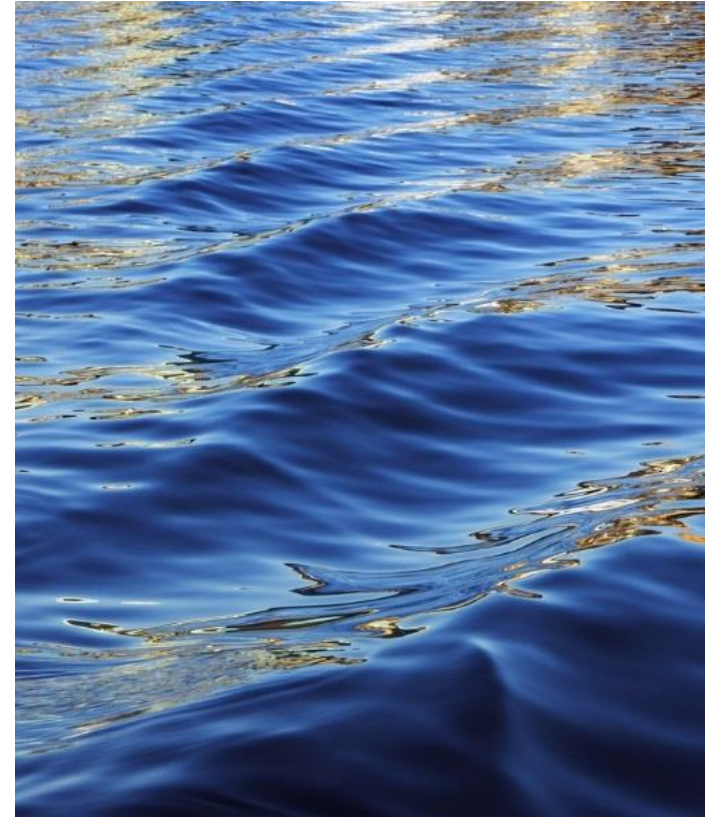




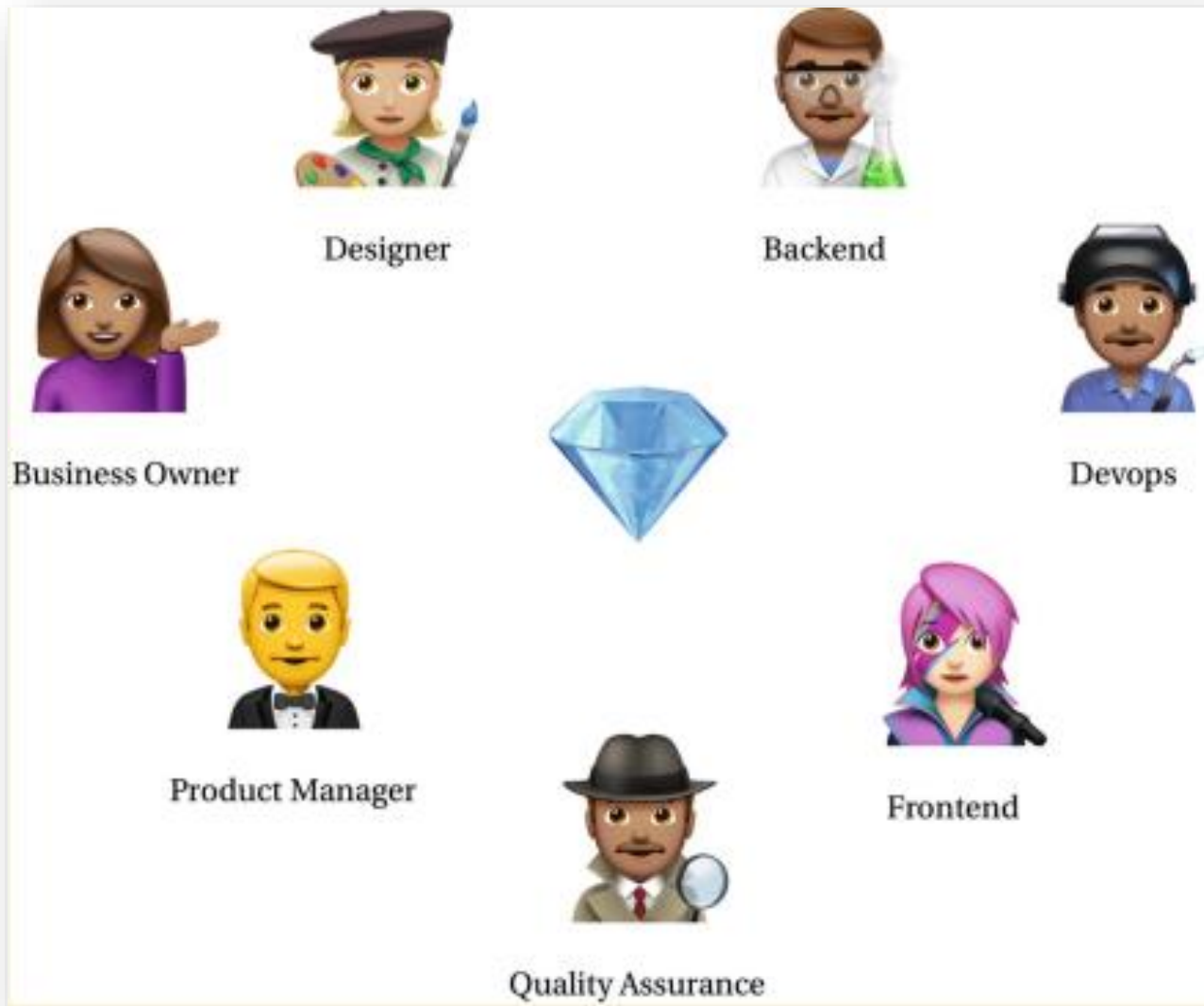
Version Control System (VCS)

Data Structures and Algorithms (310-2101)





Roles and Responsibilities



Designer: Design interaction of User with Product. Make a great User Interface (UI) & User Experience (UX)

Backend: Challenge on software performance.

Frontend: Implement interface & logic of application interaction with User

Quality Assurance (QA): make sure functional working properly. Test on heavy load / make sure software answer request within accept time frame.

Devops (Development + Operations): responsible for all operational aspects of development, make sure current infrastructure can handle expected load.

Frontend

Step by step guide to becoming a frontend developer in 2022

Backend

Step by step guide to becoming a backend developer in 2022

DevOps

Step by step guide for DevOps or operations role in 2022

React

Step by step guide to become a React Developer in 2022

Angular

Step by step guide to become a Angular Developer in 2022

Android

Step by step guide to becoming an Android Developer in 2022

Python

Step by step guide to becoming a Python Developer in 2022

Go

Step by step guide to becoming a Go developer in 2022

Java

Step by step guide to becoming a Java Developer in 2022

DBA

Step by step guide to become a PostgreSQL DBA in 2022

AWS

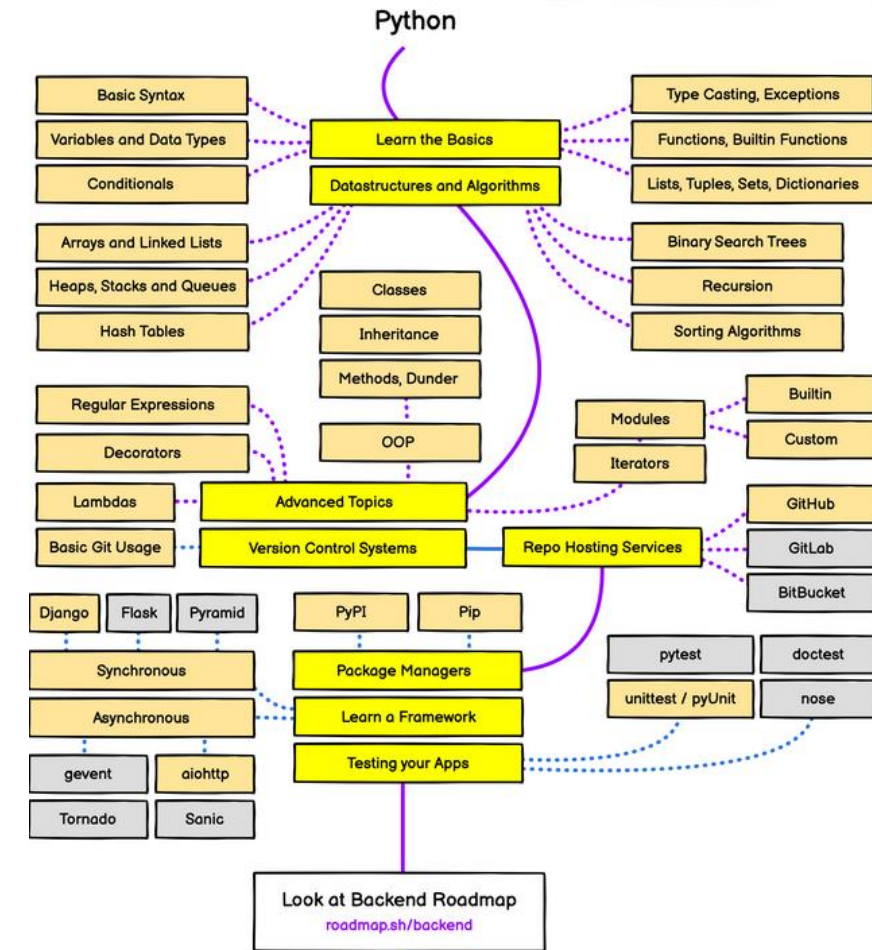
Step by step guide to becoming an AWS in 2022

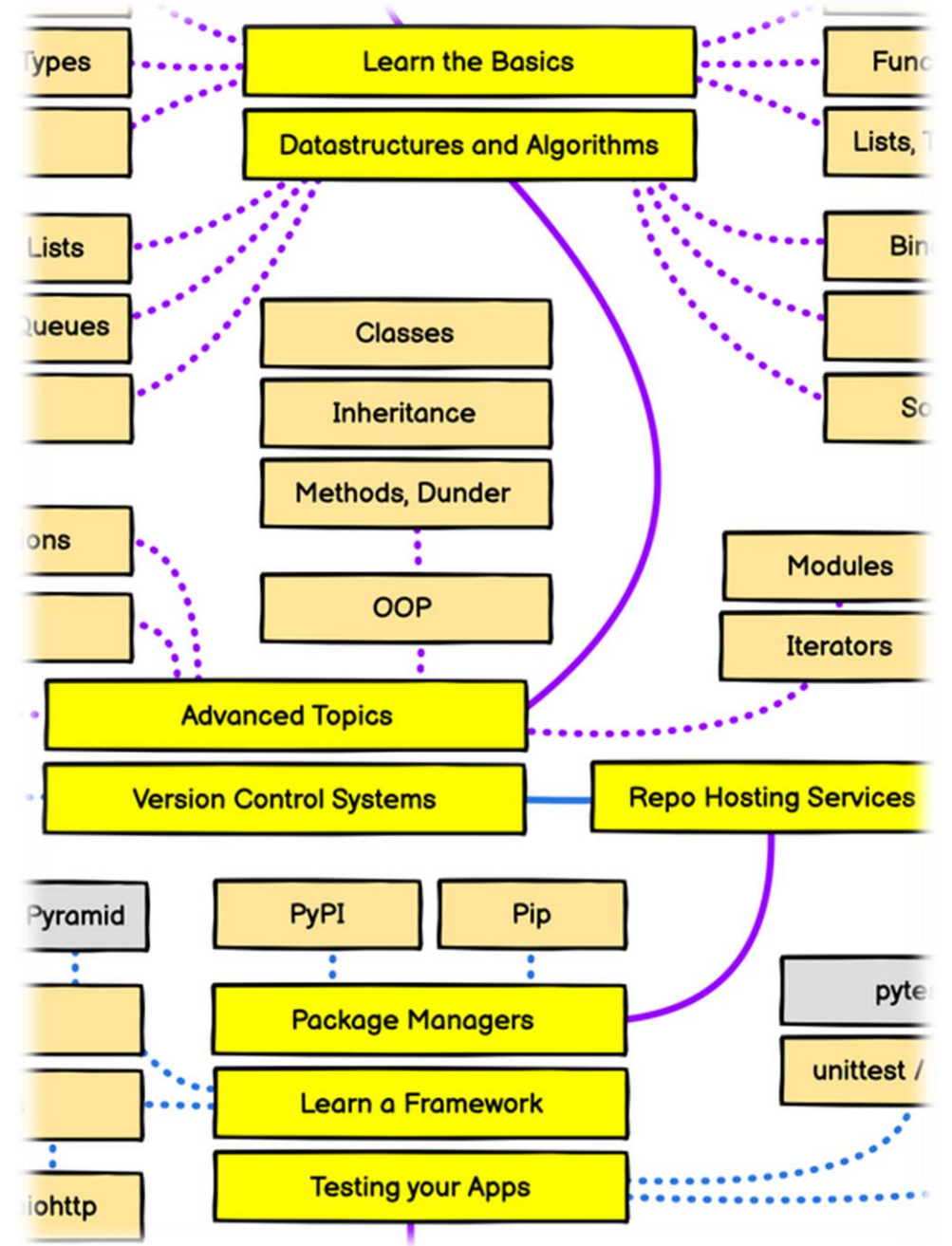
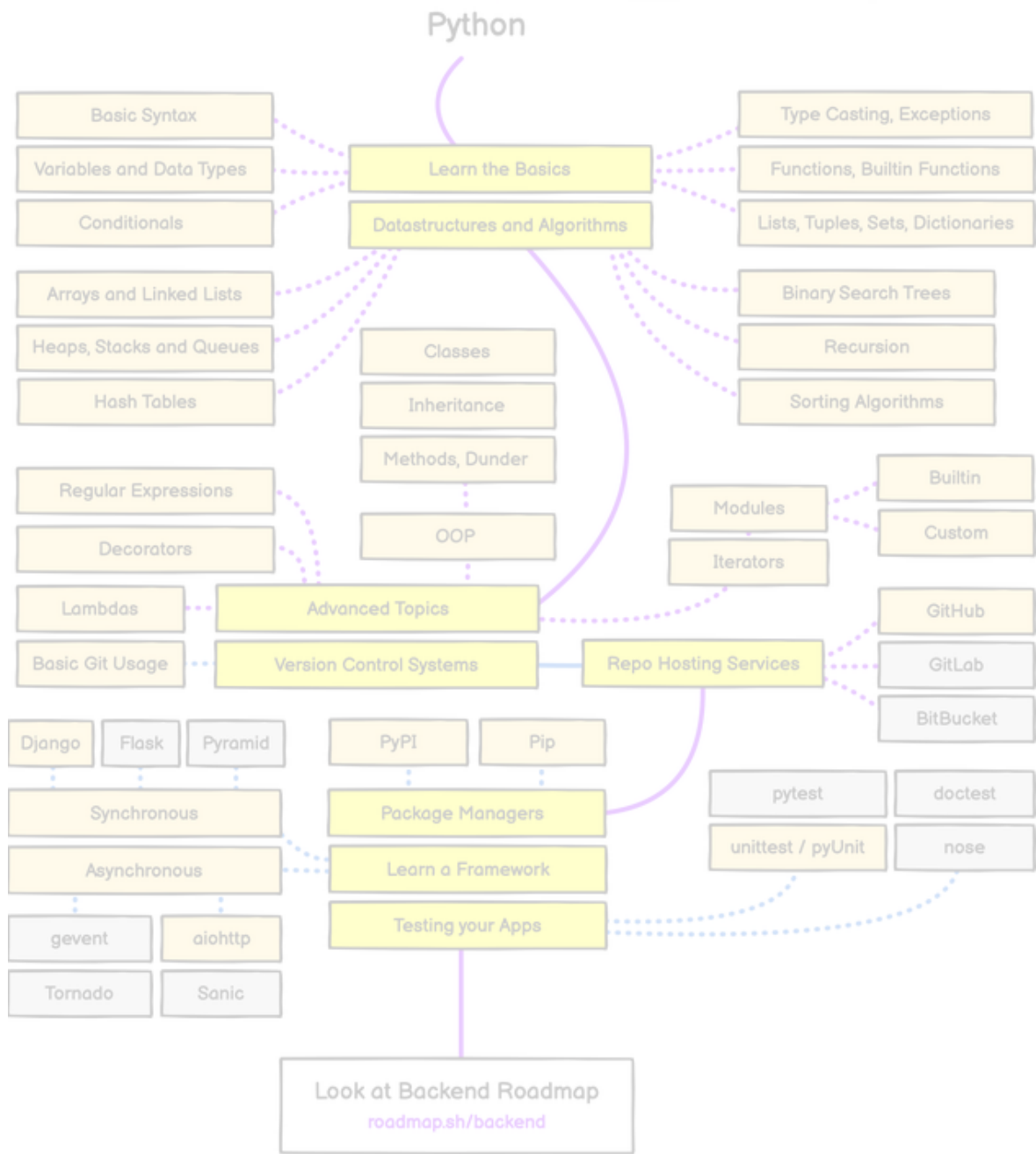
Upcoming

