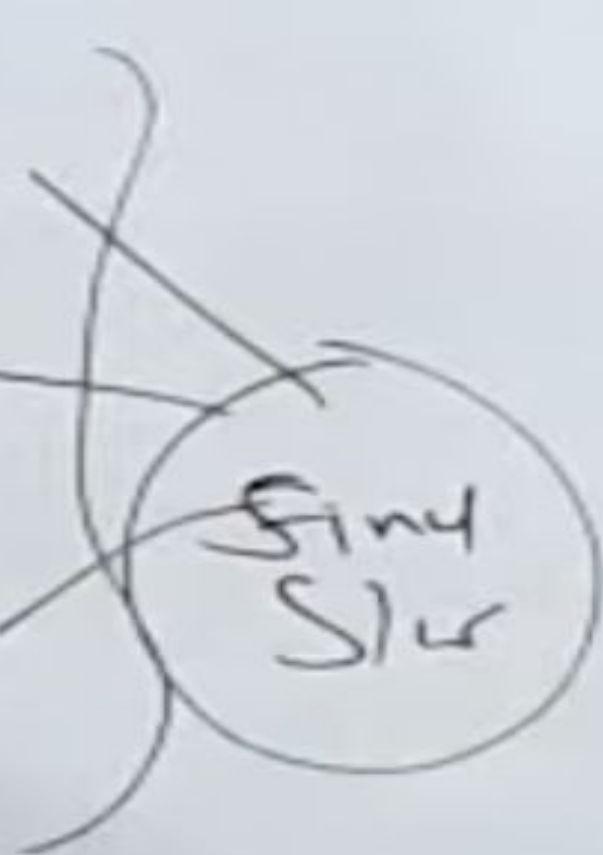
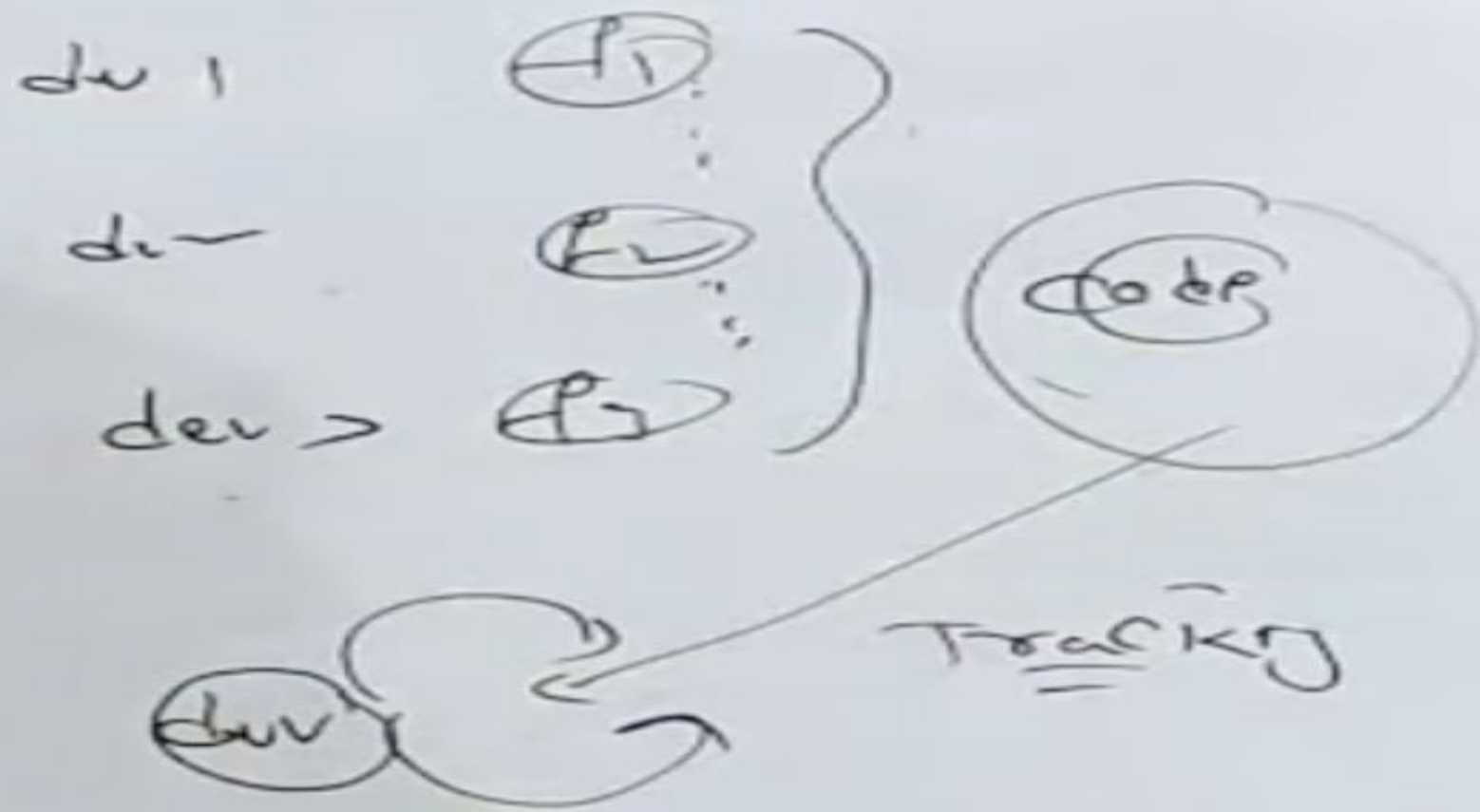


