

Experiencing Events Through User-Generated Media



André Fialho | Lynda Hardman













What are Events?

Events are observable occurrences grouping



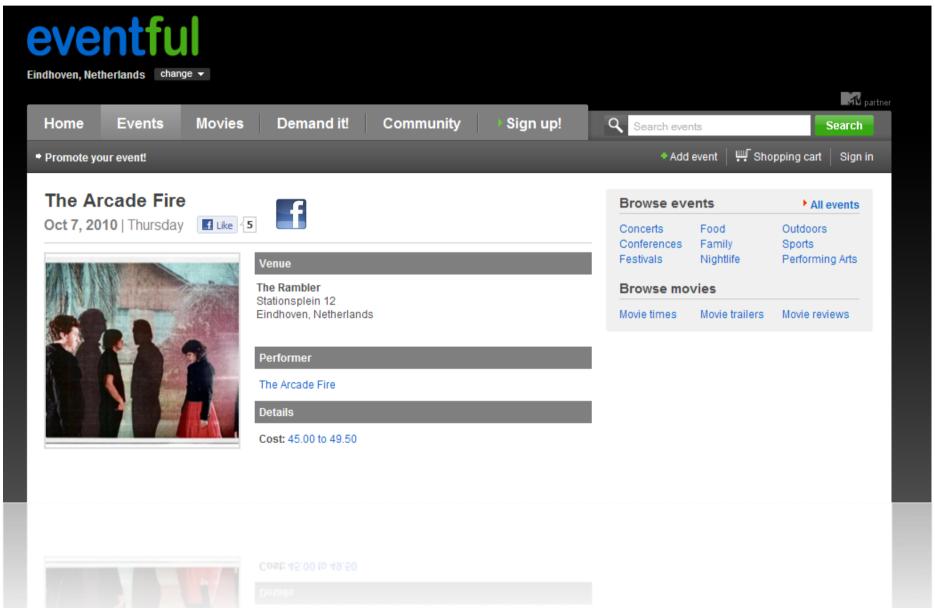
Experiences documented by Media





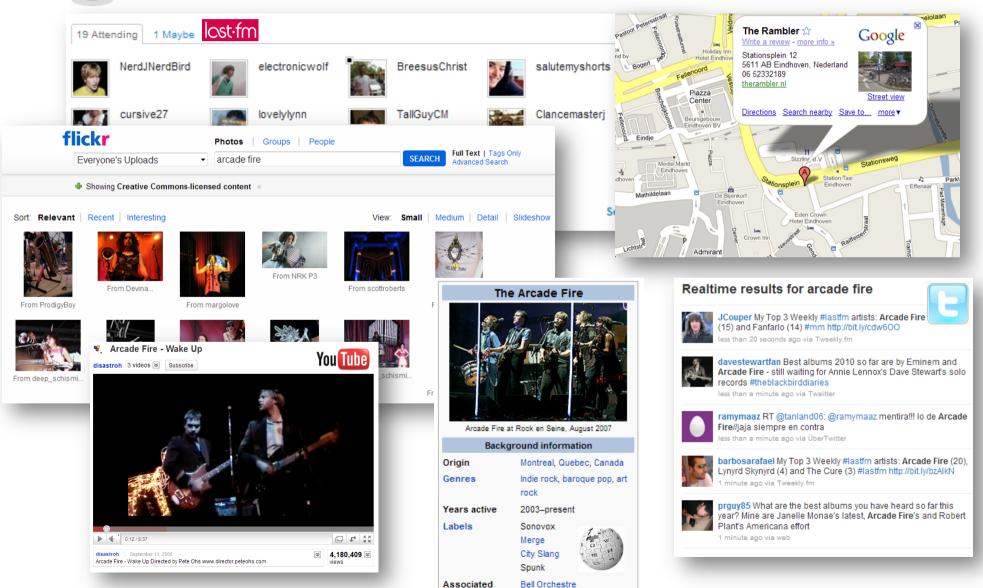


Searching for an event





Searching for an event



acts

Owen Pallett Wild Light^[1]



There's a lot of information out there...













