

Diversity (in Media)

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Living Web 2009 (Invited Talk)

The First International Workshop on Living Web: Making Web Diversity a true asset; collocated with the 8th International Semantic Web Conference ISWC-2009

Supported by the FP7 FET European Project: Living Knowledge - Facts, Opinion and Bias in Time

How it started...

World Wide Web

The WorldWideWeb (W3) is a wide-area [hypermedia](#) information retrieval initiative aiming to give universal access to a large universe of documents.

Everything there is online about W3 is linked directly or indirectly to this document, including an [executive summary](#) of the project, [Mailing lists](#) , [Policy](#) , November's [W3 news](#) , [Frequently Asked Questions](#) .

[What's out there?](#)

Pointers to the world's online information, [subjects](#) , [W3 servers](#) , etc.

[Help](#)

on the browser you are using

[Software Products](#)

A list of W3 project components and their current state. (e.g. [Line Mode](#) ,X11 [Viola](#) , [NeXTStep](#) , [Servers](#) , [Tools](#) , [Mail robot](#) , [Library](#))

[Technical](#)

Details of protocols, formats, program internals etc

[Bibliography](#)

Paper documentation on W3 and references.

[People](#)

A list of some people involved in the project.

[History](#)

A summary of the history of the project.

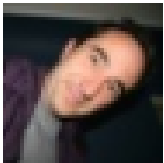
[How can I help ?](#)

If you would like to support the web..

[Getting code](#)

Getting the code by [anonymous FTP](#) , etc.

How it looks today...



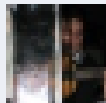
Peter Bailey Bing ships Bing Twitter aka Social Search - fantastic to see us shaking things up, being agile and shipping product, not press releases. Delighted my team - especially Krishna - could help out.

Bing

Source: www.bing.com

 Yesterday at 04:48 · [Comment](#) · [Unlike](#) · [Share](#)

 You and [4 others](#) like this.



Arjen P. De Vries I like the document + evidence organisation of the interface! Almost like expert finding at TREC-ENT :-)

Yesterday at 08:26 · [Delete](#)

Write a comment...

CWI

Diversity

- Diversity ← Data Creator



Jane Winans Maybe I'll become a vegetarian!



Jane just found out her Death's Fortune in **Mobsters 2**.

Date: December 21 of 2029 at 9:30 am.
Cause: Impaled by a meat hook

M2 Yesterday at 15:40 via **Mobsters 2: Vendetta** · [Comment](#) · [Like](#) · [[Find out when you'll die!](#)]

RECENT ACTIVITY

M2 Jane just completed the Provide Muscle for a Loan Shark mission in **Mobsters 2!** · [Comment](#) · [Like](#) · [[Play Mobsters 2!](#)]

Jane and Michele Purington are now friends. · [Comment](#) · [Like](#)

Jane and Laurie Cummins are now friends. · [Comment](#) · [Like](#)



Jane Winans Like the looks of these... hope they help



Jane sent a **Set of Glock 17 Pistols** to **Jane Smith** and **Justin LaRose** using **Mobsters 2: Vendetta Gifts**.

M2 Yesterday at 06:17 via **Mobsters 2: Vendetta Gifts** · [Comment](#) · [Like](#) · [Send Mobsters 2: Vendetta Gifts to me \(Jane\)](#)



Jane Winans And miles to go before I sleep..

Yesterday at 04:56 · [Comment](#) · [Like](#)

[View all 4 comments](#)

Jan Carnathan Dec. 21
Yesterday at 20:46

Jane Winans I see. That explains a lot right there. lol
Yesterday at 21:17

[Write a comment...](#)



Jane Winans HA... that is cool! Love Calvin!



Jane completed the quiz "What Calvin alter ego are you?" with the result **Tracer Bullet**.

The detective created by Calvin's fantasy. With no friend but your gun, you're just way too cool..

Yesterday at 04:25 via **Quiz Monster** · [Comment](#) · [Like](#) · [Take this quiz!](#)

Green Turquoise likes this.

[Write a comment...](#)



Arjen P. De Vries Nice SIGIR paper from Jun, looking beyond the Probabilistic Ranking Principle.

Portfolio Theory of Information Retrieval

Source: web4.cs.ucl.ac.uk

Portfolio effect of Document Ranking. As a general rule of thumb, when we present search results for a query, documents should ...

👍 11 hours ago · [Comment](#) · [Like](#) · [Share](#)

👍 Ingo Frommholz and Mark Sanderson like this.



Jun Wang I am very pleased your guys like the idea! I intend to increase the awareness of using variance and higher moments for IR modelling. hopefully more comes later

11 hours ago · [Delete](#)



Fernando Diaz Gordon, Michael D. and Lenk, Peter (1992): When Is the Probability Ranking Principle Suboptimal?. In JASIST - Journal of the American Society for Information Science and Technology, 43 (1) pp. 1-14.

11 hours ago · [Delete](#)



Jun Wang the "Suboptimal" paper has a fair argument on PRP and has been the starting point of my paper.

11 hours ago · [Delete](#)



Mark Sanderson There was also a keynote talk at SIGIR 1999 by an economist have you seen that? Looking back, one can see that talk was a call for diversity in ranking (most of us ignored that talk).

11 hours ago · [Delete](#)



Jun Wang A very good point. In fact, the early attack comes from Cooper himself, although diversity is not implicitly mentioned. see his student Stirling's PhD thesis dated 1977, "The Effect of Document Ranking on Retrieval System Performance: A Search for an Optimal Ranking Rule." [http://www.eric.ed.gov/ERICWebPortal/custom/portlets/recordDetails/...](http://www.eric.ed.gov/ERICWebPortal/custom/portlets/recordDetails/) [Read more](#)

11 hours ago · [Delete](#)



Mark Sanderson Also, didn't the Robertson PRP paper explore reasons why it might not hold? I think I've heard Steve say that he discussed such possibilities in the original paper.

