

Git Cheat Sheet for Daily Use

1. Setup & Initialization

`git init`

- Initialize a new Git repo in your local folder.

`git remote add origin <repo-URL>`

- Connect your local repo to GitHub.

`git remote -v`

- See the remote URL(s) linked to your repo.

2. Checking Status & History

`git status`

- Shows changed, staged, and untracked files.

`git log --oneline`

- Shows commit history (short format).

`git diff`

- Shows what has changed in files (unstaged changes).

3. Adding Files to Commit

`git add <filename>`

- Stage a specific file for commit.

`git add .`

- Stage all changes (new/modified files) for commit.

4. Committing Changes

`git commit -m "Your commit message"`

- Commit staged changes with a descriptive message.

`git commit -am "Update message"`

- Commit modified tracked files without `git add` (only for tracked files).

5. Pushing Changes to GitHub

`git push -u origin main`

- First push: links local branch to remote.

`git push`

- Push subsequent commits.

`git push --force`

- Force push (overwrites remote; use carefully).

6. Pulling from GitHub

`git pull origin main`

- Pull latest changes and merge locally.

`git pull origin main --allow-unrelated-histories`

- Use if local and remote repos started separately.

7. Undo / Reset / Restore

`git reset HEAD <file>`

- Unstage a file (keep changes in folder).

`git restore <file>`

- Discard local changes in a file.

`git reset --hard HEAD`

- Discard all local changes (dangerous).

8. Deleting Files

`git rm <file>`

- Remove a file from repo. `git commit -m "Remove file" git push`

9. Branching & Switching (Optional)

`git branch`

- List branches.

`git branch <branch-name>`

- Create a new branch.

`git checkout <branch-name>`

- Switch to another branch.

`git checkout -b <branch-name>`

- Create & switch to branch in one command.

10. Misc / Useful Info

`git log --stat`

- See which files changed in each commit.

`git show <commit-hash>`

- See full details of a specific commit. `git remote set-url origin <new-URL>`

- Change the remote URL (e.g., using new PAT).

Quick Daily Workflow

1. Edit file in VS Code → Save
2. `git status` → Check changes
3. `git add <file>` → Stage changes
4. `git commit -m "Message"` → Commit
5. `git push` → Push to GitHub