

Gregory Grefenstette

Chief Science Officer
Exalead

Use of Semantics in Real Life Applications

29 October 2010

CIKM 2010

*19th ACM International Conference on
Information and Knowledge Management*

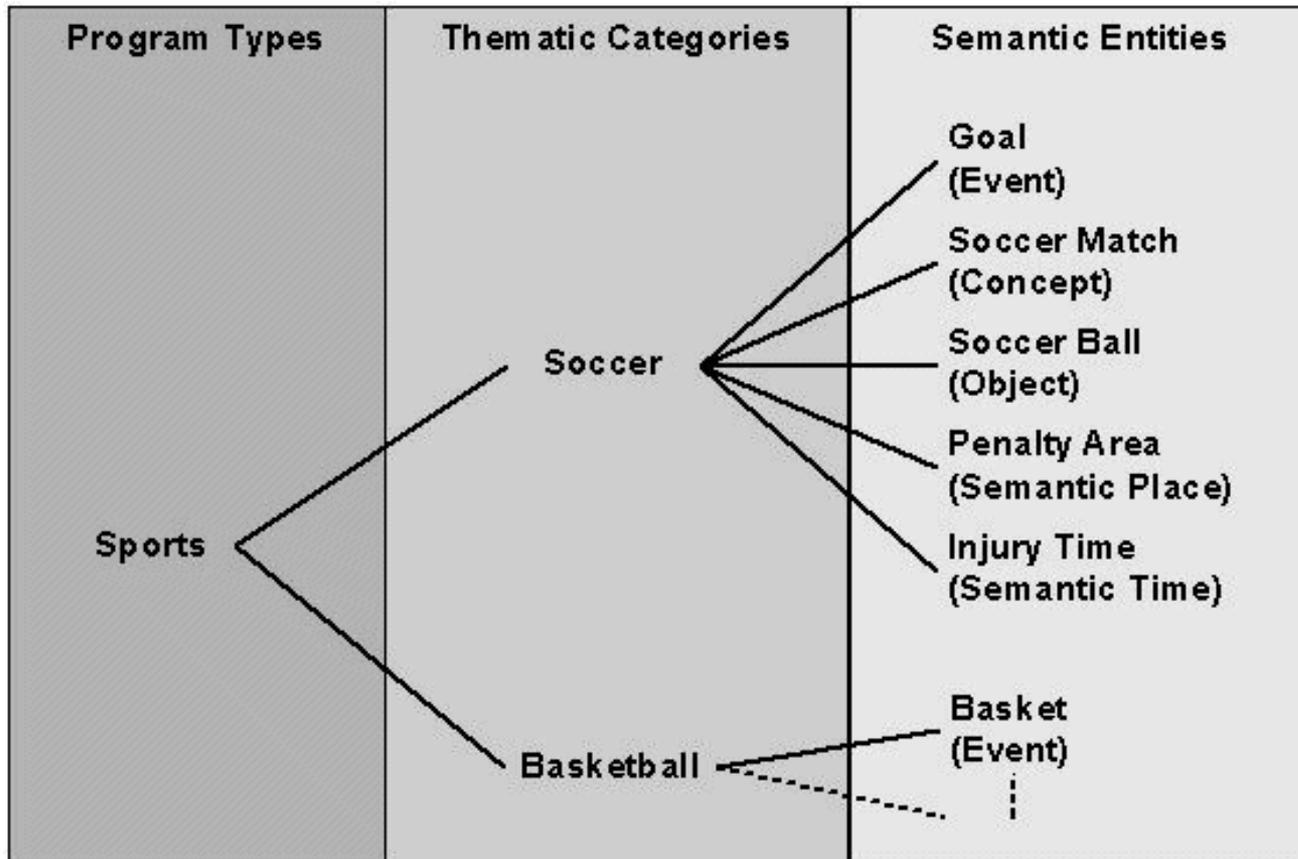
Toronto, Canada

October 26 - 30, 2010

What is semantics

- **Semantics is many things to many people**
- **My definition of semantics (general public)**
- **Semantics in Search Engines**
- **Successful semantics**
 - Entity extraction
 - Topic segmentation
 - Affect analysis, domain analysis
- **Semantics in Products**
 - Voxlead News
 - Urbanizer
- **Future**
 - LOD

Semantic Entities



Unified Access to Heterogeneous Audiovisual Archives

Y. Avrithis, G. Stamou, M. Wallace *et al.*

[10.3217/jucs-009-06-0510](https://doi.org/10.3217/jucs-009-06-0510)

Semantic store

The Multidimensional Learning Model:
A Novel Cognitive Psychology-Based Model for Computer Assisted Instruction in Order to Improve Learning in Medical Students
Tarek M. Abdelhamid, M.D., Formerly from the Medical Education Development Office, The University of Auckland School of Medicine and Health Science

