Version Control system:

**Terminologies of VCS:**

Basic setup:

Repository : (repos) – the database storing the files

Server: the computer storing repo

Client : the computer connecting to repo

Working set/working copy: your local directory of files, where you make changes.

Main : the primary location for code in the repo. Think of code as a family tree.  
---- the trunk is the main line.

Uses of VCS:

1. Made a change to code, realized it was a mistake and wanted to revert back.?
2. Lost code or had backup that too old ?
3. Had to maintain multiple version of a product ?
4. Wanted to see the difference between two (or more) versions of your code ?
5. Wanted to prove that a particular change bore or fixed a piece of code?
6. Wanted to review the history of some code?
7. Wanted to submit a change to some else code ?
8. Wanted to share your code, or let other people work on your code?
9. Wanted to see how much work is being done, and where, when and by whom?
10. Wanted to experiment with a new feature without interfering with working code?

Basic Action of VCS:

1)add/push : put a file into the repo for the repo for the first time, i.e, begin tracking it with version control

2) revision: what version a file is on (v1, v2,v3….etc)

3) head :the latest revision in the repo

4)checkout/pull/fetch : Download a file from repo

5) check in/ push: upload a file to the repository (if it has changed ), the file gets a new version number, and people can “check out” the latest one.

6)Check in message: a short message describing what was change.

7) change log/history : a list of changes made of a file since it was created.

8)update/sync : synchronize your files with the latest from the repo, this lets you grab the latest revisions of the files .

9) revert : throw away your local changes and reload the latest version from the repository.