Linux & Git-GitHub Cheat Sheet

Linux Commands

Basic Commands

- 1s: List directory contents.
 - Example: 1s -1 (detailed list)
- cd: Change directory.
 - o Example: cd /home/user
- pwd: Show current directory.
 - Example: pwd
- mkdir: Create a new directory.
 - o Example: mkdir new_folder
- rm: Remove files or directories.
 - Example: rm file.txt (file), rm -r folder (directory)

File Manipulation

- cp: Copy files or directories.
 - Example: cp source.txt destination.txt
- mv: Move or rename files or directories.
 - o Example: mv oldname.txt newname.txt
- cat: Display file contents.
 - Example: cat file.txt
- nano/vim: Edit files.
 - Example: nano file.txtExample: vim file.txt

System Information

- top: Show real-time system information.
 - Example: top
- df: Check disk space.
 - Example: df -h
- free: Check memory usage.

Example: free -m

Git Commands

Basic Commands

- git init: Start a new Git repository.
 - Example: git init
- git clone: Copy an existing repository.
 - Example: git clone https://github.com/user/repo.git
- git status: Check the status of your files.
 - Example: git status
- git add: Stage changes.
 - o Example: git add file.txt
- git commit: Save changes.
 - o Example:git commit -m "commit message"

Branching & Merging

- git branch: Manage branches.
 - Example: git branch new-branch
- git checkout: Switch branches or restore files.
 - Example: git checkout new-branch
- git merge: Combine branches.
 - o **Example:** git merge new-branch

Remote Repositories

- git remote: Connect to remote repositories.
 - o Example: git remote add origin https://github.com/user/repo.git
- git push: Send changes to a remote repository.
 - o Example: git push origin main
- git pull: Get changes from a remote repository.
 - o Example: git pull origin main

Additional Tips

Aliases: Create shortcuts for commands.

- o **Example:** alias gs='git status'
- **Bash Scripts:** Automate tasks with scripts.