

Further Human–Computer Interaction: Supervision 2

Lectures covered by the supervision: <https://www.cl.cam.ac.uk/teaching/2526/FHCI/>

- Lecture 5: Designing efficient systems
- Lecture 6: Designing meaningful systems
- Lecture 7: Evaluating interactive system designs
- Lecture 8: Designing complex systems

Previous exams

Supervision questions:

1. Based on the statistical method presented in Lectures 5 and 6, can you suggest how to create a solution for autocorrect? How can you introduce an optimisation so the autocorrect becomes customized to the user's style of writing?
2. Use Cognitive Dimensions to compare between two programming languages: Scratch (<https://scratch.mit.edu/>) and TypeScript (<https://www.typescriptlang.org/>). This analysis should include:
 - a. A sketch of the interface highlighting the relevant UI elements
 - i. please note that CDNs analysis is meaningless independent of an environment for editing the notation, meaning you will need to choose a code editor. It is this combination of interface (code editor) + notation (TypeScript) that you can analyse.
 - b. A brief discussion of the notational activities that users engage in (which activities are important? which activities happen often?)
 - c. Then pick one activity (the same for both Scratch and TypeScript) and compare between the two programming languages by briefly discussing:
 - i. The relevance of each dimension for this activity
 - ii. How well each of the relevant dimensions supports the activity
 - iii. Any trade-offs
3. Propose a way in which the design of one of the programming languages above might be modified that would have an effect on one of the dimensions you discussed above for the selected activity. Consider any trade-offs that might result and discuss whether the proposed modification changes other dimensions for that activity or for other activities.
4. Discuss the differences and similarities between designing a professional sound editor and designing a fitness app (max 1500 words). You can start by differentiating between which kind of system (as listed in the lecture titles) best describes each application, or you can use one of the theories discussed in the course to compare between them. Your essay should also include a brief discussion of the context of use and purpose of the two applications and what the framework that you chose has to say about these, and what formative/summative research methods would work best for each case.
5. [2018 Paper 7 Question 8](#)
6. Summarize the main message from lecture 5 in 1-3 sentences?
7. Summarize the main message from lecture 6 in 1-3 sentences?
8. Summarize the main message from lecture 7 in 1-3 sentences?
9. Summarize the main message from lecture 8 in 1-3 sentences?

Save your answers into MS Teams or email them to me. Please use the following naming pattern:

FCI_Supervision_2_Answers_<last name>_<first name>_Lent_2026

Send your answers as a pdf, doc, image, or any other format of a document for which there exists an easily available software to open.

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