Assignment 2

Instructor: Dr. Gang Hu Due: 11:59pm, Sunday, Oct. ??, 2018

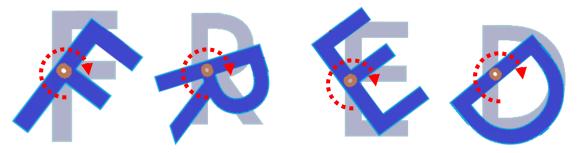
The purpose of this assignment is to let you get familiar with 2D transformation in OpenGL.

- 1) Use precompiled GLUI library (a GLUT-based C++ user interface library which provides controls such as buttons, checkboxes, radio buttons, and spinners to OpenGL applications)
 - a. Download windows_starter.zip from onCourse.
 - b. Unpack it, and open a2 project file, your VS will upgrade it Note:
 - a. The VS setting in the demo package may needs changes (eg. include, lib folds for .lib and. h files)
 - b. You may still encounter some issues, google it or contact me.
- 2) Tasks: Animating a 2D object

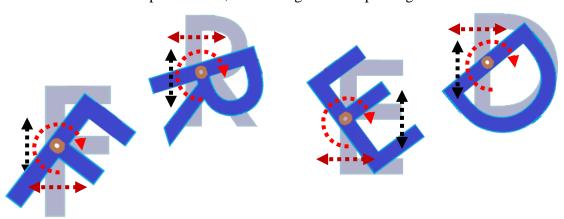
The figure below shows 4 letters, each of which has a rotation point (in brown color).



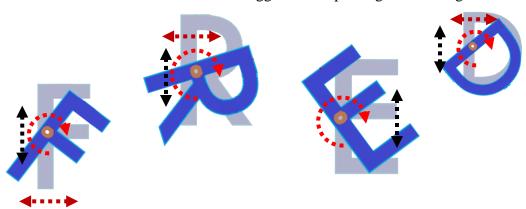
A. Make each letter spinning (360 degree) around the rotation point.



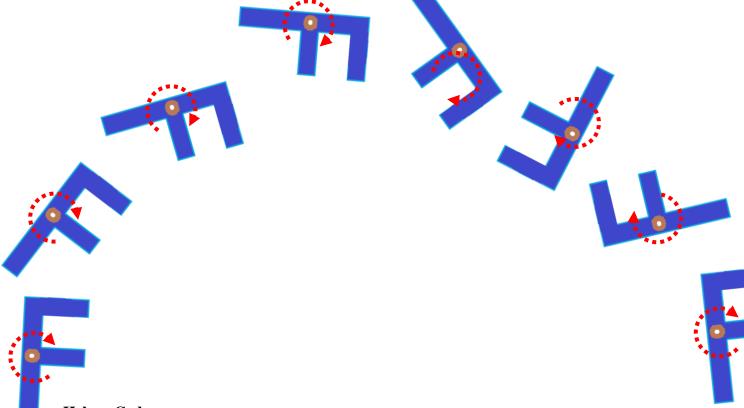
B. Make each letter up and down, left and right while spinning.



C. Make each letter size smaller and bigger while spinning and moving.



D. [bonus] Make a letter do parabola movement while spinning.



Helper Code

To get started, a simple demo is created for you. This will show you how to use the very basic commands of OpenGL to open a window and draw some basic shapes. This simple demo program opens a window, and animates a rotating bar. Please download, compile and run the demo.