## WGit Cheat Sheet – from Basics to Advanced

# 

```
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

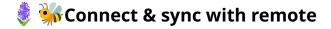
```
git status  # Show modified / staged files
git add <file>  # Stage a file
git add .  # Stage all changes
git commit -m "Your commit message"  # Commit staged changes
```

## 🐮 🐚 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 <br/>
git branch <br/>
git checkout <br/>
git checkout -b <br/>
git merge <br/>
git merge <br/>
branch-name> # Switch to branch
# Create + switch
# Merge into current branch
# Delete branch
```



```
git remote add origin <url>
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
git stash apply
git stash apply
git stash pop
git clean -f

# Save uncommitted changes
# Apply stashed changes
# Apply & remove
# 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 <br/>
git rebase -i HEAD~3 # Interactive rebase last 3 commits
git reflog # See all local moves / changes
```



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

## **Y** Cleanup & remove

git branch -D <br/>
git remote remove origin # Remove remote