11 hours ago · [Delete](#)



Jun Wang True, although the PRP was first mentioned and examined critically by Cooper in his unpublished technical report - Robertson did mention this in his PRP paper. Unfortunately, the technical report is not online - I just got a hard copy from Cooper recently. It is always interesting to look at the history of IR.

11 hours ago · [Delete](#)



Mark Sanderson Just to digress, it sounds to me as if the Cooper tech report should be added to the SIGIR digital library that Donna Harman is organizing.

11 hours ago · [Delete](#)



Jun Wang Let me ask Cooper first to get his content...

11 hours ago · [Delete](#)



Fernando Diaz Jun: You may want to cite this Lenk paper in particular (you don't) since large sections of your paper seem to be founded on it.

7 hours ago · [Delete](#)



Jun Wang Check the first sentence of related work section :-). it was not the same paper but same idea from the same authors. thanks anyway.

6 hours ago · [Delete](#)

Re: Living Web – CFP

- **Diversity underlying content creation process**

+

- **Success of Social Web applications**

=

- **Difficult to get a balanced view on a given subject using current search technology**

User-defined relevance criteria

- Many studies (from 1966 on) suggest relevance criteria beyond topicality
- Evaluation of relevance is closely tied to the requester's situation and goals
 - experience, cognitive state and perceptions
- Empirical study: Schamber 1991
 - How do users judge weather information services?
 - 811 mentions of different criteria, clustered into 10 criteria

Schamber 1991

- **Accuracy**
- **Currency**
- **Specificity (detail, concreteness)**
- **Geographic proximity**
- **Reliability or reputation**
- **Accessibility**
- **Verifiability**
- **Clarity of presentation**
- **Dynamism (ability to interact)**
- **Affective response**

Barry 1994

- **Finds similar criteria “mentioned by users evaluating the information within documents as it related to the users' information need situations”**
- **User factors like experience, background, knowledge level, beliefs, personal preferences**
- **Evaluations of individual documents take place within the larger context of the information environment**

(continued: Barry 1994)

- **The user's ability to judge the reputation of the author depends upon being presented with information about the author**
- **Explore possible connections among relevance criteria and specific portions of document representations**

User-defined relevance criteria

- Savolainen and Kari, 2006 *in web search*
 - Predictive judgement (on link)
 - Accepting: specificity, topicality and familiarity
 - Rejecting: insufficient accessibility and lack of specificity
 - Evaluative judgement (on page)
 - Accepting: specificity and topicality
 - Rejecting: lack of specificity, insufficient accessibility

User-defined relevance criteria

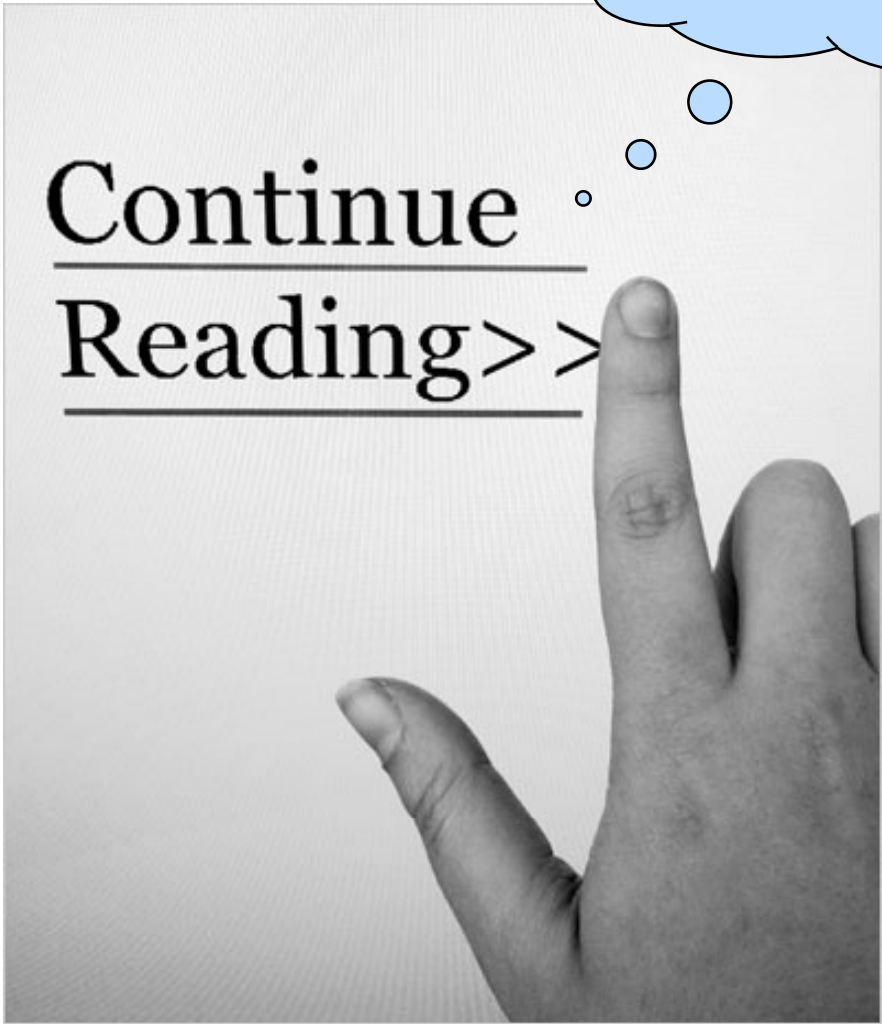
- *in image/video search*
Choi and Rasmussen, 2001
 - Topicality
 - Time frame
 - Accuracy
- Yang and Marchionini, 2004
 - Topicality
 - Genre
 - Duration
 - Cinematography
 - Motion

Re: Living Web – CFP

- ~ user-defined relevance criteria
- However... taking success into account:
 - Technology that more systematically looks into diversity, helps identifying bias and different viewpoints
- Naïve users could accept only results from their own biased view – may make them happy, but not us!
 - A paternalistic retrieval system?!
 - Is Living Web technology usable?!

