

# Live Lecture Chat Window

November 1, 2023

**14:12:45 Can these objects [in Project #4] really be anything?**

You all make me nervous when you ask about things being “anything”. “Anything that is in good taste” is how I would describe it.

**14:16:01 Should planets [in Project #5] spin on an axis?**

They can but don't have to.

**14:19:56 Is it possible to make an object move in the animation according to key clicks, like a video game?**

Yes, have some global variables to define the transformations and increment/decrement those based on keyboard hits.

**14:27:42 Can you view an eclipse in the sun-earth-moon model?**

Yes, but you need to accurately input the planet radii and planet distances so the eclipse happens graphically the way it happens IRL. But then the Earth and Moon will appear very small on the screen. Space really is space.

**15:32:56 I had a quick question about modifying glslprogram - if we want to make any modifications to the class (have been experimenting with GLM and was thinking of adding some additional versions of SetUniformVariable that work with GLM types) should we just detail any additions in the PDF?**

That is an excellent thing to do! Especially glm::vec3, glm::vec4, and glm::mat4 make a lot of sense. Yes, I'd like to hear about what you did and how you did it.

**15:39:52 I follow someone on instagram that designs and sells cake molds**

[https://www.etsy.com/listing/1459243157/superhero-cookie-cutters-3d-print-stl?ga\\_order=most\\_relevant&ga\\_search\\_type=all&ga\\_view\\_type=gallery&ga\\_search\\_query=cookie+cutters+3d+printed&ref=sr\\_gallery-1-1&dd=1&organic\\_search\\_click=1](https://www.etsy.com/listing/1459243157/superhero-cookie-cutters-3d-print-stl?ga_order=most_relevant&ga_search_type=all&ga_view_type=gallery&ga_search_query=cookie+cutters+3d+printed&ref=sr_gallery-1-1&dd=1&organic_search_click=1)

Wow!

**15:42:42 I have heard that [3D printer] material needs to be a certain material to be food safe, is that right?**

I know that, at least in the past, some of the resins have been toxic and needed well-ventilated environments and a controlled disposal mechanism, so I wouldn't be surprised if some are food-unsafe. I would think that the plastic desktop 3D Printers materials (e.g., PLA) would be safe. Don't take my guess here as fact.