QA

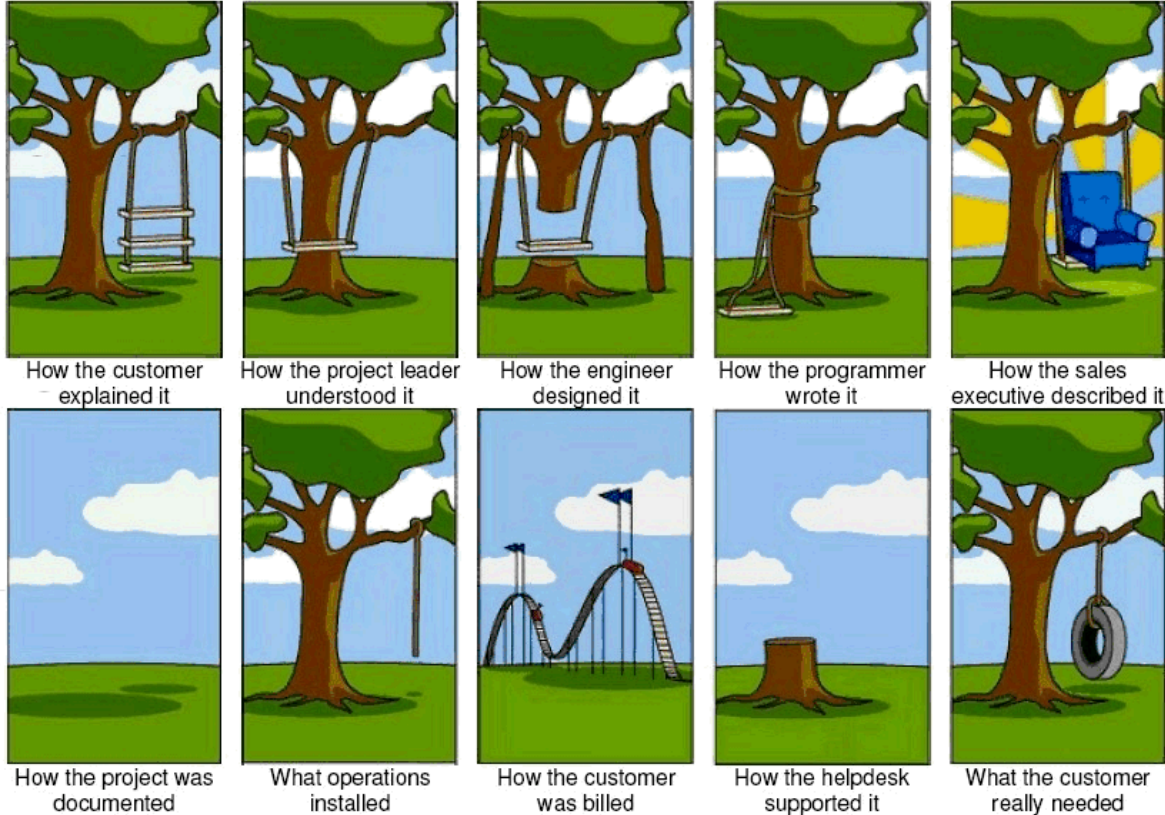
Step by step guide to becoming a modern QA Engineer in 2022









Upcoming





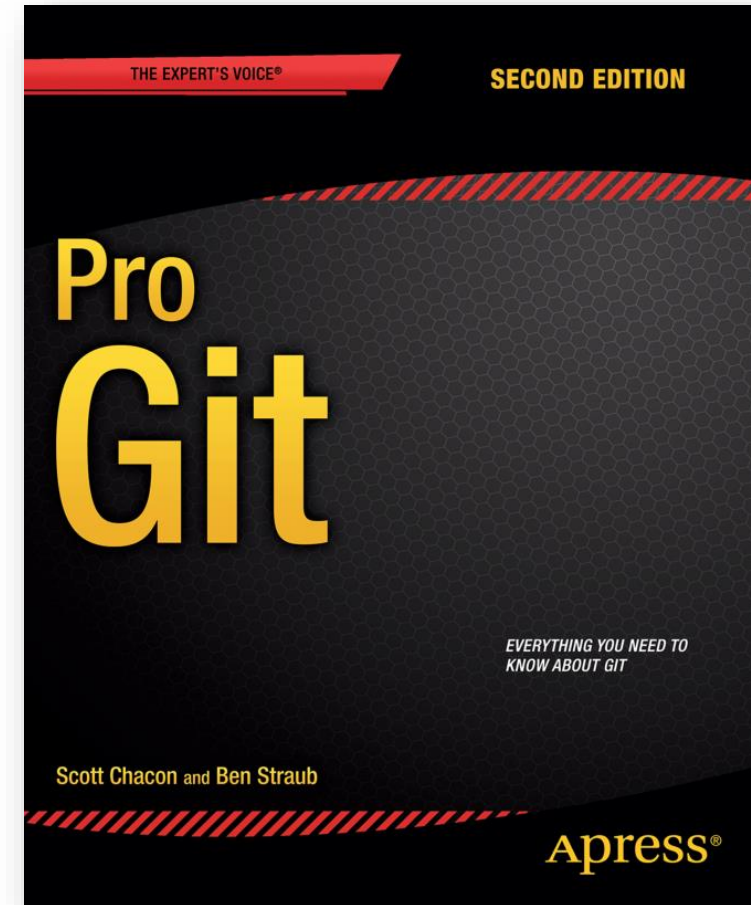
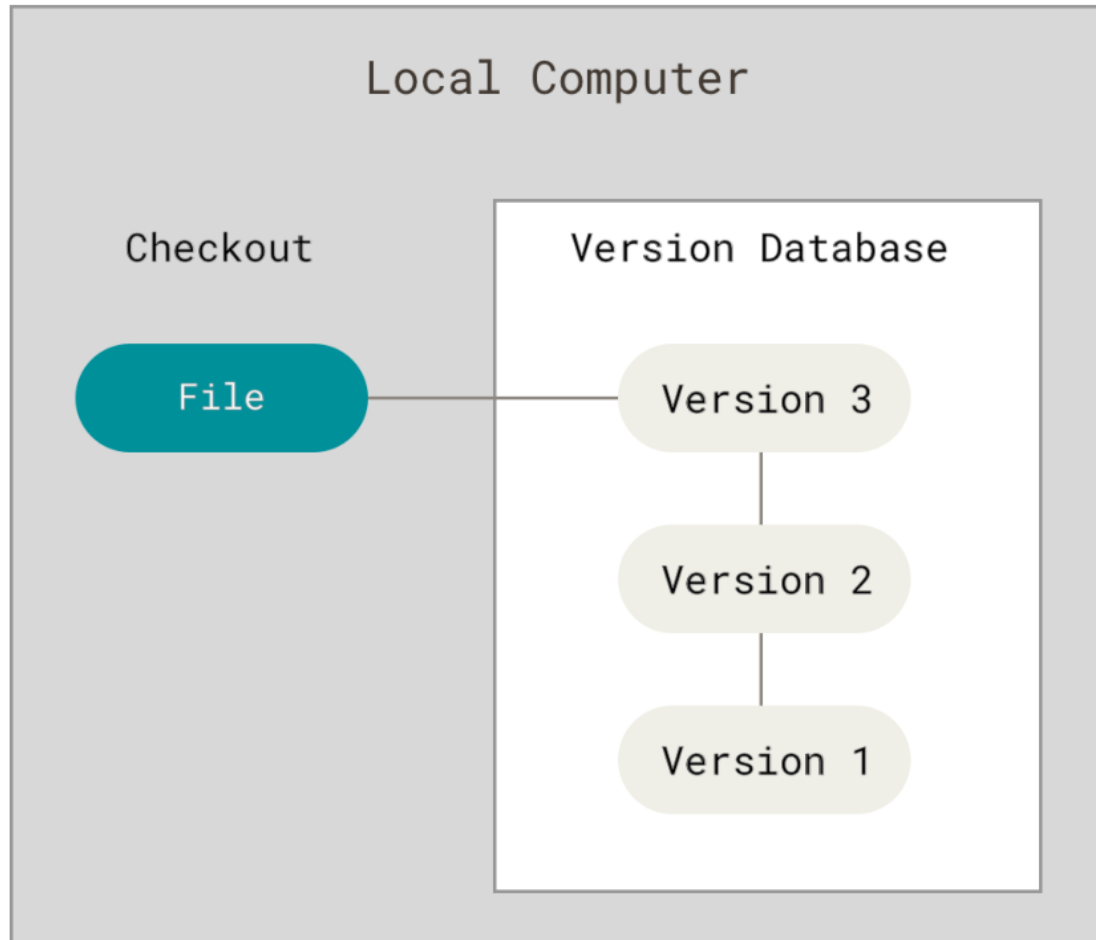
GitHub & Software Version Control



Name	Status	Type
 Project Draft 0.py	✓	Python File
 Project Draft 1.py	✓	Python File
 Project Draft 2.py	✓	Python File
 Project Final.py	✓	Python File
 Project Final2.py	✓	Python File
 Project Final3.py	✓	Python File
 Project Final4 the Last one v2.py	✓	Python File
 Project Final4 the Last one.py	✓	Python File

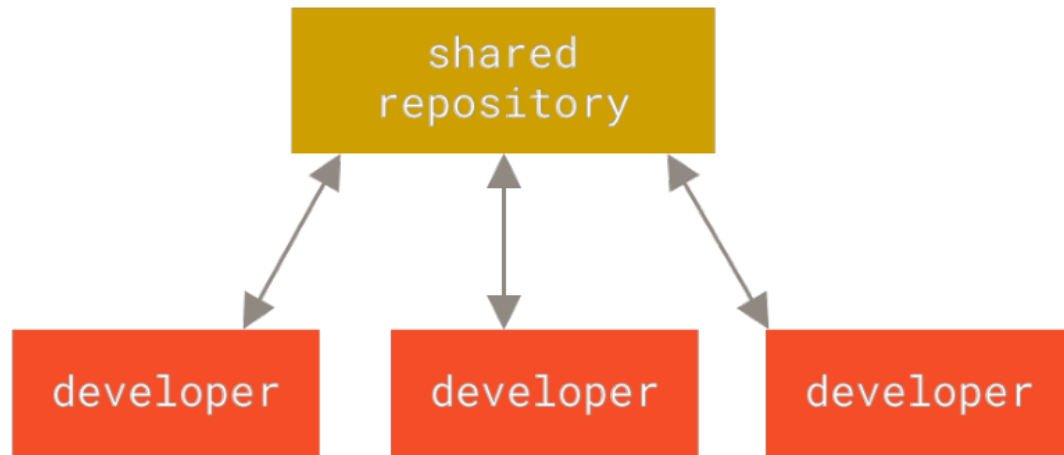
Software Version #1 #2 #3 #4

GitHub & Software Version Control

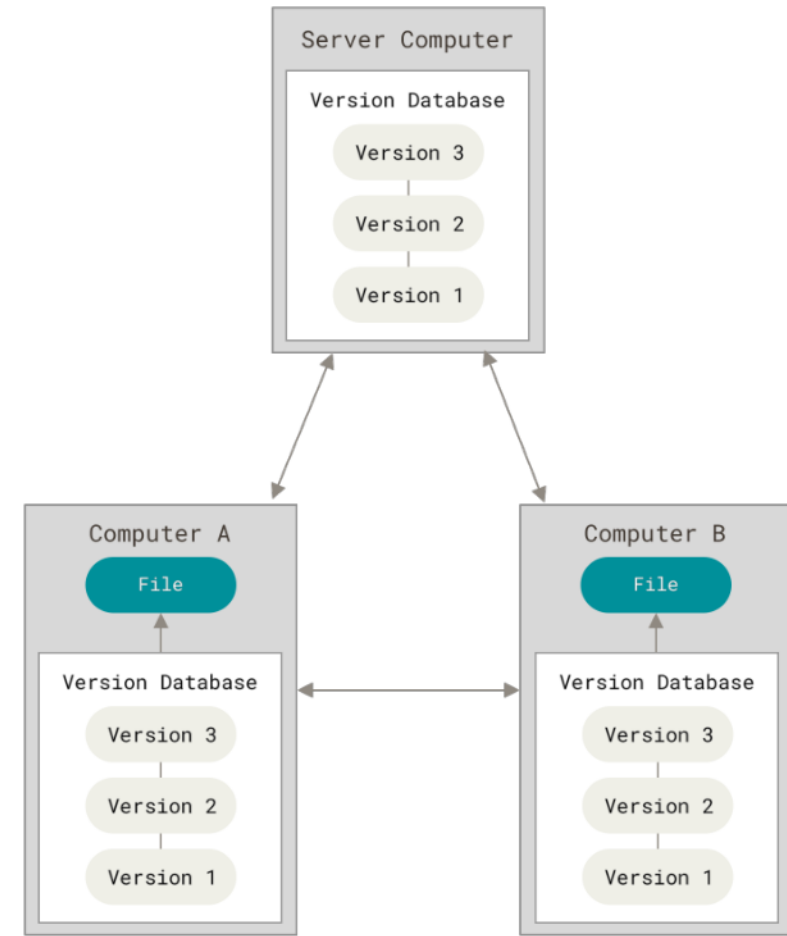


<http://git-scm.com/book/en/v2>

GitHub & Software Version Control



Centralized Version Control Systems



Distributed Version Control Systems



Now, we are going
to install **Git** to our
PC

>>>>



GitHub & Software Version Control



Search entire site...

