

# ■ Git Collaboration Cheat Sheet

## ■ Setup

```
git clone <repo-url>      # clone repo to your computer
cd <repo-name>
git remote -v              # check repo origin URLs
```

## ■ Branching

```
git checkout -b my-branch  # create + switch to new branch
git checkout main          # switch back to main branch
git branch                 # list branches
```

## ■ Keeping Up-to-date

```
git pull origin main      # update your local main
git fetch                  # fetch latest branches/tags (but don't merge yet)
```

## ■ Making Changes

```
git status                # see what's changed
git add .                 # stage all changes
git commit -m "message"   # commit with a message
git log --oneline --graph # see history (cool visual view)
```

## ■ Pushing

```
git push origin my-branch # push your branch to GitHub
```

## ■ Pull Requests (on GitHub)

1. Push your branch.
2. On GitHub → "Compare & Pull Request."
3. Create PR → review → merge.

## ■ Oops Moments ■

```
git reset --soft HEAD~1  # undo last commit (keep changes staged)
git reset --hard HEAD~1  # undo last commit (erase changes)
git checkout -- <file>    # discard changes in a file
```

## ■ Golden Rules for Teamwork ■

- Don't commit directly to `main`.
- Always pull before starting new work.
- Use branches + PRs for safety.