

Git Command Cheat Sheet

Setup and Configuration

Command	Description
<code>git config --global user.name "Your Name"</code>	Set the name that will be attached to your commits
<code>git config --global user.email "your.email@example.com"</code>	Set the email that will be attached to your commits

Creating Repositories (On Github, then Downloading)

Command	Description
<code>git clone https://github.com/username/repo-name.git</code>	Clone a remote repository to your local machine

Basic Snapshotting

Command	Description
<code>git status</code>	Check the status of files (untracked, modified, staged)
<code>git add filename.txt</code>	Add a specific file to the staging area
<code>git add .</code>	Add all modified and new files to the staging area
<code>git commit -m "Commit message"</code>	Commit staged changes with a message
<code>git commit -am "Commit message"</code>	Add modified files and commit in one step (doesn't include new files)

Branching and Merging

Command	Description
<code>git branch -a</code>	List all branches (local and remote)
<code>git checkout branch-name</code>	Switch to a branch
<code>git checkout -b branch-name</code>	Create and switch to a new branch
<code>git branch -d branch-name</code>	Delete a branch (safe)

Undoing Changes

Command	Description
<code>git restore filename.txt</code>	Discard changes in working directory (Git 2.23+)
<code>git restore --staged filename.txt</code>	Unstage changes (Git 2.23+)

```
git reset --soft HEAD~1
```

Undo last commit, keep changes staged

Example Collaborative Workflow

BEST PRACTICES: Always make sure to pull before starting your work! Your collaborators may have made changes that you'd want to update!

```
# Create or find a repository on https://github.com, then clone it
git clone https://github.com/your-username/forked-repo.git

# Create your own branch
git checkout -b my-branch

# Make changes to some files, add, commit, and push
git add .
git commit -m "Add feature"
git push -u origin my-branch

# Go to the repository on https://github.com, create a pull request (PR) to merge
it

# After PR approval, move back to main, pull new changes, delete the branch
git checkout main
git pull
git branch -d feature-branch
```