Diversity

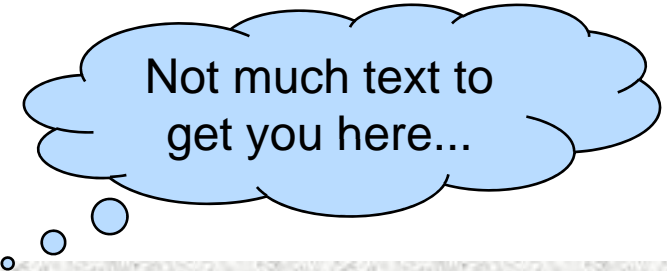
- Diversity ← Data Creator
- Diversity ← Data Consumer
- Social Media:
 - Consumer becomes a co-creator
 - Data 'consumption' traces



Anchor tekst:
"continue reading"



A fan's hyves page:
Kytteman's HipHop Orchestra:
www.kytteman.com

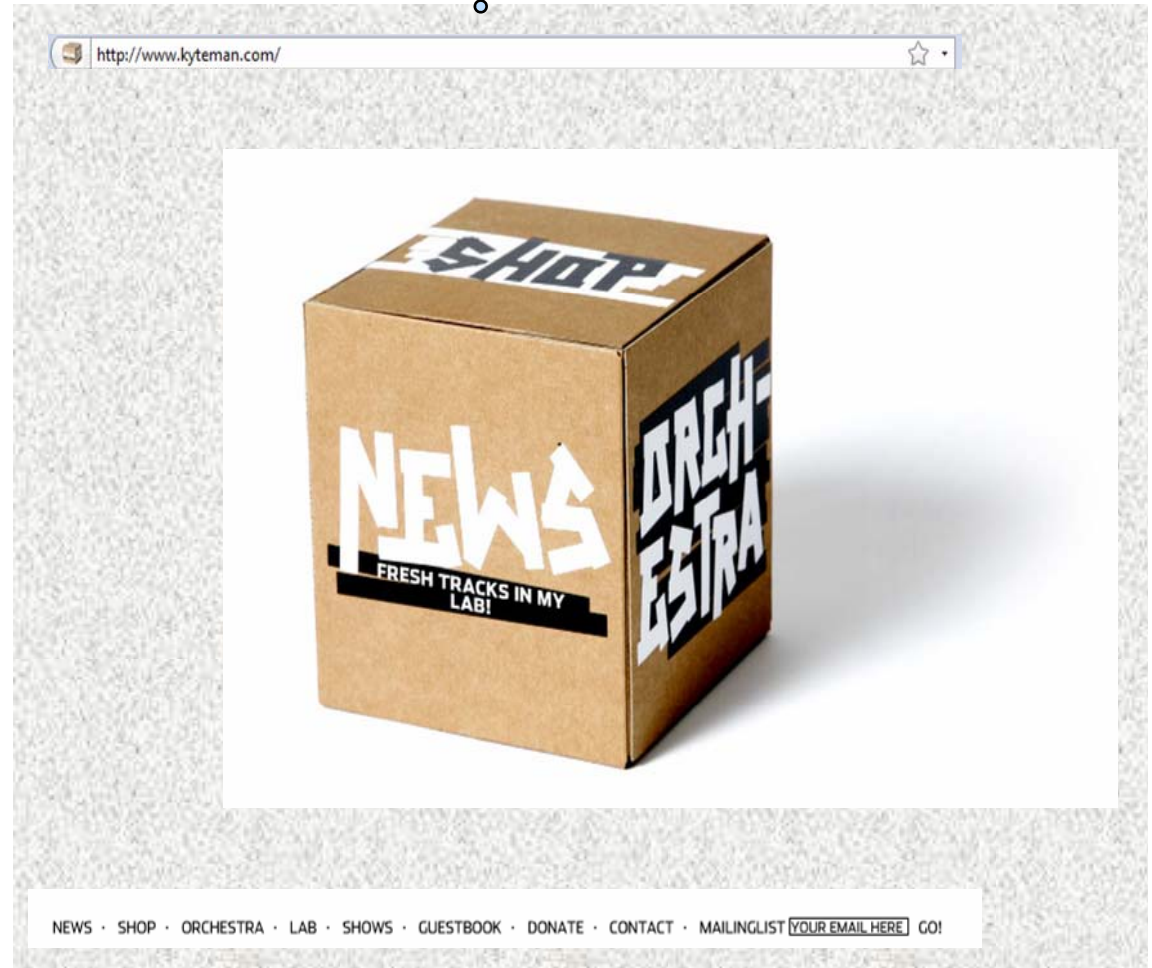


Blog Rockin' Beats:
The 21-year-old [Kytteman](#)
(trumpet player, composer and
Producer Colin Benders),
has worked for 3 years on
his debute:
[the Hermit sessions](#).

Kluun.nl:
[De site van Kytteman](#)

Jazzenzo:
... a performance by the popular
[Kytteman's Hiphop Orkest](#)

Ticket Sales Luxor theatre:
May 22nd - Kytteman's hiphop Orchestra - www.kytteman.com



CWI



Diversity

- **Social Media:**
 - Consumer becomes a co-creator
 - Data 'consumption' traces
- **In essence: many new sources to play the role of anchor text!**

#w2s?



Marc Davis Tim Berners-Lee basically said AOL is to WWW as Facebook is to interoperable social graphs #w2s.

8 hours ago · [Comment](#) · [Like](#)

 4 people like this.

Write a comment...



Marc Davis Tim Berners-Lee talking about how the WWW was originally focused on enabling collaboration and shared linking and annotation #w2s.

