Setting Up Git on Mac 🜉 🍅

Follow these steps to install and configure Git on your Mac.

Check If Git is Installed

Open Terminal and run:

bash CopyEdit git --version

If Git is installed, you'll see the version number, e.g.:

nginx CopyEdit git version 2.39.3

If not, follow the next step to install it.

Install Git on Mac

★ Method 1: Install via Homebrew (Recommended)

1. Install Homebrew (if not already installed)

bash

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/bin/bash -c "\$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"

2. Install Git using Homebrew

bash CopyEdit brew install git

3. Verify the Installation

bash CopyEdit git --version

★ Method 2: Install via Xcode Command Line Tools

Mac comes with a built-in version of Git through Xcode Command Line Tools. To install:

bash CopyEdit xcode-select --install

Once installed, check the version:

bash CopyEdit git --version

3 Configure Git with Your Name and Email

After installation, set up your identity:

```
bash
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git config --global user.name "Your Name"
git config --global user.email "your-email@example.com"
```

▼ This is required for tracking commits properly.

Verify Git Configuration

Run the following command to check your settings:

bash CopyEdit git config --list

Expected output:

ini CopyEdit user.name=Your Name user.email=your-email@example.com

Set Up SSH Key for GitHub (Optional but Recommended)

To avoid entering your password repeatedly while pushing to GitHub, set up SSH authentication:

Generate an SSH Key

bash CopyEdit ssh-keygen -t rsa -b 4096 -C "your-email@example.com"

Press **Enter** for default file location (~/.ssh/id_rsa).

Add SSH Key to GitHub

1. Copy the SSH key:

bash CopyEdit cat ~/.ssh/id_rsa.pub

- 2. Go to GitHub → Settings → SSH and GPG keys → New SSH key
- 3. Paste the copied key and save it.

♦ Test the SSH Connection

bash CopyEdit ssh -T git@github.com

If successful, you'll see:

vbnet

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Hi <username>! You've successfully authenticated, but GitHub does not provi de shell access.

Clone a Repository & Start Using Git

To clone a repository from GitHub:

bash
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git clone git@github.com:your-username/repository-name.git

Navigate into the cloned folder:

bash CopyEdit cd repository-name

Start tracking files with Git! 🎉

o Next Steps

- ▼ Practice Git commands like git add , git commit , git push
- ✓ Set up gitignore for ignoring unnecessary files
- ▼ Create a test project and push it to GitHub