

# 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:
  - <http://svnbook.red-beam.com/en/1.1/index.html>
- Red-bean tutorial here:
  - <http://svnbook.red-beam.com/en/1.1/ch03.html>
- 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”