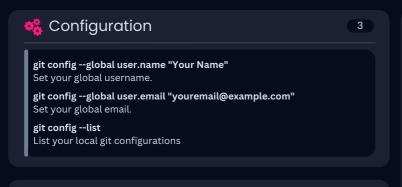
Git Cheat Sheet



Brought to you by the **Teamfu** Team

August 2023





git init

Initializes a new Git repository in the current directory.

git add.

Stage changes for the next commit.

git status

Show the current status of the repository (modified files, etc.).

git commit -m "My message"

Commit staged changes with a descriptive message.

git log

Show commit history.

git clone [repository URL]

Clones an existing remote repository onto your local machine.



Repository

A project's version controlled directory, including all files and commit history.

Clone

Copying a repository from a remote source to vour local machine.

Commit

Saving changes to the repository with a message.

Branch

A separate line of development to isolate changes and work on features independently.

Merge

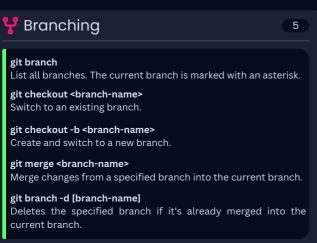
Combining changes from one branch into another.

Pull

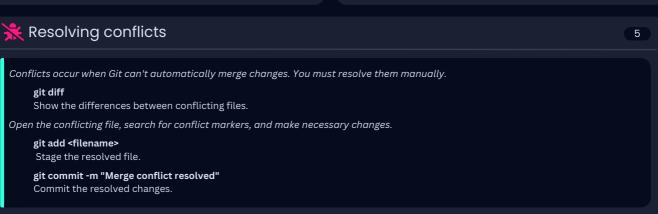
Fetching changes from a remote repository and merging them into your local branch.

Push

Sending your committed changes to a remote repository.









Other useful commands

git pull --rebase

Fetch and reapply local changes before the pull.

git reset --hard HEAD

Discard all local changes and return to the last commit.

Temporarily save changes to a stack for later retrieval.

git clean -f

Remove untracked files from the working directory.

git branch -m [new-branch-name]

Renames the current branch to the new name.

git log --graph --oneline --all

Displays a compact, graphical representation of the commit history, showing branches and their relationships.

git branch -- merged

Lists all the branches that have been merged into the current branch.

🤼 Branching strategy

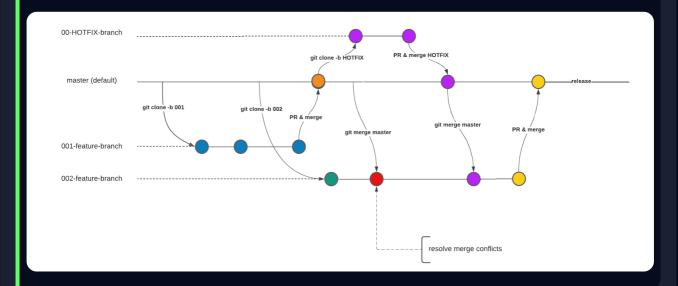
Branches represent isolated work, ensuring each feature or bug fix is developed separately (e.g., Feature-A, Feature-B, Hotfix).

The master branch reflects the latest stable release, always deployable to production. Feature branches enable parallel development, speeding up progress.

Completed features merge back into master for inclusion in the next release.

Hotfixes address critical issues separately, branching from master and merging back promptly.

Thorough testing and code reviews precede merging to maintain code quality and minimise bugs.



🚃 🔾 Generating SSH keys

To download source code from a repository, you can use a compressed zip file, HTTPS, or SSH. SSH is recommended for stability, performance, and automatically signing your commits.

To set up SSH, generate a key pair with ssh-keygen -t ed25519 -C "<your-email-address>", preferably with an empty passphrase to speed up interactions. Copy the public key to your clipboard, and paste your public key into your GitHub account settings (SSH and GPG keys) to associate it.

Test your key by cloning a repository using ssh -T git@github.com

Now you can successfully clone your repo with git clone git@github.com:<user-name>/<repo-name>.git

The cloned code will be placed in a new folder in your current directory.



Brought to you by Teamfu



