

ULTIMATE GITHUB COMMANDS CHEAT SHEET



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Repository Management

Command	Description
git init	Initialize a new local repository
git clone <URL>	Clone an existing repository
git add <file>	Add a file to the staging area
git commit -m "<message>"	Commit staged changes with a descriptive message
git status	Show the current state of the repository
git diff	Show the differences between the working directory and the staging area
git push	Push committed changes to a remote repository
git pull	Fetch and merge changes from a remote repository
git fetch	Download objects and refs from another repository
git merge <branch>	Merge changes from another branch

Branching and Merging

Command	Description
git branch	List, create, or delete branches
git checkout <branch>	Switch to a different branch
git checkout -b <branch>	Create and switch to a new branch
git merge <branch>	Merge changes from another branch
git branch -d <branch>	Delete a branch
git push origin --delete <branch>	Delete a remote branch

Collaboration

Command	Description
git remote add <name> <URL>	Add a new remote repository
git remote -v	List remote repositories
git fetch <remote>	Fetch changes from a remote repository
git pull <remote> <branch>	Pull changes from a remote repository
git push <remote> <branch>	Push changes to a remote repository
git push -u <remote> <branch>	Set the upstream branch for a local branch
git pull-request	Create a pull request (if using GitHub CLI)

Undoing Changes

Command	Description
git reset <commit>	Unstage commits or move the HEAD
git revert <commit>	Revert a commit by creating a new commit
git checkout -- <file>	Discard changes in the working directory
git clean -n	Preview untracked files to be deleted
git clean -f	Remove untracked files

This cheatsheet provides detailed explanations and examples for various Git and GitHub commands. Remember to replace placeholders like <branch>, <commit>, <URL>, <name>, <tagname>, and <file> with actual values relevant to your repository.

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Viewing History

Command	Description
git log	Display commit history
git log --oneline	Show abbreviated commit history
git log --graph	Visualize branch history
git blame <file>	Show who last modified each line of a file

Tagging

Command	Description
git tag <tagname>	Create a new tag at the current commit
git tag -a <tagname> -m "<message>"	Create an annotated tag with a message
git push origin <tagname>	Push a tag to the remote repository
git tag -d <tagname>	Delete a local tag
git push origin --delete <tagname>	Delete a remote tag

Remote Repositories

Command	Description
git push origin master	Push the current branch to the remote repository.
git pull origin master	Fetch the latest changes from the remote repository and merge them into the current branch.
git fetch origin	Fetch the latest changes from the remote repository, but do not merge them.

Initialization and Configuration

Command	Description
git init	Initialize a new Git repository in the current directory.
git config --global user.name "Your Name"	Set your global user name.
git config --global user.email "your@email.com"	Set your global user email address.
git remote add origin <remote_url>	Add a remote repository to your local repository.

Working With Files

Command	Description
git add <file_name>	Stage a file for the next commit.
git add .	Stage all changed files for the next commit.
git reset HEAD <file_name>	Unstage a file.
git checkout -- <file_name>	Discard changes to a file.
git diff	Show the difference between the working directory and the staging area.
git diff --staged	Show the difference between the staging area and the last commit.

This cheatsheet provides detailed explanations and examples for various Git and GitHub commands. Remember to replace placeholders like <branch>, <commit>, <URL>, <name>, <tagname>, and <file> with actual values relevant to your repository.

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