dv_1 — (f_1)

dv_2 — (f_2)

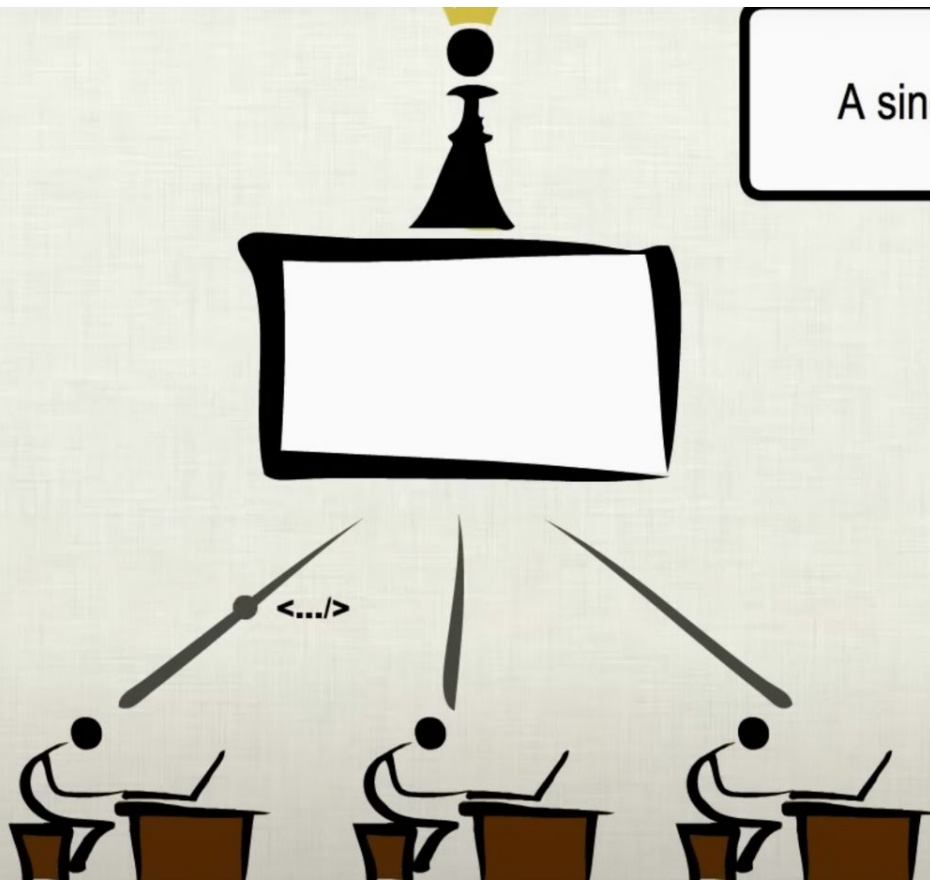
dv_3 — (f_3)



