

Git Commands

Step 1: Set Up Git on Your System

1. **Open Command Prompt (or Terminal on macOS/Linux).**
2. **Configure Git with your username and email** (these details will be associated with your commits):

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

Step 2: Create a GitHub Repository

1. Go to [GitHub.com](https://github.com) and sign in (or create an account if you don't have one).
2. Click on the + sign at the top-right corner and select **New repository**.
3. Fill in the repository name, description, and set the visibility to either public or private.
4. Click **Create repository**.

You will see instructions for pushing an existing repository or initializing a new repository. We'll follow the second option.

Step 3: Navigate to Your Project Directory

1. **Open Command Prompt (or Terminal)** and navigate to the folder where your project files are stored:

```
cd path/to/your/project
```

For example:

```
cd C:\Users\YourUsername\Documents\MyProject
```

Step 4: Initialize the Local Repository

1. Initialize the Git repository:

```
git init
```
2. **Add the remote GitHub repository** (replace <username> and <repository> with your actual GitHub username and repository name):

```
git remote add origin https://github.com/<username>/<repository>.git
```

Step 5: Stage Your Files for Commit

1. **Add all files** to the staging area:

```
git add .
```

This will add all the files from the current directory to the staging area. If you want to add specific files, you can do:

```
git add <filename>
```

Step 6: Commit the Files

1. **Commit the files** to the local repository with a message:

```
git commit -m "Initial commit"
```

Step 7: Push the Files to GitHub

1. **Push the files** from your local repository to GitHub:

```
git push -u origin master
```

If your repository is newly created and empty, this will push your files to GitHub. If prompted, enter your GitHub username and personal access token (GitHub no longer supports password authentication).

Step 8: Verify on GitHub

1. Go back to your GitHub repository in the browser, and you should see all your files uploaded.

Additional Notes

- **For Private Repositories:** If your repository is private, you'll need to authenticate using your GitHub personal access token when pushing your files.
- **Track Changes:** From now on, if you make any changes to your files, you can add, commit, and push them by running the following:

```
git add .  
git commit -m "Describe the changes"  
git push
```