

**CS 205 Final Exam: D. Hepting**  
**April 28, 2017, 14:00 – 17:00, CL 408**

- **Be sure to read ALL the instructions BEFORE writing anything.** This is a closed book exam. You must maintain the confidentiality of your examination; do not provide any opportunity for others to copy any of your work. Electronic devices are NOT permitted during the exam. Please turn off and put away all cell phones and other electronic devices during the exam period.
- **All answers must be written on this exam in the space provided.** You have 180 minutes to complete the exam. Please plan your answers, favour quality over quantity, do not exceed the space provided, and do your best to write legibly. Space **OUTSIDE** the boxes can be used for rough work.
- This exam contributes 25 percent towards your final grade. Recall that you **must pass** this exam to pass the course. Each question is worth **6 marks**. There are 12 questions, from which you must **choose not more than 8**. Your exam will be marked out of 50 (48 + 2 marks that you can earn by putting your name (or initials) on each page).

Name (printed): \_\_\_\_\_

Signature: \_\_\_\_\_

Q1. Which is a more appropriate adjective: unimedia or multimedia? Please explain.

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Q2. What is the difference between HSV and RGB? Please explain.

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Q3. What causes aliasing and how can we deal with its effects?

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Q4. What is involved in taking an image from your computer screen and printing it?

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Q5. What things determine how well we can capture a discrete representation of a continuous phenomenon?

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Q6. What is *dithering*? What are the two ways we discussed using it this semester? How are they similar? Please explain.

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Q7. Why do we need UTF-8 in addition to Unicode? Please explain.

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Q8. What is the difference between processing and p5.js? Are both valuable? Which do you prefer? Please explain.

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Q9. If you were asked to reinterpret a sound recording as an image, how would you proceed? What choices would you need to make? Please explain.

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Q10. How are the concepts of bitmap and vector images still important when we move from 2D to 3D?

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Q11. What is the relationship between an audio recording and a MIDI file? Please explain.

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Q12. What are the differences between recording a video of live action and creating a computer-generated animation and then making both available on the internet?

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