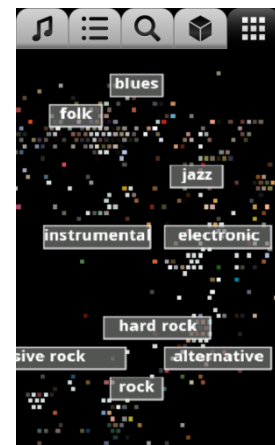


SA/MA: Integrating External Data Sources into an Android Music Player

Several factors, such as the growth of the Internet, peer-to-peer technologies, or the emergence of the compact media formats have changed the way people deal with music. Personal music collections have grown bigger, and, thanks to portable players and advances in storage technology, they can nowadays be accessed anywhere and anytime. The music collections accumulated by music lovers have reached sizes that make it hard to maintain an overview of the data by just browsing hierarchies of folders. Therefore, novel methods to organize music are required – methods that efficiently operate on orders of thousands of songs, and that allow personal music collections to be seen not just as isolated entities, but positioned in the global context of the world of music.

jukefox

In our lab, we have developed museek (<http://www.museek.ethz.ch>), a Music Player for the Android Mobile Platform that addresses these issues. An important ingredient of the application is a “map of music” that facilitates a multitude of similarity aware browsing and playlist creation interfaces. Besides these advanced interfaces, it also provides most of the standard music player functionality (such as traditional artist and album lists, full-text search, shuffle mode, etc.). To further improve the listening experience, we would like to extend the current application using data that is freely available data from the web. Examples are creative commons music and lyrics. Both pieces of information fit the spirit of the current application and could seamlessly be integrated.



The goal of this project is to complement the existing application with a novel functionality that is based on web-data. We already have some ideas how such a data- integration might look like, however, we are also open for suggestions from your side.

If the code you develop throughout this project achieves release quality, it will be included in the future releases of jukefox, which has a broad user basis (more than 100,000 downloads at the time of writing).

Required Skills: Good programming skills (Java)

Coordinator:

- Samuel Welten: swelten@tik.ee.ethz.ch, Office ETZ G61.4