

CS325/FILM385AB Final Exam  
December 12, 2012, 14:00 – 17:00, CL431  
D. Hepting

The final exam contributes 20 marks towards your final grade. This exam has 60 marks divided between 2 types of questions. I value quality over quantity but you should at the same time write enough to show me that you understand the concepts. You have 180 minutes to complete the exam, or 3 minutes per mark. WRITE ALL YOUR ANSWERS IN THE EXAM BOOKLET. If you are not sure how to interpret a question, make your assumptions clear in your response – I won't clarify questions during the exam.

Part 1. (12 questions x 3 marks = 36 marks). For each question below, do: a) answer the question itself (1 mark, 1-2 sentences); b) identify the significance in the context of this class (1 mark, 1-2 sentences); and c) provide an example (1 mark, 1-2 sentences).

1. What is character encoding, with respect to websites?
2. How does Scratch democratize multimedia?
3. How are image and audio dithering similar?
4. What is an advantage of the HTML5 video tag?
5. What is the reason for aliasing in images?
6. What is an advantage of SVG?
7. What happens by changing the amount of storage per sample?
8. Explain the difference between progressive scan and interlaced.
9. Why take 44100 samples per second for CD quality audio?
10. Is streaming or download the preferred option for media presentation?
11. How can compression be achieved through use of a YUV/YCbCr colour space?
12. How would you create an animation for your website?

Part 2. (3 questions x 8 marks each = 24 marks). You should be able to write a page side about each of these. Please take some time to plan your answers.

1. What do you understand it to mean that all information wants to be ASCII? Do you agree that this should be the goal?
2. What have you learned about the issues around interpretation and transformation of bits in different ways so as to go between text, images, and sound? Is it, or could it be, meaningful to choose amongst different possible interpretations when viewing a file's contents?
3. We looked at some examples in popcorn.js (HTML5 Media Framework). While they were interesting, they had some issues with synchronization between different media. Is a solution possible? How would you approach a solution?