Git Command Cheat Sheet

Basic Git Commands

- `git init` - Initialize a new Git repository

- `git clone <repository_url>` - Clone an existing repository

- `git status` - Show the working directory status

- `git add <file>` - Add a file to the staging area

- `git add .` - Add all files to the staging area

- `git commit -m "message"` - Commit changes with a message

- `git log` - View commit history

Branching & Merging

- `git branch` - List all branches

- `git branch <branch_name>` - Create a new branch

- `git checkout <branch_name>` - Switch to a branch

- `git checkout -b <branch_name>` - Create and switch to a new branch

- `git merge <branch_name>` - Merge a branch into the current branch

- `git branch -d <branch_name>` - Delete a branch

Remote Repositories

- `git remote add origin <url>` - Add a remote repository

- `git remote -v` - View remote repositories

- `git push -u origin <branch_name>` - Push a branch to remote

- `git pull origin <branch_name>` - Pull latest changes from remote

- `git fetch` - Fetch changes from remote without merging

Undoing Changes

- `git reset <file>` - Unstage a file

- `git reset --hard <commit>` - Reset to a previous commit, losing changes

- `git revert <commit>` - Revert a commit

- `git stash` - Stash changes for later use

- `git stash pop` - Apply the stashed changes

Tagging

- `git tag` - List all tags

- `git tag <tag_name>` - Create a new tag

- `git push origin <tag_name>` - Push a tag to remote

Git Configuration

- `git config --global user.name "Your Name"` - Set your name

- `git config --global user.email "you@example.com"` - Set your email

- `git config --list` - View Git configuration

Others

- `git diff` - Show file differences

- `git blame <file>` - Show who made changes to a file

- `git show <commit>` - Show commit details

This cheat sheet covers the most commonly used Git commands.