Supervision 2 - Further HCI 2019

1. CDNs analysis

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 sketch of the interface highlighting the relevant UI elements
    - 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
- A brief discussion of the notational activities that users engage in (which activities are important? which activities happen often?)
- Then pick one activity (the same for both Scratch and TypeScript) and compare between the two programming languages by briefly discussing:
    - The relevance of each dimension for this activity
    - How well each of the relevant dimensions supports the activity
    - Any trade-offs

You should also discuss why it is that you think the designers made these design choices.

2. CDNs design intervention

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.

3. Designing different systems

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.

4. Exam question

HCI 2018 Paper 7 Question 6:

https://www.cl.cam.ac.uk/teaching/exams/pastpapers/y2018p27q8.pdf