

University of London International Programmes

CO3343 Computing art and image effects

Computing coursework assignments 2014–2015

Coursework assignment 1

Introduction

Tate Modern [1], located in London, is the most-visited modern art gallery in the world. From 2000 to 2012 it hosted the Unilever series of exhibitions [2], commissioning works of art especially created for display in the gallery's Turbine Hall. This gave the opportunity for a number of notable artists to exhibit in a breath-taking space, with 3,400 square metres of surface and 35 metres of height, freely accessible to the public. This process resulted in some of the most significant recent sculptures of contemporary art.

Familiarise yourself with works of the Unilever series through your research, using [2] as a starting point. Read the **CO3343 subject guide** up to the end of Chapter 3, carrying out the related reading and attempting the associated exercises.

A. (25%) (guideline 600 words, plus illustrations)

Choose your favourite two sculptures of the series. Present the selected artworks, including appropriate illustrations, and describe them in terms of form, size, colour, texture and material and any other structural attribute you consider important. Compare and contrast the views of different sources regarding the artistic merit and the perceptual and emotional effects of the chosen pieces. Finally, based on your research, present and justify your own view on the effectiveness of the artists' work.

Make sure that you cite your sources (both for text and illustrations) correctly in-text and give full details in your reference list.

B. (10%) (guideline 250 words, plus illustrations)

Describe to which degree artworks like the ones you described in Part A can be virtually constructed using the software provided with the subject guide. How can such software facilitate the construction using techniques such as faceted models? Which limitations do you identify?

C. (20%) (guideline 500 words, plus illustrations)

Imagine that you have been commissioned by Tate Modern to create a sculpture to be exhibited in the Turbine Hall. Your sculpture should consist of an object, or a small group of objects, with some artistic attributes and be tailor-made to make use of the specific space.

Make a hand-drawn sketch to demonstrate your project. Consider providing multiple viewpoints, if they help illustrate your work better. Provide a description of your sculpture, focusing on the artistic and emotional effects you wish to achieve, with references to the shapes, textures and colours used.

It is very important that the form is realisable with computer graphics using some of the modelling techniques described in Chapter 3 of the **CO3343 subject guide**, such as facettted models, bodies of rotation and bodies of extrusion.

Note that while proficiency in drawing is not a primary determinant for assessment, your sketch(es) should clearly show your intention.

D. (45%) (guideline 500 words -- not including code listings -- with illustrations)

Construct your virtual sculpture as described in part B by implementing a facettted model of it, using *Processing*. Make your software interactive so as to permit mouse-controlled navigation inside the scene. Provide screenshots from multiple viewpoints.

Describe your modelling approach and expose the problems you faced and the design decisions you made. Analyse how well the displayed virtual sculpture meets your artistic intentions and suggest what additional computer graphics facilities might enable improvements.

In your submission, provide a listing of any code you develop, with your own contributions highlighted and an attribution for the remaining code (such as code taken from the **CO3343 subject guide**).

Submission

Submit your coursework assignment as a .pdf file; include listings of the software you write. You should also upload all source code files that you have developed for this coursework assignment, with instructions on how to compile them (as comments in the source files, or as a separate readme file).

[TOTAL 100%]

References

[1] <http://www.tate.org.uk/visit/tate-modern>

[2] <http://www.tate.org.uk/whats-on/tate-modern/exhibitionseries/unilever-series>

[END OF COURSEWORK ASSIGNMENT 1]