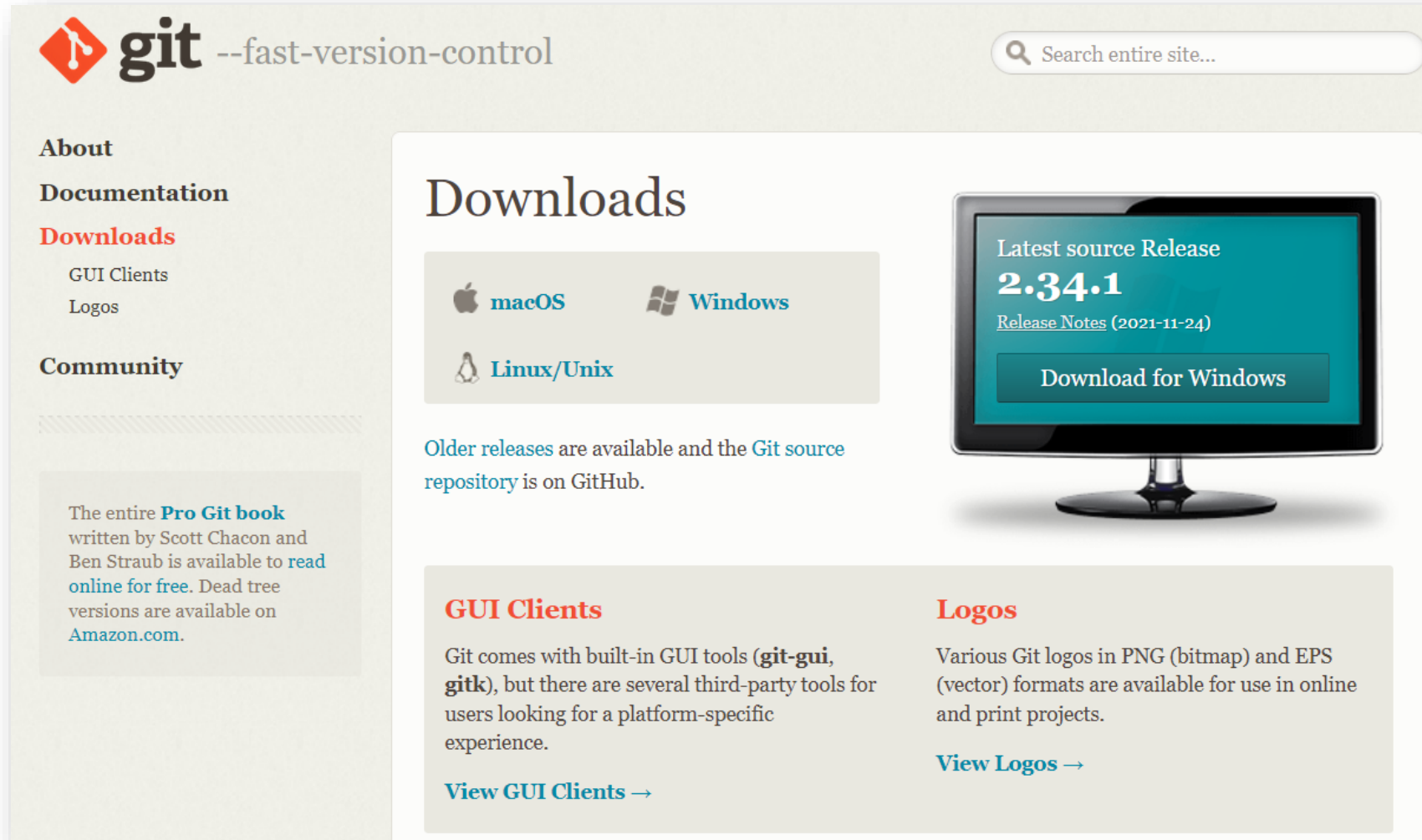
Git is a **free and open source** distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

Git is **easy to learn** and has a **tiny footprint with lightning fast performance**. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like **cheap local branching**, convenient **staging areas**, and **multiple workflows**.

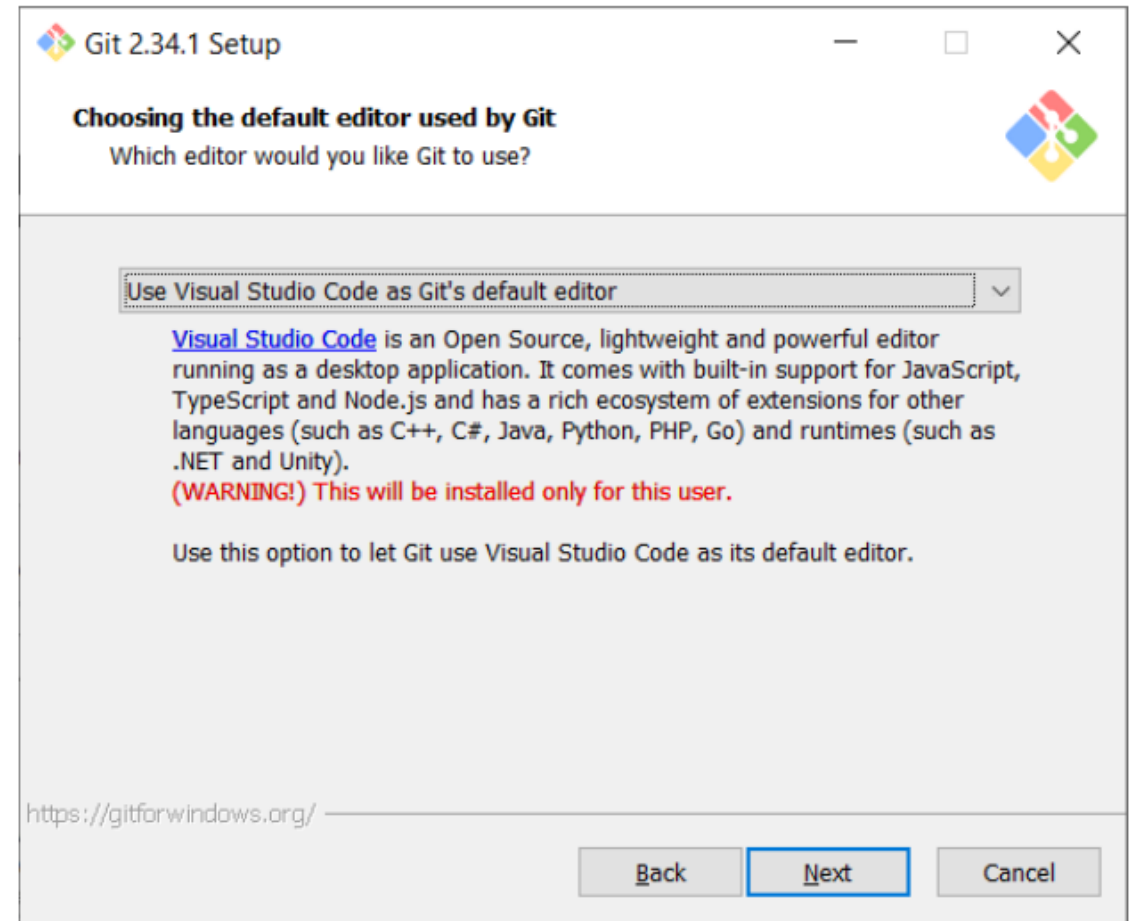
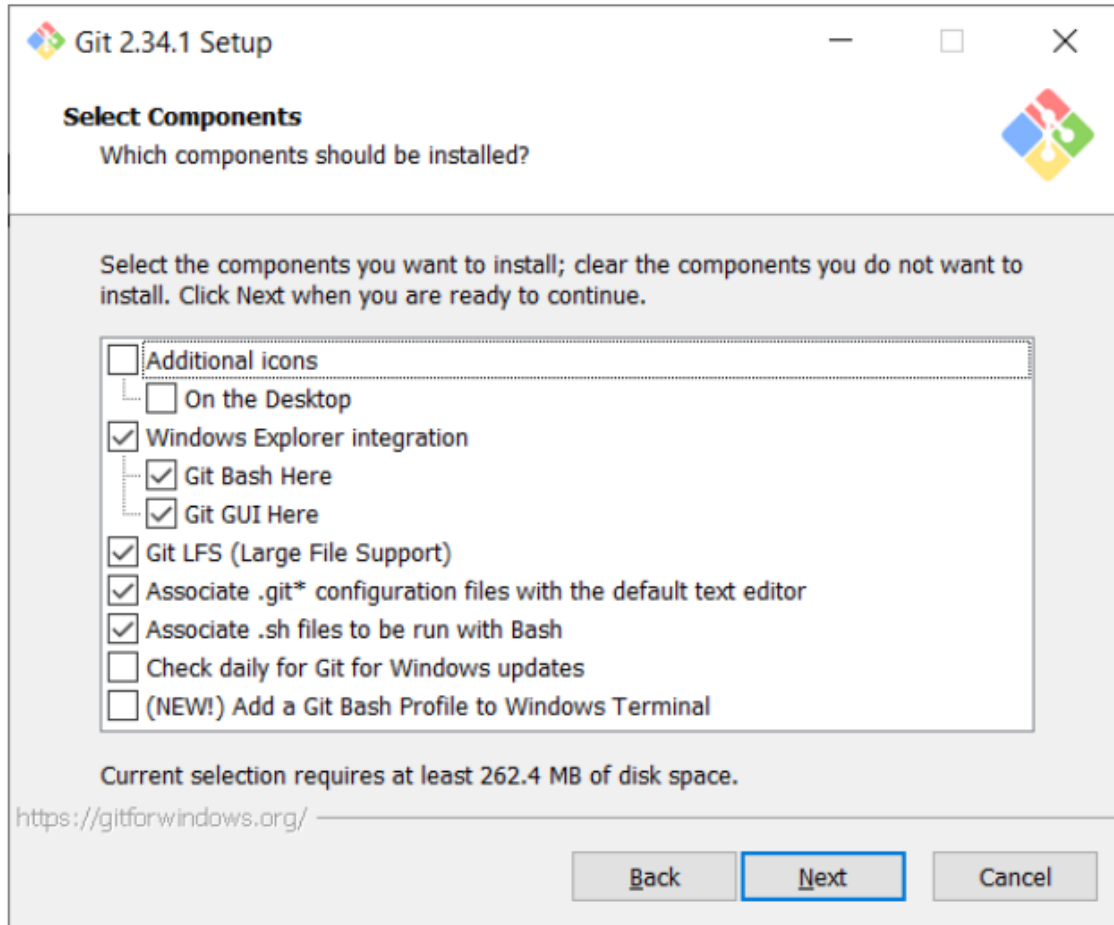


