WORKSHEET 3: OPTIMISATION

Version 1.0
Computing
COMP280

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Introduction

In this worksheet, you will carry out an optimisation process for one of your projects. You will log each step you carry out and detail any changes you make to your code base. This should be recorded in a report, a template for which can be found at the repository below.

Begin by **forking** the following git repository:

https://github.com/Falmouth-Games-Academy/comp280-worksheet-3

To complete this worksheet:

(A) **Fork** the repository linked above.
(B) **Identify** a project to optimise
(C) **Record** a base line for the project
(D) **Optimise** the project, record the changes on your codebase and any results
(E) **Re-run** the above optimisation step
(F) **Open a pull request** by end of week 11 for summative feedback.

Please include a link to the project you are using in the optimisation process

Additional guidance

Optimisation is a very important aspect of Game Development, it is something you should carry out key parts of the project.

In addition the process is very much like running an experiment, you don't make changes because your gut tells you. You have to run the profiler, identify the bottleneck and then make changes to your codebase or the project. We are more interested in how you approach the optimisation process rather than the results you achieve.

You can select any project for the optimisation process, this can be one of the following:

- GAM220/GAM240 Project
- Previous COMP280 Worksheet submission
- COMP140 Project
- Personal Project

Lastly, there is no maximum word or page count for this worksheet.

For more guidance, please read the over-arching assignment brief for this assignment on LearningSpace.

Marking Rubric

Criterion	Weight	Near Pass	Adequate	Competent	Very Good	Excellent	Outstanding
Optimisation Process	70%	Optimisation has been carried out but there is no supporting documentation	Optimisation has been carried out with some basic supporting documentation The documentation lacks detail and clarity, there is also a lack of figures, charts and tables	Optimisation has been carried out with more detailed supporting documentation The documentation lacks detail and clarity, but there is evidence of more analytical approach (including diagrams)	Optimisation has been carried out and the supporting documentation is of a good level The documentation is of a good level of detail and there is evidence of more analytical approach (including diagrams)	Optimisation has been carried out and the supporting documentation is of a very good level The documentation is of a good level of detail and the commentary on the optimisation process is of a good level of detail	Optimisation has been carried out and the supporting documentation is of a excellent level The documentation is of a good level of detail and the commentary on the optimisation process is of a excellent level of detail
Iteration of Optimisation	10%	There is no evidence of iteration of optimisation process	There has been additional iterations, mark will be based on number and quality of iterations				
Spelling & grammar	10%	Substantial spelling and/or grammatical errors.	Many spelling and/or grammatical errors.	Some spelling and/or grammatical errors.	Few spelling and/or grammatical errors.	Almost no spelling and/or grammatical errors.	No spelling or grammatical errors.
Structure	10%	There is no structure, or the structure is unclear.	There is little structure.	There is some structure. A few sentences and paragraphs are well constructed.	There is much structure. Some sentences and paragraphs are well constructed.	There is much structure, highlighting the key themes. Most sentences and paragraphs are well constructed.	There is much structure, highlighting the key themes. All sentences and paragraphs are well constructed.