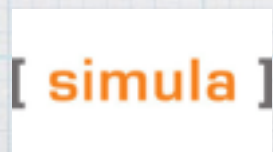


Right in flight?

A dataset for exploring the automatic prediction of movies suitable for a watching situation



M. Riegler, M. Larson, C. Spampinato, P. Halvorsen, M. Lux,
J. Markussen, K. Pogorelov, C. Griwodz and H. K. Stensland



**Lock It, Fill It,
Call It, Find It,
View It, Code It,
Jam - Unlock It**

**We had an idea about intent for
NOSSDAY 2015**

but what next?

**Make a task for
MediaEval...**

**Wait... What is this
MediaEval?**

What most of you might think...



What I thought...



What my girlfriend thinks (and Google apparently)...



MediaEval = Benchmark



MediaEval Benchmark

MediaEval Benchmarking Initiative for Multimedia Evaluation

The "multi" in multimedia: speech, audio, visual content, tags, users, context

MediaEval 2015

MediaEval 2015 Workshop

The MediaEval 2015 Workshop took place in Wurzen, Germany, on 14–15 September 2015 as a satellite event of [Interspeech 2015](#). The workshop brought together task participants to present and discuss their findings, and prepare for future work. A list of the tasks offered in MediaEval 2015 is below. Workshop materials and media are available online:

- The Working Notes Proceedings of the MediaEval 2015 Benchmark is available at: <http://ceur-ws.org/Vol-1436>
- [MediaEval 2015 Workshop Program](#) and [MediaEval 2015 Program Notes](#)
- For pictures, check out [MediaEval on Flickr](#).



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- MediaEval 2016
- MediaEval 2015**

QUESST

Person Discovery in TV

C@merata

Affect and Movies

Emotion in Music

Diverse Images

Placing

Verification (New!)

Viewer Context (New!)

DroneProtect (New!)

Event Sync

Search and Anchoring

- MediaEval 2014
- MediaEval 2013
- MediaEval 2012
- MediaEval 2011
- MediaEval 2010
- VideoCLEF 2009
- VideoCLEF 2008

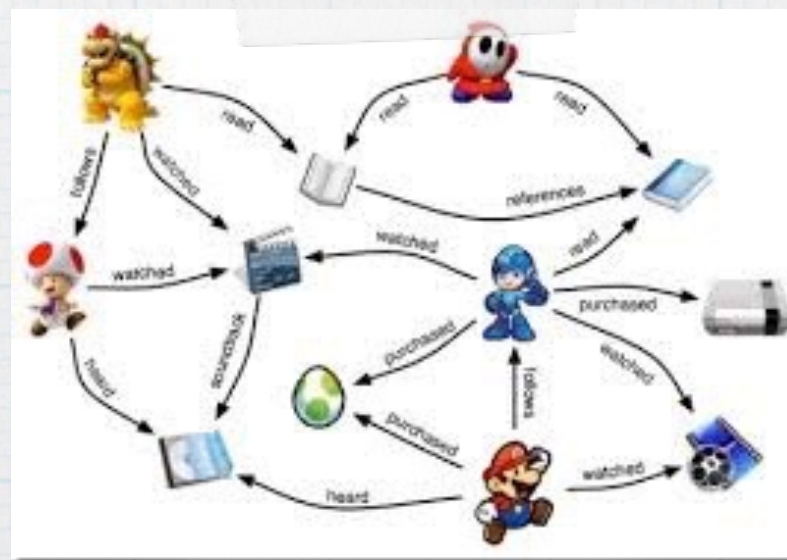
Make an interesting task...

lets...

