NTUST: 2020 Advanced Computer Graphics

Final Project：Write a program to render an ultra-high resolution picture for OBJ files

Date Due：2020. Dec. 18th Thu. PM11:55, and upload to Moodle. (around 2.5 weeks)

Description：

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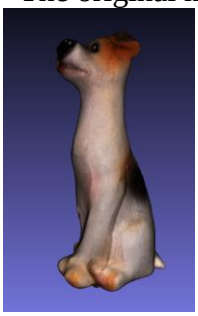
1. Write a program (python or C/C++) to read the OBJ file and store data into your own data structure.
2. Carefully locate your virtual camera to observe the color model in the openGL environment.
3. Rendering a "big" color picture as large as at least 6000 (w) by 8000 (h) (or 8000 by 6000) pixels based on the "perspective" projection.
4. In the picture, you need to arrange the object to roughly fit the picture.
5. You need to hand in **3** items, **(1)**. Source code in python (or C/C++/C#/java et. al.), with simple comment, **(2)**. Execute file (including all necessary dynamic link files), and **(3)** Output images as JPG. No need to write a report.
6. Reference Grade: Correctly rendering a big color picture for one model (90%). Be able to deal with all given models and the picture's width and height are user adjustable (10%).

Hint:

- You may need to decompose the picture into several tiles then merge them again.
- The original models for your reference:



- One example for your reference (in file).

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