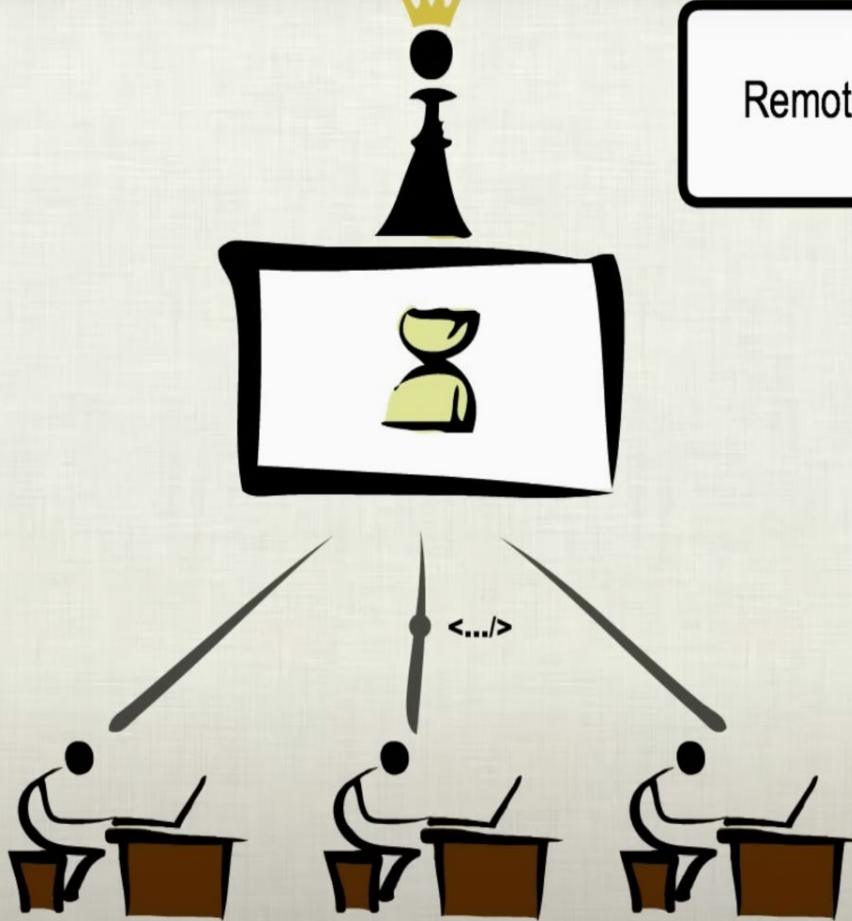


1. Keep versions
2. Tracking [modifications]
3. Sharing code between developers is easy
4. New developers can access code is easy way

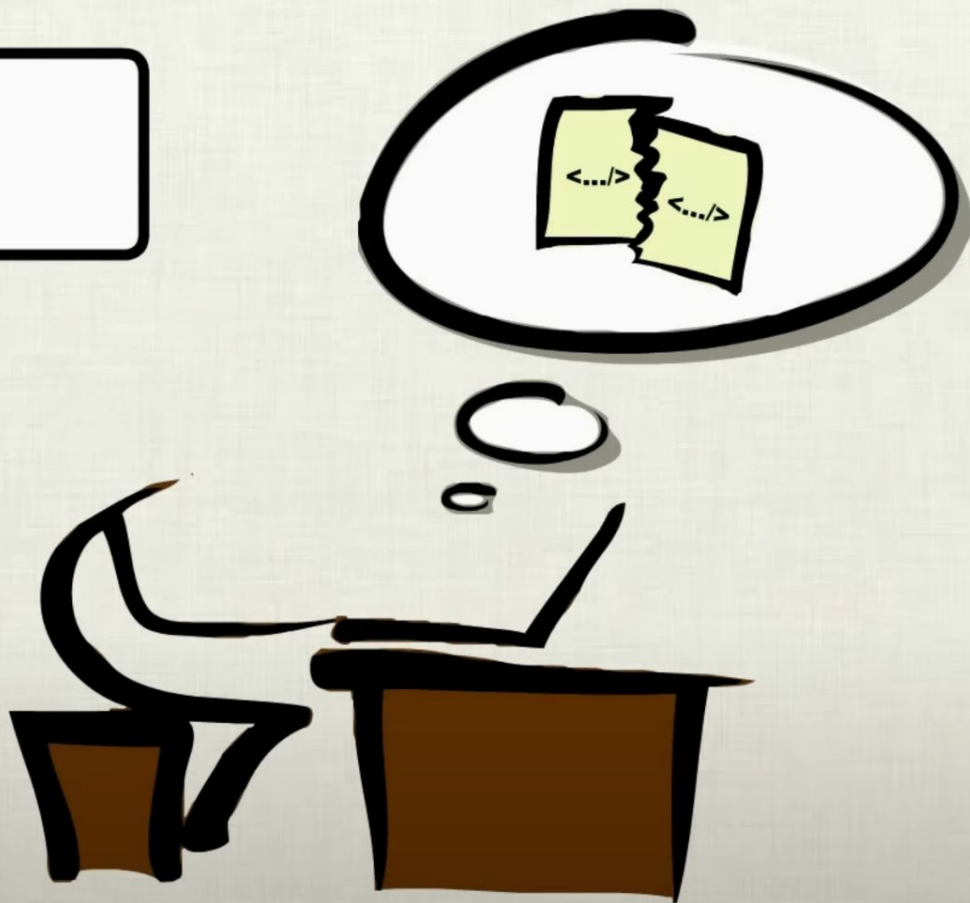
A single point of failure...