8 hours ago · [Comment](#) · [Like](#)



Bing Twitter - Mozilla Firefox

File Edit View History Bookmarks Tools Help


Gmail - I... Gmail - ... Gmail - ... TOC Arjen - ... Facebook... W24 Bing... #w2s

Web Images Videos Shopping News Maps More MSN Hotmail Sign in United States Preferences


bing #w2s

ALL RESULTS TWITTER BETA

Most recent Tweets about #w2s » Pause

 **yago1:** "Only 20-25% of humanity actually uses the Web at all." Tim Berners-Lee #w2s (via RT @rww) · 17 minutes ago RT

 **plord:** RT @rww: RT @benphoster Time Berners-Lee HTML 5 is something to be excited for... will cause web pages to turn into widgets #w2s · 17 minutes ago RT


 **Isdelahoz:** RT @austinhill: "Collecting data is less important than connecting people"- Sean Parker #w2s (via @jhagel) · 37 minutes ago RT


 **ChristophP:** RT @johnbattelle: Loved Danny's breakdown of the journo panel, which was a total highlight of #w2s <http://bit.ly/2VcyBR> (dagggle.com) · 38 minutes ago RT

[See more Tweets about #w2s](#)

Top links shared in Tweets about #w2s


[ReadWriteWeb Interview With Tim Berners-Lee, Part 1: Linked Data](http://readwriteweb.com/archives/interview_with_tim_berners-lee_part_1.php)
readwriteweb.com/archives/interview_with_tim_berners-lee_part_1.php


 **paulgeraghty:** #TimBL "I don't see why SPARQL servers shouldn't provide CSV files" <http://is.gd/4x9TX> (readwriteweb.com) vi @RWW #od #localgovweb #opendata · 14 minutes ago RT

 **rww:** In case you missed it in July: ReadWriteWeb Interview With Tim Berners-Lee <http://bit.ly/CztLU> (readwriteweb.com) (lots of great context in that) #w2s · 8 hours ago RT

[See more Tweets about readwriteweb.com/archives/interview_with_tim_berners-lee_par...](#)


[Brian Ahier - Health IT & Healthcare Reform: Web 2.0 Summit: Marissa Ma...](http://ahier.blogspot.com/2009/10/web-20-summit-marissa-mayer.html)
ahier.blogspot.com/2009/10/web-20-summit-marissa-mayer.html

 **ehealthgr:** RT @Jaikas Watch Marissa Mayer at the Web 2.0 Summit announce Google/ Twitter deal & Google Social Search <http://bit.ly/U0rCK> (blogspot.com) by @ahier · 1 hour ago RT

 **andrewspong:** This creeps me out, for some reason RT @ahier : M. Mayer at the Web 2.0 announcing Google/Twitter deal <http://bit.ly/U0rCK> (blogspot.com) (via @Zorg20) · 1 hour ago RT

[See more Tweets about ahier.blogspot.com/2009/10/web-20-summit-marissa-mayer.html](#)

[WikiAnswers - Tim O Reilly Questions including "Who is Tim O'Reilly"](http://wiki.answers.com/Q/FAQ/7083)
wiki.answers.com/Q/FAQ/7083

 **Hagoleshet:** Which questions on @Answersdotcom can you answer about @timoreilly <http://om.ly/QOBo> (answers.com) & @johnbattelle <http://om.ly/QOBp> #w2s · 1 hour ago RT



#w2s - Mozilla Firefox

File Edit View History Bookmarks Tools Help

mail - I... Gmail - ... Gmail - ... TOC Arjen - ... Facebook... W24 Bing Twi... #w2...

TOPSY

#w2s Search Most tweeted links for #w2s today Retweet

All 671

Month 646

Week 616

Day 240

Hour 4

85 tweets

Live TV from Web 2 Summit here with select sessions starting tues, 10/20 @ approx 4:30 pm Pacific
web2summit.com

“ Watch today's @Web2Summit closing keynote with Tim Berners-Lee *live* starting at about 5pm PDT <http://bit.ly/1Mgj1L> #w2s /sa ” 10 hours ago by [oreillymedia](#)

223 tweets

ReadWriteWeb Interview With Tim Berners-Lee, Part 1: Linked Data
readwriteweb.com

“ In case you missed it in July: ReadWriteWeb Interview With Tim Berners-Lee <http://bit.ly/CztLU> (lots of great context in that) #w2s ” 8 hours ago by [rww](#)

15 tweets

WikiAnswers - Tim O Reilly Questions including "Who is Tim O'Reilly"
answers.com

“ #w2s Over 100 questions on Tim O'Reilly <http://is.gd/4vug1> and John Battelle <http://is.gd/4vug2> in Answers.com. See how many you can answer ” 17 hours ago by [magicsaucemedia](#)

799 tweets

Early Access Release Channels (Chromium Developer Documentation)
chromium.org

“ RT @mtanne: Sergey Brin says we can use Chrome for Mac by going to <http://bit.ly/DUqUc> (expand) pre-beta. #Chrome #w2s ” 11 hours ago by [web2summit](#)

14 tweets

WikiAnswers - John Battelle Questions including "What is one thing John Battelle loves about his wife"
answers.com

“ #w2s Over 100 questions on Tim O'Reilly <http://is.gd/4vug1> and John Battelle <http://is.gd/4vug2> in Answers.com. See how many you can answer ” 17 hours ago by [magicsaucemedia](#)

15 tweets

Web 2.0 Summit Blog » Blog Archive » Web 2.0 Summit Recap - What's Launched
web2summit.com

“ Web 2.0 Summit Recap - What's Launched (and videos of sessions!) <http://bit.ly/39Mbml> From the Web 2.0 Summit blog #w2s ” 15 hours ago by [w2e](#)

203 tweets

the very first web page was nxoc01.cern.ch/hypertext /WWW/TheProject.html see it archived here
w3.org

“ RT @LATimesNystrom:The very 1st website can be found here; <http://j.mp/TIqil> re #w2s via @NataliaW: ” 8 hours ago by [mitchwagner](#)

Top authors today

web2summit web2summit	19 links
moyalynne Moya Watson	17 links
alexiatsothis Alexia Tsotsis	6 links
latimesnystrom Andrew Nystrom @ LAT	7 links
lwaldal Leanne Waldal	10 links
johnbattelle John Battelle	5 links
nicoteferraro Nicole Ferraro	5 links