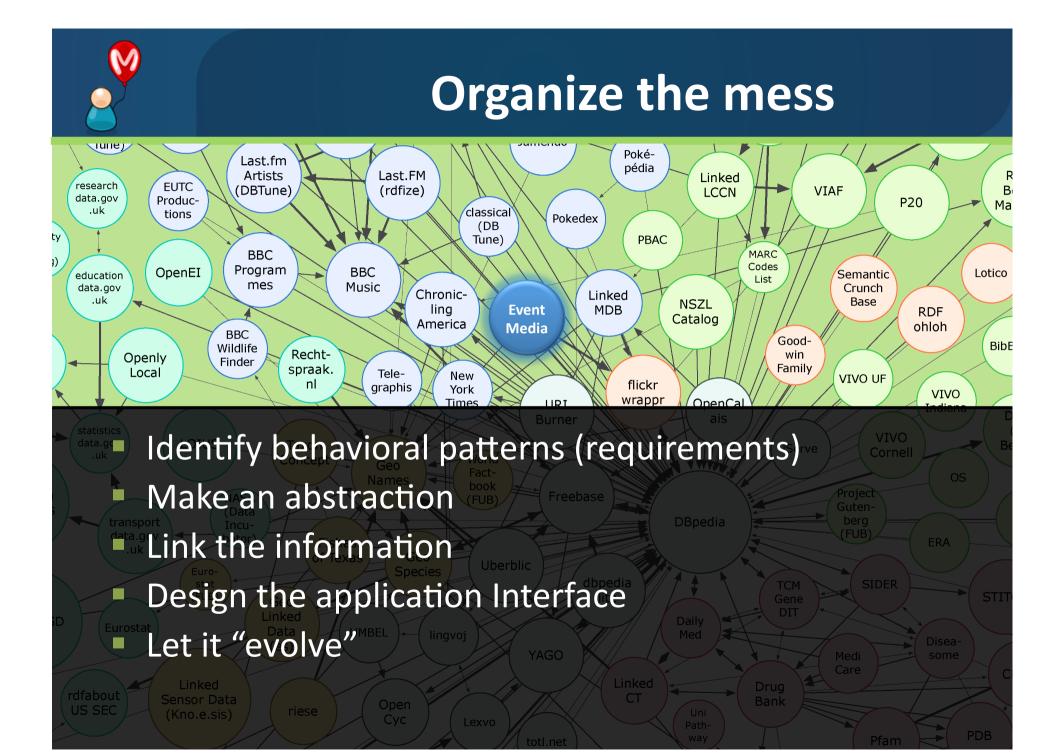














1st Collect some opinions...

Online Survey (n=28) + 2 group discussions (n=35)



Past Experiences (Memorable Events)

- Discovery
- Decision making
- Registering & sharing
- Meaningful relationships









Existing Technologies

- Opinions
- Interests
- Suggestions
- Benefits/drawbacks

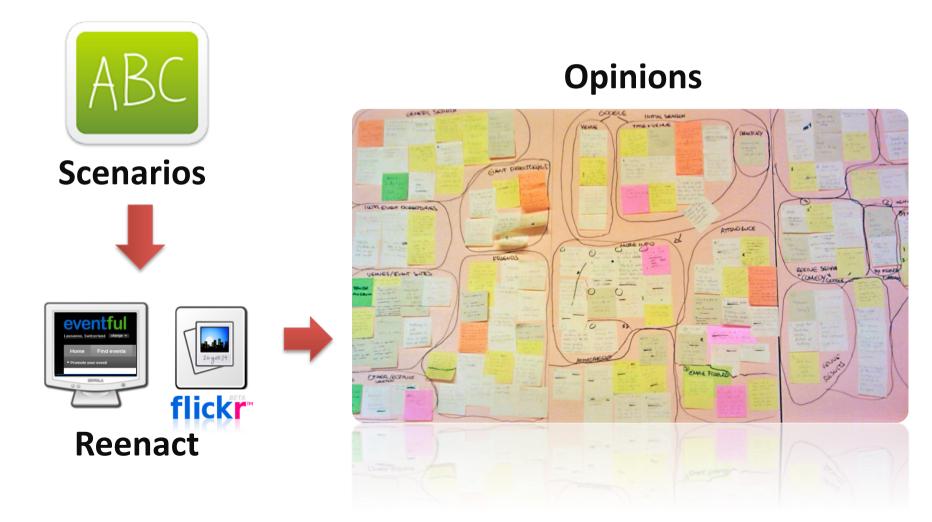
Scenarios Requirements 1st Design Concept

What's on this evening?
Designing User Support for
Event-based Annotation and
Exploration of Media - EVENTS
2010, Athens, Greece



2nd Look into "real" behaviors...

Scenario based study (2 sessions, n=15)





Behavioral Patterns

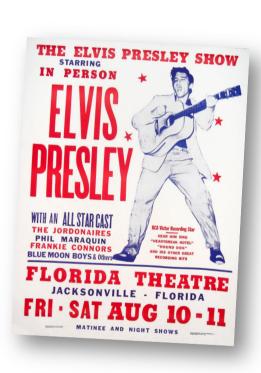
Discovery 🦱

- **Invitations** and **recommendations**
- Rely on traditional media
- **Social networks** (facebook students)
- **Previously attended** events or venues

Decision Making ?



- Who's Joining?
- Where, When, How Much? (constraints)
- What? (e.g. type, performer, topic)
- Subjective factors (fun, atmosphere)





Behavioral Patterns



Registering and Sharing

- Communicating their experience
- Pictures and short videos (for sharing)
- Media directories and social networks

Meaningful Relationships

- Similar categories, attributes and content
- User attendance (similar interests, behaviors)
- Repeated events (e.g. annual festivals)













