

Expert Systems

Git Workflow for Students

Dr. Mohammed A. Altahrawi

University College of Applied Sciences

December 13, 2024



جامعة التقنية المعمدانية
University College of Applied Sciences

Outlines

- 1 Installing Git on Windows
- 2 Own Directory and preparing for coding
- 3 cloning and Creating a New Branch
- 4 Pushing a New Branch



الجامعة الإسلامية للعلوم التطبيقية
University College of Applied Sciences

Outlines

- 1 Installing Git on Windows
- 2 Own Directory and preparing for coding
- 3 cloning and Creating a New Branch
- 4 Pushing a New Branch



الجامعة الإسلامية للعلوم التطبيقية
University College of Applied Sciences

Installing Git on Windows

- ① Go to the official Git website: <https://git-scm.com/>
- ② Download the Windows installer.
- ③ Run the installer and follow these steps:
 - Select **Use Git from the Windows Command Prompt** during installation.
 - Enable **Git Credential Manager** (optional but recommended).
- ④ Finish the installation.
- ⑤ Verify installation:
 - Open Command Prompt or Git Bash.
 - Run: `git --version`
- ⑥ Git is now ready to use.



The screenshot shows the official Git website at <https://git-scm.com/downloads/win>. The page features a large orange 'git' logo with the tagline 'distributed-is-the-new-centralized'. On the left, there's a sidebar with links for 'About', 'Documentation', 'Downloads' (which is highlighted in red), and 'Community'. Below the sidebar is a small box about the 'Pro Git book'. The main content area is titled 'Download for Windows' and contains a message encouraging users to click to download the latest 64-bit version. It also lists other download options like 'Standalone Installer', '32-bit Git for Windows Setup', and '64-bit Git for Windows Setup'. Further down, it provides instructions for using 'winget' to install Git and mentions the current source code release version.

https://git-scm.com/downloads/win

git --distributed-is-the-new-centralized

About Documentation Downloads Community

The entire [Pro Git book](#) written by Scott Chacon and Ben Straub is available to read online for free. Dead tree versions are available on [Amazon.com](#).

Download for Windows

Click here to download the latest (2.47.1) 64-bit version of Git for Windows. This is the most recent maintained build. It was released 18 days ago, on 2024-11-25.

Other Git for Windows downloads

Standalone Installer
32-bit Git for Windows Setup.
64-bit Git for Windows Setup.

Portable ("thumbdrive edition")
32-bit Git for Windows Portable.
64-bit Git for Windows Portable.

Using winget tool
Install `winget` tool if you don't already have it, then type this command in command prompt or Powershell.

```
winget install --id Git.Git -e --source winget
```

The current source code release is version 2.47.1. If you want the newer version, you can build it from the [source code](#).

Figure: Git website

Cont.,

```
C:\Users\ASUS>git --version  
git version 2.47.1.windows.1
```

```
C:\Users\ASUS>|
```

Figure: Check Git version on windows Command Prompt



المدينة الجامعية للعلوم التطبيقية
University College of Applied Sciences

Outlines

- 1 Installing Git on Windows
- 2 Own Directory and preparing for coding
- 3 cloning and Creating a New Branch
- 4 Pushing a New Branch



الجامعة الامميكية للعلوم والتكنولوجيا
University College of Applied Sciences

Open directory using Command Prompt

- Go to any place in your space.
- Make a directory with your name.
- Open the directory by git as shown below.



الجامعة الإسلامية للعلوم التطبيقية
University College of Applied Sciences

Cont.,

```
C:\Users\ASUS>cd "Desktop\My Assignment"  
C:\Users\ASUS\Desktop\My Assignment>
```

Figure: open directory



Outlines

- 1 Installing Git on Windows
- 2 Own Directory and preparing for coding
- 3 cloning and Creating a New Branch
- 4 Pushing a New Branch



الجامعة الإسلامية للعلوم التطبيقية
University College of Applied Sciences

Cloning and Creating a New Branch

① Clone the repository:

- `git clone https://github.com/mtahrawi/Expert-systems.git`

② Check on your windows that the cloning has been done

③ Create and switch to a new branch:

- `git checkout -b <Your name>`
- Example: `git checkout -b mtahrawi`

④ Edit the code by your own code editor:

- Add files or make changes using any convenient code editor.
- Add your name to the main code file.