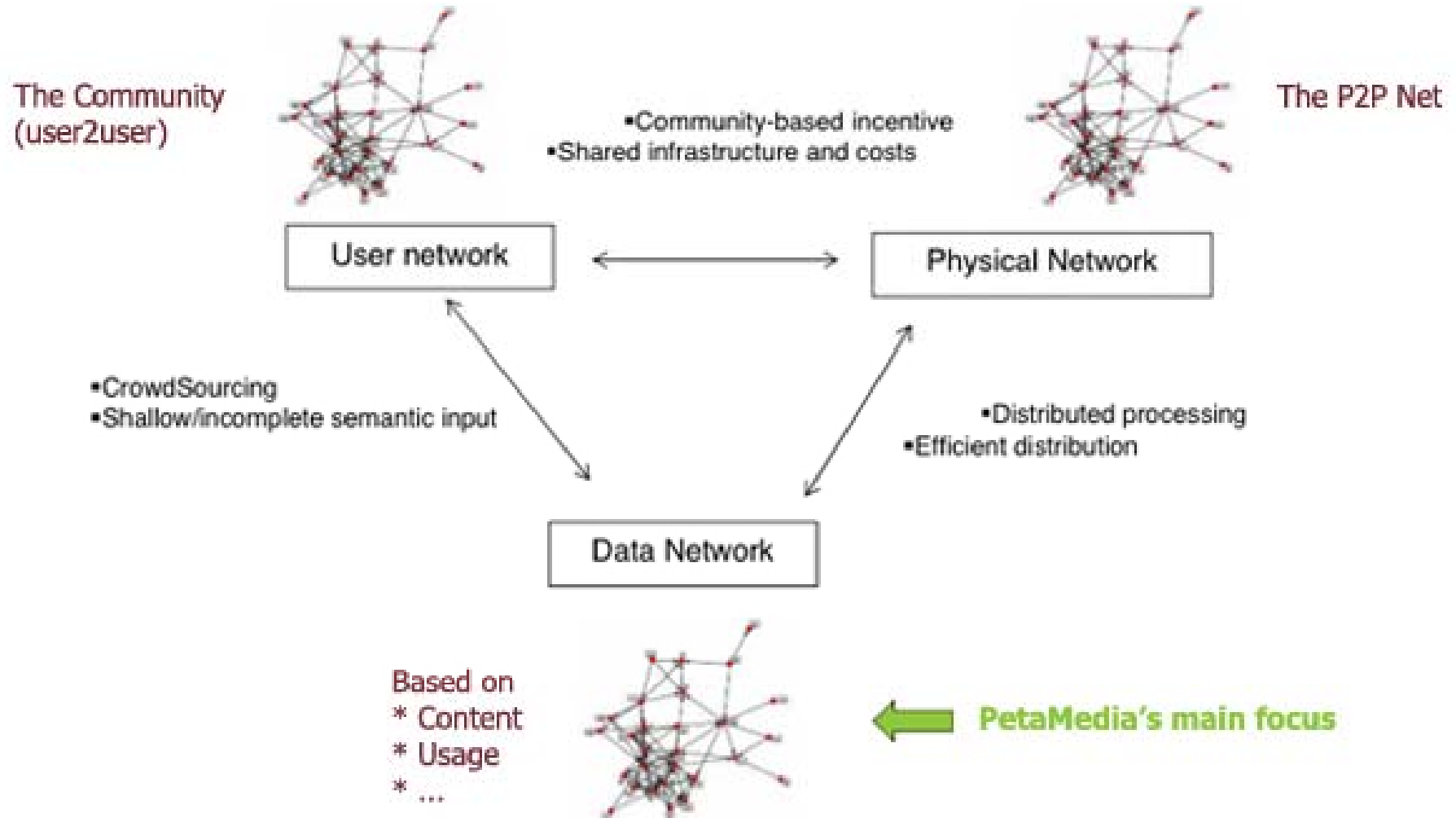
Show more 473

CWI

#w2s!



PetaMedia NoE



Social Video Dataset

- Develop a **common data-set** that is large enough to allow meaningful research, and contains video content *as well as* explicit information generated by a **social network of sufficient density**
- irp5petamedia.pbworks.com

Requirements

- **Availability of video data**
Creative Commons (CC) licenced data only
- **Availability of social data**
Users creating the data should be organized in a social network, and provide feedback about their preferences in relation to the data (comments, ratings, ...)



Blip.tv (25-60% CC)

A screenshot of a Blip.tv video player page. The main video player shows a 3D architectural rendering of a city with a large, ornate building. The video title is "Where: Ludvig Emgard, 'World's Most Realistic 3D City Models?'". Below the video player, there are social media sharing options (Facebook, Twitter, LinkedIn, Email, Print) and a "Share" button. The video is licensed under Creative Commons Attribution-NonCommercial-ShareAlike (CC BY-NC-SA). The page also features a list of "Featured Episodes" and "Random Episodes" on the right side, including "O'Reilly Where 2.0 Conference", "Oscar The Grouch Q TV", "Francisco the Man - 'Lo The Garden Party", "Sexy Limber Yoga Girls DiGITS Show", and "Episode 1: Partners Acting School Academy". At the bottom, there are "Quick Links" for RSS Feed, Channels.com, iTunes Feed, Download, and Tellur.

Metadata/annotations (but... insufficient)

Files and Links

Thumbnail : Right Click > Save
<http://a.images.blip.tv/Where-WhereLudvigE>

Quicktime (.mov) : Right Click > Save
<http://blip.tv/file/get/Where-WhereLudvigE>

Flash Video (.flv) : Right Click > Save
<http://blip.tv/file/get/Where-WhereLudvigE>

Metadata

Date : May 27, 2009 08:23pm

Category : [Technology](#)

Tags : [where20](#), [whereconf](#), [oreilly media](#), [gis](#), [location](#)

License : [Creative Commons Attribution-NonCommercial-NoDerivs 3.0](#)

Quicktime filesize : 53172395 Bytes

Flash filesize : 34575618 Bytes

About this show:

O'Reilly Where 2.0 Conference

Since 2004, the Where 2.0 Conference has been the place where the grassroots and leading edge developers building location aware technology intersect with the businesses and entrepreneurs seeking out location apps, platforms, and hardware to gain a competitive edge. In the O'Reilly conference tradition, Where 2.0 presents leading trends rather than chasing them.

