

Git & GitHub Quick Cheat-Sheet

Setup (One Time)

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

Create / Clone Repositories

```
git init
git clone https://github.com/owner/repo.git
git remote -v
```

Daily Workflow (Edit → Commit → Push)

```
git status
git add file1.js
git add .
git commit -m "short: explain what changed"
git push -u origin main
git push
```

Branching (Feature Branches)

```
git checkout -b feature/x
git branch
git push -u origin feature/x
```

Updating Local Copy

```
git fetch
git pull
git checkout main
git pull origin main
git checkout feature/x
git rebase main
```

Undo Mistakes

```
git revert <commit>
git commit --amend -m "new message"
git reset --soft HEAD~1
git reset --hard HEAD~1
```

Merge Conflict Steps

1. git status
2. Resolve conflicts manually
3. git add <resolved-file>
4. git rebase --continue OR git commit
5. git push

.gitignore Example

```
.DS_Store
node_modules/
dist/
.gradle/
build/
.vscode/
.idea/
```

Useful Logs & Recovery

```
git log --oneline --graph --decorate --all
git show --name-only HEAD
git reflog
git checkout -b recovered <sha>
```