⑤ Create the branch

- Stage the changes: `git add .`
- Commit the changes: `git commit -m "Added assignment of <your name>"`



Cont.,

```
C:\Users\ASUS\Desktop\My Assignment>git clone https://github.com/mtahrawi/Expert-systems.git
Cloning into 'Expert-systems'...
remote: Enumerating objects: 103, done.
remote: Counting objects: 100% (74/74), done.
remote: Compressing objects: 100% (66/66), done.
remote: Total 103 (delta 37), reused 36 (delta 8), pack-reused 29 (from 1)
Receiving objects: 100% (103/103), 352.31 KiB | 511.00 KiB/s, done.
Resolving deltas: 100% (41/41), done.
C:\Users\ASUS\Desktop\My Assignment>
```

Figure: Step 1: Clone caption

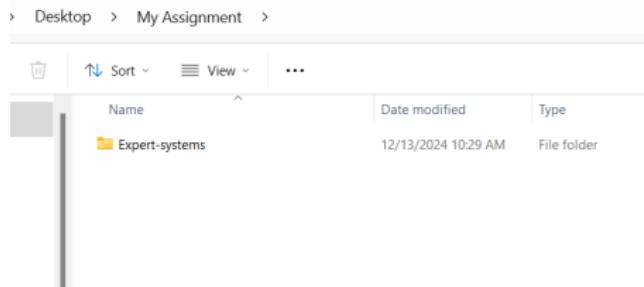


Figure: Step 2: Check the cloned folder in your device

Cont.,

```
C:\Users\ASUS\Desktop\My Assignment\Expert-system>git checkout -b mtahrawi
Switched to a new branch 'mtahrawi'
```

Figure: Step 3: Checkout branch

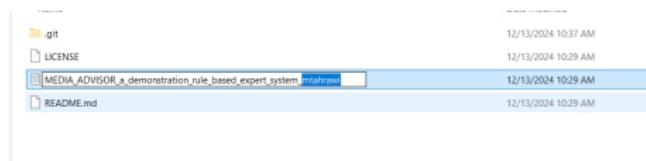


Figure: Step 4: Adding your name to the main code file



جامعة الأميرة نورة
University College of Applied Sciences

Cont.,

```
C:\Users\ASUS\Desktop\My Assignment\Expert-systems>git add .
C:\Users\ASUS\Desktop\My Assignment\Expert-systems>git commit -m "Added assignment of mtahrawi"
[mtahrawi eecbd2c] Added assignment of mtahrawi
 1 file changed, 0 insertions(+), 0 deletions(-)
 rename MEDIA_ADVISOR_a_demonstration_rule_based_expert_system.ipynb => MEDIA_ADVISOR_a_demonstration_rule_based_expert_system_mtahrawi.ipynb (100%)
C:\Users\ASUS\Desktop\My Assignment\Expert-systems>
```

Figure: Step 5: Add branch and commitment



Outlines

- 1 Installing Git on Windows
- 2 Own Directory and preparing for coding
- 3 cloning and Creating a New Branch
- 4 Pushing a New Branch



الجامعة الإسلامية للعلوم التطبيقية
University College of Applied Sciences

Pushing a New Branch

- ① Push the branch to the repository:
 - git push origin <branch-name>
 - Example: git push origin **mtahrawi**
- ② Your branch is now available in the mine repository.
- ③ Please wait until I get back with my comments.



جامعة التقنية المعمدانية
University College of Applied Sciences

Cont.,

```
C:\Users\ASUS\Desktop\My Assignment\Expert-systems>git push origin mtahrawi
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 20 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 254 bytes | 254.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'mtahrawi' on GitHub by visiting:
remote:     https://github.com/mtahrawi/Expert-systems/pull/new/mtahrawi
remote:
To https://github.com/mtahrawi/Expert-systems.git
 * [new branch]      mtahrawi -> mtahrawi

C:\Users\ASUS\Desktop\My Assignment\Expert-systems>
```

Figure: push the branch under your own work



THANKS