# Git Cheatsheet

## Git Basics

- `git init` - initializes a new Git repository
- `git clone <repository>` - clones a remote repository to your local machine
- `git status` - shows the current state of the repository
- `git add <filename>` - adds a file to the staging area
- `git commit -m "<message>"` - commits changes to the repository with a message describing the changes

## Branching

- `git branch` - lists all branches in the repository
- `git checkout <branch>` - switches to the specified branch
- `git checkout -b <branch>` - creates a new branch and switches to it
- `git merge <branch>` - merges the specified branch into the current branch

## Remote Repositories

- `git remote` - lists all remote repositories
- `git remote add <name> <url>` - adds a new remote repository
- `git pull <remote> <branch>` - pulls changes from the remote repository to the local repository
- `git push <remote> <branch>` - pushes changes from the local repository to the remote repository

## Miscellaneous

- `git log` - shows a log of all commits in the repository
- `git diff` - shows the differences between the working directory and the last commit
- `git reset <filename>` - removes a file from the staging area
- `git rm <filename>` - removes a file from the repository
- `git stash` - temporarily saves changes that are not ready to be committed