

## Git & GitHub Cheat Sheet (Team Version)

### 1. Initial Setup

- Create repo: `git init`
- Add remote: `git remote add origin`
- Push first time: `git push -u origin main`

### 2. Branching

- Create branch: `git checkout -b feature-name`
- Switch branch: `git checkout feature-name`
- List branches: `git branch`

### 3. Staging & Committing

- Check changes: `git status`
- Add file: `git add filename`
- Add all: `git add .`
- Commit: `git commit -m "message"`

### 4. Pushing

- Push branch: `git push origin feature-name`
- Push first time: `git push -u origin feature-name`

### 5. Pulling & Syncing

- Pull main: `git pull origin main`
- Pull branch: `git pull`
- Fetch: `git fetch`

### 6. Merging

- Merge branch: `git merge feature-name`

- After conflicts: `git add . ; git commit`

## 7. Fixing Issues

- Undo last commit: `git reset --soft HEAD~1`
- Discard changes: `git restore .`
- Unstage file: `git restore --staged filename`

## 8. Branch Cleanup

- Delete local: `git branch -d feature-name`
- Delete remote: `git push origin --delete feature-name`

## 9. Checking History

- Full log: `git log`
- Short log: `git log --oneline`

## 10. Team Essentials

- Compare with main: `git diff main`
- View remotes: `git remote -v`

## Daily Workflow

1. `git checkout main`
2. `git pull origin main`
3. `git checkout -b feature-xyz`
4. `git add .`
5. `git commit -m "message"`
6. `git push -u origin feature-xyz`
7. Create Pull Request