Investigation Into The Representation Of 4D Shapes

24/02/2022

Week 2 Progress Report

- Catching up on assessed exercises has slowed progress a little
- Filling in the gaps from when you last read it
- Added figures

Questions

- Opinions of figures
- Struggling to think of/phrase good strong research questions
 - What is most important aspect of geometry?
 - Being able to understand the rotations better
 - Being able to understand the shape of an object
 - Being able to understand how a shape will behave when you interact with it
 - O How can different aspects of geometry be emphasised?
 - Different representations extensions to a 3D cross section
 - How is stable rotation/manipulation achieved in 4D?
 - Rotor too basic of a question?
 - Do people improve with more interaction with 4D shapes?
 - yes too basic of a question?

Plan Ahead

Week 1 & Week 2

- Finish implementing test system
 - graphs between representations
 - fix rotor rotation
 - add time limit

Week 3

- Begin developing data analysis tools, most likely with a jupyter notebook
- run some preliminary tests to decide if there is any data or visualisations I want to cut

Week 4 & Week 5 & Week 6

- Run experiments
- Begin dissertation
- Begin presentation
- Further develop data analysis tools

Week 7

Evaluation of experiments

Week 8 & Week 9 & Week 10

Write up draft dissertation

Am I on schedule

 Yes, next week alongside writing up more of the dissertation I may begin compiling preliminary evaluation of the experiments