Project #1: Implementing Luxo

1 Instruction

- Due: 11:59pm 7 Nov (Sun)
- file structure
 - SOME_FOLDER/proj1/proj1.html
 - SOME_FOLDER/resources/threejs/r119/build/three.module.js
 - SOME_FOLDER/resources/threejs/r119/examples/jsm/controls/OrbitControls.js
 - SOME_FOLDER/3rdparty/dat.gui.module.js
- You can find all the required files (except proj1.html) in the threejsfundamentals.org example file. https://github.com/gfxfundamentals/threejsfundamentals/archive/gh-pages.zip
- Submit proj1.html and readme.txt only! (in one ZIP file)
- Do not forget pressing "submit" button after uploading your files.

2 Requirements

- Extend proj1-skeleton.html to implement the whole parts of the luxo lamp.
- Extend the GUI to include the control pannel as shown in the demo. The min/max/step values of add function are as follows.

part	\min	max	stepsize
blue arm length (lower)	2	7	0.1
blue arm length (upper)	2	7	0.1
green joint (base)	-180	180	1
green joint (middle)	-180	180	1
green joint (head)	-180	180	1
lamp angle	10	90	1

- There are already two lights (one point + one ambient) in the scene. Add a light bulb (a spot light) on the head of the lamp as in the demo.
- Put at least four 3D models in the scene and make them cast shadows on the walls.
- Write a readme.txt file. In the file, describe which requirements you succeeded or failed to implement. Please do not write too much details in the file. You don't have to explain everything about your code.