

Referência Rápida de Git

Branches, merge, rebase, stash, remotos

Configuração

Configuração de Usuário

```
git config --global user.name "Your Name"
git config --global user.email "you@example.com"
git config --global core.editor vim
git config --list # show all settings
```

Init & Clone

```
git init # new repo in current dir
git clone <url> # copy remote repo
git clone <url> dir # clone into dir/
```

Básico

Status & Staging

```
git status # working tree status
git add file.txt # stage a file
git add . # stage all changes
git add -p # stage interactively
```

Commit

```
git commit -m "msg" # commit staged changes
git commit -am "msg" # stage tracked + commit
git commit --amend # edit last commit
```

Diff

```
git diff # unstaged changes
git diff --staged # staged changes
git diff HEAD~1 # vs previous commit
git diff branchA branchB
```

Branches

Gerenciamento de Branches

```
git branch # list local branches
git branch -a # list all (incl. remote)
git branch feat # create branch
git branch -d feat # delete (safe)
git branch -D feat # delete (force)
```

Trocar de Branch

```
git checkout feat # switch to branch
git checkout -b feat # create + switch
git switch feat # switch (modern)
git switch -c feat # create + switch (modern)
```

Merge

```
git merge feat # merge feat into current
git merge --no-ff feat # always create merge commit
git merge --abort # cancel conflicted merge
```

Remoto

Gerenciar Remotos

```
git remote -v # list remotes
git remote add origin <url> # add remote
git remote remove origin # remove remote
```

Fetch, Pull, Push

```
git fetch origin # download updates
git pull # fetch + merge
git pull --rebase # fetch + rebase
git push origin main # push to remote
git push -u origin feat # push + set upstream
```

Log

Ver Histórico

```
git log # full commit log
git log --oneline # compact one-line format
git log --oneline -10 # last 10 commits
git log --graph --oneline --all # branch graph
git log -p # show patches (diffs)
git log --stat # show file change stats
```

Filtrar Log

```
git log --author="Alice"
git log --since="2024-01-01"
git log -- path/file # commits touching file
git log -S "keyword" # search content changes
```

Stash

```
git stash # save working changes
git stash push -m "wip" # save with message
git stash list # list all stashes
git stash pop # apply + remove top stash
git stash apply # apply but keep stash
git stash drop # remove top stash
git stash clear # remove all stashes
```

Desfazer Mudanças

Unstage & Descartar

```
git restore file.txt # discard working changes
git restore --staged file.txt # unstage file
git checkout -- file.txt # discard (legacy)
```

Reset

```
git reset --soft HEAD~1 Desfaz commit, mantém staged
git reset --mixed HEAD~1 Desfaz commit, mantém working (padrão)
git reset --hard HEAD~1 Desfaz commit, descarta todas as mudanças
```

Revert

```
git revert <commit> # new commit undoing changes
git revert HEAD # undo last commit (safe)
```

Tags

```
git tag v1.0 # lightweight tag
git tag -a v1.0 -m "Release" # annotated tag
git tag # list tags
git push origin v1.0 # push single tag
git push origin --tags # push all tags
git tag -d v1.0 # delete local tag
```

.gitignore

Exemplos de Padrões

```
# .gitignore
*.log # all .log files
build/ # build directory
!important.log # exception (do track)
/TODO # only root TODO
doc/**/*.pdf # pdfs in doc/ subtree
```

Padrões Comuns

```
*.ext Todos os arquivos com essa extensão
dir/ Diretório inteiro
!pattern Negação (reincluir)
**/name Corresponde em qualquer subdiretório
? Curinga de um único caractere
```