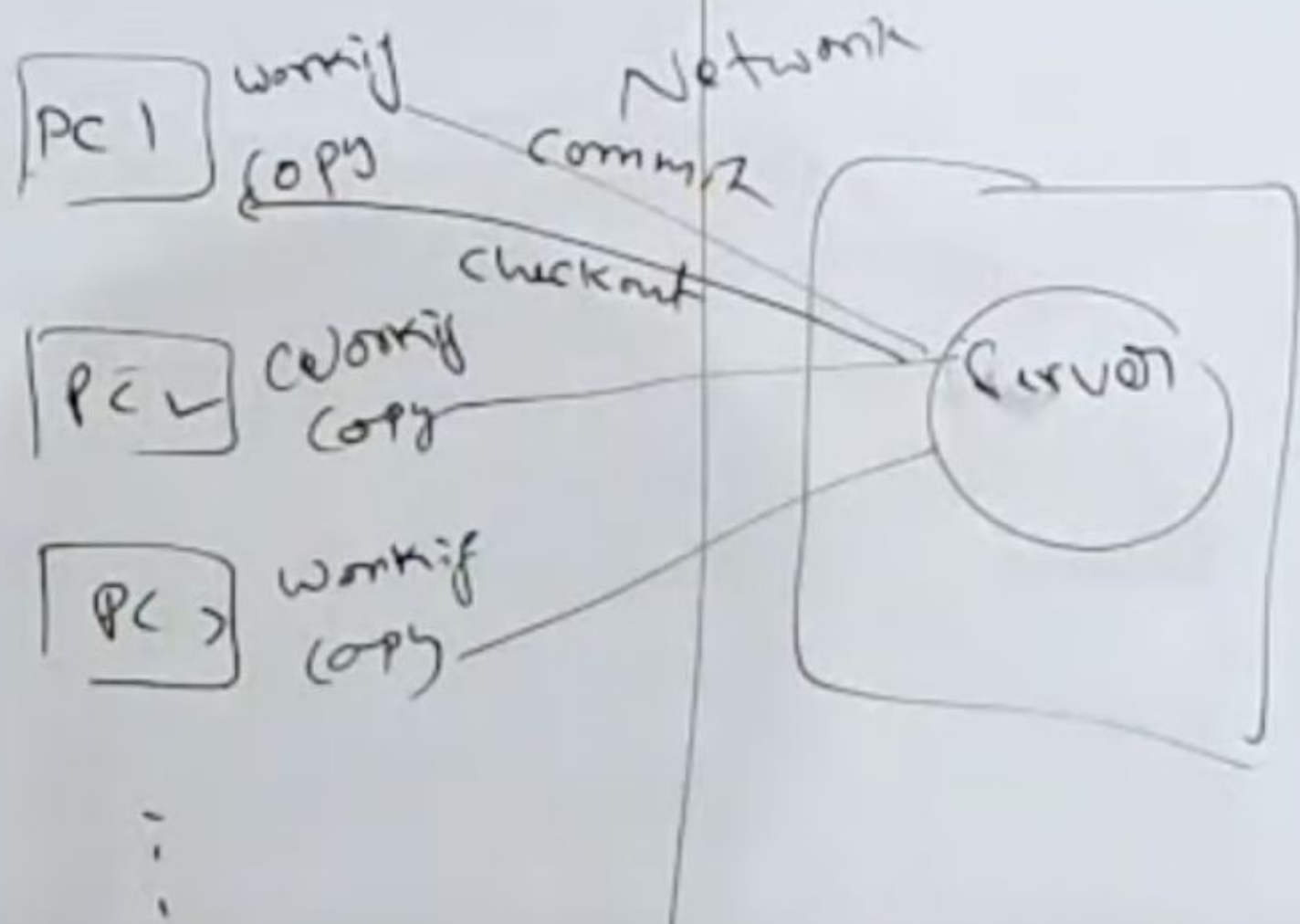


Remote commits are slow...