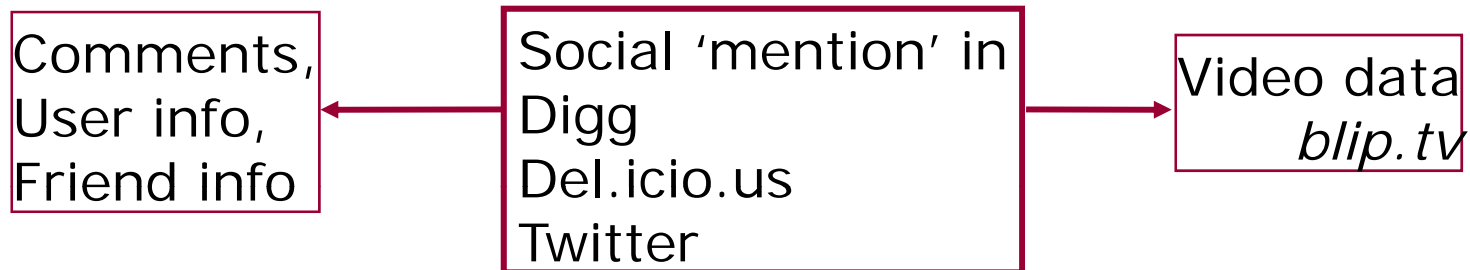
[MORE DETAILS](#)

<p>Details</p> <p>Genre: Technology</p> <p>Language: English</p> <p>Content Rating: TV-UN</p>	<p>Contact</p> <p>Website:</p> <p>E-mail: <i>Not publicly available.</i></p> <p>AOL IM: <i>Not provided.</i></p> <p>Skype: <i>Not provided.</i></p> <p>Y! Messenger: <i>Not provided.</i></p>
---	---

Cast

O'Reilly Where 2.0 Conference hasn't shared any cast information with blip.tv yet.

Extend metadata/annotations



- 1) Join Blip.tv with Del.icio.us and Twitter
- 2) Crawl links to videos and social networks of users creating those links

Up to 4 levels of social network, only 2 levels of metadata (bookmarks/posts/profiles)

Social metadata/annotations

- 14K distinct links to blip.tv (from 22K bookmarks) in TU-Berlin DAI Labor del.icio.us collection (2003-2007)
- 27K links to blip.tv in Topsy

The logo for CWI, consisting of the letters 'CWI' in white on a red, trapezoidal background.

'Guess the blip!'



Lawrence Lessig, on Palin's inexperience - <http://blip.tv/file/1287551> a twelve minute, v
Probably old to most, but it was new to me. Lessig on Palin: <http://blip.tv/file/1287551>
Lawrence Lessig on Palin's experience: <http://blip.tv/file/1287551>
retweeting @kplawver: Lessig's take on Palin's Experience: <http://blip.tv/file/1287551>â€
Wow. Lessig methodically tears it up: <http://blip.tv/file/1287551>
Retweet @Torie: This is amazing. Everyone should watch it. <http://blip.tv/file/1287551>
This is amazing. Everyone should watch it. <http://blip.tv/file/1287551>
Food for thought: An interesting piece called "Sarah Palin's Experience in Just 12 Minute
Wow, go Lessig. <http://blip.tv/file/1287551>
Holy cow. Side by side comparison of Palin's experience vs. all VPs. Worth every second
palin's experience in just 12 minutes. <http://blip.tv/file/1287551>
Link: Palin\'s experience in just 12 minutes <http://tinyurl.com/3j3e2w> This presentation
12 min history lesson on Vice Presidential experiences: <http://blip.tv/file/1287551> very
Is Sarah Palin experienced enough to be Vice President? splendid analysis here: <http://>
todo mundo fala sobre os keynotes do SJ. Mas pra mim o rei do keynote Ã© o larry less
Palin's [lack of] experience summarised in 12 mins: <http://blip.tv/file/1287551>
Sarah Palin's experience in 12 min, incredible presentation by Lessig: <http://blip.tv/file/>
Excellent video by Lessig <http://blip.tv/file/1287551> on the experience of Palin compare
Lessig compares Palin's experience to all other VPs: <http://blip.tv/file/1287551> (via @x
Watching Lawrence Lessig's 'Palin's experience in just 12 minutes' <http://tinyurl.com/3j>
how did this video not make the fp of Digg or Reddit? <http://blip.tv/file/1287551>
A well made case against Gov. Palin - <http://blip.tv/file/1287551>

