



1000-films project

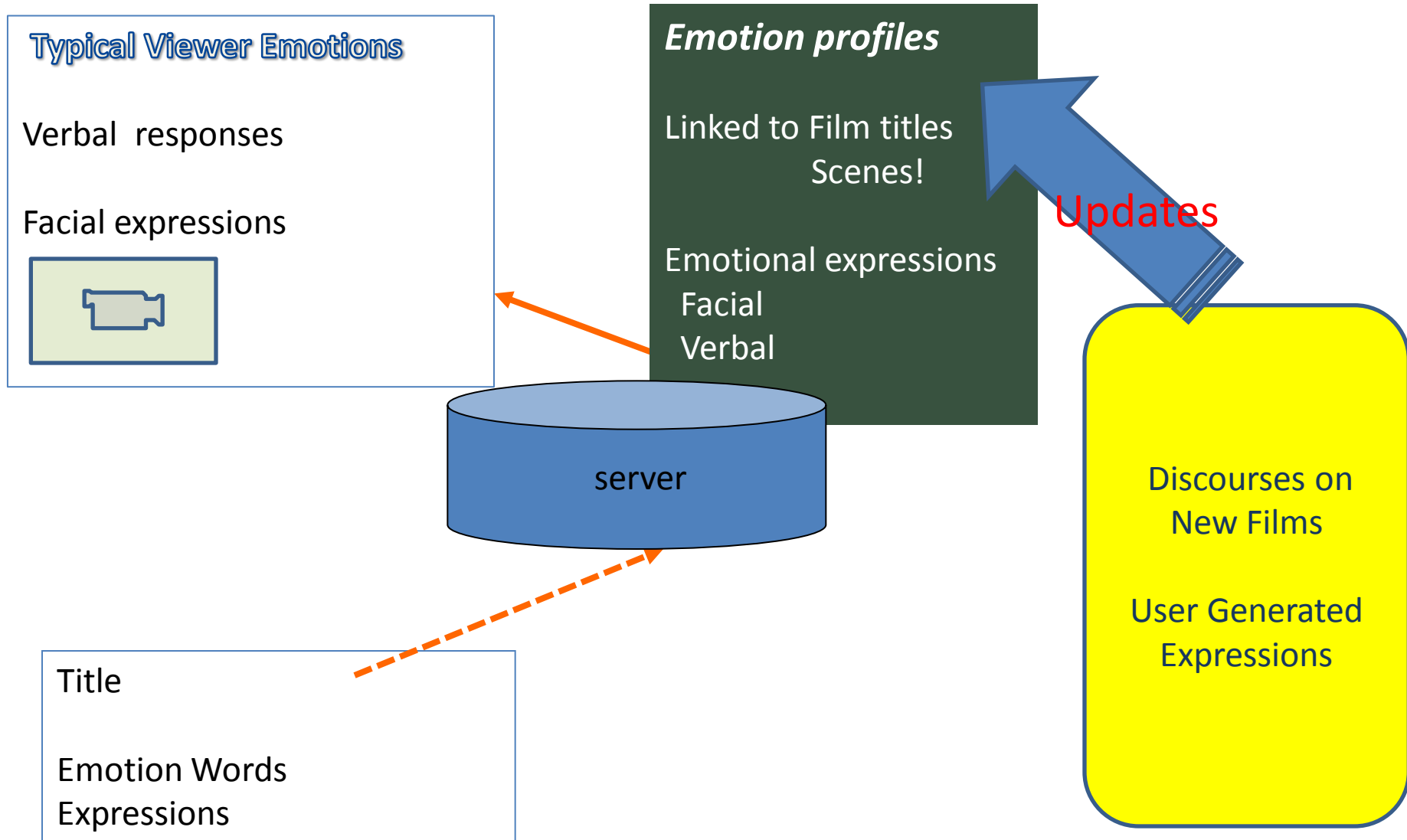
Ed Tan & Marten den Uyl

Bui Minh Thong

Tim den Uyl

Hanneke Koster

Towards a Learning Film Emotion Profile System...