<https://git-scm.com/>

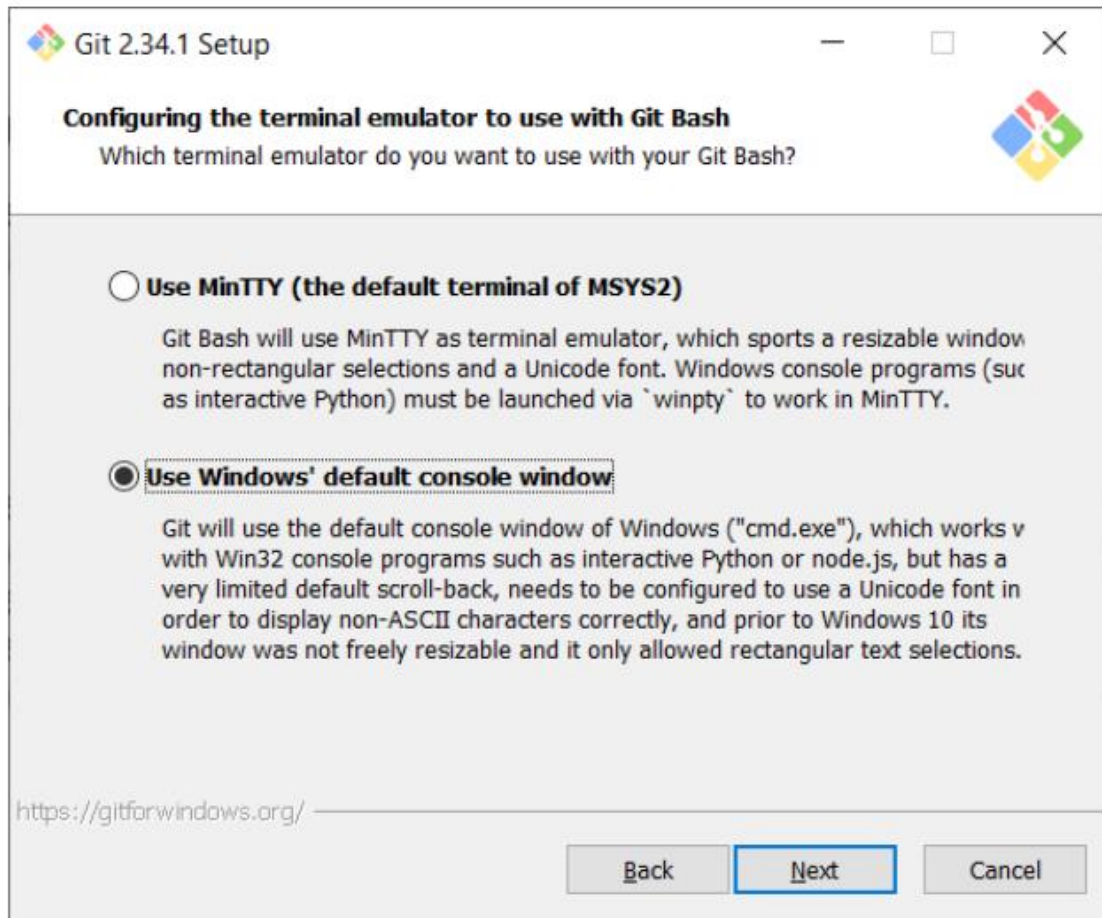
GitHub & Software Version Control



Git & Software Version Control



Git & Software Version Control

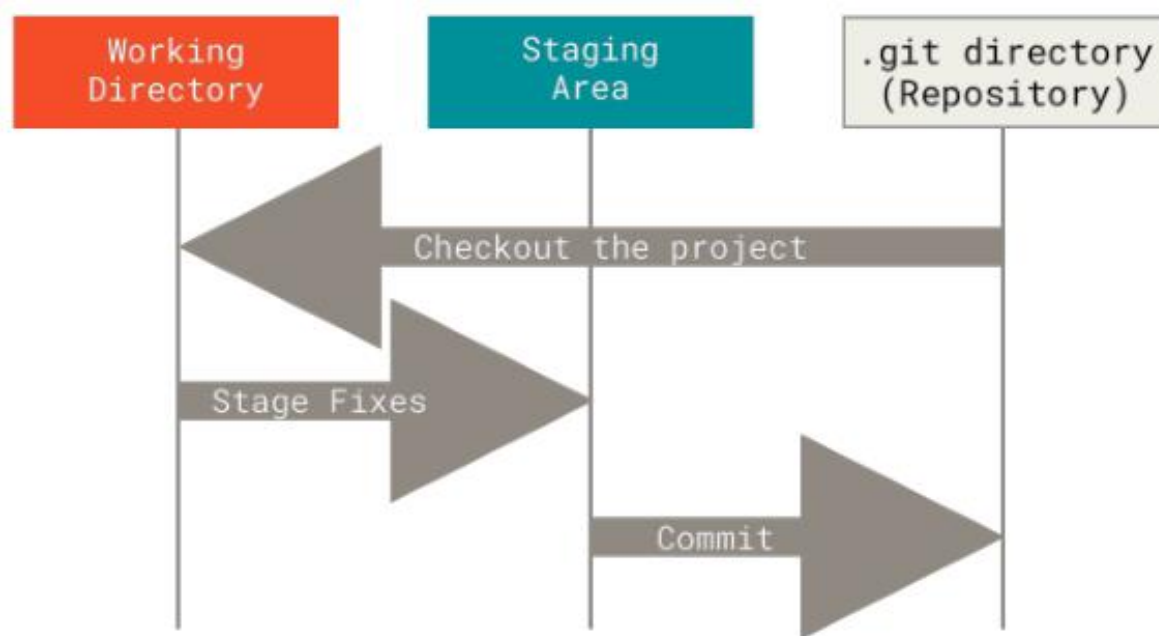


```
C:\>git --version
git version 2.34.1.windows.1

C:\>
```

Git & Software Version Control

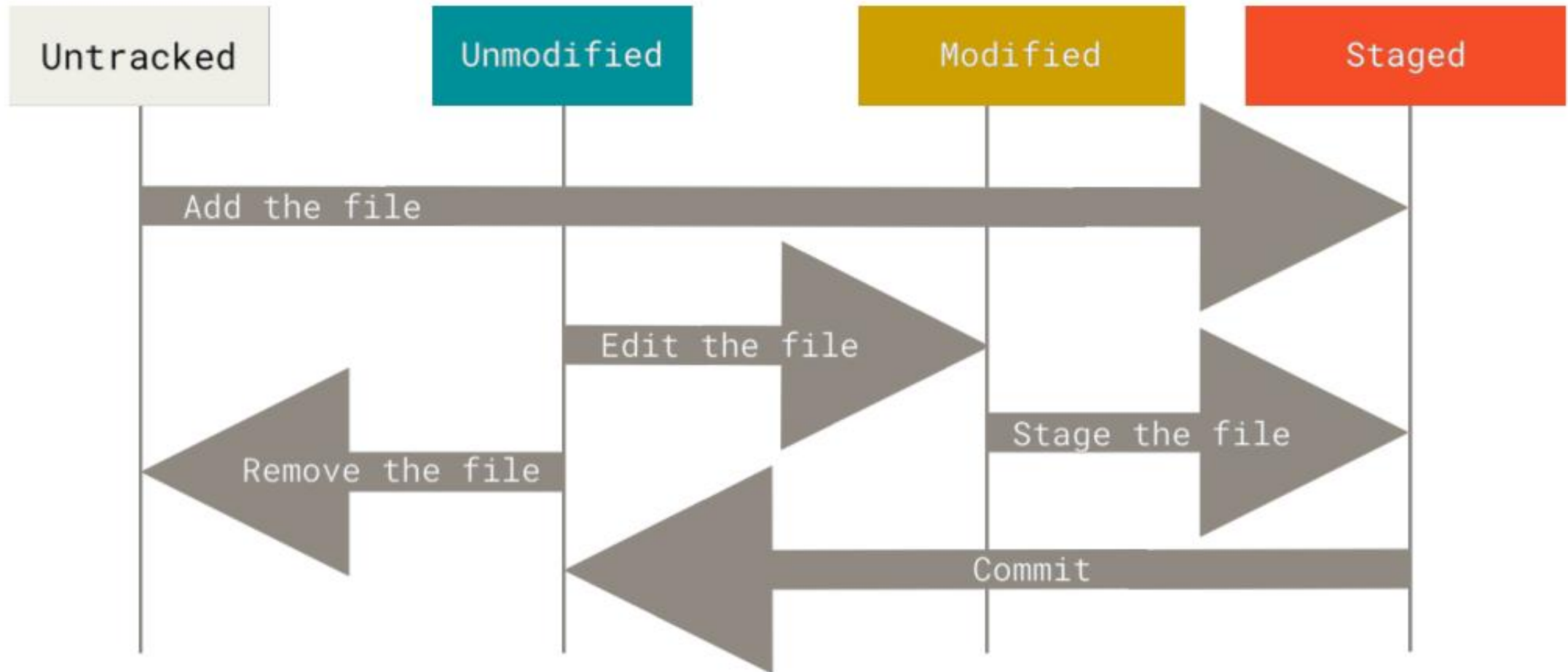
The 3 Stages of Git



The basic Git workflow

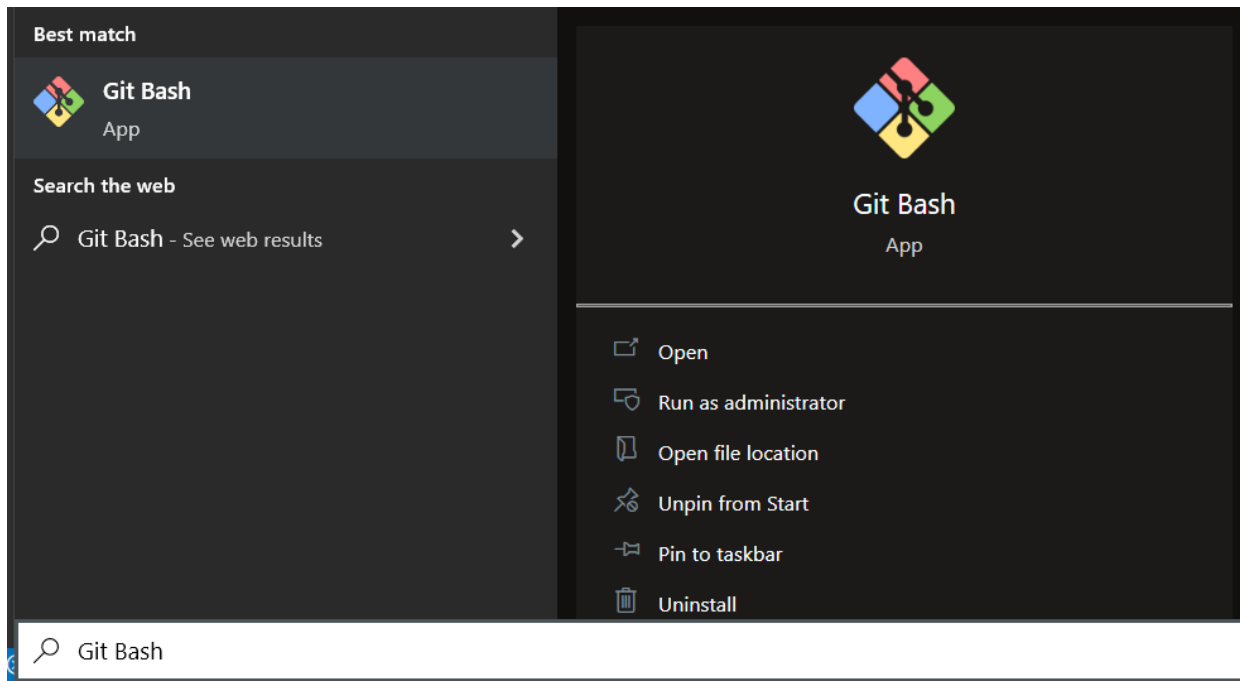
- 1) You modify files in your working directory
- 2) You selectively stage just those file(s) you want to commit
- 3) You do a commit, which takes the file to stores in Git directory

Git & Software Version Control

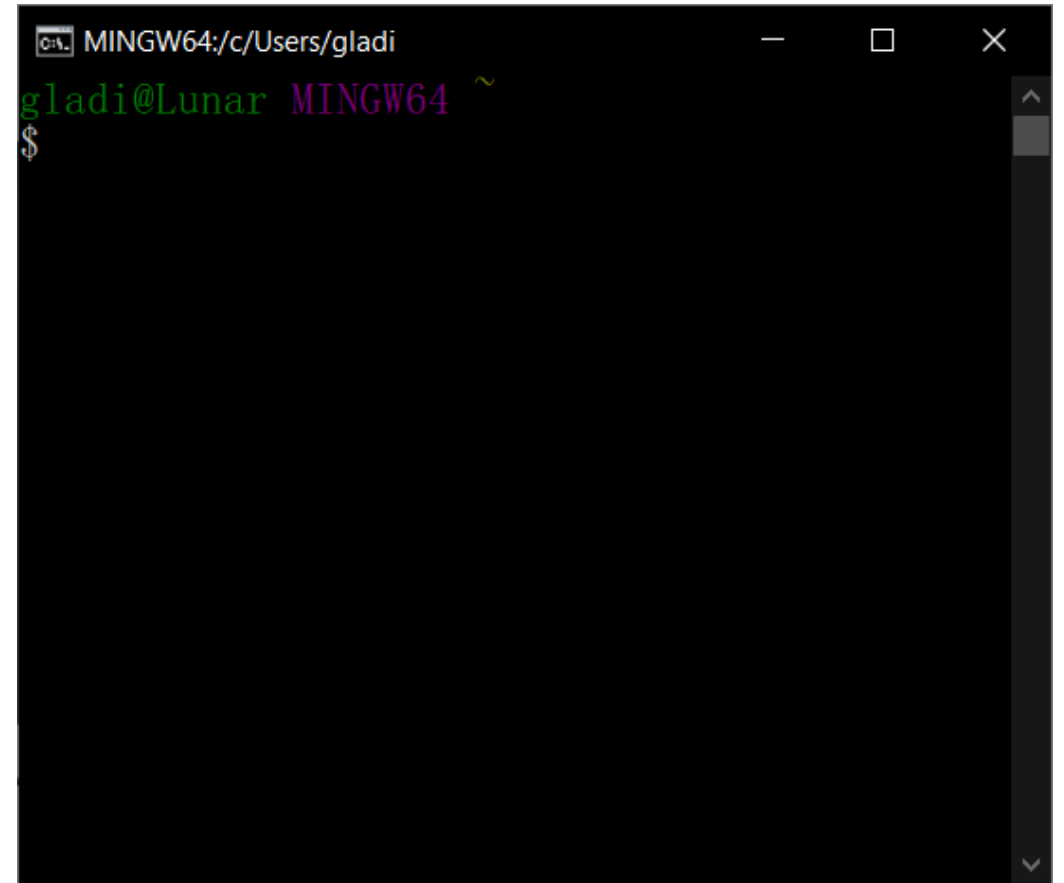


Lifecycle of the status of files

Git Command



[1] Open Git Bash



Git Bash window

Git Command

Note: for me, D:\Project\GitHub\

Linux Quick Reference

SOME USEFUL COMMANDS

Command	Task
---------	------

File/Directory Basics

ls	List files
cp	Copy files
mv	Rename files
rm	Delete files
ln	Link files
cd	Change directory
pwd	Print current directory name
mkdir	Create directory
rmdir	Delete directory

File Viewing

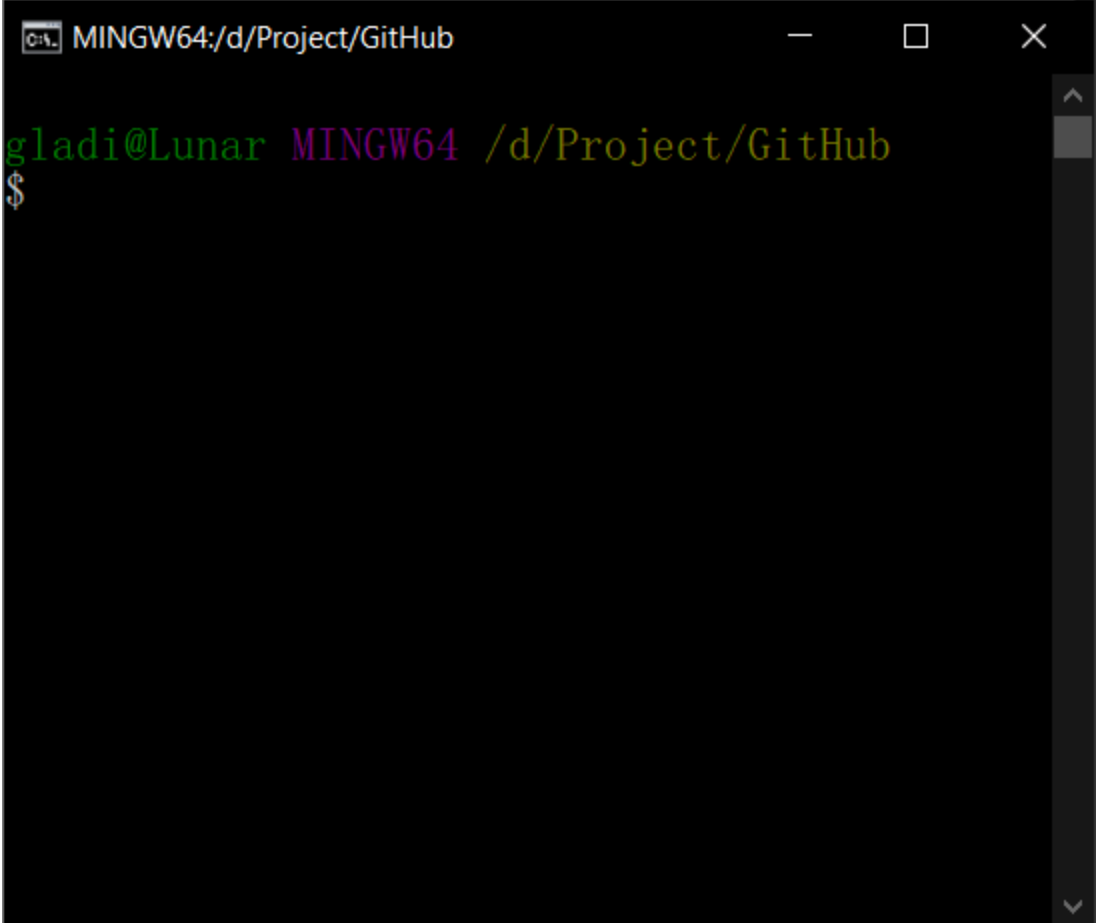
Command	Task
---------	------

File Location

find	Locate files
slocate	Locate files via index
which	Locate commands
whereis	Locate standard files

