why c Language

① a low Level language that can give the processor the accessability over the memory map with the ability to read and write through pointers.

② other Languages are using interpreters which is already written with C Language.

③ other Low Level Languages are too hard to understand and the Code will be Complex

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c Language History

- Unix operating system is the first of all.

First C Language built was 1978 then ANSI

there is 3 main standards

- International Electrical and Electronics Engineers (IEEE)
- International organisation for Standarization (ISO)
- American National standards Institute (ANSI)

C++ (C11) which is a developped

note: before choosing C version for Coding Concider these issues:

① which version does the compiler supports.

② which standard does the vendor for the SoC recommends.

③ which version of language does the company contracted with customer

trick it is prefferable to use ANSI (C89, C90).

GIT

what is version control system (VCS)

- package of software allows users to track changes on a certain project. Like:
  1. concurrent version system (CVS)
  2. subversion (SVN)
  3. git

what it does

1. tracking software.
2. tracking documents.
3. Builds information
4. Software configuration info

Repository

a file system allows to store and manage versions of additions and easily integration.

most commonly tools used for VCS is:

- git Lib
- SVN

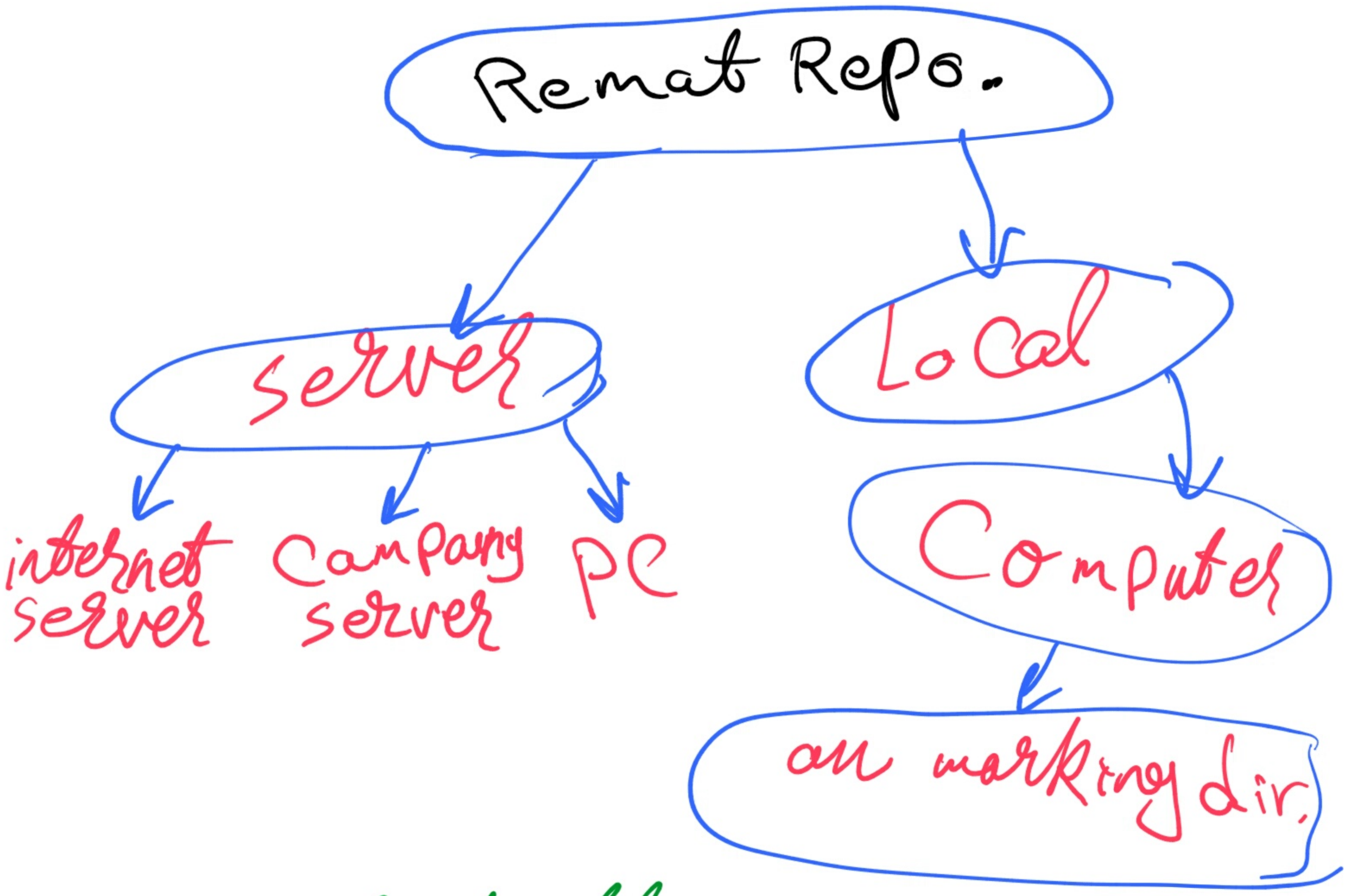
note: Control your project by making your own Repository for version tracking.

why GIT

① free to use
② open source
③ fast and reliable
④ supported by a very wide community

GIT Concepts

controlling mark flow by updating main file with recording changes made by late and time in order to mark every step make in case of calling back these old steps. through a log file.



to upload the updated project file

① after saving the update on the marking directory.

② staging area is the where you get the file ready for uploading by indexing it using the the Command git add

③ connect the updated file to your project to send its update information by using the command `git commit`

④ being ready to merge the update info with the main file it is now time to upload it with the Camand `git push`

⑤ anyone have access to the remote repository can see the updated files.

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⑥ github is a universal taol, means you can use it on any platform.

GIT commands

pwd → Print working directory

git init → initializing a new git Repository

git config core.bre true → to enable writting on the remate repo.

git clone /path/Repository → down Loading repository Content.