

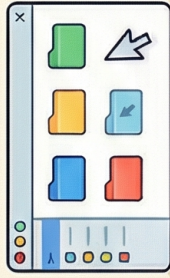
# Terminal Foundations: A Beginner's Guide to Git & GitHub

A high-level roadmap for transitioning from a visual interface to the command line for file management and version control.

## System Essentials & Navigation

CLI vs. GUI

VS.



GUI (Graphical User Interface)



CLI (Command Line Interface)

Text-based shell for direct computer communication.

## Essential Navigation Commands



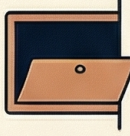
`pwd`

current location



`ls`

list files



`cd`

move between folders




## Package Management with Homebrew

`brew install [tool]`

Add developer software not natively included in macOS.

## The Git & GitHub Workflow



**Git as "Game Checkpoints"**  
Git creates snapshots of your code so you can revert to previous versions.

### The Stage-Commit-Push Cycle



STAGE

**Staged:**  
Files are marked for the next snapshot.



COMMIT

**Committed:**  
Changes are permanently saved to the local database.



PUSH

**Modified:**  
Changes exist but are not yet tracked.



## GitHub: The Cloud Repository

The remote server where your local Git "checkpoints" are safely hosted online.