File Text Manipulation

grep	Search text for matching lines
cut	Extract columns
paste	Append columns
tr	Translate characters
sort	Sort lines



```
MINGW64:/d/Project/GitHub
gladi@Lunar MINGW64 /d/Project/GitHub
$
```

- ❑ Use “ls” command to list file/folder
- ❑ Use “cd” to change directory

Git Command

```
MINGW64:/d/Project/GitHub

gladi@Lunar MINGW64 /d/Project/GitHub
$ git init
Initialized empty Git repository in D:/Project/GitHub/.git/

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$
```

Initial Git by “**git init**” command

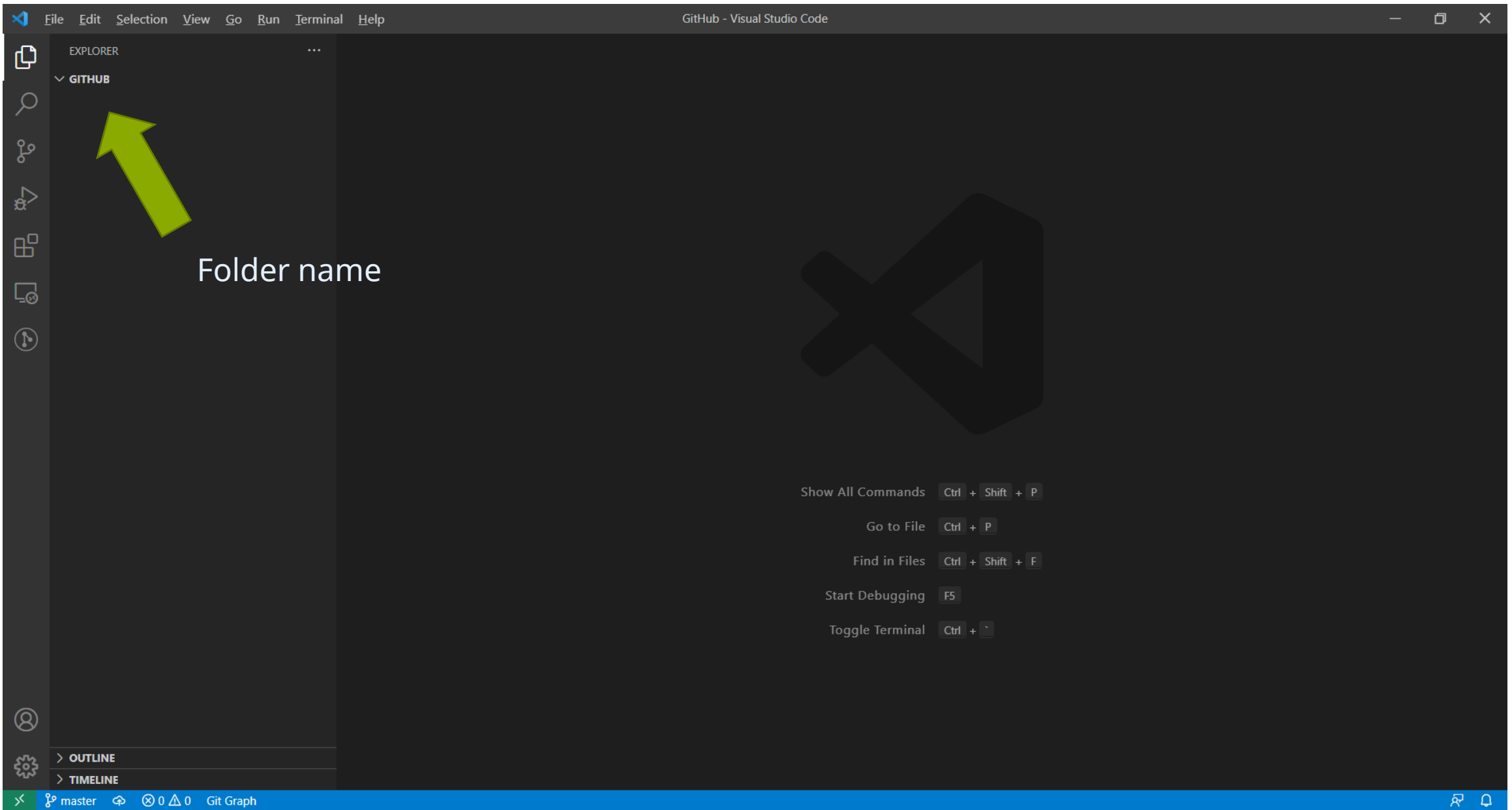
```
MINGW64:/d/Project/GitHub

gladi@Lunar MINGW64 /d/Project/GitHub
$ git init
Initialized empty Git repository in D:/Project/Gi

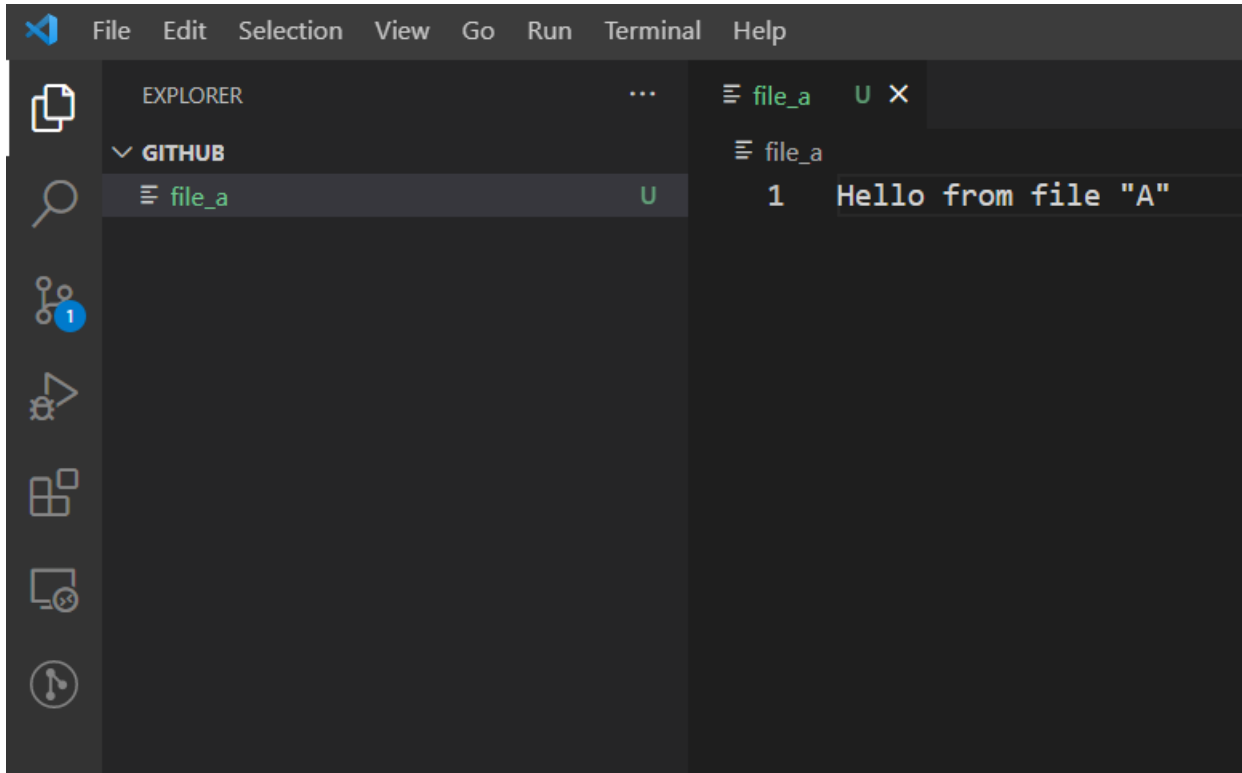
gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ code.
bash: code.: command not found

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ code .
```

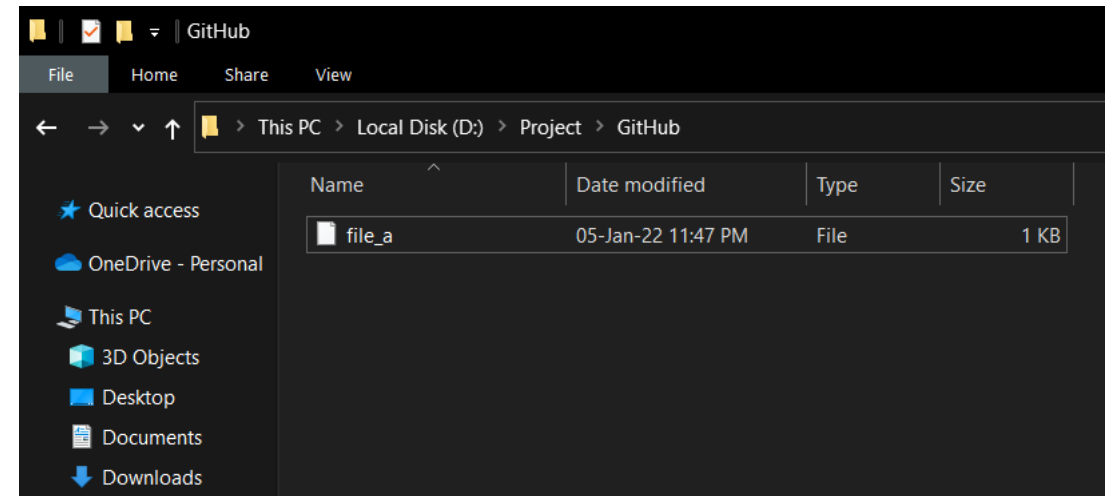
Use “**code .**” command
To open VS Code or do it by typical step



Initial Git by “git init” command



Create "file_a"
(type something you like on this file)



Now you will see "file_a" in directory
(There will be .git folder hidden in this folder)


```
MINGW64:/d/Project/GitHub


gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        file_a

nothing added to commit but untracked files present (use "git add" to track)

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$
```



New file(s) to commit

Type "**git status**" to show current status of Git

```
MINGW64:/d/Project/GitHub

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git add file_a

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   file_a

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$
```

New file(s) prompt to commit



Type **git add** with untrack file (**file_a**)
and re-check the Git status

```
MINGW64:/d/Project/GitHub
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   file_a

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git commit
Author identity unknown

*** Please tell me who you are.

Run

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

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'gladi@Lunar.(none)')

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$
```

Type “git commit”

(the 1st time of commit, you need to config a detail of **who** commit)

```
MINGW64:/d/Project/GitHub

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git commit
Author identity unknown

*** Please tell me who you are.

Run

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

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'gladi@Lunar.(none)')

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git config --global user.email "you@example.com"

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git config --global user.name "Your Name"

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git commit
hint: Waiting for your editor to close the file... █
```

(the 1st time of commit, you need to config a detail of **who** commit)
Insert your email & username, then re-commit

How can I edit the .git / config file from the git terminal?

```
git config --global --edit
```

This should open a text editor, make your changes
,save and exit the editor.

You can also edit your e-mail, name in each project instead of global.

```
.git > COMMIT_EDITMSG
1 |
2 # Please enter the commit message for your changes. Lines starting
3 # with '#' will be ignored, and an empty message aborts the commit.
4 #
5 # On branch master
6 #
7 # Initial commit
8 #
9 # Changes to be committed:
10 #   new file:   file_a
11 #
12
```

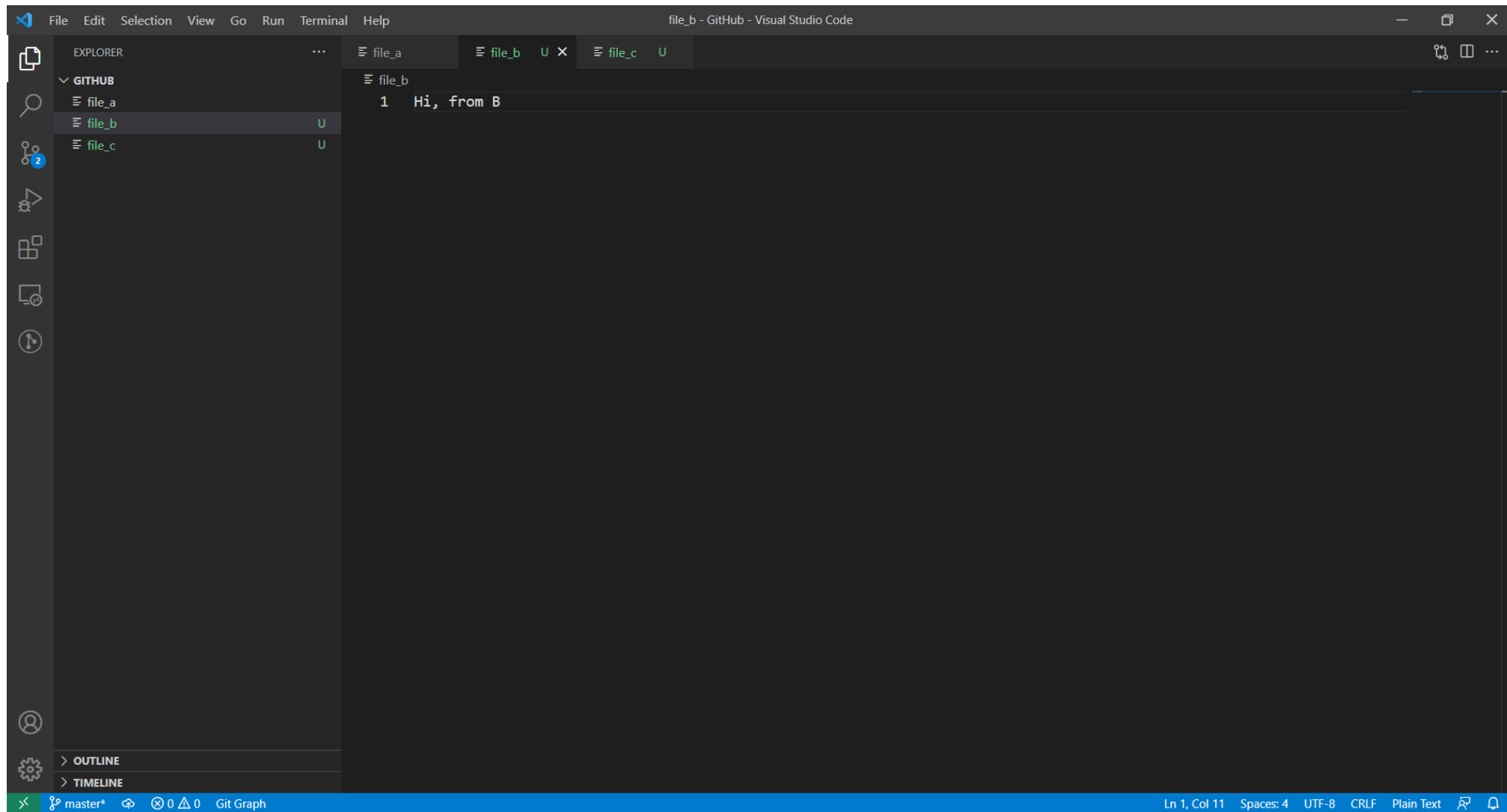
Git will open [TextEditor] to add message for Commit

```
MINGW64:/d/Project/GitHub

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git commit -m "add file a"
[master (root-commit) 9cd3516] add file a
1 file changed, 1 insertion(+)
create mode 100644 file_a

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$
```