add -> planes

give -> situation

context -> recommender systems



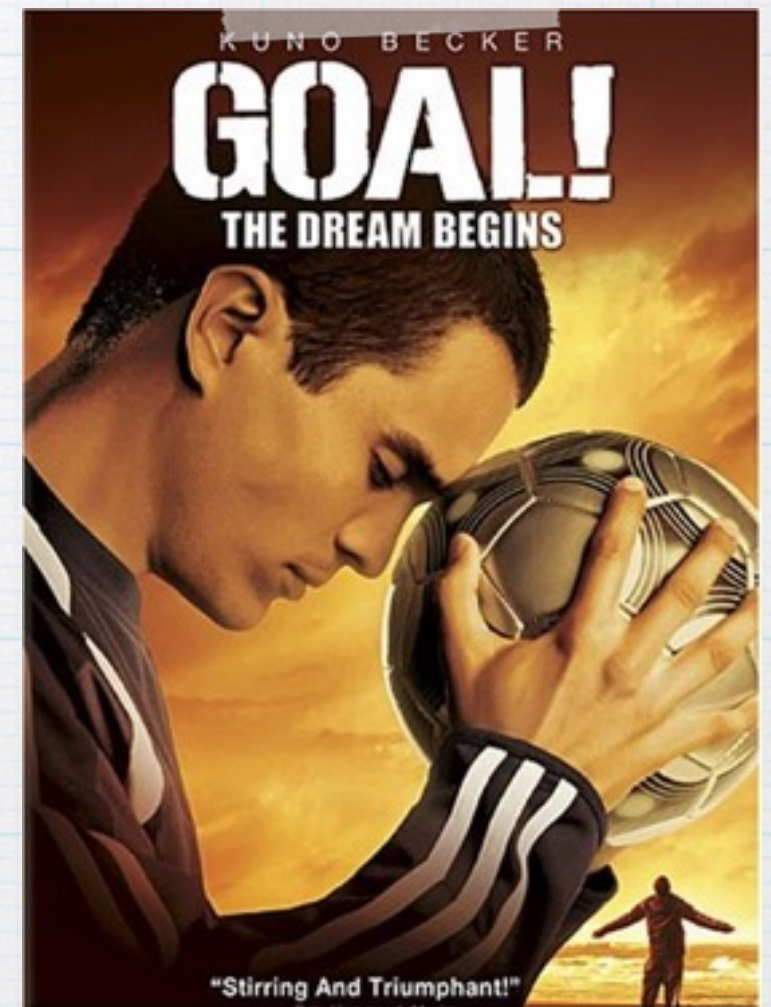
We ended up with: Context of Experience

Recommending Videos Suiting a Watching Situation



Goals of the task

- * Explore suitability of video content
- * Watched in a certain situation
- * In this case airplanes
 - * small screens, distractions...
- * Classify in “good” or “bad” to be watched on an airplane



Video

<https://www.youtube.com/watch?v=TxC30V9dBEO>

Runs (tasks)

- * Use all information available
- * Content (visual, audio...)
- * Metadata (ratings, comments...)
- * More...



After the task...

...we had a dataset...

Dataset

- * Movies collected from KLM over 3 month
- * Crowdsourced user opinions
 - * Only Workers that have experience
 - * Ranking of videos to get consent



Dataset details

- * Around 300 movies
- * Split into test and train set (30/70)
- * Metadata (names, ratings...)
- * Audio features
- * Visual features
- * Links to videos



First experiments

Used Data	Precision	Recall	F1-score
Metadata	0,581	0,6	0,583
User ratings	0,371	0,609	0,461
Visual information	0,447	0,476	0,458
Meta without user ratings	0,524	0,516	0,519

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Interesting insights

- * Right not equal Right Inflight:
 - * Aggregated user ratings (from IMDb, Metacritic, etc.) do not serve to account for people's preferences on inflight movies
- * Some genres are preferred, but also do not completely solve the problem



Current usage of the dataset

- * Again a MediaEval task
- * A TU Delft lab course
- * Part of a ICPR 2016 proposal for a joint-challenge workshop



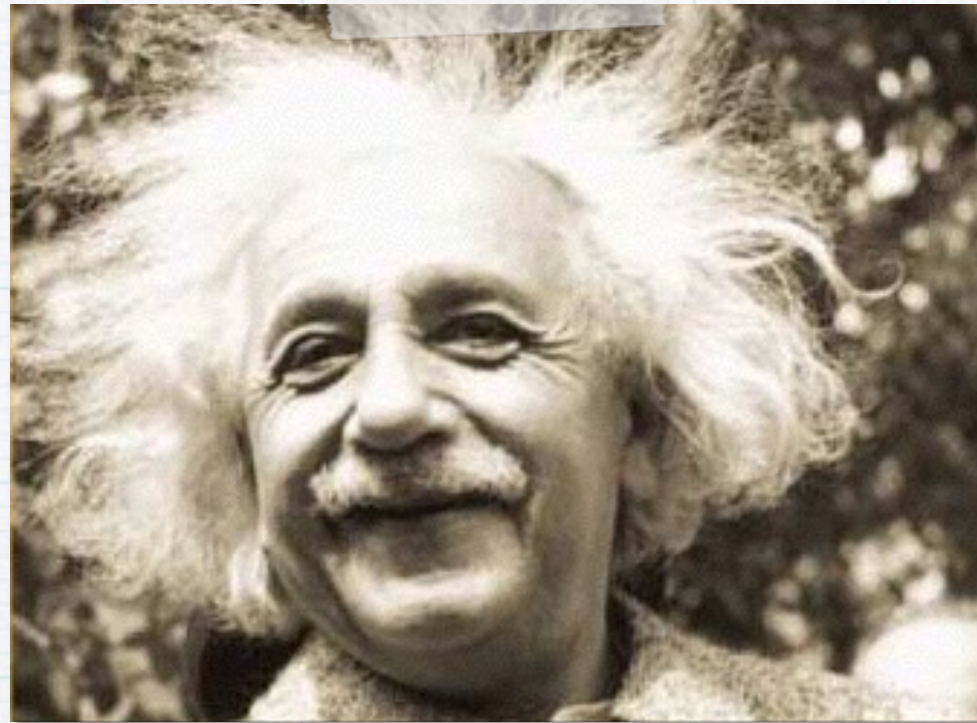
Planned improvements

- * Get more data
- * Add more features
- * Collect data from people that are actually flying (consultants, etc.)



Thank you!





“The world as we have created it is a process of our thinking. It cannot be changed without changing our thinking.”

–Albert Einstein