Average number of words recalled

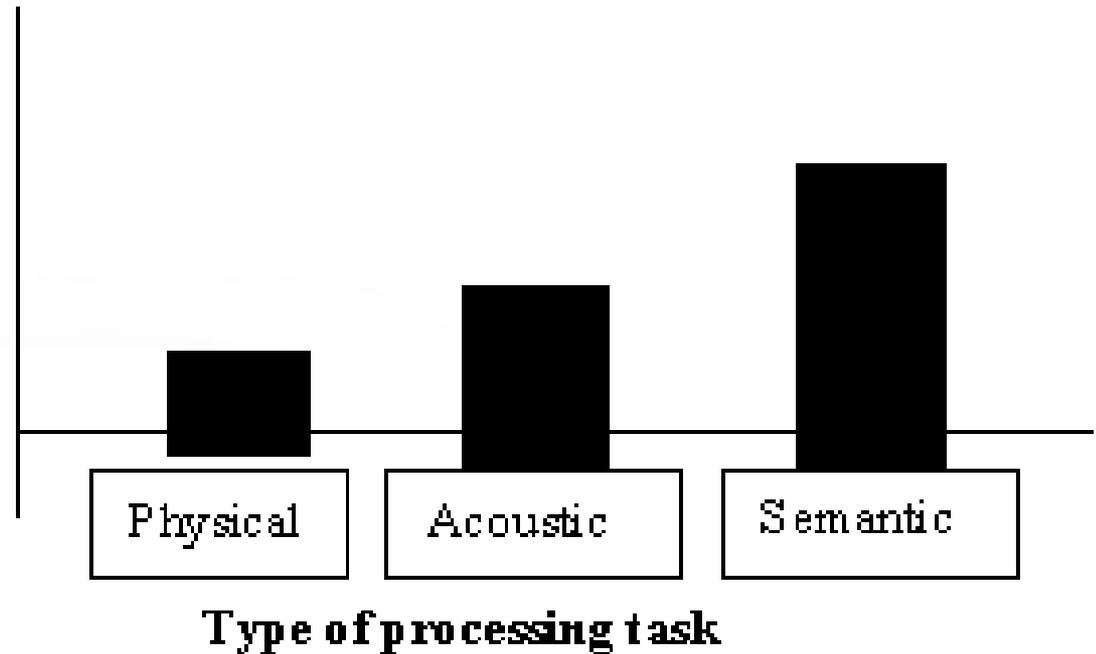
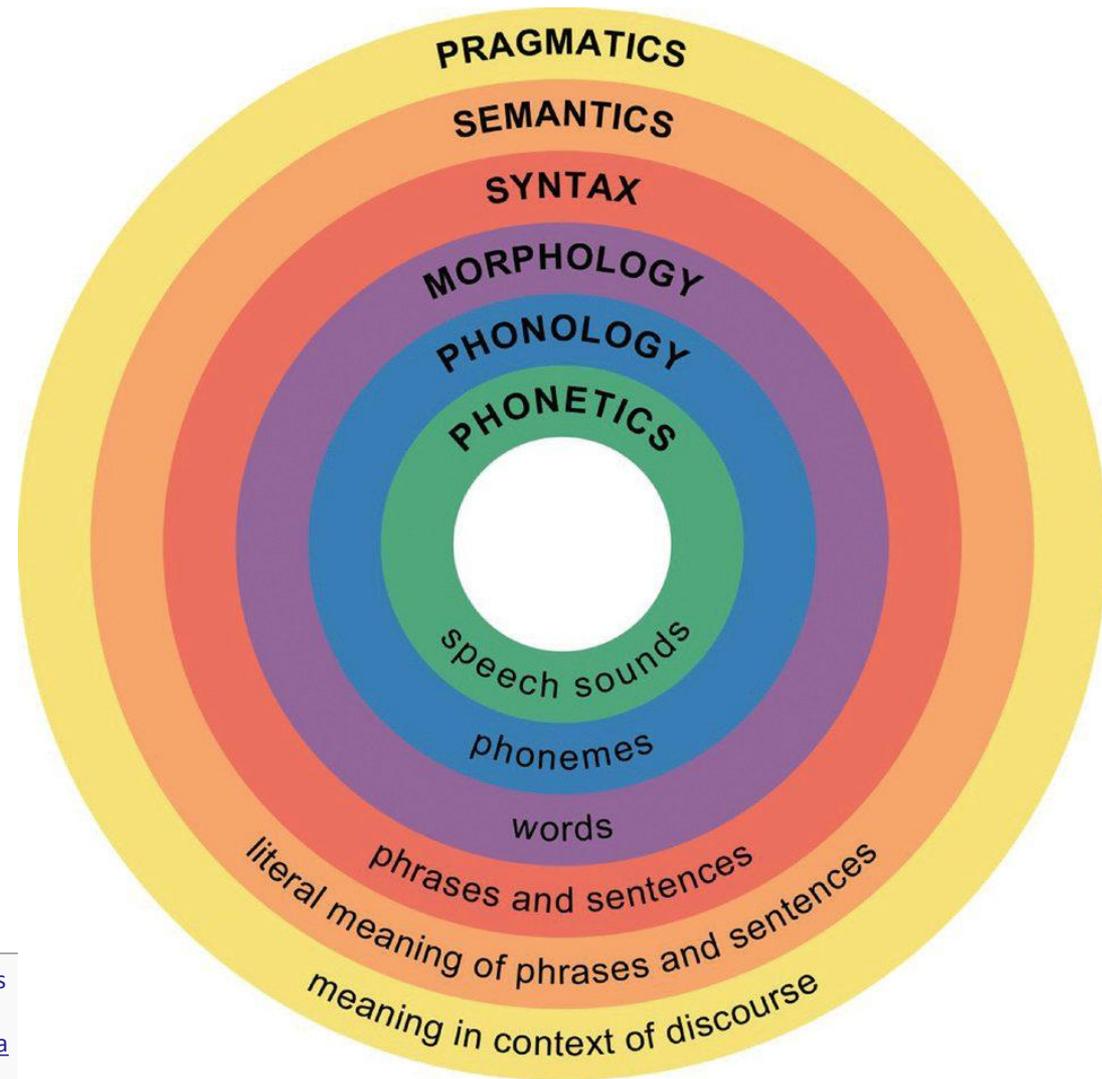


