

# Git Walkthrough for Students

## Step 1: Installing Git

1. Visit <https://git-scm.com/downloads>
2. Choose your OS (Windows, macOS, Linux)
3. Follow install instructions
4. Run: `git --version`
5. If version appears, Git is installed
6. Issues? Check <https://git-scm.com/doc>

## Step 2: Creating a Basic HTML File

Create a file named `index.html` and add this:

```
<!DOCTYPE html>
<html>
  <head>
    <title>My First Git Project</title>
  </head>
  <body>
    <h1>Hello, Git!</h1>
  </body>
</html>
```

## Step 3: Initializing a Git Repository

1. Open terminal
2. Navigate to your project folder
3. Run: `git init`

## Step 4: Adding and Committing Your First Version

1. Run: `git add .`
2. Run: `git commit -m "Initial commit"`

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## Step 5: Registering for GitHub

1. Visit <https://github.com>
2. Sign up or log in

## Step 6: Creating a New Private Repository

1. Click '+' -> New repository
2. Name it
3. Choose 'Private'
4. Click 'Create'

## Step 7: Creating a Personal Access Token

1. GitHub -> Settings -> Developer settings -> Tokens
2. Generate token
3. Copy & use it

## Step 8: Pushing Your Local Repository

Use the following commands:

```
git remote add origin https://github.com/your-username/your-repo.git  
git branch -M main  
git push -u origin main
```

## Step 9: Checking Your Work

1. Visit your GitHub repository page
2. Ensure files and commits are visible

## Step 10: Mini Quiz - Test Yourself!

1. What command initializes a Git repo?
2. How do you create a private GitHub repository?

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3. How do you push to GitHub?
4. What is a personal access token?
5. Why keep a repo private?
6. What command checks repo status?
7. How do you stage files?
8. How do you commit changes?
9. How to view commit history?
10. Purpose of README.md?

### Quiz Answers

#	Answer
1	git init
2	GitHub -> '+' -> New repository -> Name -> Private
3	git push origin main
4	Used to authenticate with GitHub when pushing code
5	To protect sensitive code or files
6	git status
7	git add . or git add filename
8	git commit -m "message"
9	git log
10	README.md explains the project, usage, and info