

Due: 11/7 (11:59PM)

Requirements:

- Write a WebGL program that meets the following requirements. Name your source code `hw5.html` and `hw5.js`.
 - The program models a 3D cylinder and displays it using wireframe rendering (see Fig. 1).
 - The model must consist of top face (n-gon), bottom face (n-gon), and side faces (rectangles).
 - Each n-gon (top/bottom faces) must consist of n triangles in the form of triangle fan (see Fig. 1).
 - Each of the side rectangles must consist of 2 triangles (see Fig. 1).
 - The cylinder must be rotating constantly to show the model from various angles (see video).

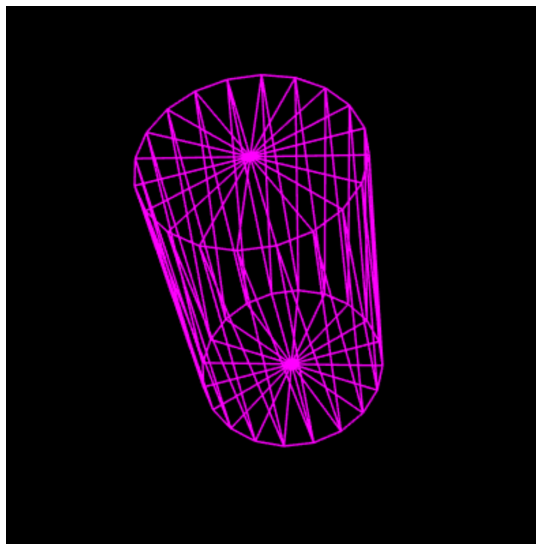


Figure 1: WireCylinder

What to submit:

- Submit all your **source files (.html, .js)** that are needed for compilation, including **library files/folders**. *Missing library files/folders will lead to point deduction.*

- Make sure your **library folder/files** are in the right location relative to your main program (.html), such that when your main program (.html) is clicked as is, it should run without problem. *Failure to do so will lead to point deduction.*

How to submit:

- Use Canvas Assignment Submission system to submit your source files.
- Make sure to zip all your files/folders into `hw5.zip`, then submit your `hw5.zip` as a single file.

Policy

- Do all the assignments on *Chrome Development Tools* using HTML, JavaScript, and GLSL ES.
- At the top of each source file, provide comments specifying the author, date, and a brief description of the file.
- Source code must contain enough comments here and there to make it easy enough to follow. Insufficient comments could lead to point deduction.
- Incomplete program will get almost no credit (e.g., program does not run due to compile errors or program terminates prematurely due to run-time errors).
- *Thou shall not covet thy neighbor's code.* If identical (or nearly identical) submissions are found among students, every student involved will get automatic zero for the assignment. The same goes for copying existing code from online source.
- If a student makes multiple submissions, only the last submission will be considered valid.