

Basic Commands

Configuration

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

Starting a Repository

git init	Initializes a new Git repository in the current directory.
git clone <repository_ur l=""></repository_ur>	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

"code -wait"

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

Merging Branches

git merge 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

git rebase <branch_nam e></branch_nam 	Rebases the current branch onto the specified branch.
git rebase continue	Continues the rebasing process after resolving conflicts.
git rebase abort	Aborts the rebasing process and returns to the original branch state.

Remote Repositories

Connecting to Remotes

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

Pushing and Pulling

git push <remote> <brack></brack></remote>	Pushes the local branch to the specified remote repository.
git pull <remote> <branch></branch></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> <branch></branch></remote>	Sets up a tracking connection between the local branch and the remote branch. Use all to push all branches.
git branchset- upstream-to= <remote>/<bra> nch> <local_branch< td=""><td>Manually sets the upstream branch for a local branch.</td></local_branch<></bra></remote>	Manually sets the upstream branch for a local branch.

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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 HEAD~1	Unstages the last commit, keeping the changes in the working directory.

Reverting Changes

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

Resetting

git resetsoft <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 resetmixed <commit< td=""><td>Resets the staging area to the state of the specified commit, but leaves the changes in the working directory (default behavior).</td></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.

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