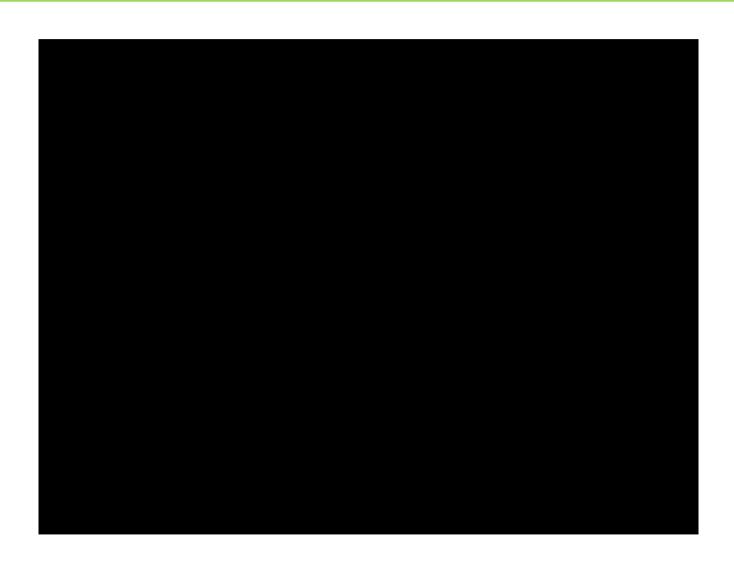






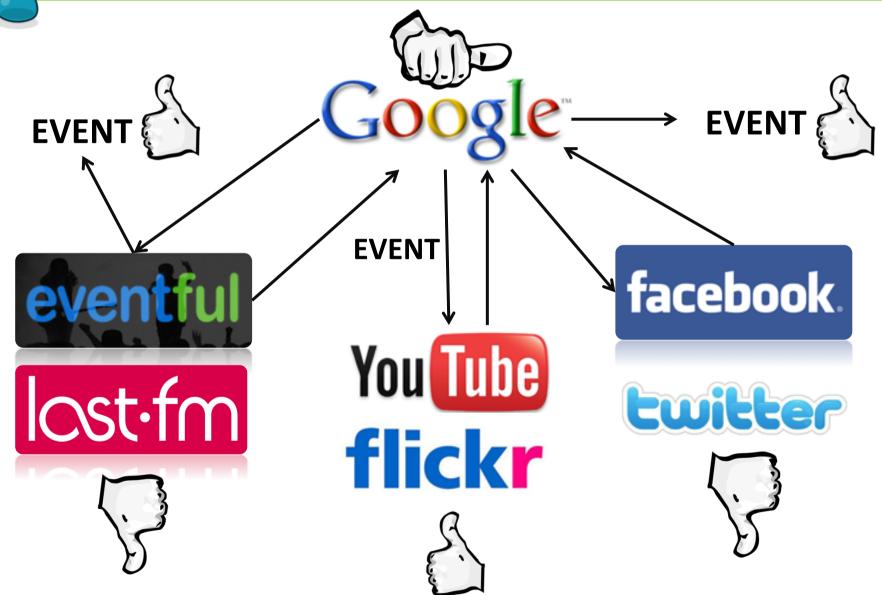


Live karaoke in Mauerpark, Berlin





Behavioral Patterns





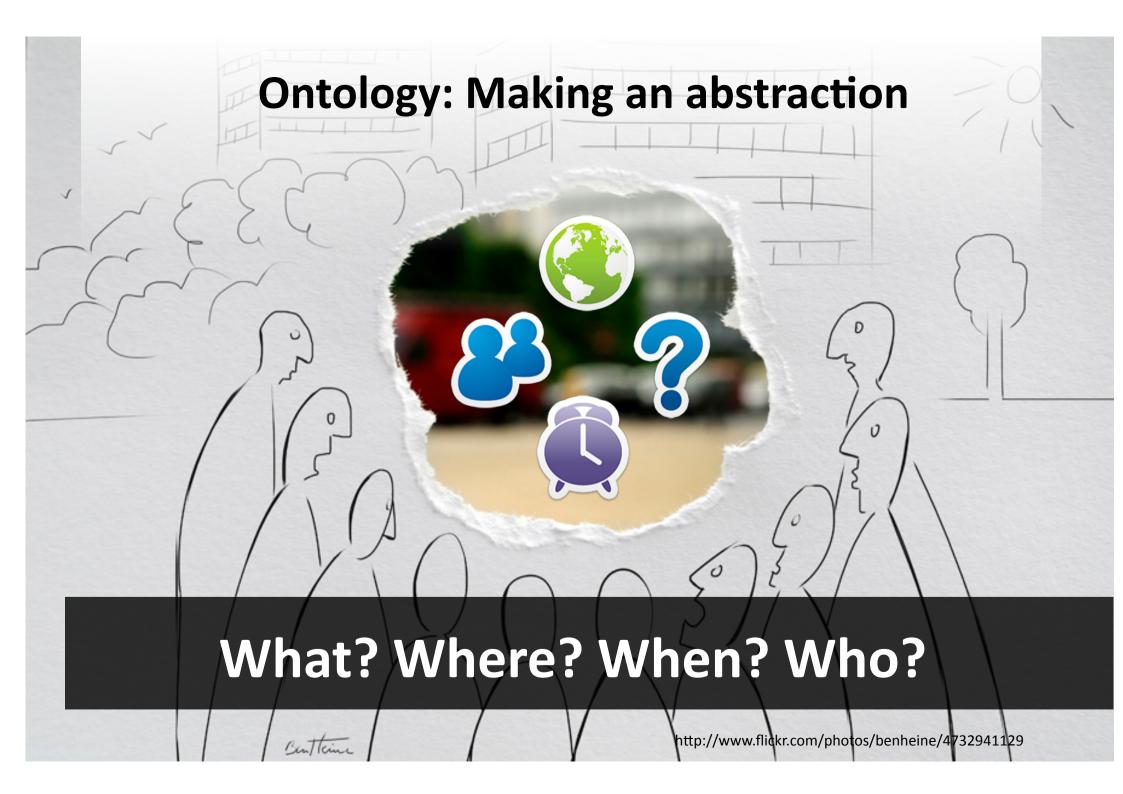
Existing Services







- Single source with overview (?)
- Allows opportunistic/serendipitous discovery
- Limited exploration/browsing features
- Information overload (cluttered, difficult)
- Information incompleteness (coverage, decision)

