

Git Cheat Sheet - Beginner Workflow

1. First-Time Setup

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

2. Initialize Repository

```
git init  
git status  
git add .  
git commit -m "Initial commit"  
git log --oneline
```

3. Connect to GitHub

```
git remote -v  
git remote add origin https://github.com/<user>/<repo>.git  
git push -u origin main
```

4. Daily Sync Commands

```
git pull  
git push  
git diff
```

5. Branching Workflow

```
git branch  
git checkout -b feature/login  
git add .  
git commit -m "Add login feature"  
git checkout main  
git merge feature/login  
git branch -d feature/login
```

6. Tags (Release Marking)

```
git tag v1.0.0  
git tag -a v1.0.0 -m "Release v1.0.0"  
git push --tags  
git tag
```

7. Mental Model Takeaways

- Working Directory → Staging → Commit
- Branch per feature
- Merge back to main
- Push to remote (origin) to sync
- Tag important releases