Git Commands

Setting global Git configurations

- *git config --global user.name "Your Name": Set the name that will be associated with your Git commits.*
- *git config --global user.email "your.email@example.com": Set the email address that will be associated with your Git commits.*
- *git config --global core.editor "editor-name": Set the default text editor for Git commit messages.*
- *git config --global core.autocrlf true: Convert line endings to CRLF on checkout and to LF on commit if you're on Windows.*

Viewing Git configurations

- *git config --list: View all configurations in your Git global configuration file.*
- *git config user.name: View the name currently associated with your Git commits.*
- *git config user.email: View the email address currently associated with your Git commits.*
- *git config core.editor: View the default text editor currently set for Git commit messages.*
- *git config --global --edit: Edit your Git global configuration file.*

Setting project-specific Git configurations

- *git config --local user.name "Your Name": Set the name that will be associated with your Git commits for the current project only.*
- *git config --local user.email "your.email@example.com": Set the email address that will be associated with your Git commits for the current project only.*
- *git config --local core.editor "editor-name": Set the default text editor for Git commit messages for the current project only.*

Getting started

- *git init: Initialize a new Git repository in the current directory.*
- *git clone [repository URL]: Clone a remote Git repository to your local machine.*

Basic commands

- *git add [file]: Add a file to the staging area.*
- *git add .: Add all changes to the staging area.*
- *git commit -m "[message]": Commit changes to the repository with a descriptive message.*
- *git status: View the current status of the repository.*

Branching

- *git branch: List all branches in the repository.*
- *git branch [branch name]: Create a new branch.*
- *git switch [branch name]: Switch to a different branch.*
- *git merge [branch name]: Merge a branch into the current branch.*

Pushing and pulling

- *git pull: Pull changes from the remote repository to the local repository.*
- *git push: Push changes from the local repository to the remote repository.*
- *git push -u origin [branch name]: Push changes to a new branch on the remote repository.*

Undoing changes

- *git reset: Unstage changes from the staging area.*
- *git reset [commit hash]: Reset the repository to a previous commit.*
- *git revert [commit hash]: Create a new commit that undoes changes made in a previous commit.*

Miscellaneous

- *git log: View the commit history of the repository.*
- *git diff: View the differences between the current state and the last committed state of the repository.*
- *git remote -v: View all configured remote repositories.*
- *git config: Configure Git settings.*