



Git Robcourse

Want the slides? Go to:

https://github.com/anpom21/Git_Robcourse

Disposition

- Motivation
- What is git?
- Maybe you tried git
- Don't take my word for it
- Git = Control + Collaboration
- Let's use git
- Branching
- Exercises
- Keep branching!



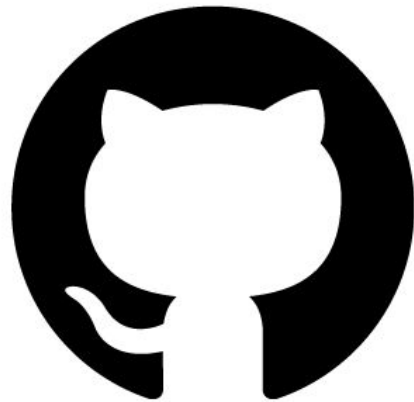
git



GitHub



git \neq



GitHub



Is this you?

- Comment out code to try new functionality?
- Code is working fine, but now it doesn't?
- Want to work from multiple devices?
- Want to collaborate with your project group?



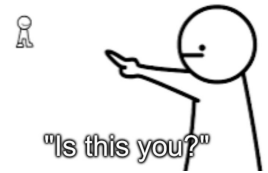
**Delete
old code**



Comment it
out just in case
it was actually
used even
though you checked
all the references

Maybe you tried git

- You only used git add, commit, push and pull
- You only use it when collaborating
- You cry when you encounter merge conflicts



Don't take my word for it



Okay, all right, but what is it?

-

Git = Control + Collaboration

- Distributed version control system
- Tracks changes in your files
- Helps teams collaborate without "*who broke this?!"* moments
- Local vs remote repositories

Git

Article [Talk](#)

From Wikipedia, the free encyclopedia

For other uses, see [Git \(disambiguation\)](#).

Not to be confused with [GitHub](#), [GitLab](#), or [Gitea](#).

Git ([/ɡɪt/](#))^[8] is a [distributed version control system](#)^[9] that tracks versions of [files](#).

Branching = Freedom + Safety

- Develop new code independently from others
- You need to go back to the code that worked?
 - No worries just go back to the main branch

Requirements

- Git
 - If using ubuntu:
 - Git Credential Manager (GCM)
- Can run Python (for code examples)

Who does not have git installed?

Windows:

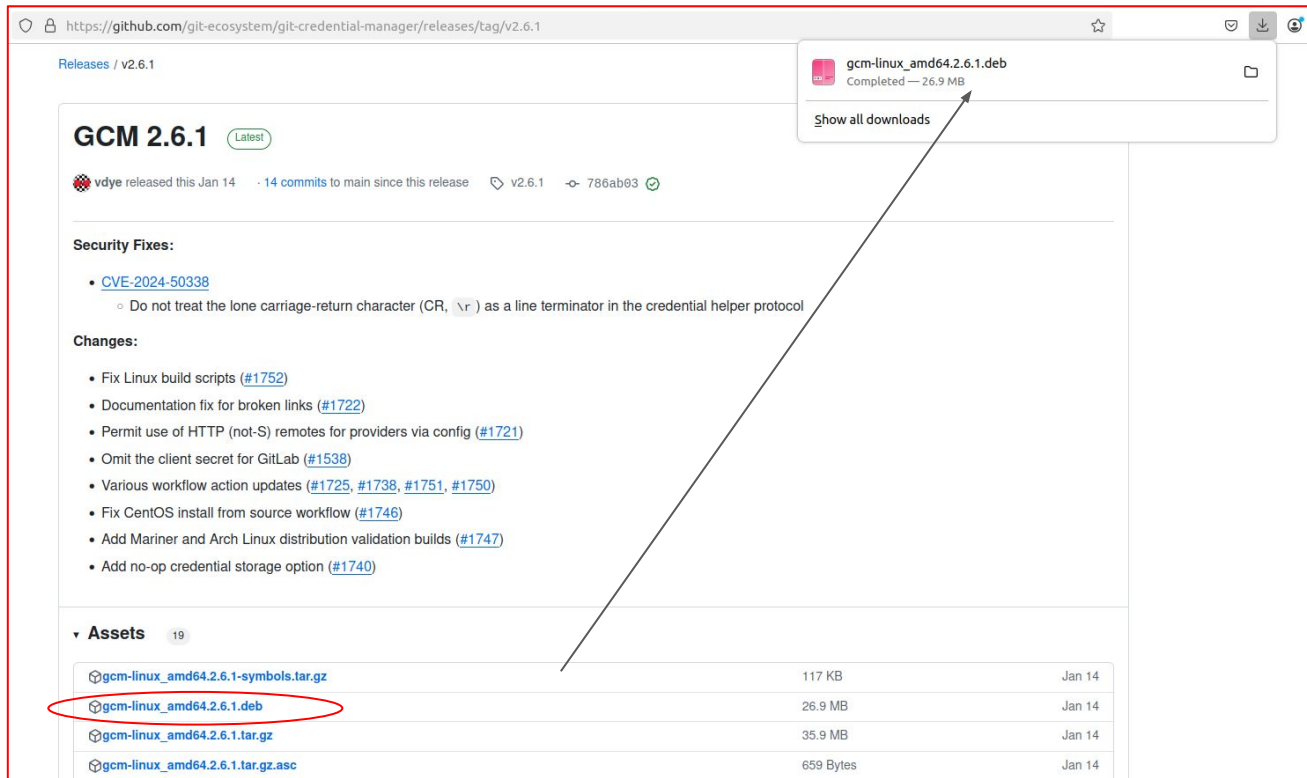
<https://git-scm.com/downloads/win>

Ubuntu:

```
sudo apt-get install git
```

Git credential manager

Download



Releases / v2.6.1

GCM 2.6.1 Latest

vdye released this Jan 14 · 14 commits to main since this release · v2.6.1 · 786ab03

