

## Quick Announcements

- Unix project space
  - /projects/instr/02wi/cse403/cse403[a-n]
- Cubist Accounts
  - Will be deleted at end of quarter

## Will Breaks the Build

- Dramatic Retelling of Story
  - Daily build (for testers)
  - Made changes
  - Broke Build
- Why version control software saved the day
  - Stored previous versions
  - Allowed team members
    - To see what changed
    - To see who to blame
    - To temporarily undo changes

## Big Ideas

- Record history of source code files
- Coordinate developers
  - Insulate them from each other
- Maintain change logs

## Multiple Copies of File

- Repository Copy
  - All versions of file, stored in an efficient format of successive differences
- Local Copy
  - For every developer, for editing on a personal development machine

## Terminology

- A **revision** is [previous] version of a source code file
- A file is **checked in** to a **source code repository** to save its current state
- A file is **checked out** from a **source code repository** to a local copy to start editing
- A local copy is **updated** (by **merging**) with changes in the repository from other users

## Drawbacks

- Line-based
  - Good for source code, bad for your autobiography
- Conflicts
  - Developers making changes in same area
- Discrete
  - No record of what happens between checkins

## Possibilities

- Create branches for releases
  - Why?
- Collecting metrics
  - Why?

## Version Control Software

- Open Source
  - RCS, CVS
- Commercial
  - SourceSafe, ClearCase
- Proprietary
  - SLM, SourceDepot