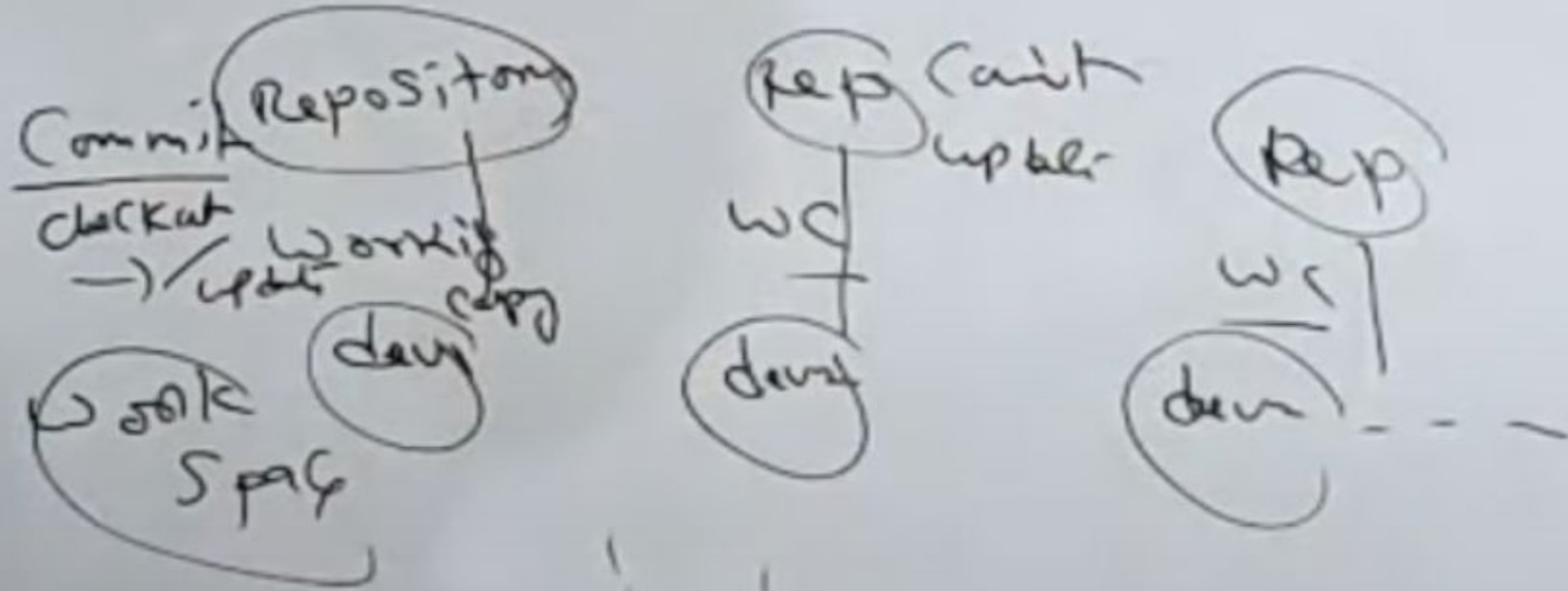
Merging is painful...

