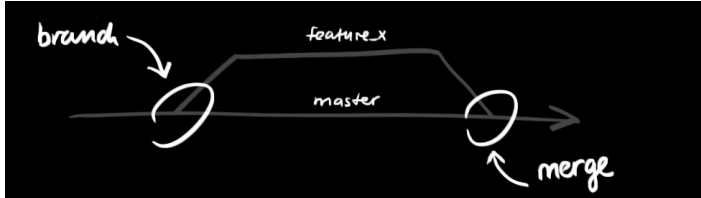


Git commands

Stéphanie

Your local repository consists of three "trees" maintained by git:

- **Working Directory** which holds the actual files
- **Index** which acts as a staging area
- **HEAD** which points to the last commit you've made.



More here: <http://rogerdudler.github.io/git-guide/>

Good practice: when you checkout a branch:

`git fetch` (will get all the changes on this repository)

`git pull` (will bring any changes on the remote branch to your local branch)

then start your work

- | | |
|--------------------------------------|---|
| 1. Create a branch: | <code>git branch nameOfTheBranch</code> |
| 2. Go to that branch: | <code>git checkout nameOfTheBranch</code> |
| 3. Make your changes | |
| 4. Check if I had the latest changes | <code>git status</code> |
| 5. Add the changes: | <code>git add fileName</code> or <code>git add .</code> (for all the files) |
| 6. Or to not include a file | <code>git checkout filename</code> (changes will be deleted for that file) |
| 7. Commit the changes, to the Head | <code>git commit -m "yourCommitMessage"</code> |
| 8. Then push your changes | <code>git push</code> |

Then **pull request** (branch I want my code to go to on the left, my branch on the right)

Commit message advice "use imperative – brief – ticket number"

If master has changed since I've branched, from my branch: `git merge origin/master`

To merge new branch to master, from master: `git merge nameOfTheBranch`

More commands:

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|---|--|
| Create a new repository: | <code>git init</code> |
| Create a working copy of a local repository: | <code>git clone /path/to/repository</code> |
| If remote repository: | <code>git clone username@host:/path/to/repository</code> |
| Remove a file from index | <code>git rm fileName</code> |
| Pushing the head of the local repository to remote rep: | <code>git push origin master</code> |
| Update the local repository with remote changes: | <code>git pull</code> |
| Delete a branch | <code>git branch -d nameOfBranch</code> |
| See all branches | <code>git branch</code> |

Command line:

To open a git bash window, go in the folder where you want to start and click right + open Git bash here

use **Tab** to complete a text in the command line

If stuck in the git editor: **press 'esc' key, then type :q!**

Top arrow: hit it to view previous command, you can do it more than once

ls will list the files in your folder

cd nameOfTheFolder to go in that folder

cd .. to go back up one folder

Ctrl C to stop if git bash is blocked

To avoid having to enter your password and user name: `git config --global credential.helper wincred`