

## Title: Installing Git and Creating Your First GitHub Project

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### Part 1: Installing Git on Windows

#### Step 1: Download Git

- Visit the official website: <https://git-scm.com/downloads>
- Click **Download for Windows**
- The installer (e.g., `Git-2.x.x-64-bit.exe`) will start downloading automatically.

#### Step 2: Run the Installer

- Double-click the downloaded file.
- Click **Next** through the setup wizard.
- Choose your preferred text editor (VS Code recommended).
- Leave other settings as default.
- Click **Install**.

#### Step 3: Verify Installation

- Open **Command Prompt** or **Git Bash**.
- Type:  

```
git --version
```
- You should see the installed version (e.g., `git version 2.45.0`).

#### Step 4: Configure Git

- Open **Git Bash** and set your credentials:  

```
git config --global user.name "Your Name"  
git config --global user.email "your.email@example.com"
```
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## Part 2: Installing Git on macOS

### Step 1: Install via Homebrew (Recommended)

If Homebrew is not installed, install it using:

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

Then install Git:

```
brew install git
```

### Step 2: Verify Installation

```
git --version
```

### Step 3: Configure Git

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

Alternatively, download the macOS installer from <https://git-scm.com/download/mac> and follow the prompts.

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## Part 3: Creating Your First Git Project

### Step 1: Create a Local Project Folder

```
mkdir MyFirstGitProject  
cd MyFirstGitProject
```

### Step 2: Initialize Git Repository

```
git init
```

### Step 3: Create Your First File

```
echo "# My First Git Project" > README.md
```

### Step 4: Stage and Commit Changes

```
git add .  
git commit -m "Initial commit"
```

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## Part 4: Uploading to GitHub

### Step 1: Create a Repository on GitHub

1. Log in to <https://github.com>

2. Click **New Repository**
3. Enter repository name (e.g., MyFirstGitProject)
4. Choose **Public** or **Private**
5. Click **Create Repository**

## Step 2: Connect Local Repo to GitHub

Copy the GitHub remote URL (HTTPS preferred):

```
git remote add origin https://github.com/yourusername/MyFirstGitProject.git
```

## Step 3: Push Local Code to GitHub

```
git branch -M main  
git push -u origin main
```

## Step 4: Verify on GitHub

- Visit your repository URL.
- You'll see your uploaded files and README.

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## Part 5: Summary

- Install Git on Windows or macOS
  - Configure your Git identity
  - Initialize your first Git project
  - Push your project to GitHub
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