#29 Require and Require Relative

Where to use?

main program

① add.rb ② Sub.rb → Incorporate ① and ②
in main program

other ruby files
other ruby files

Important

Similar to
require "./add.rb"
require "./Sub.rb"   } Similar to require relative

math.rb

$LOAD_PATH << '.'
require "add.rb"
require "Sub.rb"

add.rb   Sub.rb

#codes.
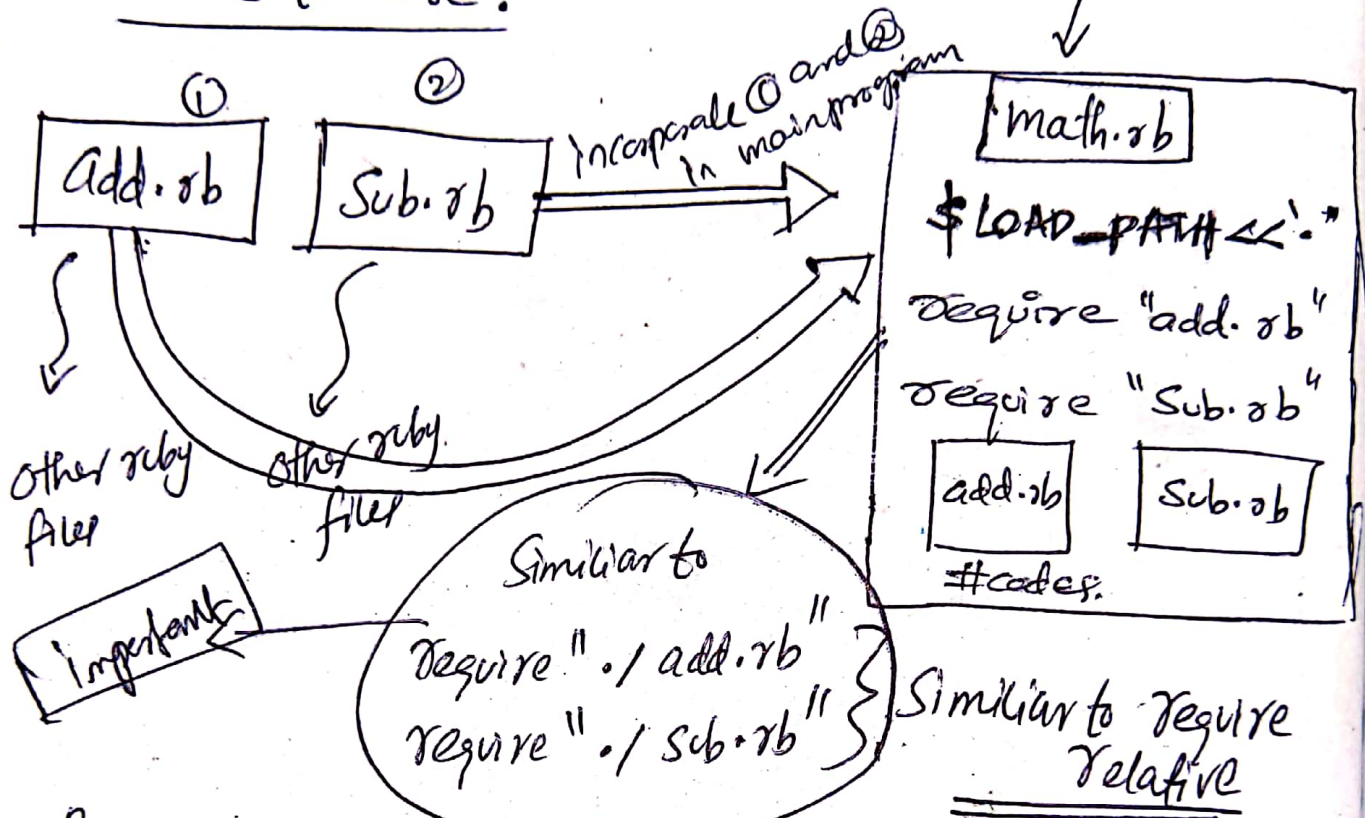
Require : Used to load another ruby files in the main ruby program.

