Installing and Setting Up Git for Version Control

Step 1: Download and Install Git

1. Go to https://git-scm.com/downloads
2. Download the installer for **Windows**.
3. Run the installer:
   - Use default options during setup.
   - After installation, right-click anywhere and use "Git Bash".

Step 2: Configure Git

Open Git Bash and run:

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

Verify setup:

git config --list

Step 3: Create a Simple Project

Create a folder for your project:

mkdir my-website
cd my-website

Create a basic HTML file:

echo "<!DOCTYPE html><html><head><title>My Site</title></head><body><h1>Hello, World!</h1></body></html>" > index.html

Step 4: Initialize Git Repository

git init
git add .
git commit -m "Initial commit with index.html"

Step 5: Create a Remote Repository on GitHub

1. Go to [GitHub](#) or [GitLab](#)
2. Log in or create an account.
3. Click **"New Repository"**
4. Name it: my-website
5. Don't select **README**, license, or .gitignore (you already have your own).
6. Click **Create Repository**

◆ Step 6: Push Your Code to GitHub

Now link your local folder to the GitHub repo:

```bash
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git remote add origin https://github.com/YOUR_USERNAME/my-website.git
git branch -M main
git push -u origin main
```

Explanation:

- origin: nickname for your GitHub repo.
- main: the default branch name.
- -u: tells Git to remember this remote and branch, so you can just use git push from now on.
- You've now uploaded your local project to GitHub!