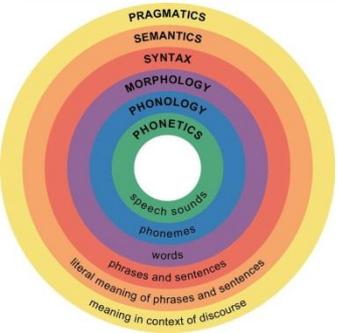
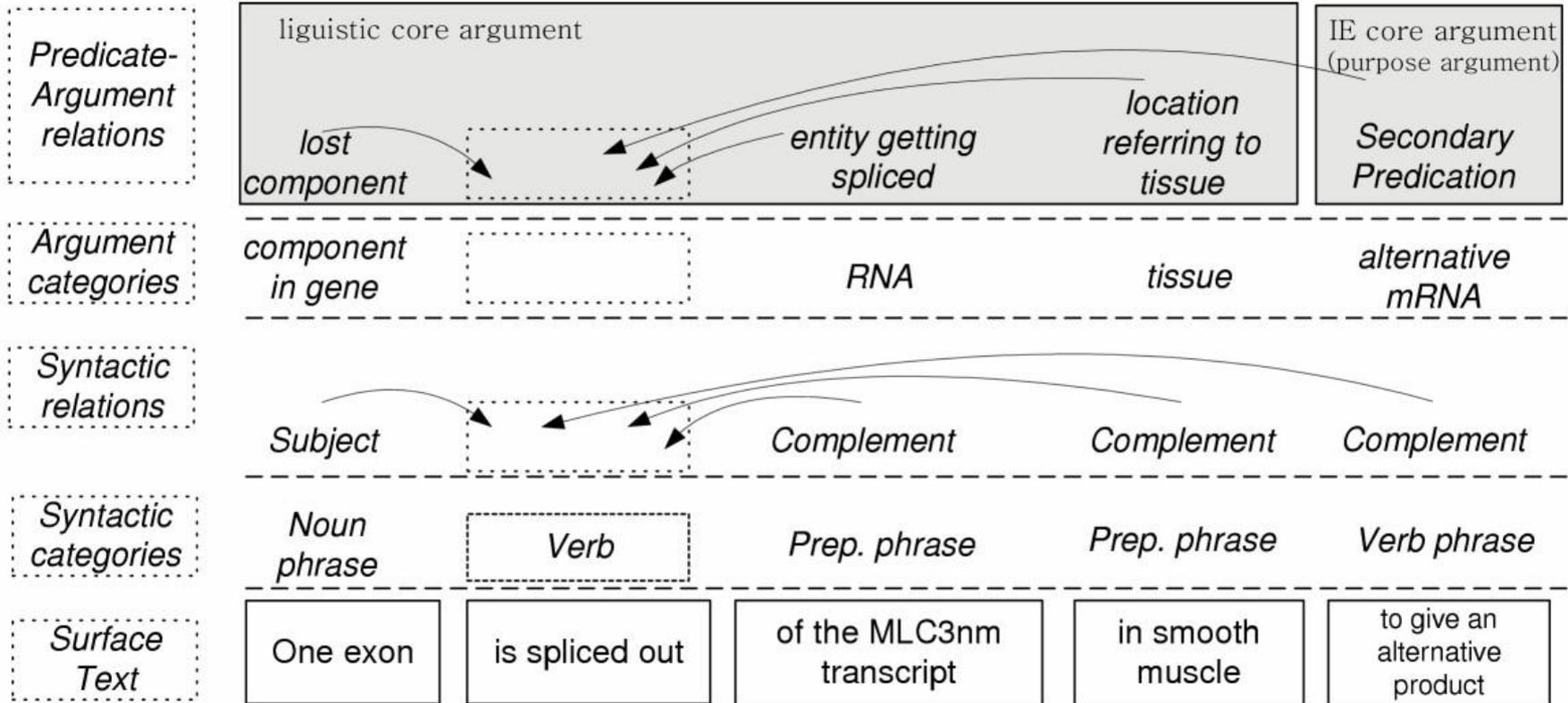
Figure 3 According to the level of processing approach the semantic (meaningful) coding of information provides the deepest form of processing.

