Project Notes

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Introduction

This notebook will serve as a reference for all activites related to the completion of my project. I will separate each entry by week, listing and describing everything I did that week and how it will help my project progress.

Week 1, 28th Sept - 4th Oct

This week I was introduced to the expectations for the project. I have started by scheduling a meeting with Stephen Laycock, my supervisor, and starting off my project proposal by doing some market research of similar software and reading some papers covering the subject of constructing trees using algorithms.

I have not yet decided any approach for the project due to being unsure what kind of aims I should be making, after my meeting with Stephen on the 5th I will hopefully know what route to be going down for the project.

Week 2, 5th Oct - 11th Oct

After my meeting with Stephen on the 5th I am more aware of what direction I will be taking the project. I will be creating an OpenGL module that can be added into a project to allow for the construction of trees in whatever environment the user has created. There are many avenues of complexity I can go down but at the moment I have decided that my focus will be to have the branch creation be as realistic as possible and hopefully include some sort of obstacle avoidance system wherever the tree grows. I have scheduled another meeting with Stephen for the same time next week on the 12th where we have agreed I should have completed the project proposal for review.

Nearing the end of the week I have completed my project proposal and sent it to Stephen for him to review and discuss in our meeting on the 12th. I have fleshed out more of my thoughts towards how I should approach the project.

Week 3, 12th Oct - 18th Oct

During this weeks meeting with Stephen he provided me with feedback on my project proposal and we discussed moving on to the literature review. His comments about the proposal were very useful and his advice for the literature review has helped me understand the structure that I should use when writing it. I will be focusing on bringing together and comparing the content of multiple papers with respect to specific parts of my project such as tree branch construction or leaf placement etc.

The end of the week was used to start the introduction to my literature review where I described the project and discussed the required knowledge for completion of the project.

Week 4, 19th Oct - 25th Oct

This weeks meeting with Stephen was used to discuss the introduction I sent him for the literature review and how to improve it, along with how I should proceed with the rest of the document. I have a better understanding of how I will be approaching the rest of the literature review now. I have also downloaded several papers related to the project that I will use for my comparisons in the rest of the document, I hope to have it finished by my next meeting with Stephen on the 26th.

Progress on the document did not proceed as quickly as I would have hoped. After evaluating the papers I downloaded I found that a few were not strictly relevant to the project and so had to remove them, leaving me with less content to use. Other obstacles prevented much work being done on the literature review but it is not expected until the end of next week so I am still on target.

1 Week 5, 26th Oct - 1st Nov

This weeks meeting with Stephen wasn't as productive as I would've hoped due to me not making as much progress on the literature review as I wanted to. We discussed some of the upcoming sections in the review giving me a better understanding of what I should consider for content.

The second half of this week proved quite productive where I managed to write a lot of content relating to branch structure, leaf placement and wind affect with respect to various papers. This process has greatly improved my understanding of many of the key areas of knowledge that will be required in the design and implementation stage.

2 Week 6, 2nd Nov - 8th Nov

This weeks meeting was used to discuss the content I had written in the latter half of Week 5. Unfortunately the review was not finished for the end of Week 5 but good progress has been made and I will be able to finish it in the next couple of days.

I have now completed the literature review and sent off my final draft to Stephen, the last content added was a comparison of work related to detail management with tree models, such as different approaches to LOD dropoff, and then a simple conclusion.