

# EECS22L DISCUSSION

Week3

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## Outline

- Project Technicalities
  - Project folder organization
  - How to create a tar archive
  - GTK library for GUI implementation
  - CVS setup

## Week3 Deliverable Expectations

- Deliverable Expectation
  - ▣ The complete organized project folder
  - ▣ Pass compilation and have the executable file
  - ▣ The executable file is runnable
  - ▣ The header files for all the modules
  - ▣ The source code files for all the modules
    - some functions can be empty with annotations, i.e. "Will show a window for the board"
- Chess\_Alpha.tar.gz
  - ▣ Alpha version of the chess game
  - ▣ Including source code and documentation

## Week3 Deliverable Expectations

- The organization of the project folder (Chess)
  - ▣ **README** - author, version, date, general instructions...
  - ▣ **COPYRIGHT** - author and copyright, i.e. (c) 2013 EECS22L-Teamx
  - ▣ **INSTALL** - installation instructions (how to compile, install)
  - ▣ **Makefile** - top-level, tool-specific Makefile
  - ▣ **bin/** - binary directory
    - **bin/chess** - symbolic link to executable in source directory
  - ▣ **man/** - directory for man pages
    - **man/Chess.l** - manual page or symbolic link to the manual page in source directory
  - ▣ **doc/** - directory for documentation
    - **doc/Chess\_User\_Spec.pdf** - extensive tool documentation, reports, etc.
  - ▣ **inc/** - shared include files
    - **inc/chess.h (optional)** - header files or symbolic link to header in source directory
  - ▣ **lib/** - directory for shared libraries
  - ▣ **src/** - source directory
    - **src/Makefile** - Makefile for sources
    - **src/Chess.c** - local sources...
    - **src/Chess.l** - manual page
- Make a symbolic link:
  - ▣ `% ln -s source_file`

## How to make a compressed tar archive

- To construct a compressed “tarball” that contains copies of all the files in a particular directory subtree
  - ▣ i.e. Chess\_Alpha.tar.gz
- Go to the parent directory of the *file folder*
- %gtar -czvf name\_tarball.tar.gz name\_file\_folder
  - ▣ Create a compressed “tarball” all the files in directory Chess
  - ▣ % gtar -czvf Chess\_Alpha.tar.gz Chess
    - -c create
    - -v verbose
    - -z gzip
    - -f files
    - -x extract

## GTK library for GUI Implementation

- <http://www.gtk.org>
- gtk-2.0 is available on ladera
- A simple GTK example
  - ▣ File source: ~eecs22/GTK\_Example.tar.gz
  - ▣ Unzip the tar ball
    - gtar -xzf GTK\_Simple.tar.gz
  - ▣ Please refer to the Makefile in this example for
    - gcc options of include directories
    - the names of the GTK libraries