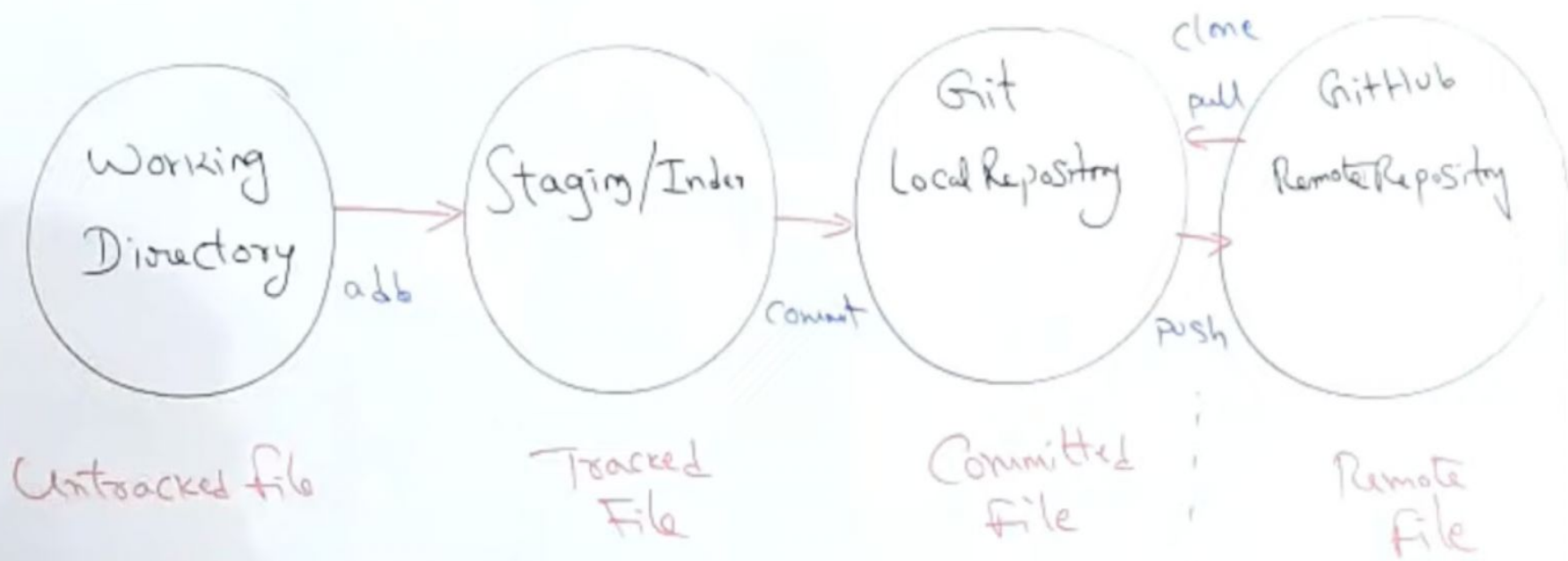




SVN is example of centralized version control system

Distributed version control system





GIT vs. SVN

Decentralized

- GIT is decentralized. You have a local copy that is a repository in which you can commit. In SVN you have to always connect to a central repository for check-in.

[About](#)[Documentation](#)[Downloads](#)[GUI Clients](#)[Logos](#)[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](#).

Downloading Git



Your download is starting...

You are downloading the latest (**2.31.1**) **64-bit** version of **Git for Windows**. This is the most recent [maintained build](#). It was released **about 2 months ago**, on 2021-03-27.

[Click here to download manually](#), if your download hasn't started.

Other Git for Windows downloads

Git for Windows Setup

[32-bit Git for Windows Setup](#).

[64-bit Git for Windows Setup](#).

Git for Windows Portable ("thumbdrive edition")

[32-bit Git for Windows Portable](#).

[64-bit Git for Windows Portable](#).

The current source code release is version **2.31.1**. If you want the newer version, you can build it from [the source code](#).

Now What?

Now that you have downloaded Git, it's time to start using it.