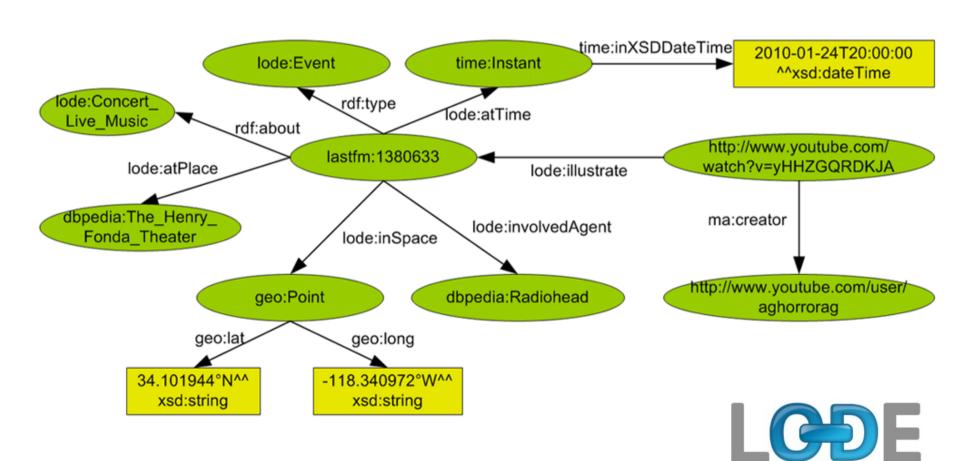




Representing Events with LODE

Linking Open Descriptions of Events

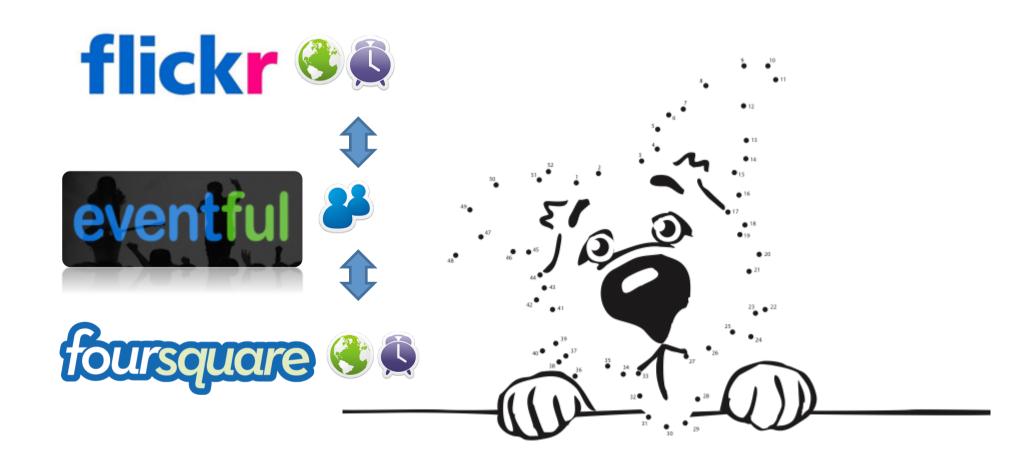
Radiohead Haiti Relief Concert





Reasoning & annotation (metadata)

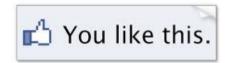
Time, Location and Attendance





Collaborative Filtering

- Disambiguate and propagate information about attendance
- Identify Interests and provide Recommendations



Customers Who Bought This Item Also Bought



Semantic Web for the Working Ontologist: Effecti... by Dean Allemang

★本本会会 (2) £30.39

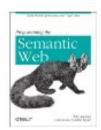


Semantic Web
Programming by Mike
Dean
£20.14



<u>Semantic Web For</u> <u>Dummies</u> by Jeffrey T. Pollock

全体介介 (1) £16.99



<u>Programming the</u> <u>Semantic Web</u> by Toby Segaran

★★★★☆ (1) £15.53



Linking the Data





Extracting and linking data



Arcade Fire





285 attending | 54 shouts | Added by redredhead

Monday 29 November 2010

Philipshalle

Siegburger Straße 15 40591 Düsseldorf Germany

Show on Map

Web: www.philipshalle.de/



Upload poster



Tag your photos on Flickr

Showcase your pics for this event by tagging them on flickr.com with this machine tag:

lastfm:event=1598387

flickr





Machine tags "lastfm:events"



1.7 million images over 108.000 events



Random sampling filtered by the tag "music"







How much data is there?

