Paper Project Reflection

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Group Members: Trae Claar, Chase Dolan

Project: Linear Transformations on 3D Objects as Matrix Multiplication

Link to GitHub: github.com/tclaar/CubeTransformations

This project was really interesting! I think that I can speak for all my group members when I say it helped us improve our technical writing, linear algebra, coding, and teamwork skills. Specifically, I think that we chose a subject of a decent complexity – I answered a lot of questions and learned a lot, but I also have more questions which I couldn't cover in the paper (like what happens, specifically, when the rotation vector has a magnitude not equal to one).

I specifically worked on the rotation section, both of the code and the paper. Each group member did the same thing – Trae with scale, Chase with shear. We all helped each other figure out what to include and what not to, helped each other notice and fix our own mistakes. I specifically did a whole bunch of fact checking this morning and let everybody know if stuff in their section wasn't exactly true or explained well. Trae set up the Jupyter notebook, but we sent him the regular python files to construct it, and I made a couple changes to my section.

The three of us worked very well together, and everybody contributed equally. I think we all produced something that we are proud of, and surpassed our initial expectations. I think at first we were all a bit intimidated by the magnitude of what we were taking on, but we figured it out together. I'm appreciative that this class taught me a little bit of python and gave me something kind of impressive that can go on my resume, at least for now. I also am glad to have gotten more experience using LATEX.