Fakultät für Design und Künste
Facoltà di Design e Arti
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Research Cluster: Trans-Form – exploring design, art and social practices for political and eco-social transitions | Timespan: 2011-13

Semantic User Interface for exploratory search and navigation in huge repositories of information entities (SEMUI)

This research project is based on the Semantic Media Browser (SMB), a user interface concept for navigation within huge amounts of interrelated content entities (like movies, images, news, etc.)

Team

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It is a visual tool that provides orientational overview to users when navigating the exuberant sea of information and enables a fluent user experience. Opposed to other user interfaces for exploratory search and discovery it is both intuitive and powerful.

Its simplicity makes it apt to leisure-oriented applications like browsing news on a tablet device or looking for movies with an internet-enabled and interactive TV set. Technically the SMB is a combination of a user interface with a visualization that serves as a map of actual search results and a logical-mathematical apparatus, which is computing the mapping of interrelated content entities.

The aim of this project is on one hand to elaborate the computational, logical and mathematical foundations in order to develop a generic model of the mentioned apparatus. On the other hand we want to evaluate the practical qualities of the concept. Therefore we will build a prototypical application, which can be tested in use.

The project is a collaboration between the Faculty for Design and Art and the Faculty of Computer Science, involving theories, methodologies, and technologies from both sides.
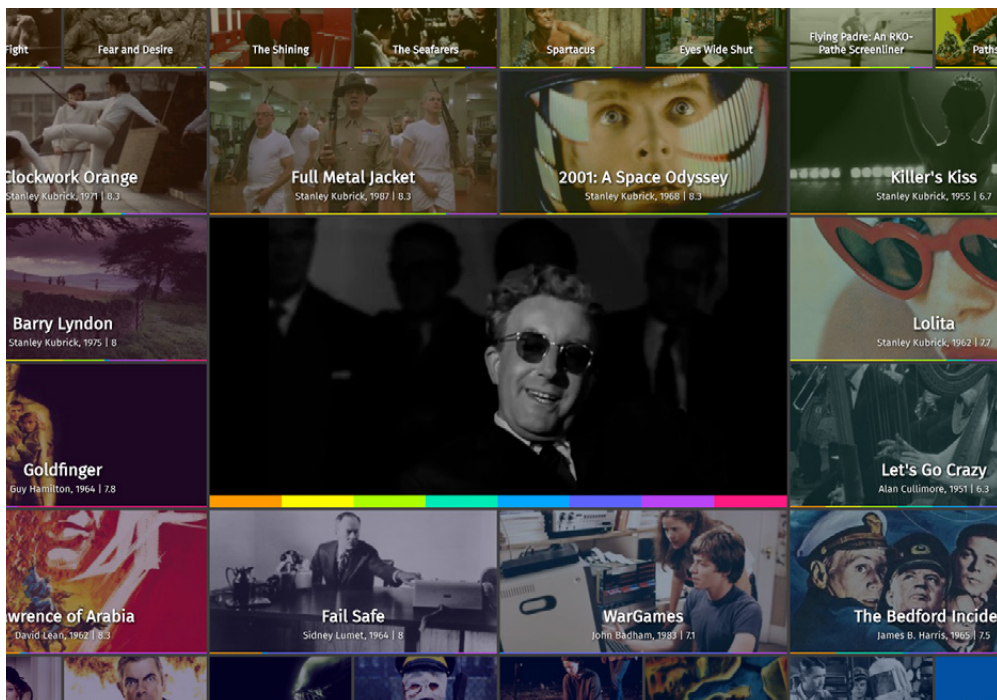

Figure 1