Git Commands Cheat Sheet

1. Git Setup - Set up Git user: git config --global user.name "Your Name" git config --global user.email "your.email@example.com" - Check your current Git configuration: git config --list - Set your default text editor for Git: git config --global core.editor "nano" # Replace with your editor (e.g., vim, code) 2. Creating and Cloning Repositories - Initialize a new Git repository: git init - Clone an existing repository: git clone <repository_url> 3. Working with Files - Check the status of files in the repository: git status - Stage files for commit: git add <file_name> (specific file) or git add . (all changes) - Commit changes with a message: git commit -m "Your commit message"

- View changes before committing:

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git diff
 - Remove a file from staging (unstage it):
  git reset <file_name>
 - Remove a file from the repository and the working directory:
  git rm <file_name>
4. Branching and Merging
 - Create a new branch:
  git branch <br/> <br/>branch_name>
 - Switch to a different branch:
  git checkout <br/>branch_name>
 - Create and switch to a new branch in one command:
  git checkout -b <br/>branch_name>
 - Merge another branch into the current branch:
  git merge <br/> <br/>branch_name>
 - List all branches:
  git branch
 - Delete a branch:
  git branch -d <branch_name>
5. Remote Repositories
 - View remote repositories:
  git remote -v
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- Add a remote repository:

git remote add origin <repository_url>

- Push changes to a remote repository:

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git push origin <br/> <br/>branch_name>
 - Pull changes from a remote repository:
  git pull origin <br/> <br/>branch_name>
 - Fetch changes from a remote repository (without merging):
  git fetch origin
 - Remove a remote repository:
  git remote remove origin
6. Viewing History
 - View commit history:
  git log
 - View a summarized commit history:
  git log --oneline
 - View a specific commit:
  git show <commit_hash>
7. Undoing Changes
 - Undo the last commit (keep changes in the working directory):
  git reset --soft HEAD~1
 - Undo the last commit (discard changes in the working directory):
  git reset --hard HEAD~1
 - Unstage a file (undo git add):
  git reset <file_name>
 - Discard changes in a file (revert to the last committed version):
  git checkout -- <file_name>
 - Revert a commit (create a new commit that undoes a previous commit):
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git revert <commit_hash>

8. Advanced Commands

- Stash changes (temporarily save changes):

git stash

- Apply the last stashed changes:

git stash apply

- Delete a stash:

git stash drop

- Show the current Git configuration:

git config --list

- Check which files are being tracked:

git Is-files