Major levels of linguistic structure

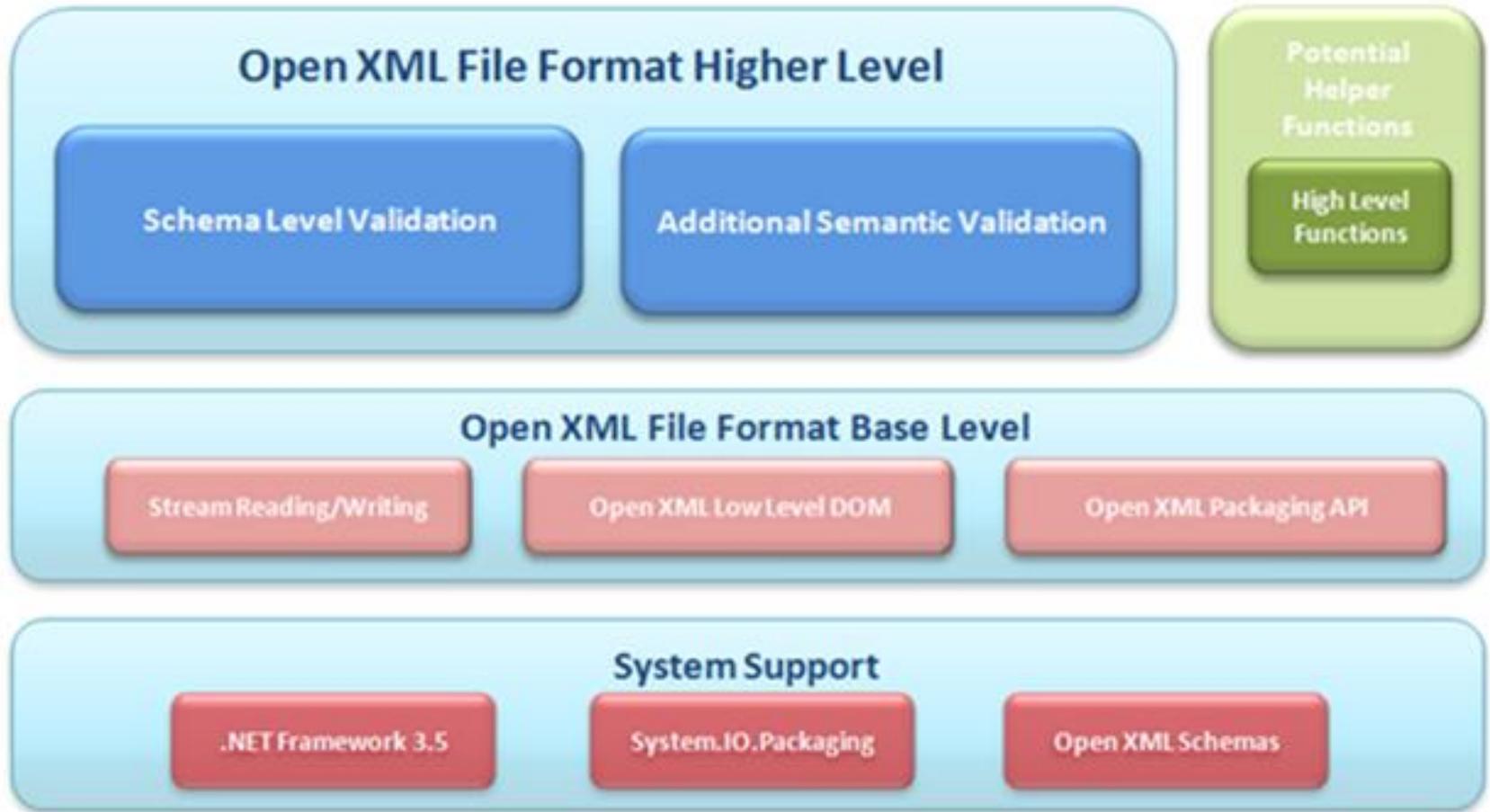


Source	National Visualization and Analytics Center: Illuminating the Path: The Research and Development Agenda for Visual Analytics p.110., 2005
Author	James J. Thomas and Kristin A. Cook (Ed.)

Syntactic and semantic level description of the surface text



Semantic Level



Announcing the Release of the August 2009 CTP for the Open XML SDK



Brian Jones

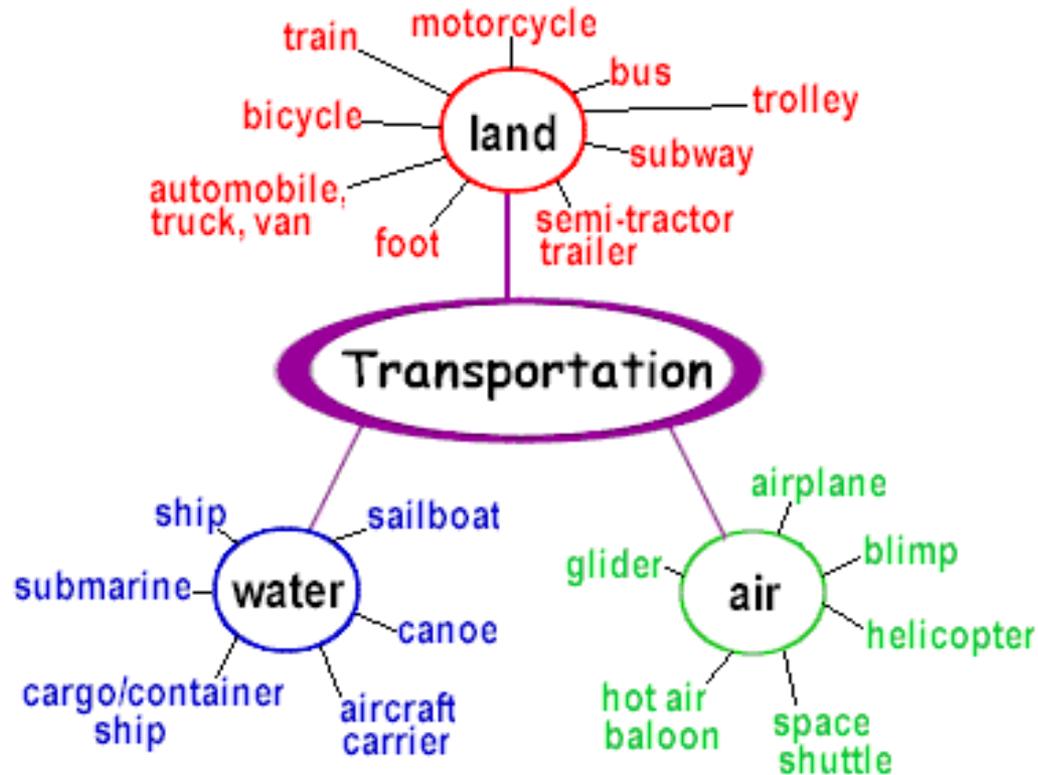
27 Aug 2009 9:21 AM



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Semantic Map



LearningTip #50: Strategies Help Reluctant Silent Readers Read to Learn

By Joyce Melton Pagés, Ed.D.

