Install Git

GitHub provides desktop clients that include a graphical user interface for the most common repository actions and an automatically updating command line edition of Git for advanced scenarios.

GitHub Desktop

https://desktop.github.com/

Git distributions for Linux and POSIX systems are available on the official Git SCM website.

Git for all platforms

http://git-scm.com

Configure tooling

Configure user information for all local repositories

```
$ git config --global user.name "[name]"
```

Sets the name you want attached to your commit transactions

```
$ git config --global user.email "[email address]"
```

Sets the email you want attached to your commit transactions

Create repositories

Start a new repository or obtain one from an existing URL

```
$ git init [project-name]
```

Creates a new local repository with the specified name

```
$ git clone [url]
```

Make changes

Review edits and craft a commit transaction

```
$ git status
```

Lists all new or modified files to be committed

```
$ git diff
```

Shows file differences not yet staged

```
$ git add [file]
```

Snapshots the file in preparation for versioning

```
$ git diff --staged
```

Shows file differences between staging and the last file version

```
$ git reset [file]
```

Unstages the file, but preserves its contents

```
$ git commit -m"[descriptive message]"
```

Records file snapshots permanently in version history

Group changes

Name a series of commits and combine completed efforts

```
$ git branch
```

Lists all local branches in the current repository

```
$ git branch [branch-name]
```

Creates a new branch

```
$ git checkout [branch-name]
```

Switches to the specified branch and undates working directory

owitches to the specified branch and updates working directory

```
$ git merge [branch-name]
```

Combines the specified branch's history into the current branch

```
$ git branch -d [branch-name]
```

Deletes the specified branch

Refactor file names

Relocate and remove versioned files

```
$ git rm [file]
```

Deletes the file from the working directory and stages the deletion

```
$ git rm --cached [file]
```

Removes the file from version control but preserves the file locally

```
$ git mv [file-original] [file-renamed]
```

Changes the file name and prepare it for commit

Suppress tracking

Exclude temporary files and paths

```
*.log
build/
temp-*
```

A text file named .gitignore suppresses accidental versioning of files and paths matching the specified patterns

```
$ git ls-files --others --ignored --exclude-standard
```

Lists all ignored files in this project

Save fragments

Jave Hayrhento

Shelve and restore incomplete changes

```
$ git stash
```

Temporarily stores all modified tracked files

```
$ git stash pop
```

Restores the most recently stashed files

```
$ git stash list
```

Lists all stashed changesets

```
$ git stash drop
```

Discards the most recently stashed changeset

Review history

Browse and inspect the evolution of project files

```
$ git log
```

Lists version history for the current branch

```
$ git log --follow [file]
```

Lists version history for the file, including renames

```
$ git diff [first-branch]...[second-branch]
```

Shows content differences between two branches

```
$ git show [commit]
```

Outputs metadata and content changes of the specified commit

Redo commits

Erase mistakes and craft replacement history

```
$ git reset [commit]
```

Undoes all commits after [commit], preserving changes locally

```
$ git reset --hard [commit]
```

Discards all history and changes back to the specified commit

Synchronize changes

Register a remote (URL) and exchange repository history

```
$ git fetch [remote]
```

Downloads all history from the remote repository

```
$ git merge [remote]/[branch]
```

Combines the remote branch into the current local branch

```
$ git push [remote] [branch]
```

Uploads all local branch commits to GitHub

```
$ git pull
```

Downloads bookmark history and incorporates changes

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COMMUNITY

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