🐙Git Cheat Sheet – from Basics to Advanced

🌕🐓Configure your name & email (first time only)

```
git config --global user.name "Your Name"
git config --global user.email "you@example.com"
```

🦏🐕Initialize a repo or clone existing

```
git init                               # Start new repo
git clone <repo-url>                   # Clone repo from remote
```

🐗Check status, add changes & commit

```
git status                             # Show modified / staged files
git add <file>                         # Stage a file
git add .                              # Stage all changes
git commit -m "Your commit message"    # Commit staged changes
```

🐮🐚View history & logs

```
git log                                # Detailed history
git log --oneline                      # Compact view
git diff                               # See unstaged changes
git diff --staged                      # See staged changes
```

🌿🐜Create, switch & delete branches

```
git branch                             # List branches
git branch <branch-name>               # Create new branch
git checkout <branch-name>             # Switch to branch
git checkout -b <branch-name>          # Create + switch
git merge <branch-name>                # Merge into current branch
git branch -d <branch-name>            # Delete branch
```

🪻 🐝Connect & sync with remote

```
git remote add origin <url>            # Add remote
git remote -v                          # Show remotes
git push -u origin main                # Push main branch first time
git push                               # Push commits
git pull                               # Fetch & merge from remote
git fetch                              # Fetch (don’t merge)
```

🙊 🐟Undo, reset & revert

```
git checkout <commit> <file>           # Restore file from old commit
git revert <commit>                    # New commit to undo a commit
git reset --hard <commit>              # Reset branch & working dir
git reset --soft <commit>              # Reset branch, keep staged changes
git reset <file>                       # Unstage file
```

🦏 🐠Stash & clean workspace

```
git stash                              # Save uncommitted changes
git stash apply                        # Apply stashed changes
git stash pop                          # Apply & remove
git clean -f                           # Remove untracked files
```

🐣🐡 Tags & releases

```
git tag                                # List tags
git tag <tag-name>                     # Create tag
git tag -a <tag-name> -m "msg"         # Annotated tag
git push origin <tag-name>             # Push tag
git push --tags                        # Push all tags
```

🦝 🌈Advanced / teamwork

```
git cherry-pick <commit>               # Apply commit to current branch
git rebase <branch>                    # Rebase onto another branch
git rebase -i HEAD~3                   # Interactive rebase last 3 commits
git reflog                             # See all local moves / changes
```

🐃🐓🐓Other useful commands

```
git show                               # Details of commit/tag
git blame <file>                       # See who changed each line
git shortlog -sne                      # Contributor summary
git remote show origin                 # Details of remote branches
```

🐓🐕 Cleanup & remove

```
git branch -D <branch>                 # Force delete branch
git remote remove origin               # Remove remote
```