

# Instructions for Installing Git

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## For Ubuntu/Debian-based systems

1. Update the package index:

```
sudo apt update
```

2. Install Git:

```
sudo apt install git
```

3. Verify the installation:

```
git --version
```

This command should return the installed version of Git.

4. **For Conda environment installation:** If you want to install Git within a specific conda environment, follow these steps:

- (a) Activate your conda environment:

```
conda activate your_env_name
```

- (b) Install Git using conda:

```
conda install git
```

- (c) Verify the installation:

```
git --version
```

## Installing Git on Windows

To install Git on Windows, follow these steps:

1. Download the Git installer for Windows from the official website:

```
https://git-scm.com/download/win
```

2. Run the installer and follow the installation wizard.
3. During the installation, you will be prompted with several configuration options:
  - **Select Components:** You can leave the default options checked.
  - **Choosing the editor used by Git:** Select your preferred text editor (e.g., Vim, Nano, Notepad++).
  - **Adjusting your PATH environment:** Select the default option to enable Git from the command line.
  - **Choosing HTTPS transport backend:** Select "Use the OpenSSL library."
  - **Configuring the line ending conversions:** Select "Checkout Windows-style, commit Unix-style line endings."
4. After installation, open Git Bash from the Start menu.
5. Verify the installation by running:

```
git --version
```

This should return the installed version of Git.

## Installing Git on macOS

To install Git on macOS, follow these steps:

1. Check if Git is already installed by running:

```
git --version
```

If Git is already installed, you should see the version number.

2. If Git is not installed, you can either install it using *homebrew* or by downloading the macOS Git installer from the official website:

```
https://git-scm.com/download/mac
```

After downloading, run the installer and follow the steps to complete the installation.

3. Verify the installation by running:

```
git --version
```

This should return the installed version of Git.

## Configuration (Optional)

Once Git is installed, you should configure your user name and email as follows:

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