"require" Syntax

• In order to use the require statement we have to load the path of the other ruby file which we want to incorporate in our main program, $LOAD_PATH << '.' The dot signifies —
↳ double left shift operator

We have to look for the file in the same directory in which our project is stored. So the dot is actually the path of our project. (or signifies same directory.) (or the files in same directory)

$ LOAD_PATH << '.' ——→ path of file (in same directory).
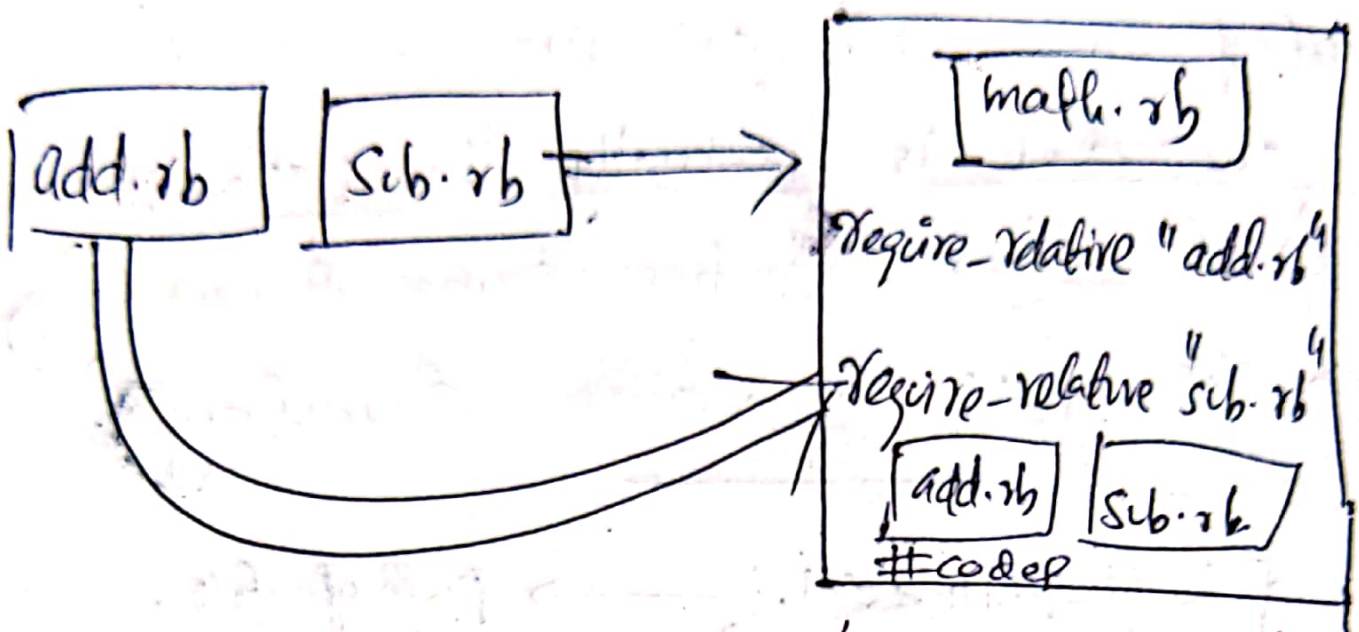require "filename"

→ if you dont want to write this.

↙

require_relative "filename"

Avoid absolute path such as /home/user/docs/add.rb

⇒ require_relative "~~rubyfile~~"

↓

require_relative works only for same directory. if there is a main program in a folder (project) and a ruby file in the same folder. If we want to require the ruby file in the main program just use require_relative "ruby file" in the main program.

```
┌──────────┐  ┌──────────┐        ┌─────────────────────────────────┐
│ add. rb  │  │ Sub. rb  ├───────▶│   ┌──────────┐                   │
└──────────┘  └──────────┘        │   │ math. rb │                   │
                                  │   └──────────┘                   │
                                  │  require_relative "add. rb"      │
                                  │                                  │
                                  │  require_relative "sub. rb"      │
                                  │   ┌────────┐ ┌────────┐          │
                                  │   │ add. rb│ │ Sub. rb│          │
                                  │   └────────┘ └────────┘          │
                                  │   #codep                         │
                                  └─────────────────────────────────┘
```

⇒ no need to specify the $LOAD_PATH here Bcz require_relative it self specifies the path of the diractory where the math. rb is stored or where the add. rb and Sub. rb is stored.