Type `git commit -m "add file a"`



OK, now we going to add file_b, file_c with the same manner
(If you add the wrong file type “**git restore --staged <file>**”)

```
MINGW64:/d/Project/GitHub
file_b
file_c

nothing added to commit but untracked files present (use "git add" to
track)

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git add file_*

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   file_b
        new file:   file_c

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git commit -m "add file b & c"
[master 7cfd6d6] add file b & c
2 files changed, 2 insertions(+)
create mode 100644 file_b
create mode 100644 file_c

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$
```

Then, commit its like this.


```
MINGW64:/d/Project/GitHub
gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git log --oneline
7cfd6d6 (HEAD -> master) add file b & c
9cd3516 add file a

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$
```

We can check the log of git by type “git log” or “git log --oneline”

Next

We are going to do something on file_b

Then

Roll back it to the stage we commit

Do this in Class

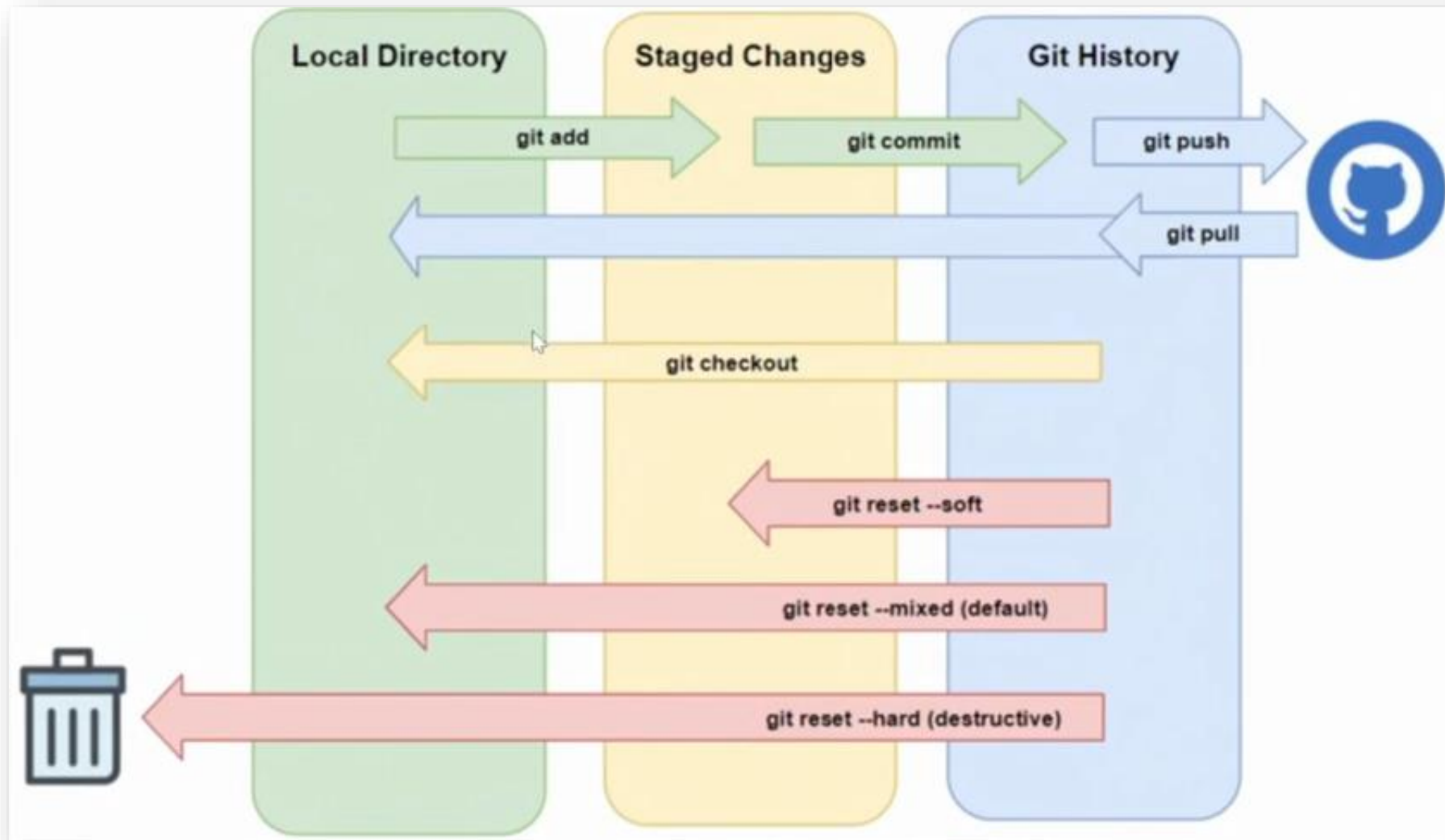
Edit & commit file_b

```
MINGW64:/d/Project/GitHub

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git log --oneline
e7bab84 (HEAD -> master) edit file b
7cfd6d6 add file b & c
9cd3516 add file a

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$
```

We should see 3 stage of commit like this



We can reset stage 3-ways

```
MINGW64:/d/Project/GitHub

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git log --oneline
e7bab84 (HEAD -> master) edit file b
7cfd6d6 add file b & c
9cd3516 add file a

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git reset 9cd3516
```

Let's go back to the first stage, type “**git reset [commit number]**”


```
MINGW64:/d/Project/GitHub

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git log --oneline
9cd3516 (HEAD -> master) add file a

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$
```

Re-check, we will see that <Head> back to 1st stage

```
MINGW64:/d/Project/GitHub

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git log --oneline
9cd3516 (HEAD -> master) add file a

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git reflog --oneline
9cd3516 (HEAD -> master) HEAD@{0}: reset: moving to 9cd3516
e7bab84 HEAD@{1}: commit: edit file b
7cfd6d6 HEAD@{2}: commit: add file b & c
9cd3516 (HEAD -> master) HEAD@{3}: commit (initial): add file a

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$
```

Next, we are going to move forward to 3rd stage

Type “**git reflog --oneline**” to see [commit number] ➔ or use HEAD@{1} instead

```
MINGW64:/d/Project/GitHub
gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git log --oneline
e7bab84 (HEAD -> master) edit file b
7cfd6d6 add file b & c
9cd3516 add file a

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$
```

Jump back with the same command
(re-check with git log)

```
MINGW64:/d/Project/GitHub
gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        deleted:    file_b

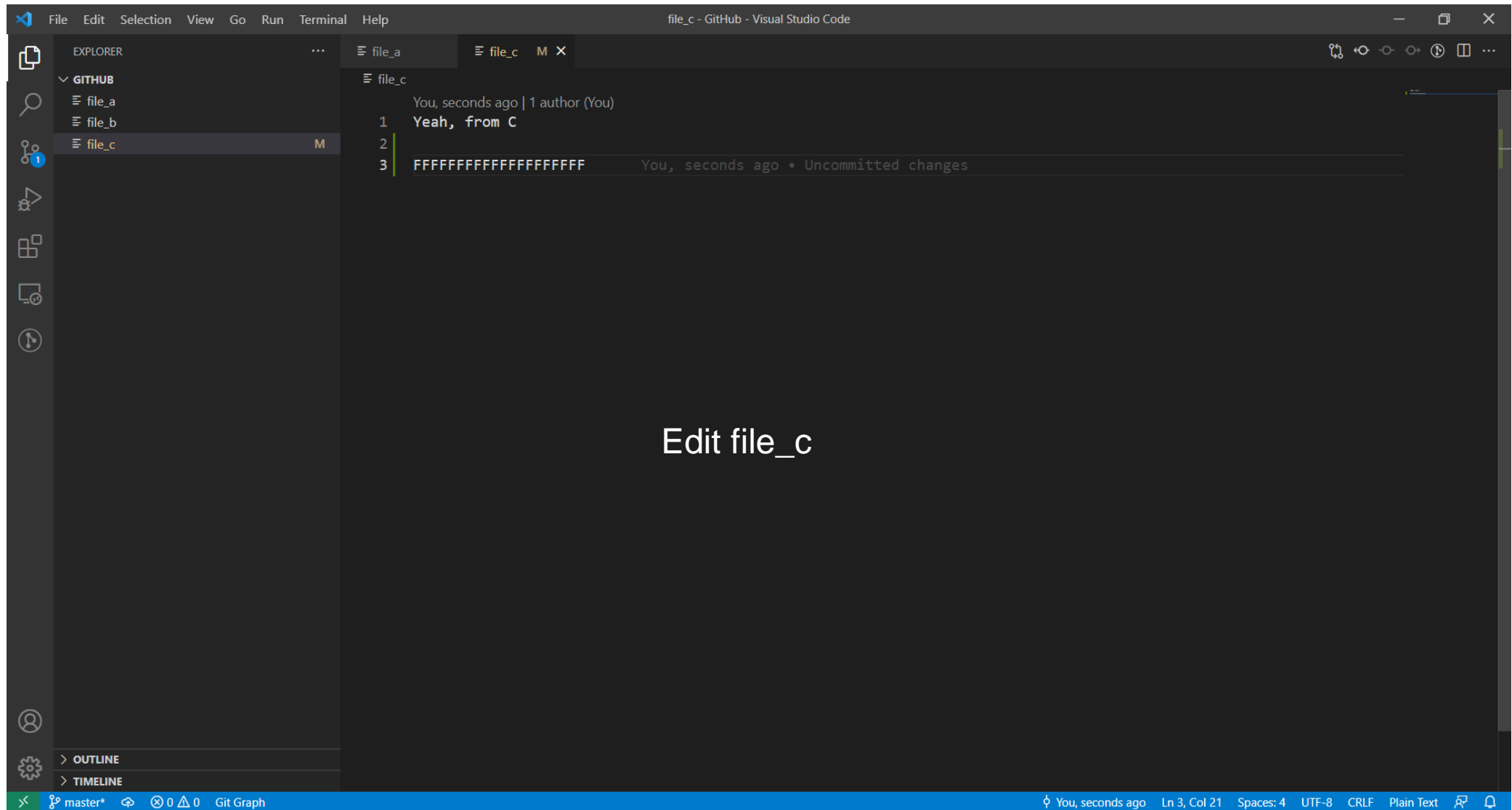
no changes added to commit (use "git add" and/or "git commit -a")

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git restore file_b

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$
```

Try to Remove file_b, then type "git status" to see what happened
Restore file with Git command

