

RCS Cheat Sheet: CS408

RCS?

- RCS = Revision Control System (UNIX)
- RCS = repository of changes (diffs) among versions of source files.

Why RCS?

- Use RCS to track all versions of source files.
- Use RCS locking to maintain code integrity.

RCS Functions

- Put a new file into RCS
- Check Out a file version--read a file version from the RCS
- Check In a file version-write to the RCS
- Lock the file revision (no one can replace this revision*)

*unless you:

- Unlock the file revision (a.k.a. "break the lock")-VERY BAD PRACTICE

How to Use RCS in Your Project

- Create a project directory: `mkdir OurCoolProject`
- Change the group ownership of the directory to the named group: `chgrp <GroupId> OurCoolProject`
- Chmod directory to 770: `chmod OurCoolProject 770`
- Create an RCS directory in OurCoolProject directory.
- Input source files for use by the specified usernames: `rcs -i -L -a`
- Check in a file version: `ci <filename>`

*always enter the comments as prompted

- Decisions, solutions, bug fixes
- Write it down (and you don't have to remember it)

- Check out a file for reading: `co <filename>`
- Check out a file for editing: `co -l <filename>`
- View the log of changes to a file: `rlog <filename>`
- Do a diff of the current version and previous version of the specified file: `rcsdiff <filename>`

Additional Info?

man co
 ci
 rcs
 rcsintro