Version Control Systems

What do we need from a VCS?

* Backup and Restore
  + Historical Backup < Needs to be able to go back to most stable version if code written is not working
  + Allows new members to look through the history, get a feel for the standard, coding practices in action
* Synchronization between different developers
* Short-term Undo
  + Allows to roll back, removes fear of screwing things up
* Tracking of who changed what, and when
* Sandboxing
  + Allows to take a snapshot of a project, move it into a sandbox environment, experiment on it without disturbing/destroying the idea
* Branching and Merging

Terminology

* REPO – The database storing the files
* LOCAL COPY – Your directory of files. The version of the project on your machine
* MASTER/TRUNK – Primary branch. Usually on a server somewhere
* COMMIT – Save a snapshot of your repo.

SVN

Centralised Version System.

Sits on a server.

Cons. Internet Needed.

\*Comfortable with version control. GIT\*

GIT

Distributed Version Control System

$ git init myproject

$ cd myproject

$ git add .

GITHUB

Git config –global user.email dk654

Git log = Shows the log of changes

Git status

Git add .

When should we commit?

Reguarly

Can Compress committing, so 5> can be made to look like one