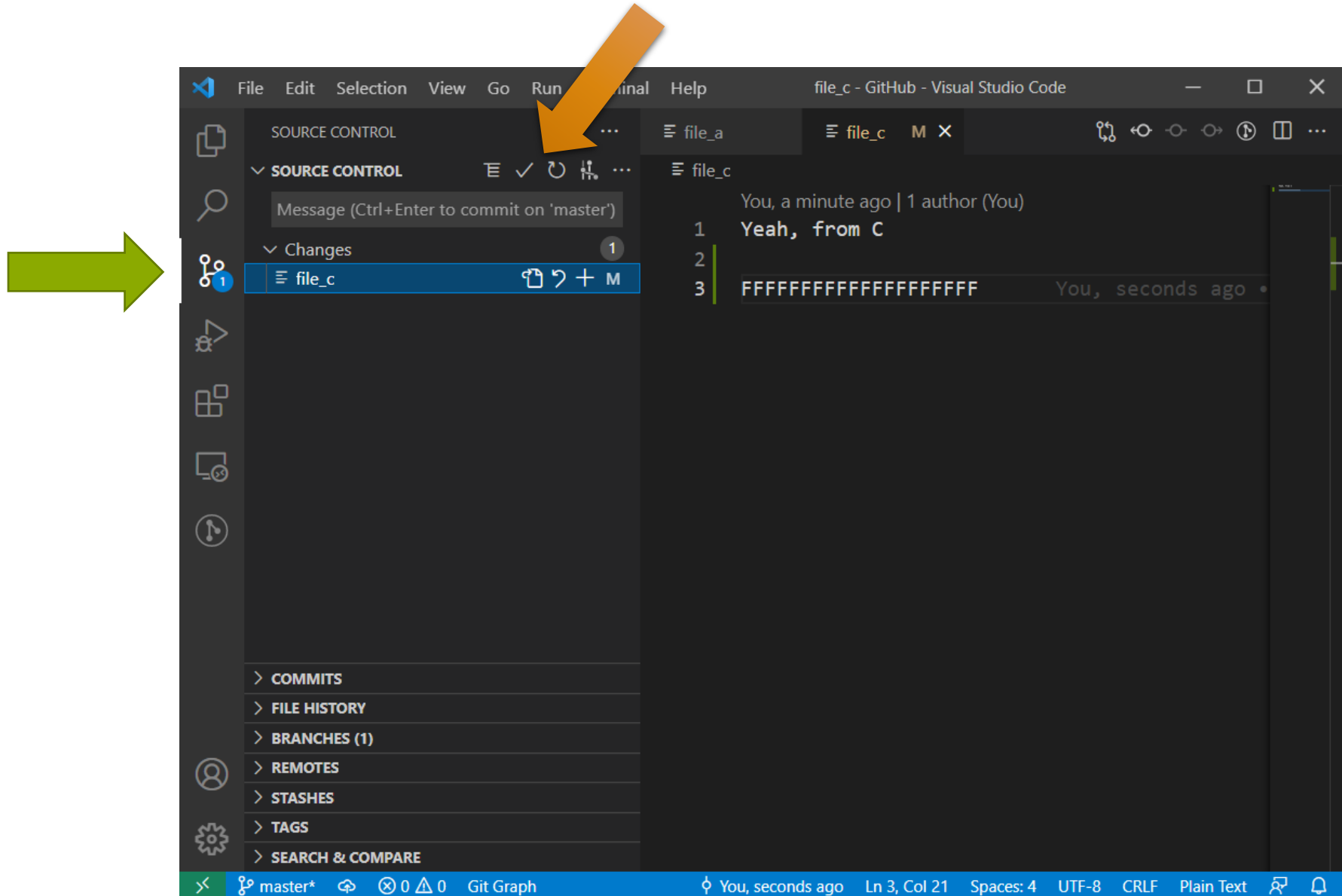
How to commit with VS Code



Edit file_c

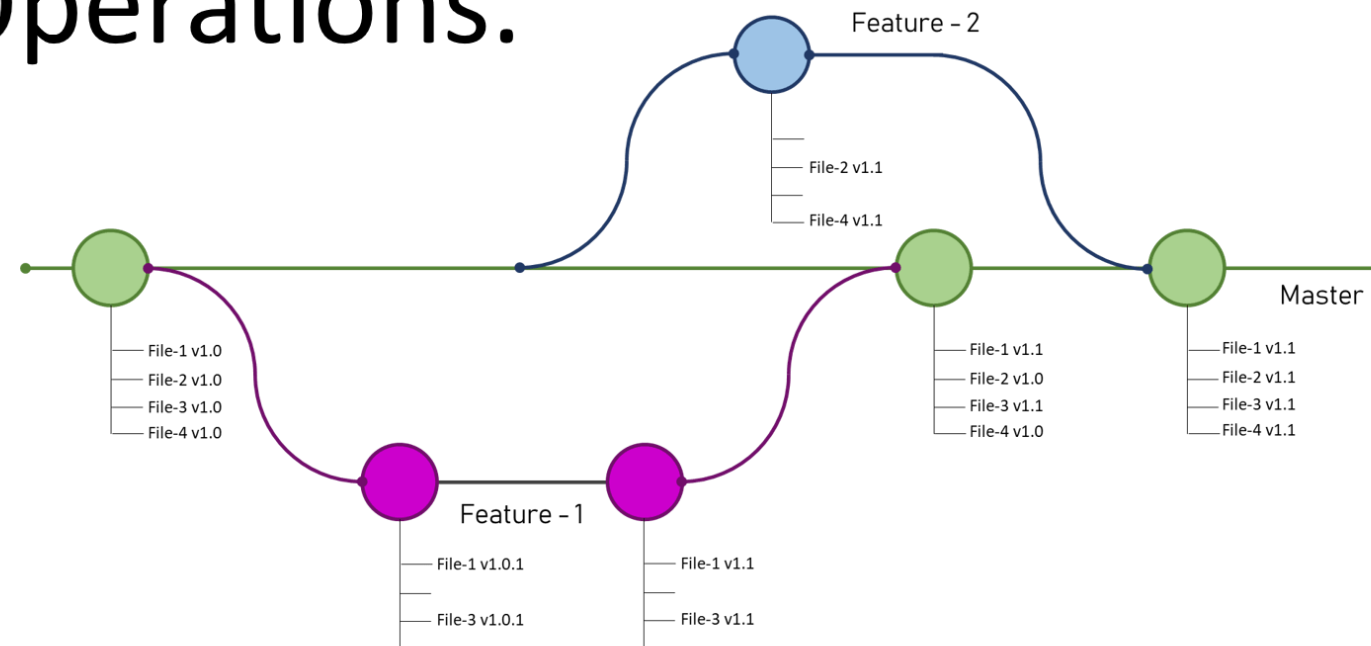
How to commit with VS Code

Type message and commit



Git Branch

GIT Branch and its Operations.



Git Branch

Command

View Branch

```
git branch
```

Create Branch

```
git branch <branch_name>
```

Remove Branch

```
git branch -d <branch_name>
```

Switch Branch

```
git checkout <branch_name>
```

Create and Switch Branch

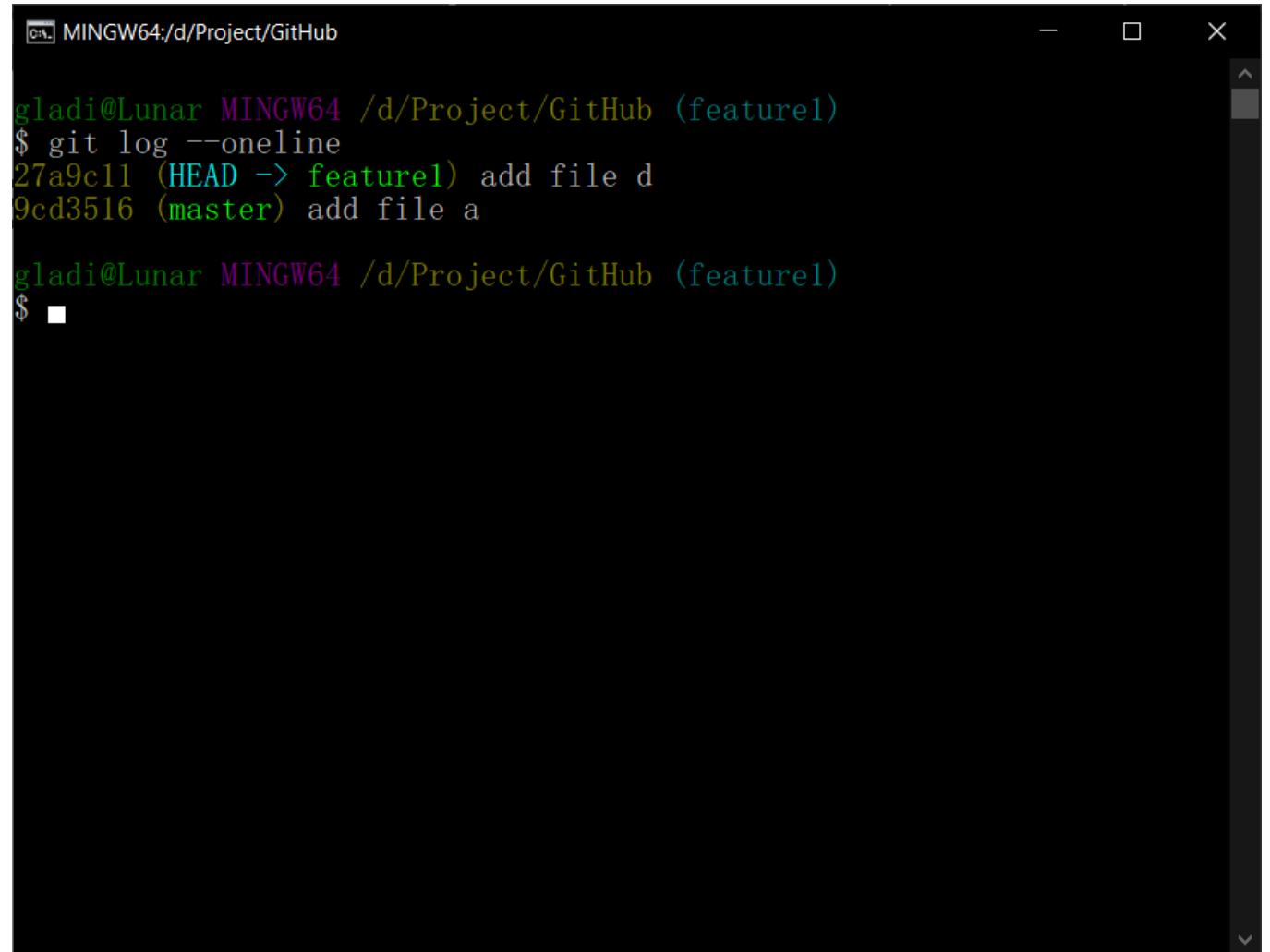
```
git checkout -b <branch_name> < commit_id (optional)>
```

Git Branch

Do this in Class

[1] Create branch “feature1” at 1st stage

[2] Add file_d to branch “feature1”

A terminal window titled 'MINGW64:/d/Project/GitHub' with standard window controls. It shows a user named 'gladi@Lunar' in a 'MINGW64' environment. The user runs 'git log --oneline', which displays two commits: '27a9c11 (HEAD -> feature1) add file d' and '9cd3516 (master) add file a'. The user then runs 'git branch feature1', and the prompt returns to '\$' with a cursor. The terminal has a dark background with light-colored text and a vertical scrollbar on the right.

```
MINGW64:/d/Project/GitHub

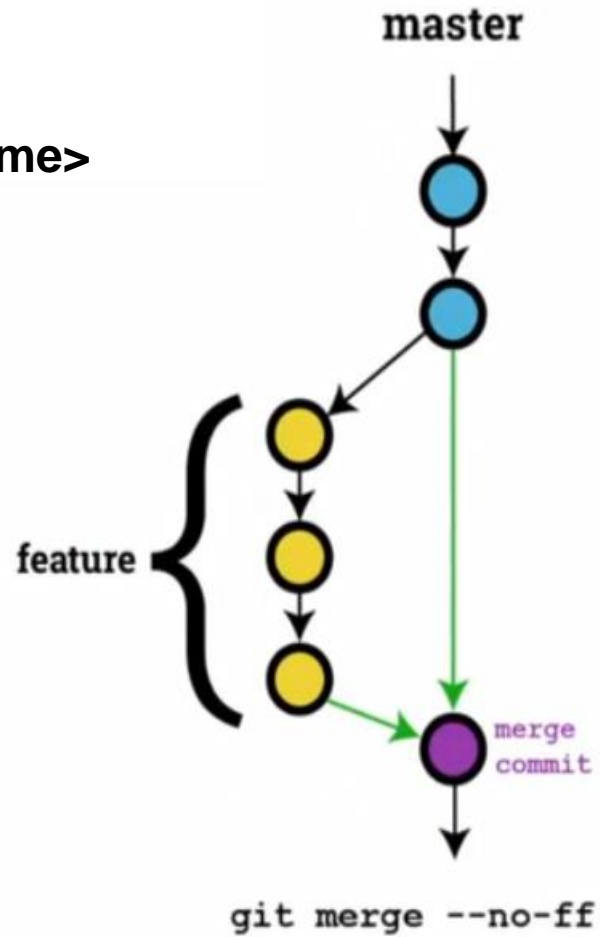
gladi@Lunar MINGW64 /d/Project/GitHub (feature1)
$ git log --oneline
27a9c11 (HEAD -> feature1) add file d
9cd3516 (master) add file a

gladi@Lunar MINGW64 /d/Project/GitHub (feature1)
$
```

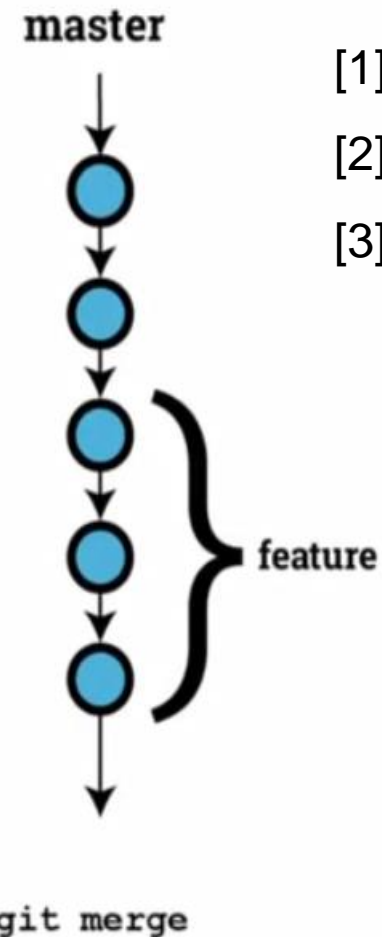
Git Merge

Command

`git merge <branch_name>`



No Fast Forward



Fast Forward

Do this in Class

- [1] Back to master 3rd stage
- [2] Merge with branch "Feature1"
- [3] Remove branch "Feature1"

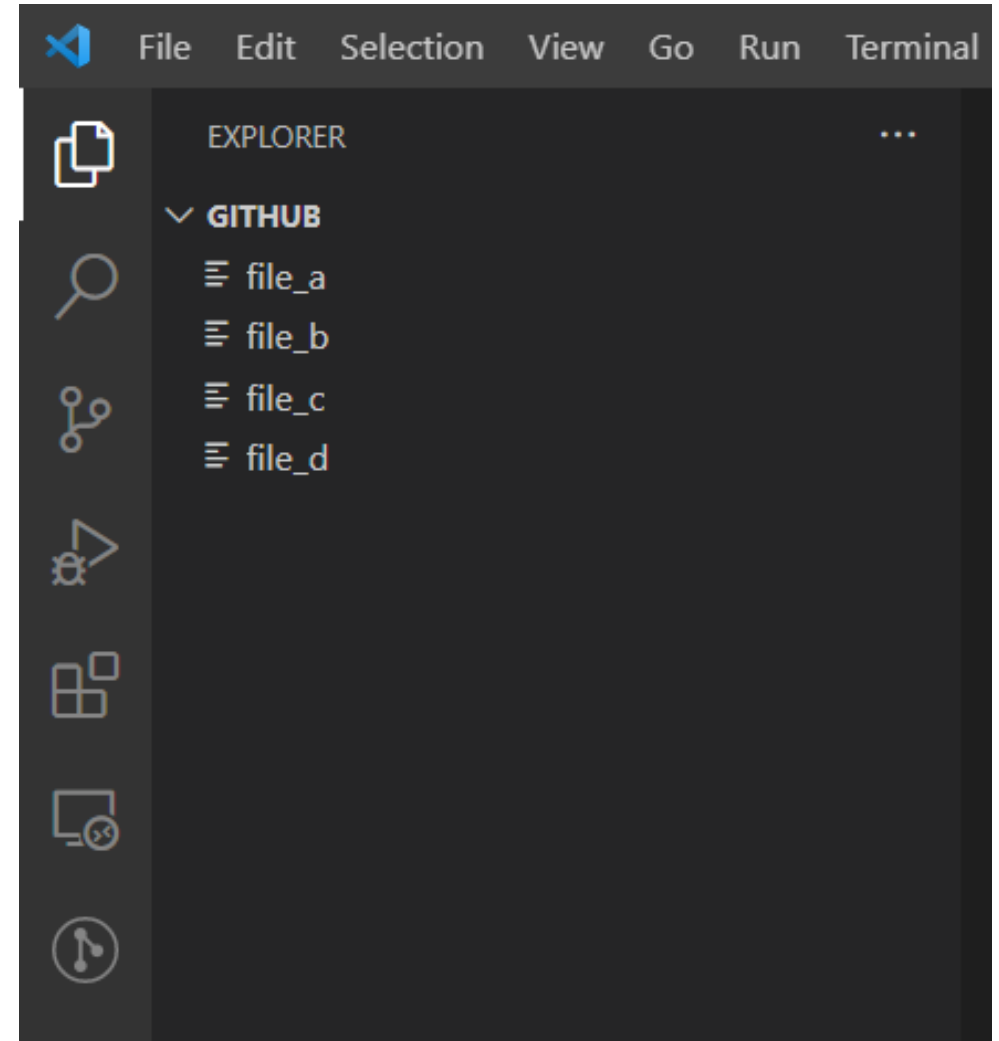
Git Merge

```
gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git status
On branch master
nothing to commit, working tree clean

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git merge feature1
Merge made by the 'ort' strategy.
 file_d | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 file_d

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$
```

