

GIT CHEAT SHEET

Configuring

git config --global user.name "NAME" alias.ALIAS "COMMAND"
user.email "MAIL"
core.editor "EDITOR"

Cloning: git clone url [dir]

Ignore: file named .gitignore in root dir. Supports shell globbing: *.a will ignore all .a-files. To make exceptions, use !. Ex:

*.a → will ignore all .a-files except for special.a
!special.a

Staging, status

* git status -> M .. → file modified, not staged
M M → file modified, staged, modified again
A → file newly added and staged
M → file modified and staged
? ? → file not yet added
ST WD

* git diff: WD ↔ SA ↔ CO
git diff git diff --staged

* untrack file: git rm --cached file
rm; mv: prefix git stage changes.

* restore file: git reset HEAD <file>

Git log -p : show changes between commits
-n : show last n ∈ N commits
--graph : show branch graph
--oneline : describe each commit in one line
--decorate : show branches, HEAD, tags
--grep : show commits with message matching regex
-S : show commits adding/removing thing

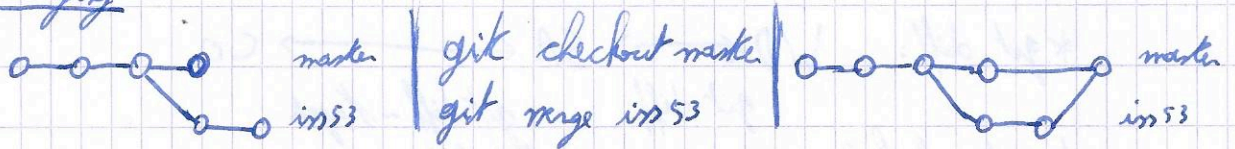
Remotes

- * show all: `git remote -v`
- * add: `git remote add <name> <url>`
- * fetching: `git fetch <name>`
gets all data without merging
- * pulling: `git pull <name>`
gets all data and merges
- * pushing: `git push <name> <branch>`
- * removing/renaming remote: `git remote rename <name> <newname>`
`rm <name>`

Tags

- * show all: `git tag`
- * show specific: `git tag -l` (shows tags matching pattern (sh. globbing))
- * add: `git tag -a <tag> -m "msg" [commit-hash]`
- * inspect tag commit: `git show <tag>`

Merging



- resolving conflicts:
- Open file with conflict
 - Replace <<< HEAD: file

...

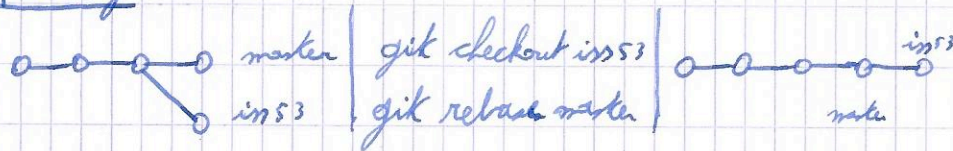
=====

...

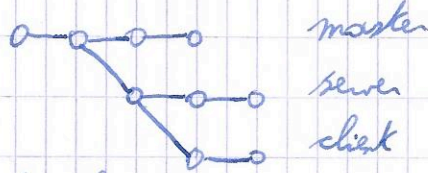
>>> branch: file

- Git add file again
- Git commit

Relaxing



Rebase onto:



git rebase --onto master server client

= "Check out client, get patches from common ancestor of server and client, rebase onto master"