CloudMonster: Support Flexible Browsing and Searching with Personal Music Collections

Projektarbeit - Abschlussvortrag

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Outline

- Independent User Study
- Idea behind CloudMonster
- User Interface
- Initial Views
- Magnet-mode
- Color-coding schemes
- User Study
Independent User Survey

Criteria actually used

- Lyrics
- Comment
- Most often played
- Last played
- Date added
- Genre
- Year
- Cover
- Track number
- Song title
- Album
- Artist

Frequency of mentioned times

Composition of playlist
Organization
Independent User Study

Criteria wished to use

- Last skipped
- Instrument
- Tempo
- BPM
- Gender
- Cover
- Year
- Genre

Frequency of mentioned times

Composition of playlist
Organization
Idea behind CloudMonster

- Visualization of an entire music collection
- Similarity-based searching
- Simple playlist generation
- Basic functionalities for browsing and searching/filtering
- New searching functionality based on selectable attributes
User Interface

- Overview
- Text searching
- Saved playlist
- Saved criteria
- Genre histogram
- "Cover"-button
- Initial views
- Reset button
- Color schemes
- Criteria list
- Standard song list

Diagram showing interface components labeled A to K with detailed explanations.
Initial Views

- Genre-based view
- Popularity-based view
- Similarity-based view
Magnet-mode

- BPM
- Duration
- Gender
- Genre
- Instrument
- Year
Visual assistance

Color-coding schemes

- Artist
- Gender
- Genre
- Popularity
- View

Cover artwork

- Mouse-hovering
- „Always show cover“-Button
User Study

General information

- 12 participants
- Gender: 5 male - 7 female
- Average age: 24
- 58% own more than 5000 songs

Settings and procedure

- Pre-questionnaire
- Free play around
- Conduct 8 tasks
- Post-questionnaire
User Study

Usefulness of initial views

- Similarity
- Popularity
- Genre

Average Score

Usefulness of colour schemes

- Year
- Artist
- Gender
- Popularity
- Genre

Average score
User Study

Implications

- Positive feedback
- All participants completed the tasks successfully
- Additional criteria: mood, language
- Magnet mode: interesting, intuitive
- Interaction consistency:
  Integrate all criteria attributes as colour schemes and vice versa

Paper was accepted as a short paper in INTERACT2009.

Thank you for your attention!
Any questions?