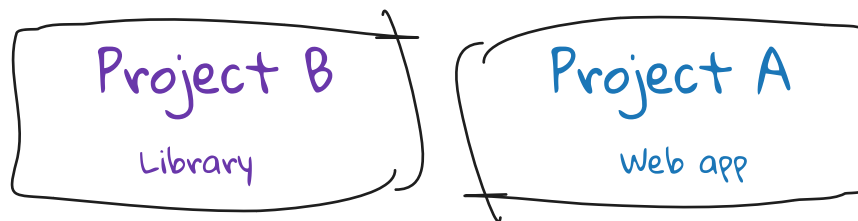


Git Submodules

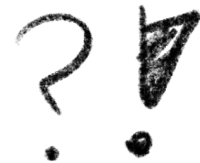
What are submodules and mainly WHY?!

Say that you have 2 different repositories,
a library and a web app project



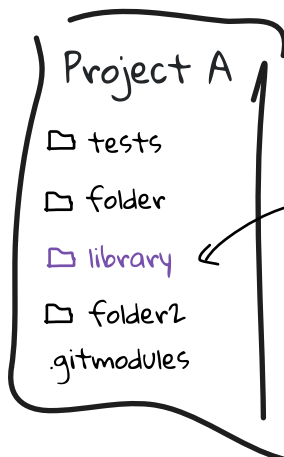
to use Project B as a subdirectory within inside project A

- ✓ without copying code
- ✓ without build & deployment
- ✓ without having the same commit history



and keep them as a separate repositories

★ we use git submodules ★



a folder but actually referencing a
branch from project B

☺ and yes! with all the code from project B.

you commit, push, pull separately



🤔 Now how do we do that?

□ Adding a submodule

```
git submodule add (repository url)
```

This will generate **.gitmodules**

the configuration file that tells us what submodules we have. *should be pushed!*



Now that you have a submodule, to push and pull from the submodule you should be inside it's folder.

And That's it!

□ Cloning & Updating

Whenever you clone the main project, the submodules come empty and so we need to **initialize** them and pull them

```
git submodule update --init --recursive
```

initialize submodule

recursively (all submodules)

to merge your current submodule branch with remote

```
git submodule update --remote --merge
```

You could use all regular git operations inside the submodule folder.