	Event	Agent	Location	Media	User
Last.fm	57,258	50,150	16,471	1,425,318	18,542
Upcoming	13,114	0	7,330	347,959	4,518
Eventful	37,647	6,543	14,576	0	0
Total	108,019	56,693	38,377	1,773,277	23,060

Event Title	Venue	City	Date	Photos	Video
Primavera Sound 2010	Parc del Forum	Barcelona	2010-05-28/30	2458	1730
Coachella Valley Music and Arts Festival	Empire Polo Grounds	Indio	2008-04-25/27	2311	434
Lollapalooza Festival	Grant Park	Chicago	2009-08-07/09	2220	1100
SXSW Music 2008	Convention Center	Austin	2008-03-12/16	2153	1890
Sziget Festival	Obudai-Sziget	Budapest	2008-08-12/18	2072	4620

1,248,021 geo-tagged photos by propagating information from events!



More on Interlinking

- Linking Agents with
 - Freebase, Dbpedia, MusicBrainz
- Linking Venues with
 - Geonames, Dbpedia, Foursquare (via Uberblic)
- Linking Events with
 - Last.fm, Upcoming, Eventful
- Linking Categories with
 - Facebook, Eventful, Upcoming, Zevents, LinkedIn, Eventbrite,
 TicketMaster
- Linking Users with
 - Social Graph API

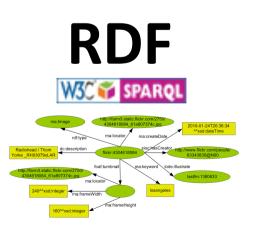




The Back-end

- RDF Repository on a web server with:
 - Sesame2 SPARQL endpoint with a distributed query engine.
 - A RESTful API that provides different methods and JSON representations of resources available in the dataset.





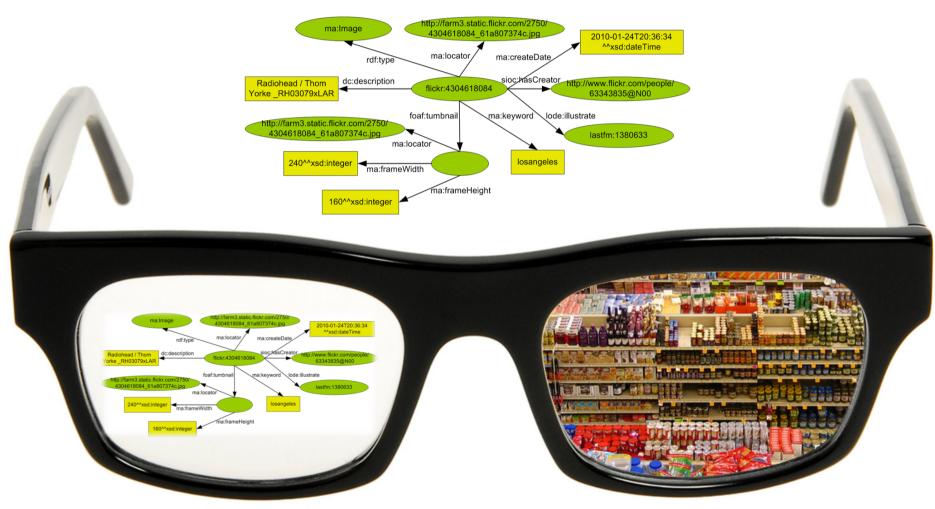






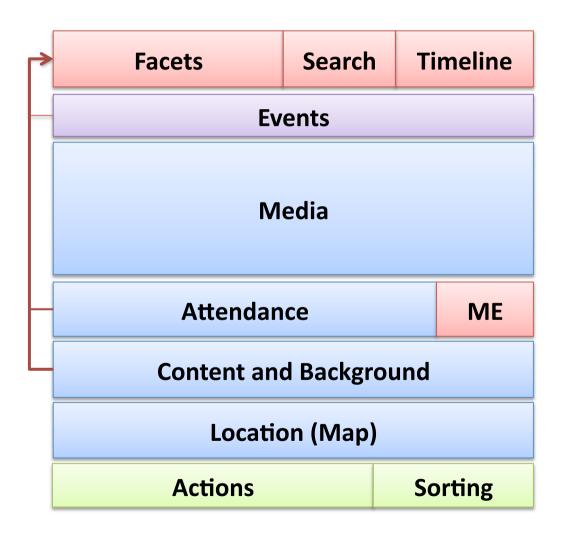


Translating the Ontology





Interface elements





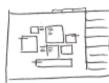
Interfaces



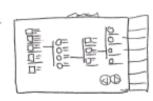


- Perspectives
 - What: Event/Media Centric
 - Who: Social Network Visualization
 - When: Time centric
 - Where: Location Centric

