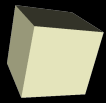# Final Project Submission Details

- Final project submission due 2:30pm, May 12th (this Monday)

- Late policy:
  up to 24hrs late = 5% off project score
  up to 48hrs late = 10% off project score
  more than 48hrs late = no credit

- Submit code and final design document (PDF, PS, etc.) in file "project.tar.gz"
  - Details on filenames, etc. within file to be released shortly
  - At the same time, we will also release testing script to check contents of submission tarball
  - Also submit hard copy final design document in class

- Testing script can be run on tarball before final submission to check for minor errors

- Runs like "./testproject project.tar.gz"

- Will perform checks related to
    - Makefiles
    - Arguments accepted by fuzzer
    - Output of fuzzer
    - Etc.

- Will allow you to find and correct simple mistakes
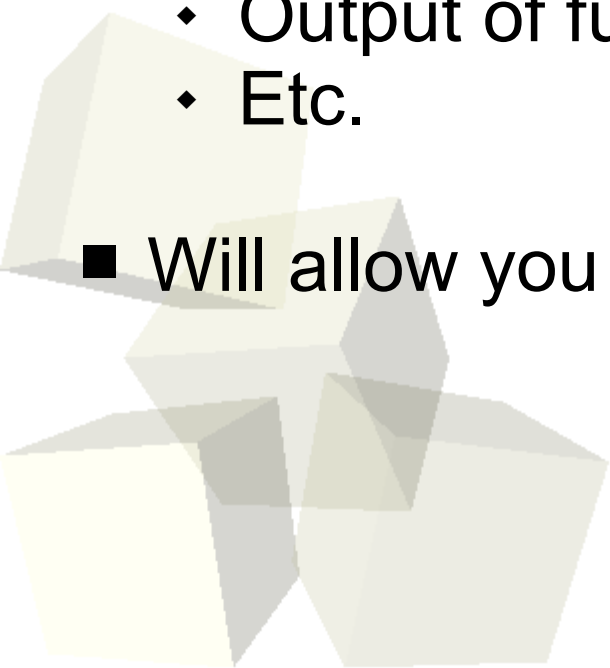
- Overall grading breakdown:
  - 5 points: milestone 1
  - 5 points: milestone 2
  - 50 points: number of bugs found in pstotext
  - 40 points: final design document and code
 - extra credit: bugs found in other programs

- 20 bugs in pstotext
  - Each distinct bug worth 2.5 points
  - Maximum of 50 points with 20 bugs
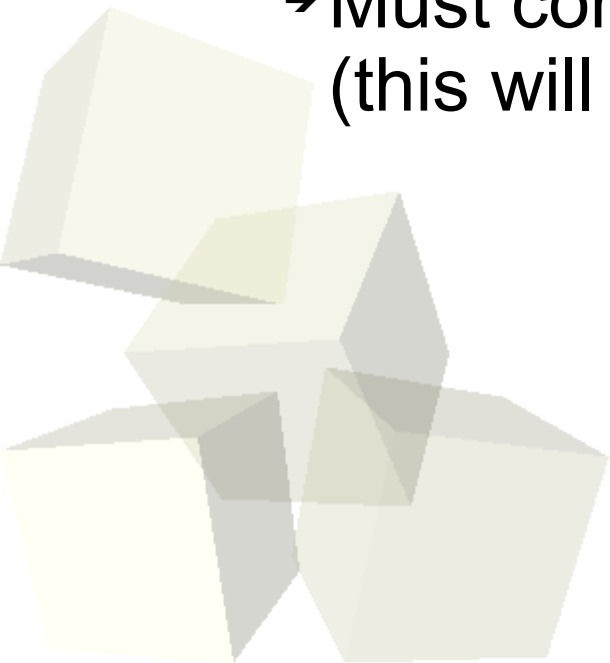
Project Grading: Design and Code

- 40 points for "final design document and code" category, broken down as follows:

- 14 points: "applicability and likely effectiveness of fuzzer design with wide range of programs"
  - Based on entirely on design document
  - For full credit on this part:
    - Design should be easy to apply to many programs
    - Should be effective in searching variety of spaces of possible testing inputs
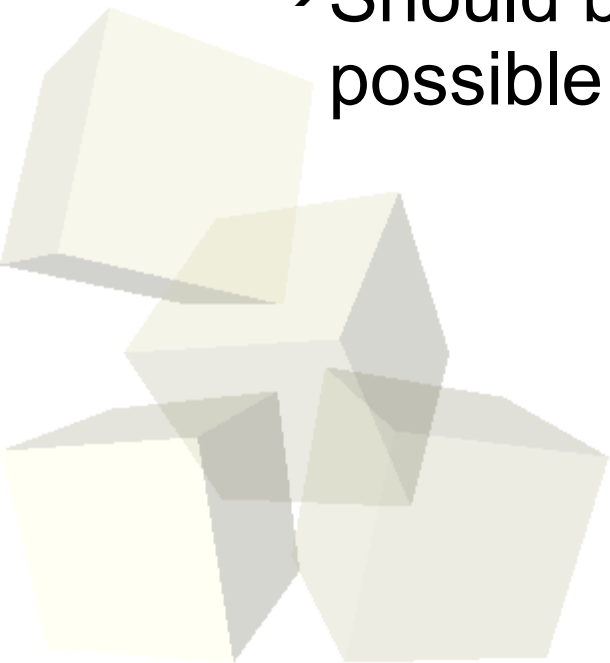
Project Grading: Design and Code

- 40 points for "final design document and code" category, broken down as follows:

- 14 points: "correctness of implementation"
  - Based on entirely on code (as run on ilinux1)
  - For full credit on this part:
    - Must correctly implement design described in design document
    - Must correctly implement interface we've specified (this will be mostly covered by testing script)

Project Grading: Design and Code

- 40 points for "final design document and code" category, broken down as follows:

- 12 points: "clarity and completeness of design document"
  - Based entirely on design document
  - For full credit on this part:
    - Design document should be 2-4 pages long
    - Need not include timetable, but should include per team member work breakdown
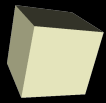   - Should adequately answer following questions:

"In general, what form does the specification for a testing input take?"
"How is that specification expanded into a test input with a PRNG seed?"
"Within this framework, how are PostScript inputs specified?"
"What space of PostScript documents should this search / sample from?"
"What implementation-level issues arose, and how were they solved?"

- Extra credit
  - Awarded when your fuzzer can "crash" some program
  - Input must be generated by your fuzzer and replayable
  - Program must segfault or terminate due to similarly severe signal (such as SIGILL)
  - Other forms of incorrect functioning not counted

- Each program crashed worth 15 points
  - Added to final project score
  - At most 15 points per program, even if more than one bug found
  - At most 3 programs, for maximum of 45 points extra credit

- Extra credit can raise project score above 100%!
  - Will improve overall course score accordingly

- icluster no longer available to this class
- Currently available machines
  - Linux x86:
    ilinux{1,2,3}.eecs.berkeley.edu
  - Solaris x86:
    {rhombus,sphere,pentagon,cube,torus}.cs.berkeley.edu
  - Solaris sparc:
    {quasar,pulsar,nova,star,solar,h50,h30}.cs.berkeley.edu
    {c199,cory}.eecs.berkeley.edu

- CPU usage policy
  - If other people using a machine, *each team may run at most one instance of pstotext at a time on that machine*
  - Please tell us if people do not follow this from now on