Version Control

Supplementary Notes

Week 5
Project Version Control

• Subversion, installed on the project server:
  – simon.library.emory.edu
  – svn://simon.library.emory.edu/svn/XXX
    • XXX = shelflist
    • XXX = alumnidb
    • XXX = beckctr
  – Another example for today’s demos is here:
    • svn://simon.library.emory.edu/svnrepos/
    • OR use “localhost” if you are already logged into the server

  – User name = your simon server user name “jsmit52”
  – SPECIAL Subversion password: cs584000
    • Not changeable by user (only by sys admin)
Using Subversion: Command Line

• Subversion user guide here:

• Red-bean tutorial here:

• Starting up your project
  – Baseline import...
  – Then initial checkout

• Basic work cycle
  – Svn status
  – Svn diff
  – Note: numbers cover all projects, not just your own;
    • Relative to whole repository
    • Big gaps between check-in numbers are common
  – DOCUMENT your changes!

• Rescue Me!
  – Svn revert
Fact/Fallacy Tidbit

• Fact 41
  Maintenance consumes 40% to 80% of total software costs

• Discussion
  – Typically 60% of software lifecycle is maintenance
  – Systems, supporting products change: Think “Y2K” for an example
  – “Old hardware becomes obsolete. Old software goes into production every night.”
  – Version control is a key tool for enabling good maintenance

From Robert Glass, “Facts & Fallacies of Software Engineering”