Tweets about blip.tv

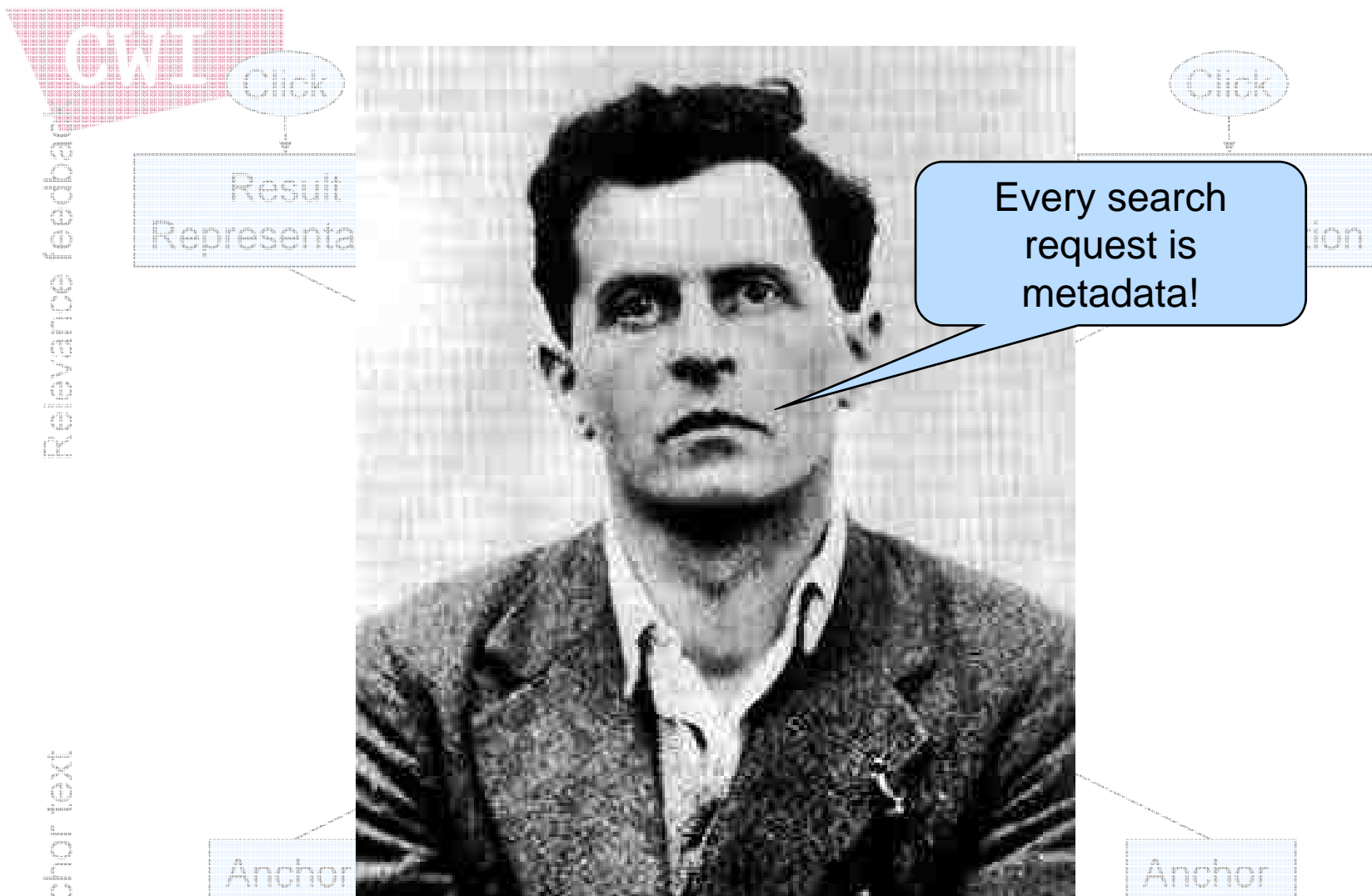
- E.g.: <http://blip.tv/file/2168377>
 - Amazing
 - Watching “World’s most realistic 3D city models?”
 - Google Earth/Maps killer
 - Ludvig Emgard shows how maps/satellite pics on web is done (learn Google and MS!)
 - and ~120 more Tweets

Diversity surfaces

- Fermented garlic? Interesting! (via @ChefMark) Chef Mark's Quick Bites: Black Garlic
<http://blip.tv/file/2313261>
- @ChefMark Love learning new stuff from Culinary Media Network. Good stuff from recent show
<http://blip.tv/file/2297478> yummmm
- why would anyone want to stop you from voting?
<http://blip.tv/file/1401303>
- great video about making your vote count (music by DJ Spooky): <http://blip.tv/file/1401303>
- Want to see Brussels at Christmas watch this video
<http://shadowandjames.blip.tv/file/1656052/>

CWI





That same metadata proves useful as training data for multimedia content analysis!

Theodora Tsirikika, Christos Diou, Arjen P. de Vries, and Anastasios Delopoulos.
Image annotation using clickthrough data. CIVR, 2009.

Query : Query clusters per page: 10

query clusters 1-10

police sting

11 of the retrieved images for "sting" have been previously clicked for "police sting". View

6784362



6784363



6784425



6784479



7032329



'Police Sting'
Sting performs with The Police

elton diana

1 of the retrieved images for "sting" have been previously clicked for "elton diana". View

187752



'Elton Diana'
Sting attends Versace memorial service

the police sting

4 of the retrieved images for "sting" have been previously clicked for "the police sting". View

6784362



6784363



6784425



6784479



led zeppelin

1 of the retrieved images for "sting" have been previously clicked for "led zeppelin". View

671354



'Led Zeppelin'
Sting performs at Led Zeppelin concert

Diversity from User Logs

- **Image Search Clickthrough Data**
 - Many query variations
 - Reliable (multiple studies, including our own; even over 80% in some cases)
- **Method:**
 - Present different query variants' clicked images in clustered view
 - Merge different query variants' clicked images in a round robin fashion into one list (CLEF)

CWI

ImageCLEF 'Olympics'



Olympic
games



Olympic
torch



Olympic
village



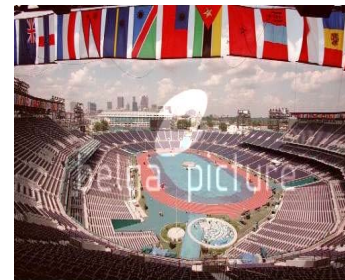
Olympic
rings



Olympic
flag



Olympic
Belgium



Olympic
stadium



Other

Query : Results per page:

results 1-25 of 1000

1930479



2071681



7011251



2087556



7011263



1907118



1401626



2081112



2080232



2143034



3878624



2089966



3975533



1900060



2390604



Query : Query clusters per page:

query clusters 1-10 of 299

china

58 of the retrieved images for "olympics" have been previously clicked for "china" [View all](#)

7200860



7200769



7200799



7200843



7200732



olympic countdown

30 of the retrieved images for "olympics" have been previously clicked for "olympic countdown" [View all](#)

7180331



7180334



7180335



7198475



7198488



china olympics

31 of the retrieved images for "olympics" have been previously clicked for "china olympics" [View all](#)

7056838



7193940



7011263



6796121



6796242



Query : Concept clusters per page:

concept clusters 1-10 of 50

7200833



7200823



7200834



7200830



7200795



78 of the retrieved images for "olympic" are annotated with concept "sky" [View all](#)