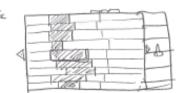




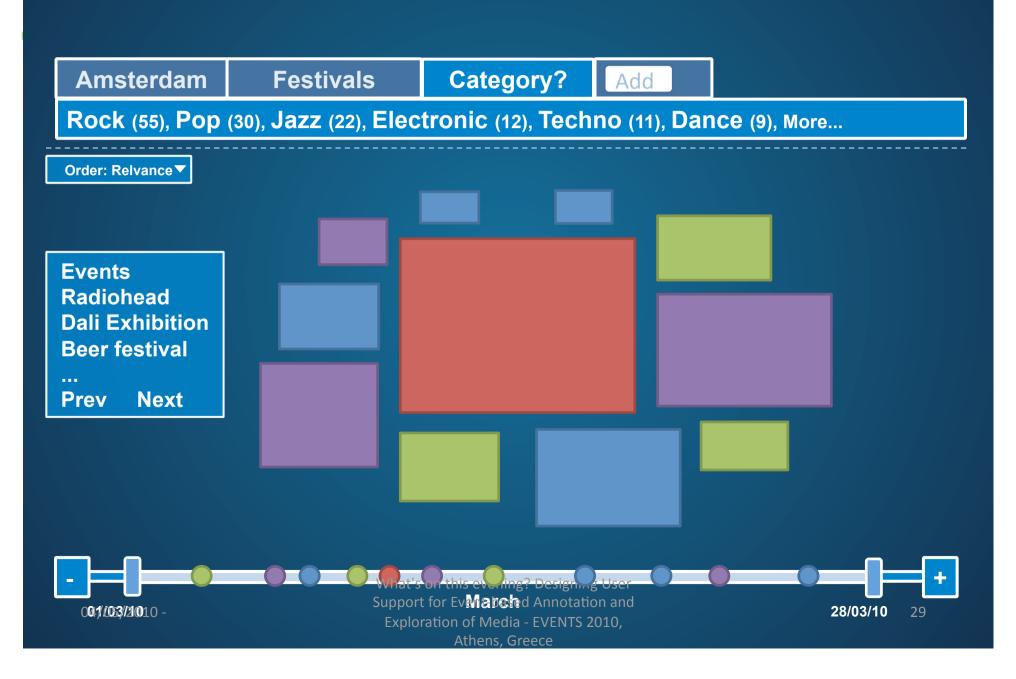
Relativ -contri



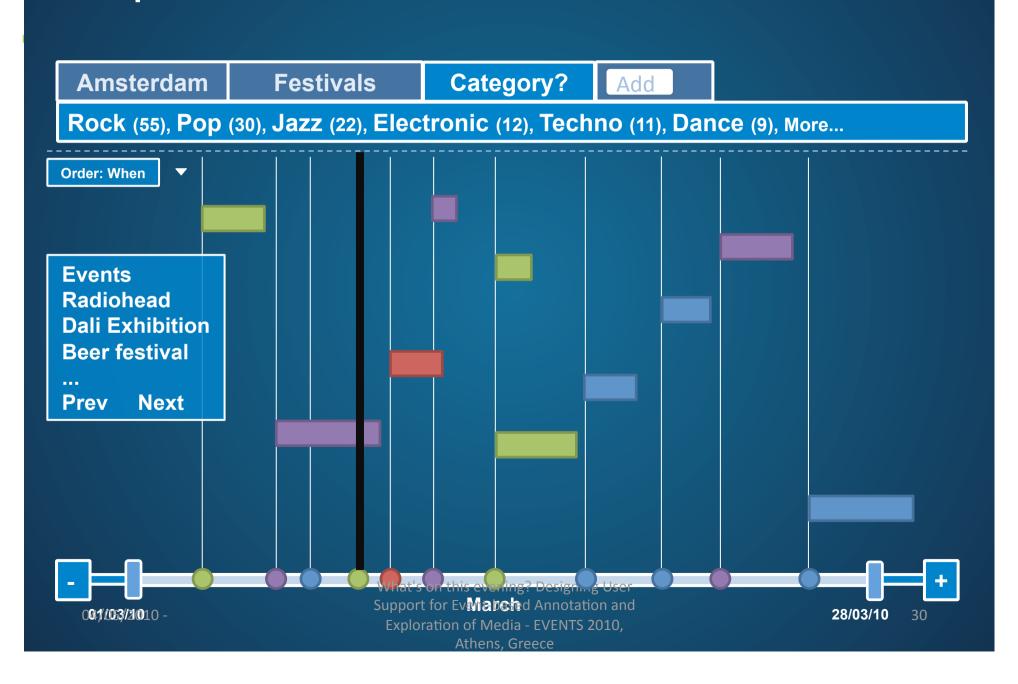
Time-



Perspective: WHAT?



Perspective: WHEN?



Perspective: WHERE?