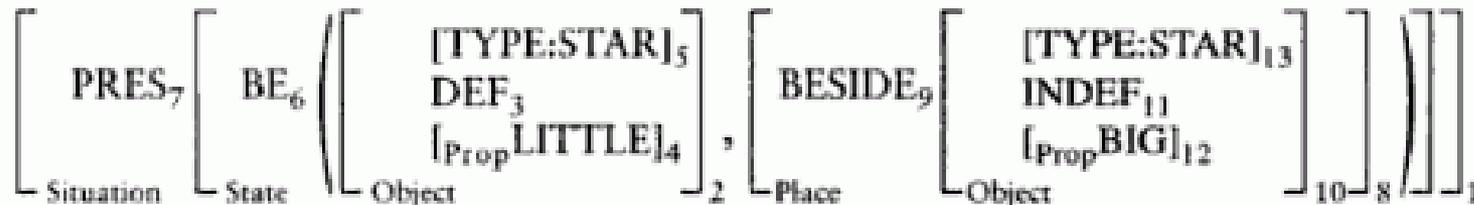
Educator, President of KidBibs

Semantic Structure

Foundations of language: brain, meaning, grammar, evolution

By Ray Jackendoff

Semantic/conceptual structure



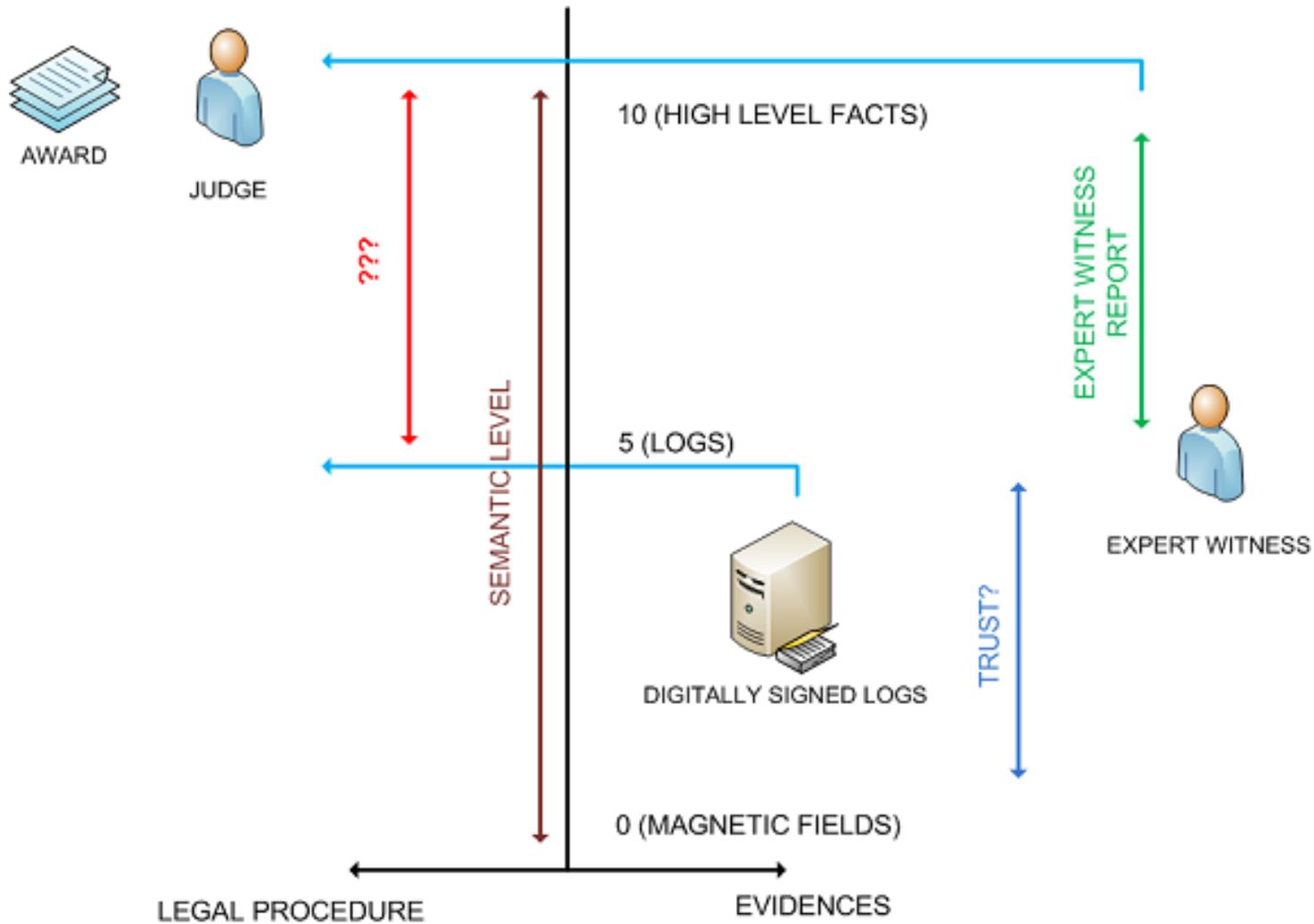
Spatial structure



Fig. 1.1. Structure of *The little star's beside a big star*

<http://www.cse.iitk.ac.in/users/amit/books/jackendoff-2002-foundations-of-language.html/>

