



Final mark awarded: _____

Faculty of Computing, Engineering and Science

Assessment Cover Sheet and Feedback Form 2017-18

Table with 3 columns: Module Code, Module Title, Module Lecturer, Assessment Title, Assessment No., No. of pages submitted, Word Count of submission, Date Set, Submission Date, Return Date.

Part A: Record of Submission (to be completed by Student)

Extenuating Circumstances

If there are any exceptional circumstances that may have affected your ability to undertake or submit this assignment, make sure you contact the Advice Centre on your campus prior to your submission deadline.

Fit to sit policy:

The University operates a fit to sit policy whereby you, in submitting or presenting yourself for an assessment, are declaring that you are fit to sit the assessment. You cannot subsequently claim that your performance in this assessment was affected by extenuating factors.

Plagiarism and Unfair Practice Declaration:

By submitting this assessment, you declare that it is your own work and that the sources of information and material you have used (including the internet) have been fully identified and properly acknowledged as required. Additionally, the work presented has not been submitted for any other assessment. You also understand that the Faculty reserves the right to investigate allegations of plagiarism or unfair practice which, if proven, could result in a fail in this assessment and may affect your progress.

Intellectual Property and Retention of Student Work:

You understand that the University will retain a copy of any assessments submitted electronically for evidence and quality assurance purposes; requests for the removal of assessments will only be considered if the work contains information that is either politically and/or commercially sensitive (as determined by the University) and where requests are made by the relevant module leader or dissertation supervisor.

Details of Submission:

Note that all work handed in after the submission date and within 5 working days will be capped at 40%. No marks will be awarded if the assessment is submitted after the late submission date unless extenuating circumstances are applied for and accepted (Advice Centre to be consulted).

Table with 2 columns: Acknowledgment statement and Student Number(s).

1University Academic Misconduct Regulations
2Information on exclusions to this rule is available from the Advice Centre at each Campus

your student number(s) in the box:	
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IT IS YOUR RESPONSIBILITY TO KEEP RECORDS OF ALL WORK SUBMITTED

<p style="text-align: center;">Part B: Marking and Assessment (to be completed by Module Lecturer)</p>
<p>This assignment will be marked out of 100%</p> <p>This assignment contributes to 50% of the total module marks.</p> <p>This assignment is bonded</p>
<p>Learning Outcomes to be assessed (as specified in the validated module descriptor https://icis.southwales.ac.uk/):</p> <p><i>1) To critically evaluate the techniques that underpin modern game engines2) To be able to justify techniques used in the design, development and evaluation of game engine and gameplay code</i></p>

Feedback/feed-forward (linked to assessment criteria):

- Areas where you have done well:

- Feedback from this assessment to help you to improve future assessments:

- Other comments

Mark:

Marker's Signature:

Date:

- **Work on this module has been marked, double marked/moderated in line with USW procedures.**

Provisional mark only: subject to change and/or confirmation by the Assessment Board

**Part C: Reflections on Assessment
(to be completed by student – optional)**

Use of previous feedback:

In this assessment, I have taken/took note of the following points in feedback on previous work:

Please indicate which of the following you feel/felt applies/applied to your submitted work

- A reasonable attempt. I could have developed some of the sections further.
- A good attempt, displaying my understanding and learning, with analysis in some parts.
- A very good attempt. The work demonstrates my clear understanding of the learning supported by relevant literature and scholarly work with good analysis and evaluation.
- An excellent attempt, with clear application of literature and scholarly work, demonstrating significant analysis and evaluation.

What I found most difficult about this assessment:

The areas where I would value/would have valued feedback:

Assessment Task:

The aim of this coursework is twofold, firstly extend the chisel free software package which allows doom3 maps to be built from the command line and secondly enhance the python bot capability in the modified doom3 engine presented in lectures. Your modifications will typically show you how to build a pacman or penguin tower mod for doom3.

Part 1. Chisel changes

Your extensions to this package should primarily be directed towards the tool `pen2map.py`. This will transform a simple pen map into a doom3 map. It can be extended in any way you feel appropriate.

You might choose to work on any of the following:

- (i) implementing open doors between rooms (visportals). You might also consider having rooms at different z heights and creating steps between them.
- (ii) converting a concave pen room into multiple convex map entities.
- (iii) provide automatic lighting to a pen map when converting a pen into a map file.
- (iv) implementing a more interesting roof line in each room.

The chisel software can be obtained using git:

```
git clone https://github.com/gaiusm/chisel
```

Part 2: doom3 changes

Download the SouthWales modified doom3 engine from:

```
http://floppsie.comp.glam.ac.uk/download/c/dhewm3-latest.tar.gz
```

and apply any patches found in the `chisel/dhewm3` directory. The lectures and tutorials will guide you in this process. You should enhance the Python bot RPC mechanism to allow the bots to hunt down the human player.

Your report should include a git diff and also a commentary of the changes you made and justification with respect to doom3. You should include relevant screenshots within your report.

Finally your report should comment on the success or otherwise of using this tool for the creation of maps for doom3 and future improvements you might make.

Your report should not exceed 3000 words (excluding code).

	Fail	Narrow Fail	3rd Class / Pass	Lower 2nd Class / Pass	Upper 2nd Class / Merit	1st Class / Distinction
Complexity of the implementation changes 40%	<ul style="list-style-type: none"> Very poor Complexity of the implementation changes 	<ul style="list-style-type: none"> Poor Complexity of the implementation changes 	<ul style="list-style-type: none"> Satisfactory Complexity of the implementation changes. A single feature was changed. Some obvious code weaknesses exist, but the overall direction was sensible 	<ul style="list-style-type: none"> Good Complexity of the implementation changes. Sensible changes attempted, code contains some errors but is along the correct path 	<ul style="list-style-type: none"> Very good Complexity of the implementation changes. Interesting and effective changes made either visually or structurally 	<ul style="list-style-type: none"> Excellent Complexity of the implementation changes. Code contains independent ideas and is well crafted
Documentation of your changes to chisel and doom3 30%	<ul style="list-style-type: none"> Very poor Documentation of your changes to chisel and doom3 	<ul style="list-style-type: none"> Poor Documentation of your changes to chisel and doom3 	<ul style="list-style-type: none"> Satisfactory Documentation of your changes to chisel and doom3. Documentation might contain minor omissions and errors 	<ul style="list-style-type: none"> Good Documentation of your changes to chisel and doom3. Documentation contains weaknesses in some areas 	<ul style="list-style-type: none"> Very good Documentation of your changes to chisel and doom3. Well written and sensible comments made 	<ul style="list-style-type: none"> Excellent Documentation of your changes to chisel and doom3. Well written documentation with very relevant screenshots and excellent use of git to highlight changes
Commentary on the usefulness and future improvements 30%	<ul style="list-style-type: none"> Very poor Commentary on the usefulness and future improvements 	<ul style="list-style-type: none"> Poor Commentary on the usefulness and future improvements 	<ul style="list-style-type: none"> Satisfactory Commentary on the usefulness and future improvements. The commentary addresses some of the areas with errors and omissions 	<ul style="list-style-type: none"> Good Commentary on the usefulness and future improvements. The commentary addresses the majority of areas with a few errors or omissions 	<ul style="list-style-type: none"> Very good Commentary on the usefulness and future improvements. The commentary addresses the majority of areas with no major errors or omissions 	<ul style="list-style-type: none"> Excellent Commentary on the usefulness and future improvements. The commentary contains a high amount of independent thought and also all the major areas are covered without errors