Security Fixes:

- [CVE-2024-50338](#)
 - Do not treat the lone carriage-return character (CR, `\r`) as a line terminator in the credential helper protocol

Changes:

- Fix Linux build scripts ([#1752](#))
- Documentation fix for broken links ([#1722](#))
- Permit use of HTTP (not-S) remotes for providers via config ([#1721](#))
- Omit the client secret for GitLab ([#1538](#))
- Various workflow action updates ([#1725](#), [#1738](#), [#1751](#), [#1750](#))
- Fix CentOS install from source workflow ([#1746](#))
- Add Mariner and Arch Linux distribution validation builds ([#1747](#))
- Add no-op credential storage option ([#1740](#))

Assets 19

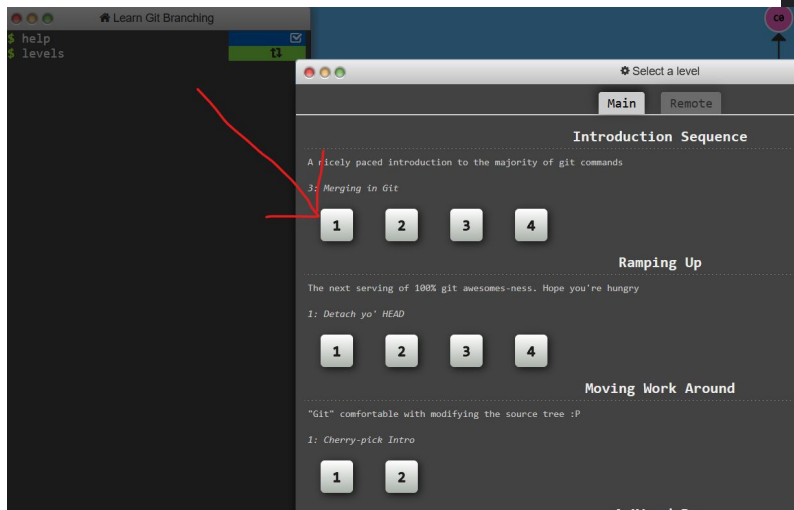
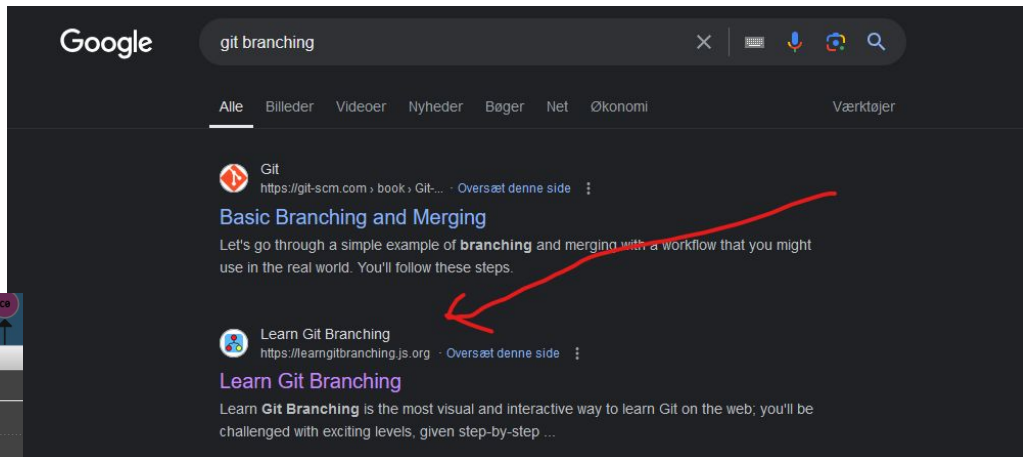
gcm-linux_amd64.2.6.1-symbols.tar.gz	117 KB	Jan 14
gcm-linux_amd64.2.6.1.deb	26.9 MB	Jan 14
gcm-linux_amd64.2.6.1.tar.gz	35.9 MB	Jan 14
gcm-linux_amd64.2.6.1.tar.gz.asc	659 Bytes	Jan 14

gcm-linux_amd64.2.6.1.deb
Completed — 26.9 MB
[Show all downloads](#)

Lets try git!

Learn to move around in Git!

- Google: [Learn git branching](https://git-scm.com/book/en/v2/Basic-Branching-and-Merging)
- Try out git branching for 30 min



ChatGPT

ChatGPT is your very best git friend and USE IT

More exercises

- Go to the git course GitHub
- https://github.com/anpom21/Git_Robcourse
- Clone the repository
- Get to work on the exercises

Keep calm and Git on

- Collaborate fearlessly
- Never lose your progress again
- Track who did what (and why)
- My recommendation
- ChatGPT will help you!



Git'clusion

- Git is a skill you'll (most likely) use every day
- Practice, practice, practice
- When in doubt, ChatGPT is your friend

Thank you!

View the slides in google drive here:

<https://docs.google.com/presentation/d/1FVkn-8Cg6tvnQhC0uTjoK03RYREYePOZROOTBMMravQ/edit?usp=sharing>