After merge we will have
file_a, file_b, file_c, file_d



Do this in Class

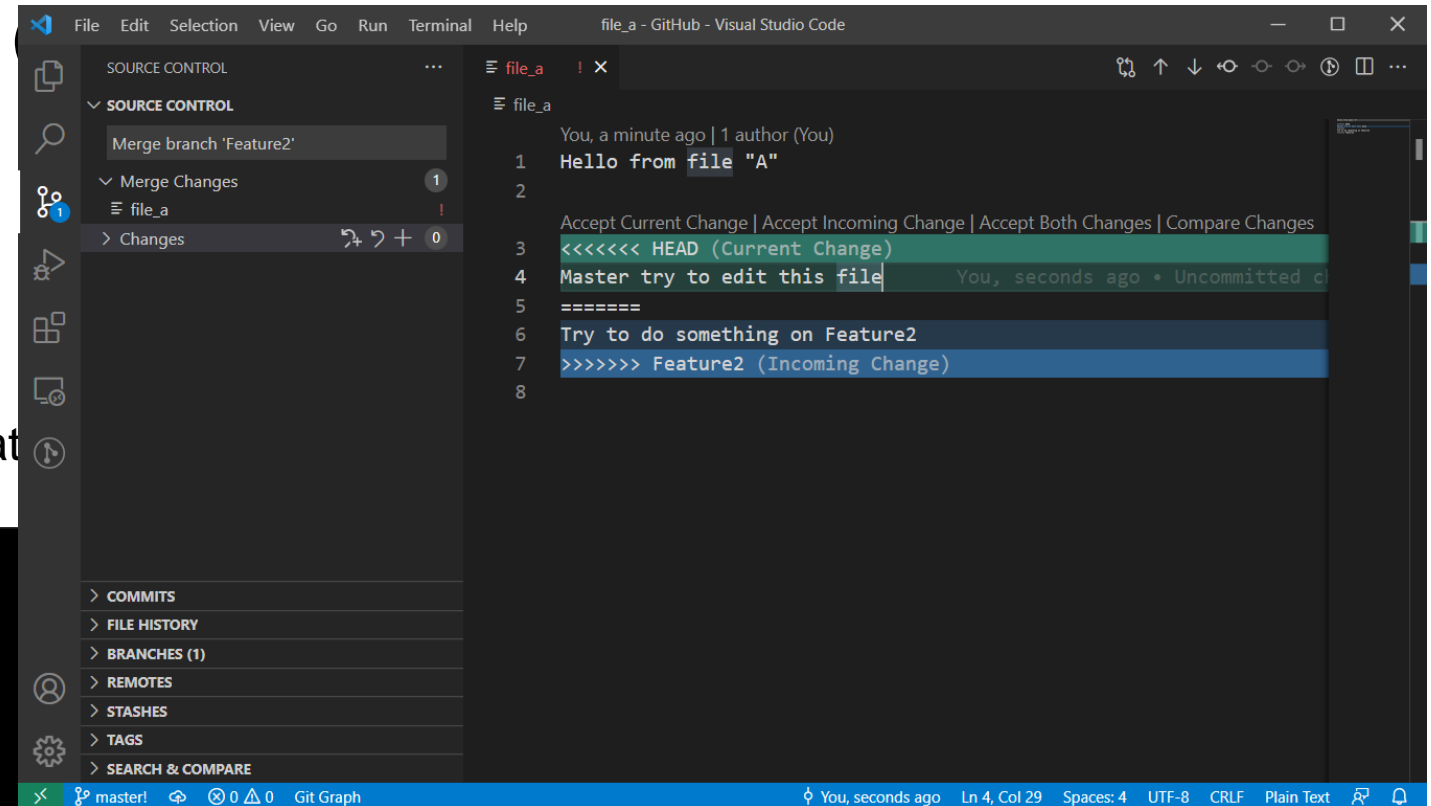
- [1] Create new branch “Feature2”
- [2] Edit “file_a” (replace text in this file)
- [3] Try to merge branch “master” with “Feat

```
MINGW64:/d/Project/GitHub

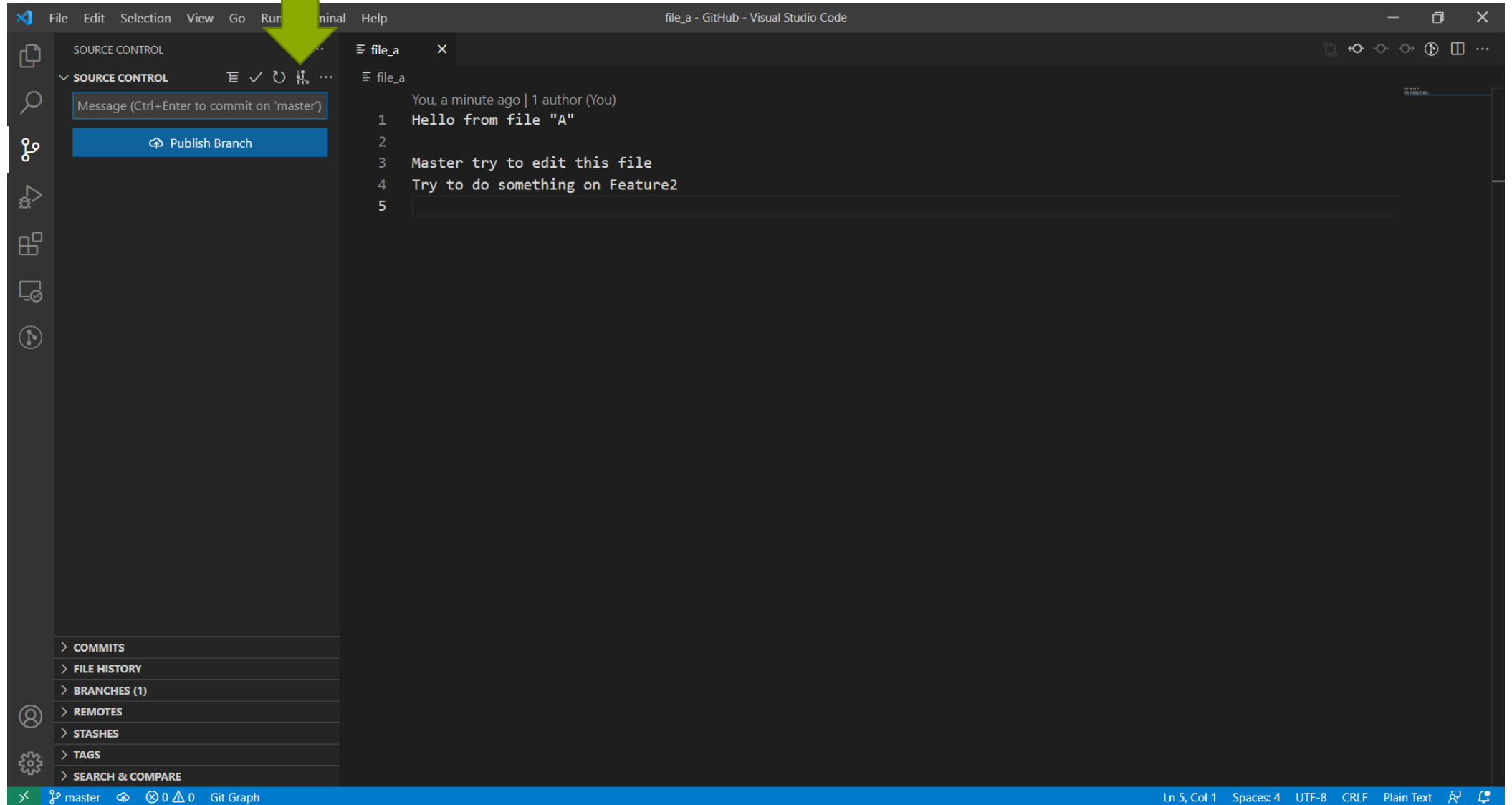
gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git branch
  Feature2
* master

gladi@Lunar MINGW64 /d/Project/GitHub (master)
$ git merge Feature2
Auto-merging file_a
CONFLICT (content): Merge conflict in file_a
Automatic merge failed; fix conflicts and then commit the result.

gladi@Lunar MINGW64 /d/Project/GitHub (master|MERGING)
$
```



Git Graph



Git Graph

The screenshot displays the Git Graph interface in Visual Studio Code. The interface is divided into several sections:

- Top Bar:** Includes the menu bar (File, Edit, Selection, View, Go, Run, Terminal, Help) and the window title "Git Graph - GitHub - Visual Studio Code".
- Left Panel:** Contains the "SOURCE CONTROL" view with a "Publish Branch" button and a list of source control features: COMMITS, FILE HISTORY, BRANCHES (1), REMOTES, STASHES, TAGS, and SEARCH & COMPARE.
- Right Panel:** Displays the commit history graph and a table of commits.

Branches: Show All (dropdown), Show Remote Branches (checkbox)

Graph	Description	Date	Author	Commit
	Merge branch 'Feature2'	6 Jan 2022 ...	Krisada	5e0998aa
	edit by Master	6 Jan 2022 ...	Krisada	c276d427
	edit with f2	6 Jan 2022 ...	Krisada	0d1403b9
	edit file_a from feature2	6 Jan 2022 ...	Krisada	3135e656
	Merge branch 'feature1'	6 Jan 2022 ...	Krisada	5b9c85b1
	add file d	6 Jan 2022 ...	Krisada	27a9c110
	edit file b	6 Jan 2022 ...	Krisada	e7bab841
	add file b & c	6 Jan 2022 ...	Krisada	7cfd6d6d
	add file a	6 Jan 2022 ...	Krisada	9cd3516a

Bottom status bar: master, 0 errors, 0 warnings, Git Graph



Why GitHub? ▾ Team Enterprise Explore ▾ Marketplace Pricing ▾

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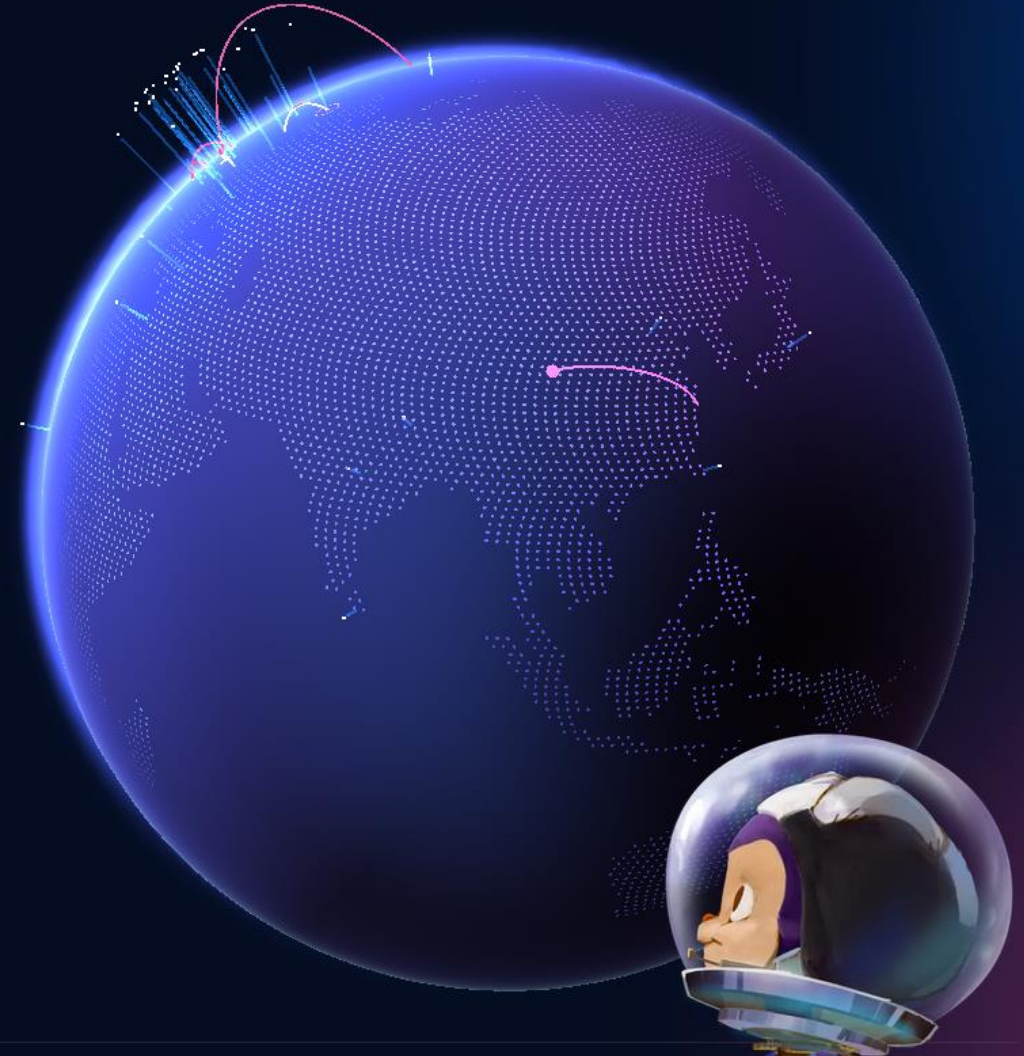
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adminho Update README.mdc02f098 on Apr 9, 202161 commits

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Thai-IT-community

ลิสต์รายชื่อกลุ่ม Facebook ของวงการไอทีแห่งประเทศไทย

เนื่องจากที่ผ่านมาได้เกิดกลุ่มบน Facebook ด้านไอทีของประเทศไทยมากมาย เป็นแหล่งเหล่าคนในวงการไอที เอาไว้ใช้ปรึกษา พร้อมทั้งแลกเปลี่ยนข้อมูลซึ่งกันและกัน ผมจึงได้รวบรวมกลุ่มไอทีพร้อมทั้งไว้ที่นั้นๆจุดเดียว ใครมีแนะนำอะไรก็หักมาได้ทั้งที่แฟนเพจ หรือจะ submit ผ่าน github ก็ยินดี ผมหวังว่ามันจะเป็นประโยชน์ต่อสังคมไทยครับ (จะพยายามให้เนื้อหาอัปเดตเวลาเกิดกลุ่มต่างๆ ขึ้นมา)

- ขอให้สมาชิกสัก 2,000 คนขึ้นไปนะครับ
- สำหรับคนไทยเท่านั้นนะครับ

About

No description, website, or topics provided.

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Releases

No releases published

Packages

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