Semantic Levels and Computer Evidence



Semantic Gap

Original Image



Annotated Image



<http://mklab.itι.gr/svmcf>

Region Annotation

Natural-Person: 0.181767	Waterfall: 0.182091
Sailing-Boat: 0.208791	Wave: 0.158562
Sand: 0.151650	Dried-Plant: 0.179367
Building: 0.178949	Dried-Plant-Snowed: 0.207337
Pavement: 0.222864	Foliage: 0.184398
Road: 0.288616	Grass: 0.233446
Body-Of-Water: 0.237975	Tree: 0.165337
Cliff: 0.156257	Trunk: 0.179618
Cloud: 0.177770	Snow: 0.243884
Mountain: 0.187080	Sunset: 0.180170
Sea: 0.150582	Car: 0.184918
Sky: 0.181040	Ground: 0.220350
Stone: 0.188128	Lamp-Post: 0.178783
	Statue: 0.181745

Semantic Filtering

Multiject-based Filtering and Detection Demo by Milind Naphade

Video Clip

Available multijects

Confidence

Multiject	Confidence
<input checked="" type="checkbox"/> Outdoor	High
<input checked="" type="checkbox"/> Rocks	Medium
<input checked="" type="checkbox"/> Sky	Low
<input checked="" type="checkbox"/> Snow	None
<input checked="" type="checkbox"/> Waterbody	Low
<input checked="" type="checkbox"/> Forest/Greenery	Very Low
<input checked="" type="checkbox"/> Helicopter	High

Playing 1687 / 2117

Play

M. Naphade, I. Kozintsev and T. Huang, "A Factor Graph Framework for Semantic Video Indexing", accepted for publication in IEEE Transactions on Circuits and Systems for Video Technology
<http://domino.research.ibm.com>

