

GIT CMD INSTALLATION AND GIT HUB PROFILE CREATION

- Installing Git on Windows:

The first step is to install Git, a powerful version control tool that will allow you to manage your code and collaborate with others.

Download Git for Windows: Visit the Git website to download the latest Windows installer. Git is available for free, and the download should begin automatically when you select Windows.

Run the Installer:

Open the downloaded .exe file to launch the Git Setup Wizard.

Follow the on-screen prompts. You can choose the default installation options, which are suitable for most users.

You'll see several options, such as "Choosing the default editor" and "Adjusting your PATH environment". It's recommended to select the "Git from the command line and also from 3rd-party software" option for maximum compatibility.

Once the installation finishes, click "Finish."

Verify the Installation:

To confirm that Git was installed correctly, open Command Prompt (search for "cmd" in the Start menu) or Git Bash (installed with Git).

Type the following command:

```
git --version
```

If Git was installed correctly, you should see the version number displayed, which confirms the installation.

Configuring Git on Windows

Now that Git is installed, it's time to set up your basic configurations. This includes setting your name and email, which will be associated with your Git commits.

Open Git Bash: After installation, you'll have access to Git Bash, a command-line tool with Unix-style commands that will make it easier to manage Git.

Set Your Username and Email:

In Git Bash, enter the following commands to configure your name and email. Be sure to use the email associated with your GitHub account.

```
git config --global user.name "Your Name"
```

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

These configurations ensure that any commits you make are associated with your identity, which is especially important when working with collaborators on GitHub.

Optional: Check Your Configuration:

You can view your Git settings by running:

```
git config --list
```

- Creating a GitHub Profile

GitHub is a popular platform that provides a web-based interface for Git repositories, making it easy to collaborate on projects.

Visit GitHub: Go to [GitHub.com](https://github.com) and click on Sign Up.

Create Your Account:

Enter your email address, password, and a unique username. Your username is important as it will be your identifier on GitHub.

GitHub may send a verification code to your email address. Complete the verification process to finalize account creation.

Set Up Your Profile:

Once your account is created, log in and complete your profile details, including adding a profile picture, bio, and other personal information.

You can also personalize your GitHub experience by choosing a theme (dark or light mode) and setting your profile visibility.

Generate an SSH Key for Authentication (Optional, but recommended):

To securely connect your local Git installation with GitHub, you can set up an SSH key.

In Git Bash, use the following command to generate a new SSH key:

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

When prompted, press Enter to save the key in the default location. Then, follow the instructions to add the generated SSH key to your GitHub account by copying the key and adding it to Settings > SSH and GPG keys on GitHub.

By completing these steps, you'll have Git installed on Windows, set up for use with your personal configurations, and linked to your new GitHub profile. With Git and GitHub set up, you're now ready to create, manage, and collaborate on code repositories from your Windows machine.

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