## **Git Cheatsheet**

A concise reference for Git commands and concepts, ideal for quick lookups and reminders.

#### **Basic Commands**

# Configuration

# Starting a Repository

git config global user.name "Your	Sets the name you want attached to your commit transactions.
Name"	
git config global user.email "your_email@exa mple.com"	Sets the email you want attached to your commit transactions.
git config list	Lists all Git configuration settings.
git config global core.editor "codewait"	Sets VS Code as the default editor for Git (replace code with your preferred editor's command-line tool).

git init	Initializes a new Git repository in the current directory.
git clone <repository_url></repository_url>	Clones an existing Git repository from a remote URL.

#### Basic Workflow

git status	Shows the status of the working directory and staging area.
git add <file></file>	Adds a file to the staging area.
git commit -m "Commit message"	Commits the staged changes with a descriptive message.
git log	Shows the commit history of the repository.

## **Branching and Merging**

# Branch Management

Branch	Management	

git branch	Lists all local branches in the repository.
git branch <branch_name></branch_name>	Creates a new branch with the specified name.
git checkout <branch_name></branch_name>	Switches to the specified branch.
git branch -d    dranch_name>	Deletes the specified branch (if it has been merged).
git branch -D    dranch_name>	Forces deletion of the specified branch, even if it hasn't been merged.

## Merging Branches

git merge <branch_name></branch_name>	Merges the specified branch into the current branch.
git mergetool	Opens the configured merge tool to resolve merge conflicts.
git commit	After resolving conflicts, commit the merged changes.

## Rebasing

<pre>git rebase <bre><bre>chranch_name</bre></bre></pre>	Rebases the current branch onto the specified branch.
git rebasecontinue	Continues the rebasing process after resolving conflicts.
git rebase -	Aborts the rebasing process and returns to the original branch state.

## **Remote Repositories**

## Connecting to Remotes

git remote add	Adds a remote repository with the specified name and URL.
git remote -v	Lists all configured remote repositories with their URLs.
git remote remove <name></name>	Removes the specified remote repository.

## Pushing and Pulling

git push <remote>         chranch&gt;</remote>	Pushes the local branch to the specified remote repository.
git pull <remote>    </remote>	Pulls changes from the specified remote branch and merges them into the current branch.
git fetch <remote></remote>	Downloads objects and refs from another repository.

## Tracking Branches

git push -u <remote>   <br< th=""><th>Sets up a tracking connection between the local branch and the remote branch. Useall to push all branches.</th></br<></remote>	Sets up a tracking connection between the local branch and the remote branch. Useall to push all branches.
git branch set-upstream-to= <remote>/  &gt; <local_branch></local_branch></remote>	Manually sets the upstream branch for a local branch.

## **Undoing Changes**

## **Modifying Commits**

git commit amend -m "New commit message"	Amends the last commit with new staged changes and/or a new commit message.
git reset	Unstages the last commit, keeping the changes in the working directory.

## **Reverting Changes**

git checkout -	Discards changes to a file in the working directory, reverting it to the last committed version.
git	Creates a new commit that undoes the changes made in the specified commit.
<commit></commit>	

Page 1 of 2 https://cheatsheetshero.com

## Resetting

git reset soft <commit></commit>	Resets the staging area and working directory to the state of the specified commit, but leaves the changes in the working directory.
git reset mixed <commit></commit>	Resets the staging area to the state of the specified commit, but leaves the changes in the working directory (default behavior).
git reset hard <commit></commit>	Resets the staging area and working directory to the state of the specified commit, discarding all changes.

Page 2 of 2