Read the Book

Dive into the Pro Git book and



Download a GUI

Several free and commercial GUI

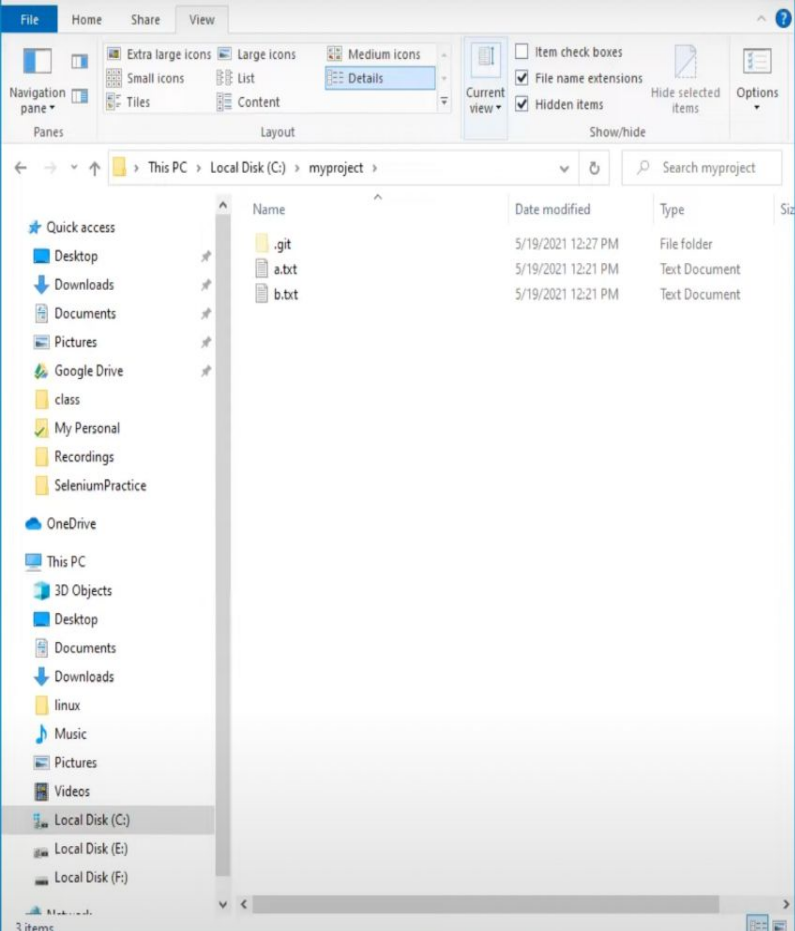


Get Involved

A knowledgeable Git community is

Git Commands

- 1) `init`
- 2) `status`
- 3) `add`
- 4) `commit`
- 5) `log`
- 6) `config`



MINGW64/c/myproject

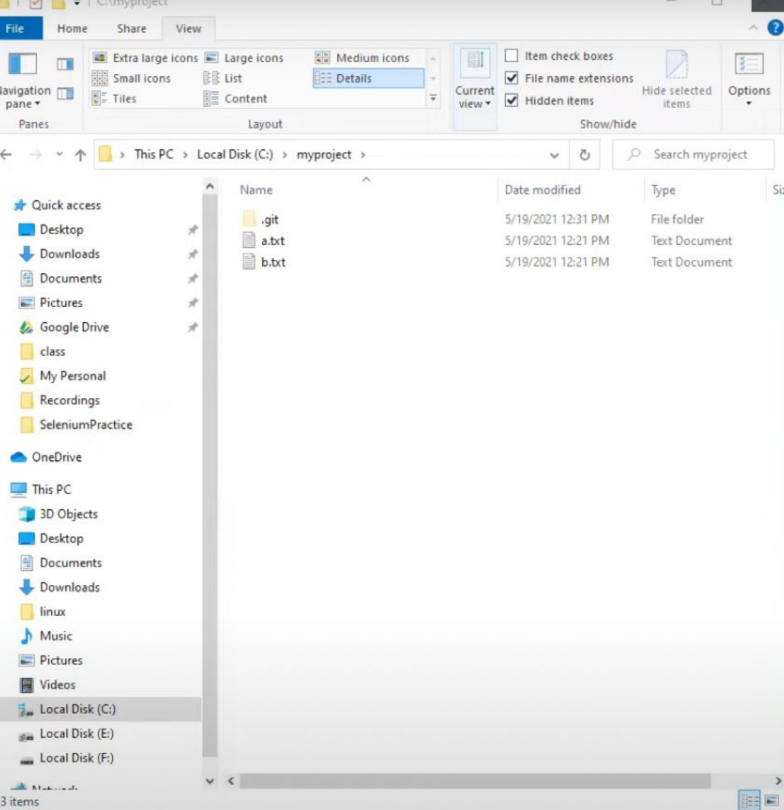
```
admin@DESKTOP-3R73L8V MINGW64 /c/myproject (master)
$ git add a.txt b.txt
```

```
admin@DESKTOP-3R73L8V MINGW64 /c/myproject (master)
$ git status
On branch master
```