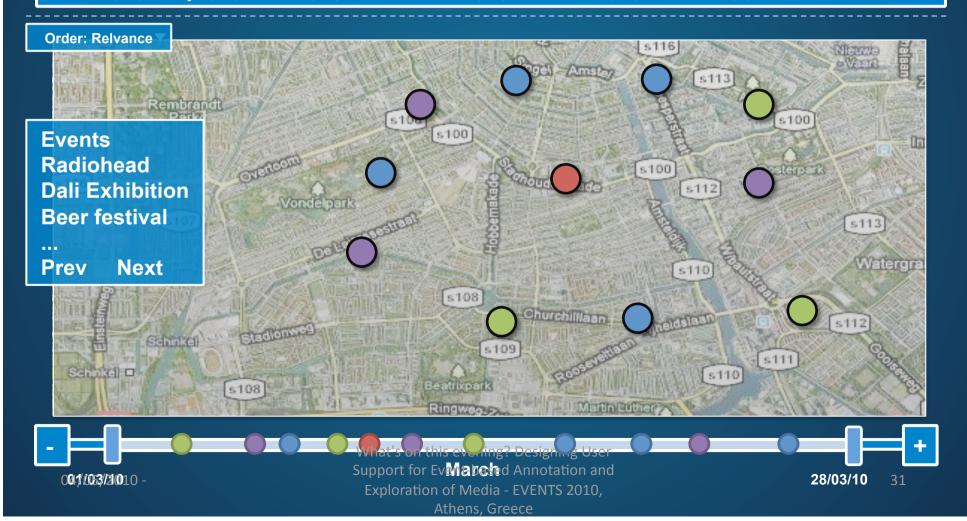
Amsterdam

Festivals

Category?

Add

Rock (55), Pop (30), Jazz (22), Electronic (12), Techno (11), Dance (9), More...

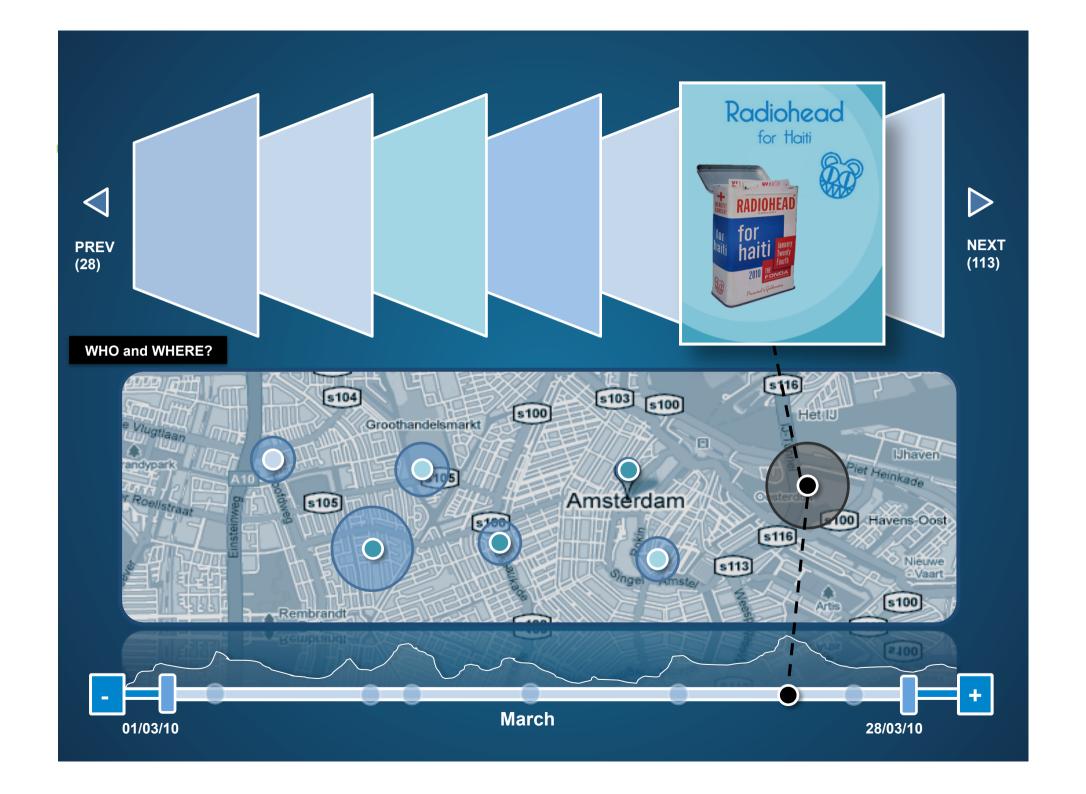


Perspective: WHO?



Top Interests

Jazz Concerts, Jazz House, Amstel Neighborhood, Luis Armstrong



- Faceted browsing (recognition and the pokay-yoke)
- Semantic Autocompletion

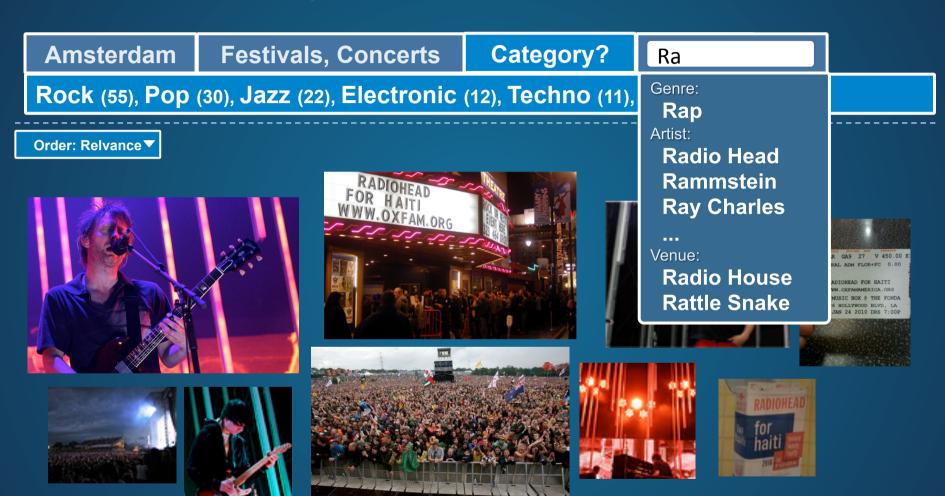






Image analysis for summarization task (representative images)