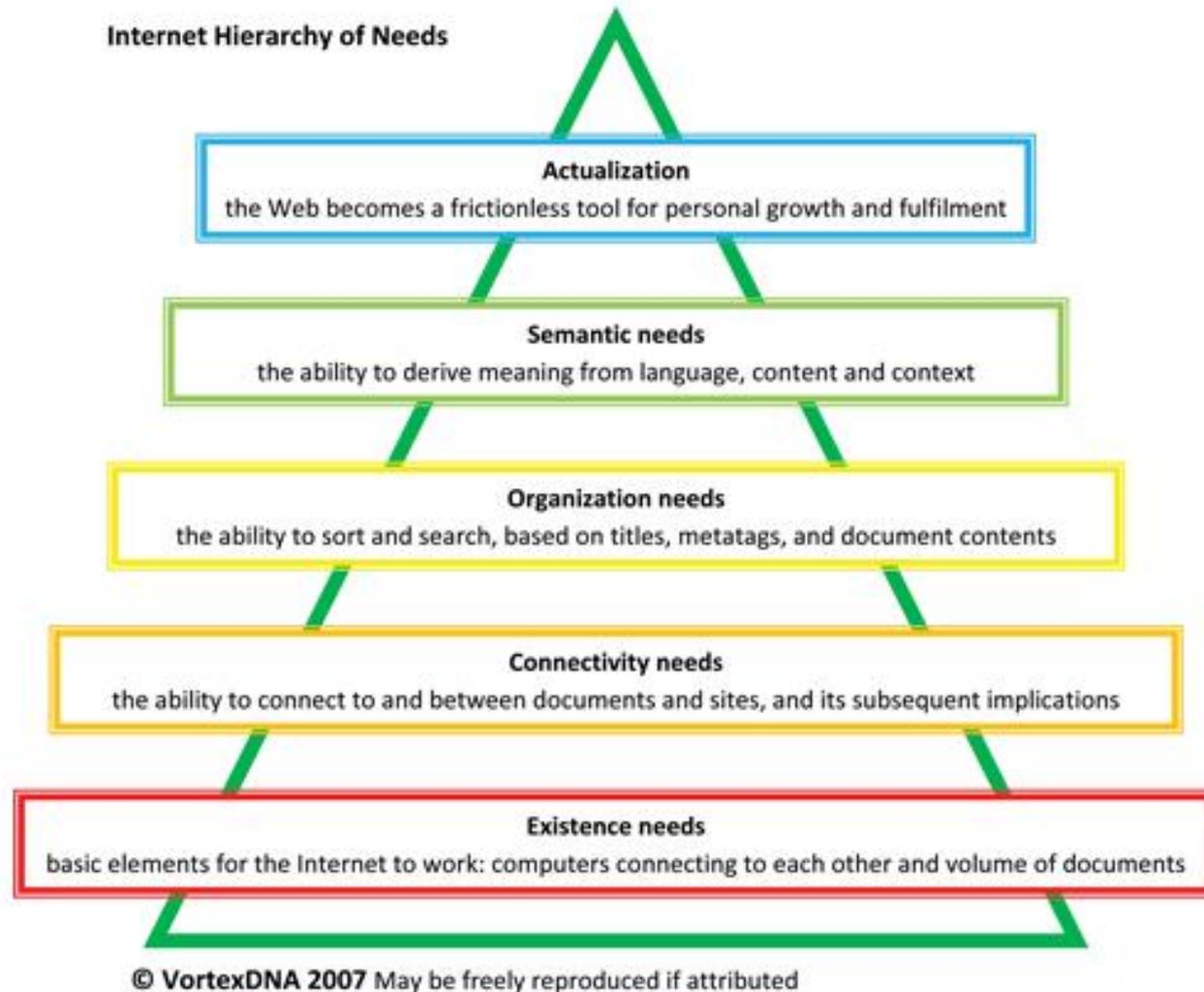
Semantic Vocabulary



diving	82.0	1.0	1.0	2.0	2.0	2.0	0.0	10.0
g_swinging	0.0	86.0	0.0	2.0	0.0	9.0	0.0	3.0
h_riding	0.0	2.0	78.0	1.0	5.0	5.0	5.0	4.0
s_juggling	1.0	6.0	2.0	60.0	7.0	10.0	11.0	3.0
swing	2.0	1.0	2.0	0.0	67.0	1.0	15.0	12.0
t_swing	3.3	8.0	1.3	0.7	0.7	76.0	1.3	8.7
t_jumping	0.0	0.0	3.0	4.0	13.0	0.0	80.0	0.0
v_spiking	1.0	5.0	1.0	1.0	2.0	9.9	0.0	80.2
	di	gs	hr	sj	sw	ts	tj	vs

Jingen Liu, Yang Yang and Mubarak Shah, , *Learning Semantic Visual Vocabularies Using Diffusion Distance*
 IEEE International Conference on Computer Vision and Pattern Recognition (CVPR), 2009.

Semantic Needs

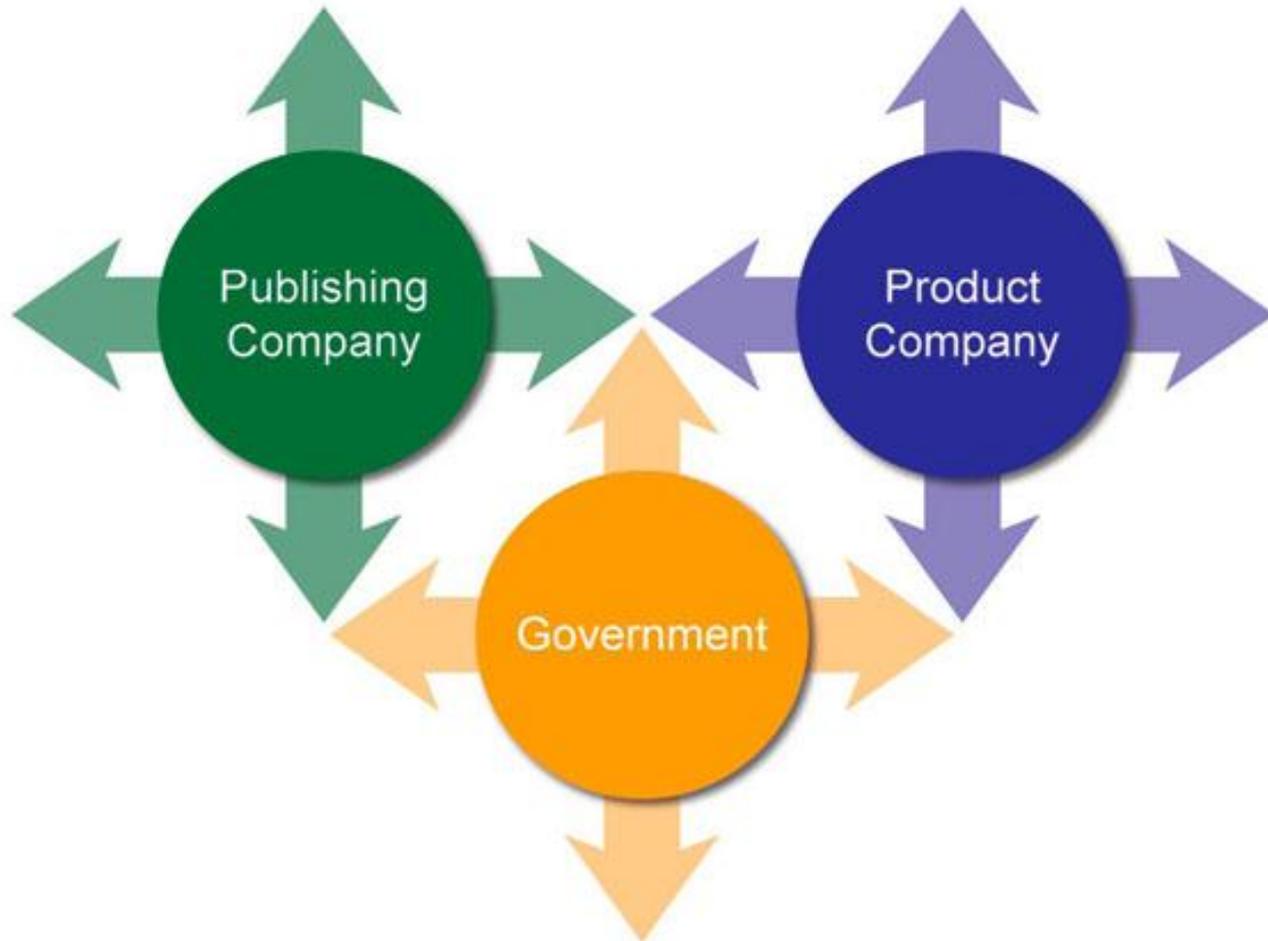


<http://blog.webgenomeproject.org/internet-hierarchy-of-needs-elaborated-part-4/>

