

## Title: Complete Guide to Uploading Projects to GitHub via CMD using Git and GitHub CLI

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**Introduction** This guide will cover everything you need to know to upload your projects to GitHub entirely using the command line. We will go from installing Git and GitHub CLI, configuring them, creating repositories, adding and committing files, and pushing projects. Screenshots are included to illustrate the process.

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### 1. Installing Git

- Go to [Git Downloads](#) and download the version for your OS.
- Install Git using the default options.
- Verify installation:

```
git --version
```

Screenshot: `git --version` output

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### 2. Installing GitHub CLI

- Download GitHub CLI from <https://cli.github.com/>.
- Install using default options.
- Verify installation:

```
gh --version
```

Screenshot: `gh --version` output

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### 3. Configuring Git

Set your username and email for Git:

```
git config --global user.name "YourName"  
git config --global user.email "youremail@example.com"
```

Screenshot: CMD showing commands and confirmation

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## 4. Navigating to Your Project

```
cd C:\Users\YourName\ProjectFolder
```

*Screenshot: CMD showing project directory*

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## 5. Initializing Git Repository

```
git init
```

*Screenshot: CMD showing* Initialized empty Git repository

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## 6. Adding and Committing Files

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

*Screenshot: CMD showing files added and committed*

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## 7. Creating Repository on GitHub via CLI

Authenticate GitHub CLI:

```
gh auth login
```

- Choose **GitHub.com** - Choose **HTTPS** - Authenticate via browser

Create repository:

```
gh repo create MyProject --public --source=. --remote=origin
```

*Screenshot: CMD showing repository creation*

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## 8. Pushing Code to GitHub

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

*Screenshot: CMD showing push to GitHub*

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## 9. Verifying Upload

- Open GitHub in your browser.
  - Navigate to your repository `MyProject`.
  - Confirm that all files are uploaded. *Screenshot: GitHub repo page showing files*
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## 10. Tips and Best Practices

- Always commit often.
  - Use meaningful commit messages.
  - Pull before pushing if repo exists online.
  - Use `.gitignore` for unnecessary files.
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**Conclusion** You now have a fully functional workflow to upload projects to GitHub entirely via CMD. This PDF can serve as a reference whenever you forget commands.

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