1994248



1994268



1024315



2073245



2118629



64 of the retrieved images for "olympic" are annotated with concept "boat" [View all](#)

3975784



2069790



2141592



2080718



1928919



39 of the retrieved images for "olympic" are annotated with concept "flag" [View all](#)

CWI

ImageCLEF 'Tennis'



Query : Results per page:

results 1-25 of 1000

2933355



1273719



3419990



3319913



7296492



7296391



7296380



7295664



7295576



4782345



2940071



7295699



7296396



2940073



158695








Query : Query clusters per page:

query clusters 1-10 of 138






us open

128 of the retrieved images for "tennis" have been previously clicked for "us open" [View all](#)

7397052	7396836	7290553	7290556	7295699
				






clijsters

19 of the retrieved images for "tennis" have been previously clicked for "clijsters" [View all](#)

7507806	7507805	7507780	7507625	7507675
				

henin

29 of the retrieved images for "tennis" have been previously clicked for "henin" [View all](#)

7336889	7025191	6991087	7336888	7336891
				

Query : Concept clusters per page:

concept clusters 1-10 of 28

173 of the retrieved images for "tennis" are annotated with concept "tennis" [View all](#)

7351897



7351891



3328059



7347796



1365614



70 of the retrieved images for "tennis" are annotated with concept "sports" [View all](#)

7322405



7338040



7322421



7552972



7322403



42 of the retrieved images for "tennis" are annotated with concept "entertainment" [View all](#)

1362741



7466683



7413037



7413043



7413035



ImageCLEF Findings

- **Many queries (>20%) without clicked images**
 - Corpus and available logs originated from different time frame
- **Best results combine text search in metadata with image click data for topic title and each of the cluster titles**
- **Using query variants derived from the logs increases recall with 50-100%**
 - However, also topic drift; reduced early precision

More diversity?

- **Preliminary results:**
 - Map queries into linked data cloud, find 'abstract' patterns, and re-use those for query suggestion, e.g.:
 - A and B play-soccer-in-team X
 - A is-spouse-of B
- **Right mix of statistics and semantics?**

artefact related to keyword: "Van Gogh"

works created by matching person (100)



Van Gogh's slaapkamer in Arles
Gogh, Vincent van



Van Gogh's woning aan de



Gezicht vanuit de kamer van



Zelfportret

Additional information upon mouse-over on answer-type



De opening van de Van
Crone, Werry

works showing event (8)

works titled (7)



Naakt voor van Gogh's
Israëlis, Isaac



Ex-Libris Vincent van Gogh
Bauer, Marius



Ex-Libris Vincent van Gogh
Bauer, Marius



Vrouw lezend naast 'De
Israëlis, Isaac



omslag catalogus Vincent van
Roland Holst, Richard



'Homage to
Israëlis, Isaac

works with matching literature (16)

works created by a teacher of matching person (100)

works related to a teacher of matching person (3)

Presents answer types grouped by facet

login | help | English

Van Gogh

artefact view all 19 results

Interieur van het huis van Andri...

Moord op Theo van Gogh

omslag catalogus Vincent van Gogh

concept view all 9 results

van Gogh

painter

De broer van Vincent van Gogh H...

In 1861 trad de schilderijenexpe...

event

Moord op Theo van Gogh

location

Van Gogh Museum (Amsterdam)

person view all 32 results

Gogh, Marie van

Gogh, Vincent van

Gogh, Ank van

Gogh, Vincent van
(ULAN RKD Rijksmuseum people)

Except for some brief periods of formal instruction, van Gogh was self-taught; he collected prints and reproductions to study and copy, especially those of Millet. His life and work are legendary in the history of art, making him the quintessential misunderstood, tormented, even insane artist, who sold only one work i ...

view all

view all

view all

view all

view all

Case for Uniformity?

- **Vox Populi**
 - Stefano Bocconi, Frank Nack, and Lynda Hardman. Vox populi: a tool for automatically generating video documentaries, ACM Hypertext and Hypermedia, 2005
- **Vox Populi generates video documentaries based on interviews about controversial topics**
- **User selects topic and a point of view**

CWI

Views on the war in Afghanistan?

I am not a fan of military actions



I cannot think of a more effective solution



War has never solved anything

Two billions dollar bombs on tents

Rhetoric Theory (Toulmin)

Two billions dollar bombs on tents



Claim

contradict

Claim



I cannot think of a more effective solution

weaken

Concession



Claim

support

I am not a fan of military actions

War has never solved anything

Children as Users

- Leave out extreme views?
 - *Especially* for adolescents?



Age vs. Reading Level

Kits

2 BINNENS • 3 BUITENS • 4 FLITS

Elke dag versiers op www.kits.be Webwink 020 1506

Halloween

Blik op de week

Wat is angst?

3 Boeren zijn boos

7 Laura wil zeilen

13 Sound of Music

Klap

Elke dag vers nieuws op www.klapkrant.be Websteutel : 840752

3 Boeren zijn boos

7 Laura wil zeilen

13 Sound of Music

Summary

- **Topicality is 'just' one of many relevance criteria**
 - Others include specificity, currency, verification, affectiveness, ...
- **However, as opposed to this workshop, studies into user-based relevance criteria usually have not considered search success as a factor**
 - What about the user who is happy with biased results?

Summary

- **Diversity surfaces in information use**
 - PetaMedia corpus
 - User log-based image retrieval
- **Show information sources together with their use context**
 - Opinions will show; group as facets?
- **Do not just rank complete objects**
 - Media fragments
 - Entities



Vlaams Radio Orkest performing in the rotunda of the Ravenstein Gallery
Simon Blackley, flickr.com/people/sblackley/



Vlaams Radio Orkest performing in the rotunda of the Ravenstein Gallery
Simon Blackley, [flickr.com/people/sblackley/](https://www.flickr.com/people/sblackley/)



Vlaams Radio Orkest performing in the rotunda of the Ravenstein Gallery
Simon Blackley, flickr.com/people/sblackley/