

Exercise 4 – Advanced Topics in HCI (MMI 2)

Information Visualization

2. Design of an iTunes Plug-In for the visualization of music collections (10 Points – June 30th 2008):

As the result of an initial questionnaire, we found that users would like to use musical similarity as a criterion for organizing and browsing their music collections. Songs could be similar, for example, regarding speed (BPM), speed variation, rhythm, voice (male/female), or instrument. Let's assume that we have a perfect music analysis component to compute these features reliably for every song in the collection.

Design a plug-in for iTunes, which offers a visualization of the music collection based on similarity. You don't need to provide functionalities for searching by song or album name, since this is provided by iTunes anyway. Your visualization should at least support the following:

- Visualization of the entire music collection based on one or several similarity features
- Automatic generation of playlists based on similarity regarding a seed (or multiple seeds)
- Basic functionalities for browsing and searching/filtering should be integrated seamlessly in the same UI
- You are free to propose other possible interactions

Please provide several sketches of your interface and a description of how it will behave and how users can interact with it. In addition, include Photoshop (or similar) mockups in your presentation. Please justify all of your design decisions.

Submit a *.ppt file, that summarizes your results and includes the sketches and mockups. Please use the **English** language in your PowerPoint presentation! Be also prepared to give the presentation in **English**! Send this file to sebastian.boring@ifi.lmu.de by **Monday, June 30th 2008 11:59 a.m.**