## MS Visual Studio + GLUT Installation & Config Guide

1. Downloads:

VS <a href="https://www.dreamspark.com/student/Default.aspx">https://www.dreamspark.com/student/Default.aspx</a> GLUT <a href="https://user.xmission.com/~nate/glut.html">https://user.xmission.com/~nate/glut.html</a>

- 2. Install MS Visual Studio
- 3. Extract the GLUT archive and copy the files to the following directories (Please change accordingly if your installation is in a different location):

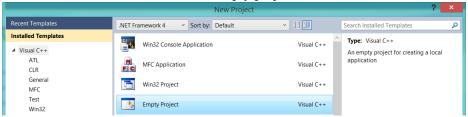
## For Windows 64-bit:

glut32.dll -> C:\Windows\SysWOW64 glut.h -> C:\Program Files (x86)\Microsoft Visual Studio 10.0\VC\include\GL glut32.lib -> C:\Program Files (x86)\Microsoft Visual Studio 10.0\VC\lib

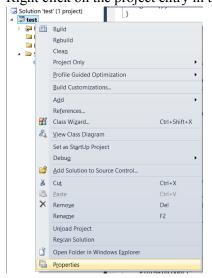
## For Windows 32-bit:

 $glut32.dll -> C:\Windows\System32\\ glut.h -> C:\Program Files\Microsoft Visual Studio 10.0\VC\include\GL\\ glut32.lib -> C:\Program Files\Microsoft Visual Studio 10.0\VC\lib$ 

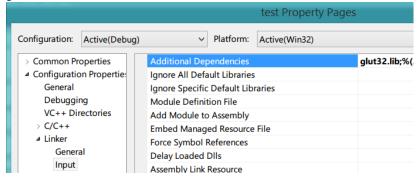
4. Launch Visual Studio and create an empty project



5. Right click on the project entry in the Solution Explorer panel, click "Properties"



6. Open the dropdown list from Linker – Input – Additional Dependencies, click Edit, and then add glut32.lib



7. Copy-paste the following code and compile

```
#include <gl/glut.h>
void init( void )
{
   // set background to white
   glClearColor(1.0, 1.0, 1.0, 0.0);
   glMatrixMode (GL_PROJECTION);
   gluOrtho2D(-100.0, 100.0, -100.0, 100.0);
   glMatrixMode (GL_MODELVIEW);
}
// Main drawing routine. Called repeatedly by GLUT's main loop
void display( void )
{
    //Clear the screen and set our initial view matrix
    glClear(GL_COLOR_BUFFER_BIT);
    glMatrixMode(GL_MODELVIEW);
    glLoadIdentity();
    //TODO: Perform drawing here
   glColor3f(0.0, 1.0, 0.0);
   glBegin(GL_POLYGON);
          glVertex2f(-50.0, -50.0);
          glVertex2f(50.0, -50.0);
          glVertex2f(50.0, 50.0);
          glVertex2f(-50.0, 50.0);
   glEnd();
    glutSwapBuffers();
}
// Entry point - GLUT setup and initialization
int main( int argc, char** argv )
  glutInit( &argc, argv );
  glutInitDisplayMode (GLUT DOUBLE | GLUT RGB);
  glutInitWindowSize (300, 300);
  glutInitWindowPosition (100, 100);
  glutCreateWindow( "OpenGL 2D" );
```

```
glutDisplayFunc( display );
init();
glutMainLoop();
return 0;
}
```