

# WeirdOCourses

## GIT CHEAT SHEET

Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency. This cheat sheet features the most important and commonly used Git commands for easy reference.

### INSTALLATION & GUIs

With platform specific installers for Git, GitHub, Bitbucket, GitLab also provides the ease of staying up-to-date with the latest releases of the command line tool while providing a graphical user interface for day-to-day interaction, review, and repository synchronization.

#### GitHub for Windows

<https://windows.github.com>

#### GitHub for Mac

<https://mac.github.com>

For Linux and Solaris platforms, the latest release is available on the official Git web site.

#### Git for All Platforms

<http://git-scm.com>

### SETUP

Configuring user information used across all local repositories

**git config --global user.name "[firstname lastname]"**

set a name that is identifiable for credit when reviewing version history

**git config --global user.email "[valid-email]"**

set an email address that will be associated with each history marker

**git config --global color.ui auto**

set automatic command line coloring for Git for easy reviewing

### SETUP & INIT

Configuring user information, initializing and cloning repositories

**git init**

initialize an existing directory as a Git repository

**git clone [url]**

retrieve an entire repository from a hosted location via URL

### STAGE & SNAPSHOT

Working with snapshots and the Git staging area

**git status**

show modified files in working directory, staged for your next commit

**git add [file]**

add a file as it looks now to your next commit (stage)

**git reset [file]**

unstage a file while retaining the changes in working directory

**git diff**

diff of what is changed but not staged

**git diff --staged**

diff of what is staged but not yet committed

**git commit -m "[descriptive message]"**

commit your staged content as a new commit snapshot

### BRANCH & MERGE

Isolating work in branches, changing context, and integrating changes

**git branch**

list your branches. a \* will appear next to the currently active branch

**git branch [branch-name]**

create a new branch at the current commit

**git checkout**

switch to another branch and check it out into your working directory

**git merge [branch]**

merge the specified branch's history into the current one

**git log**

show all commits in the current branch's history



## INSPECT & COMPARE

Examining logs, diffs and object information

### `git log`

show the commit history for the currently active branch

### `git log branchB..branchA`

show the commits on branchA that are not on branchB

### `git log --follow [file]`

show the commits that changed file, even across renames

### `git diff branchB...branchA`

show the diff of what is in branchA that is not in branchB

### `git show [SHA]`

show any object in Git in human-readable format

## SHARE & UPDATE

Retrieving updates from another repository and updating local repos

### `git remote add [alias] [url]`

add a git URL as an alias

### `git fetch [alias]`

fetch down all the branches from that Git remote

### `git merge [alias]/[branch]`

merge a remote branch into your current branch to bring it up to date

### `git push [alias] [branch]`

Transmit local branch commits to the remote repository branch

### `git pull`

fetch and merge any commits from the tracking remote branch

## TRACKING PATH CHANGES

Versioning file removes and path changes

### `git rm [file]`

delete the file from project and stage the removal for commit

### `git mv [existing-path] [new-path]`

change an existing file path and stage the move

### `git log --stat -M`

show all commit logs with indication of any paths that moved

## REWRITE HISTORY

Rewriting branches, updating commits and clearing history

### `git rebase [branch]`

apply any commits of current branch ahead of specified one

### `git reset --hard [commit]`

clear staging area, rewrite working tree from specified commit

## IGNORING PATTERNS

Preventing unintentional staging or committing of files

### `logs/ *.notes pattern*/`

Save a file with desired patterns as .gitignore with either direct string matches or wildcard globs.

### `git config --global core.excludesfile [file]`

system wide ignore pattern for all local repositories

## TEMPORARY COMMITS

Temporarily store modified, tracked files in order to change branches

### `git stash`

Save modified and staged changes

### `git stash list`

list stack-order of stashed file changes

### `git stash pop`

write working from top of stash stack

### `git stash drop`

discard the changes from top of stash stack

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