git cheat sheet

create & clone

- create new repository
  - `git init`
- clone local repository
  - `git clone /path/to/repository`
- clone remote repository
  - `git clone username@host:/path/to/repository`

add & remove

- add changes to INDEX
  - `git add <filename>`
- add all changes to INDEX
  - `git add *`
- remove/delete
  - `git rm <filename>`

commit & synchronize

- commit changes
  - `git commit -m "Commit message"`
- push changes to remote repository
  - `git push origin master`
- connect local repository to remote repository
  - `git remote add origin <server>`
- update local repository with remote changes
  - `git pull`

branches

- create new branch
  - `git checkout -b <branch>`
    - e.g. `git checkout -b feature_x`
- switch to master branch
  - `git checkout master`
- delete branch
  - `git branch -d <branch>`
- push branch to remote repository
  - `git push origin <branch>`

merge

- merge changes from another branch
  - `git merge <branch>`
- view changes between two branches
  - `git diff <source_branch> <target_branch>`
    - e.g. `git diff feature_x feature_y`

tagging

- create tag
  - `git tag <tag> <commit ID>`
    - e.g. `git tag 1.0.0 1b2c1d63ff`
- get commit IDs
  - `git log`

restore

- replace working copy with latest from HEAD
  - `git checkout -- <filename>`

Tip
Want a simple but powerful git-client for your mac?
Try Tower: www.git-tower.com/