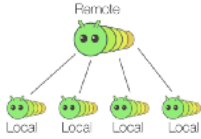


Git Cheat Sheet

Good things to know



Git is a **distributed** version control system

Everyone that has a local copy of the repository at all times. Cannot be partially checked out, it's all or nothing.

Git \neq GitHub

Git **is not** Github

Git is a repository, where files are stored and managed. Github is a hosting service that keeps your Git repo in the cloud.

```
> git
```

Git CLI is **very powerful**.

OK, that's not a "fact", but once you get used to it, you'll be able to use the commands anywhere. You can also use CLI and GUIs interchangeably on the same Git repository.



There are **many ways** to get there
People use Git in many different ways, and projects may follow different Git flows. Don't be shy, ask around.

Terminology

repository - where files are stored, can be remote or local

remote repository - repository in hosting server, also referred to as origin

local repository - repository in local development machine

branch - a stream of work where commits are kept, can be remote or local

remote branch - branch with published commits (commits that have been pushed)

local branch - branch with unpublished commits, only developer can see, not shared

commit - a change unit, it is a scope of changes that are kept in sequential order

master branch - main stream of work, must always be stable

working branch - developer's stream of work, sandbox

staging area/index - keeps files to include in next commit

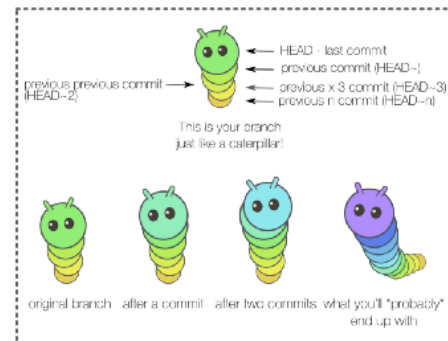
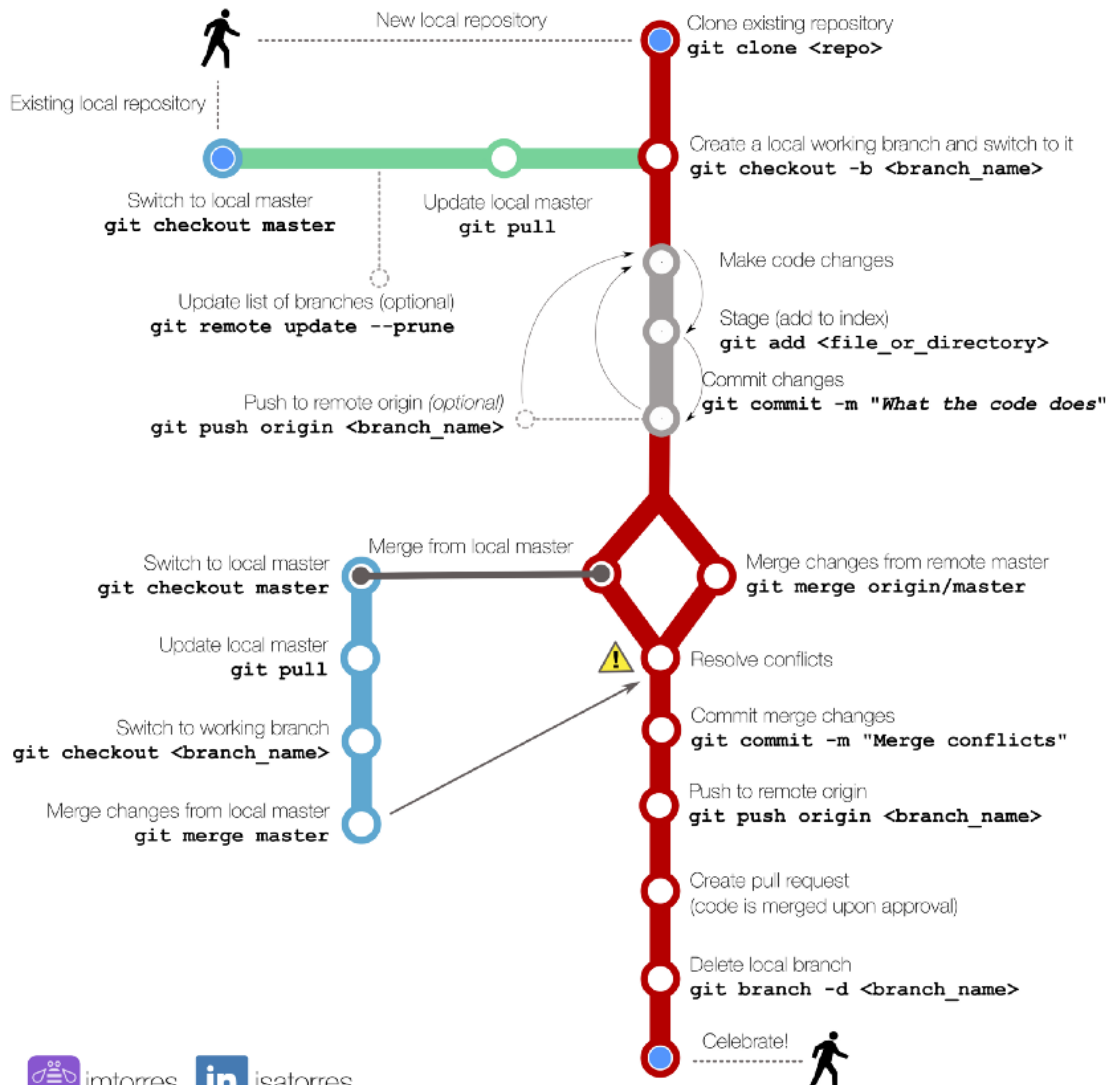
push - publish changes to remote

pull - merge remote changes into local changes

pull request - code review process to allow a change be integrated to the master branch

Simple flow of getting things done with Git

Scenario: developer working in individual branch, team code (stable) lives in the master branch



FREE!

Commands that you can use anytime

See the status of the working branch

git status

See the commit history

git log

See all branches (remote - since last remote update)

git branch -a

Resolve conflicts

No need to panic! Use a merge tool, or...

```
(remove) <<<<<< HEAD
(merge)   your local code
(remove)  =====
(merge)   code in master
(remove)  >>>>>> master
```

Mark the conflict resolved

git add <file>

Want to start over? Roll back all the merged changes
git reset --hard HEAD



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