No commits yet

```
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   a.txt
        new file:   b.txt
```

```
admin@DESKTOP-3R73L8V MINGW64 /c/myproject (master)
$
```



MINGW64/c/myproject

```
admin@DESKTOP-3R73L8V MINGW64 /c/myproject (master)
$ git status
On branch master
```

No commits yet

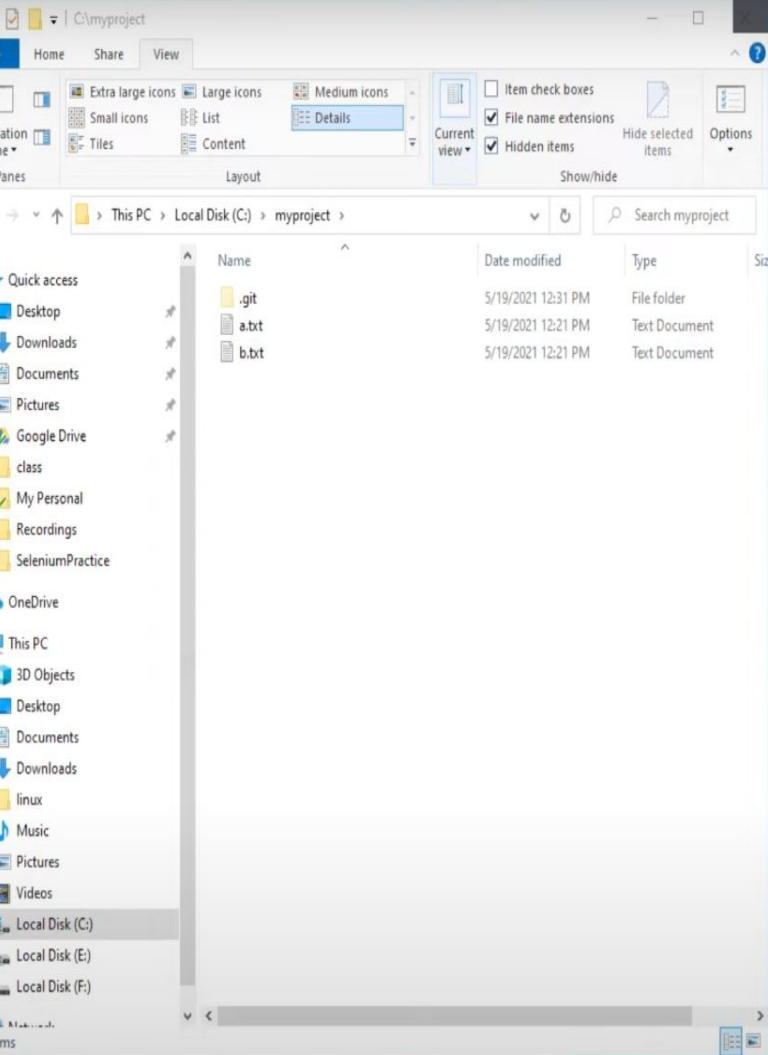
```
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   a.txt
        new file:   b.txt
```

```
admin@DESKTOP-3R73L8V MINGW64 /c/myproject (master)
$ git config --global user.email "pavanoltrainign@gmail.com"
```

```
admin@DESKTOP-3R73L8V MINGW64 /c/myproject (master)
$ git config --global user.name "pavan"
```

```
admin@DESKTOP-3R73L8V MINGW64 /c/myproject (master)
$ git commit -m "this is my first commit"
[master (root-commit) 94164a1] this is my first commit
2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 a.txt
create mode 100644 b.txt
```

```
admin@DESKTOP-3R73L8V MINGW64 /c/myproject (master)
$
```

MINGW64/c/myproject

```
admin@DESKTOP-3R73L8V MINGW64 /c/myproject (master)
$ git log
commit 94164a1af89d8be6b2dabc8983e9436c7e0cf6d2 (HEAD -> master)
Author: pavan <pavanoltrainign@gmail.com>
Date: Wed May 19 12:31:07 2021 +0530
```

this is my first commit

```
admin@DESKTOP-3R73L8V MINGW64 /c/myproject (master)
$ |
```