I will go

Maybe I'll go

Share

Invite

Radiohead Haiti Relief 24/01

<u>Music Box Fonda Theatre</u>, Los Angeles, CA

http://radiohead.com/tour

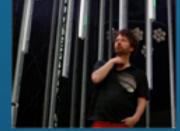
America's relief efforts for victims of the Haiti earthquake. Oxfam America is an international relief and development organization that creates lasting solutions to proverty, hunger and injustice.













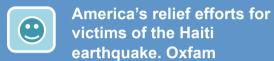






Comments & Ratings







lasting solutions to proverty, hunger and injustice.

America's relief efforts for victims of the Haiti earthquake. Oxfam





Other (250)



s104

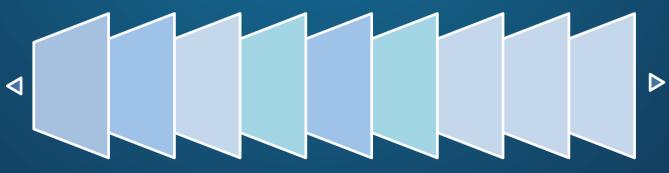
Groothandelsmarkt

s105

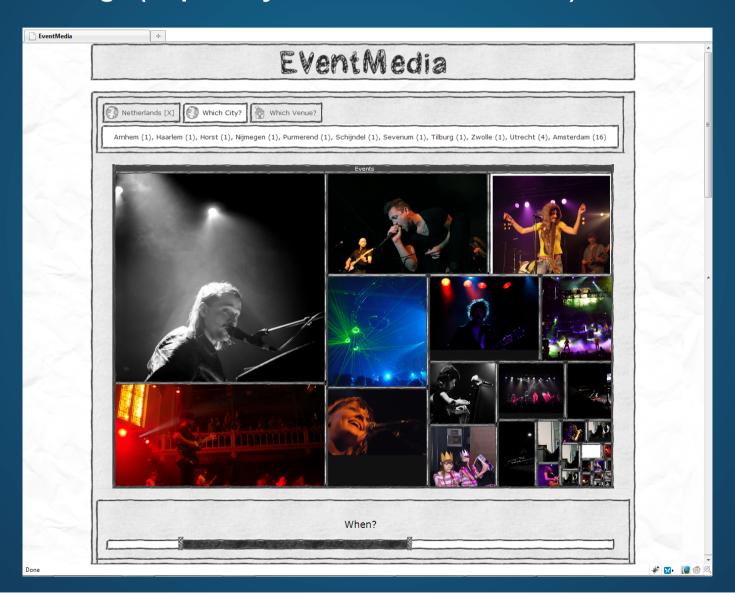
s100



(2)



- Ordering (time, interest, popularity)
- Surrogate (Poster, most viewed or most depicted)
- Size of Image (Popularity: Number of attendants)







where

what

when

who



EventMedia is an Integrative Research Project (IRP) within the PetaMedia Network of Excellence.



- We look into patterns to build something that will allow Identifying other patterns
- The approach allows the application to "evolve"
- It's Open open is good!
- UX can help semantics, semantics can help UX



References

- Raphaël Troncy, André Fialho, Lynda Hardman, Carsten Saathoff, Experiencing Events through User-Generated Media, COLD 2010 – ISWC, 9th International Semantic Web Conference, Shanghai, China
- Raphaël Troncy, Bartosz Malocha, André Fialho, Linking Events with Media -Triplification Challenge, I-SEMANTICS 2010, Graz, Austria
- André Fialho, Raphaël Troncy, Lynda Hardman, Carsten Saathoff & Ansgar Scherp. What's on this evening?
 Designing User Support for Event-based Annotation and Exploration of Media. 1st International
 Workshop "EVENTS 2010 Recognising and tracking events on the Web and in real life" at SETN 2010,
 Athens, Greece, May 2010. (slides)
- Ryan Shaw, Raphaël Troncy & Lynda Hardman. LODE: Linking Open Descriptions of Events. 4th Asian Semantic Web Conference (ASWC'2009). Shanghai, China, December 2009. (slides)
- Ansgar Scherp, Thomas Franz, Carsten Saathoff & Steffen Staab. F—a model of events based on the foundational ontology dolce+DnS ultralight. Proceedings of the fifth international conference on Knowledge capture (K-CAP), California, USA 2009.
- Ansgar Scherp & Carsten Saathoff. Unlocking the Semantics of Multimedia Presentations in the Web with the Multimedia Metadata Ontology. International World Wide Web Conference, Raleigh, NC, USA, April, 2010. (slides)

Thank you!



UI Ideas? (what, where, when, who)