Data collection

- Select movie titles from IMDB of the interested genres with
 - ratings over 6.5
 - many reviews
- User Reviews for each movie are crawled and stored into a database

Crawling Tool

MovieCrawler

MOVIE CRAWLER

Application config

Mode: Write text file Write Database

From file: movie id movie name

Movie's name file: (C:\name.bt)

Movie's ID file: (C:\id.bt)

Output directory: (C:\Data\)

Log directory: (C:\Logs\)

SQL Server Authentication

Server name:

Database:

Account:

Password:

Crawler Process

Crawl

Min threads: Concurrency limit:

Max threads: Total items:

Message:

```
graph LR; Created[Created] --> Queued[Queued]; Created --> Scheduled[Scheduled]; Queued --> Scheduled; Scheduled --> Running[Running]; Running --> Failing[Failing]; Running --> Completed[Completed]; Failing --> Completed;
```

Annotation tool

- 3-level annotation
 - Level 1: Basic emotions with grades
 - Level 2: extended annotation
 - Level 3: more fine-grained annotation
- Demos

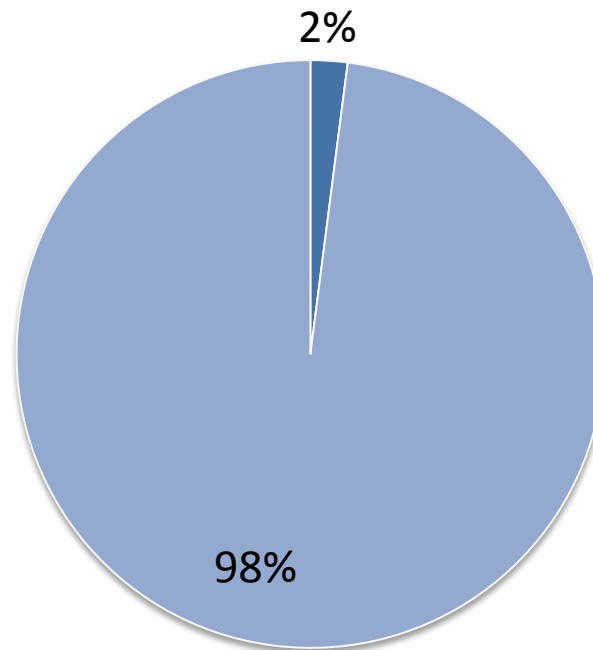
Facial expressions experiment

- Selection of 7 films based on various criteria (IMdB rating, genre, year, length etc.)
- 44 participants (1 removed)
- 6 participants per film
- 3 participants per session
- A questionnaire was completed after watching the film

Facial expressions results from FaceReader

LMS all PP

■ emotion (>0.4) f = 10324 ■ no emotion f = 497835



Postfilm Questionnaire

- 31 emotions selected from literature on emotions
- 7 Point Likert Scale (0-6)
- Experiencing certain emotions while watching the film:
 - 0 = not at all
 - 3 = somewhat
 - 6 = extremely

Results Questionnaire

- American History X (Drama): anger, sadness, interest, disgust, empathy, suspense, sympathy, aversion, pity, contempt and alarm
- The Bourne Identity (Action): interest
- Earth (Nature Documentary): no scores above 4
- Little Miss Sunshine (Comedy): happy, surprise, interest, pleasure, sympathy, relaxed, enthusiasm and amusement

Results Questionnaire

- Saw (Horror): interest and suspense
- Se7en (Thriller): fear, surprise, interest, disgust, empathy, suspense, aversion, pity, contempt, disbelief and alarm
- The Notebook (Romance): happy, interest, pleasure, empathy, sympathy, relaxed, amusement, relief and compassion

Text

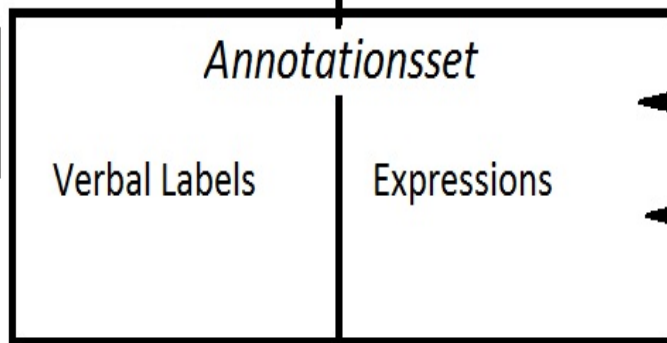
Image

Film Reviews

Emotion annotation tool

Viewer facial expressions

Self report emotion measures



FaceReader