Unified Semantic Ecosystem

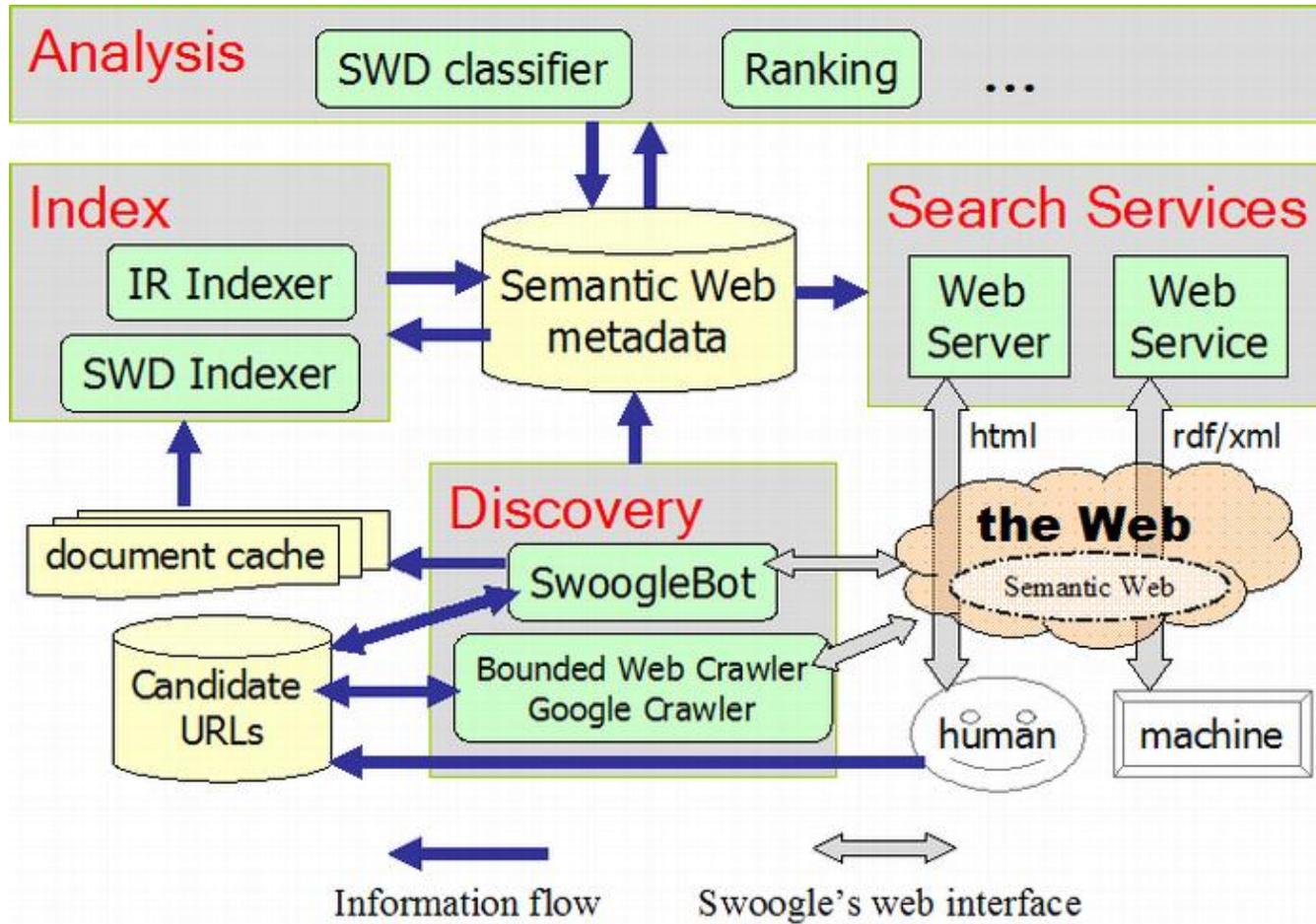


Online community for the Darwin Information Typing Architecture OASIS Standard



<http://dita.xml.org/wiki/level-six-universal-semantic-ecosystem>

Swoogle Semantic Web indexer



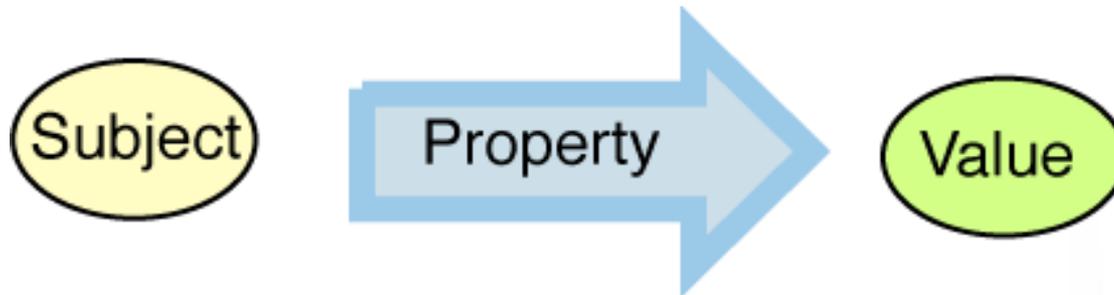
Semantic Web

The element of the Semantic Web

Can be encoded in XML

Simplicity and mathematical consistency

This is called Resource Description Framework (RDF)



<http://www.w3.org/2007/Talks/1211-whit-tbl/>

Tim Berners-Lee

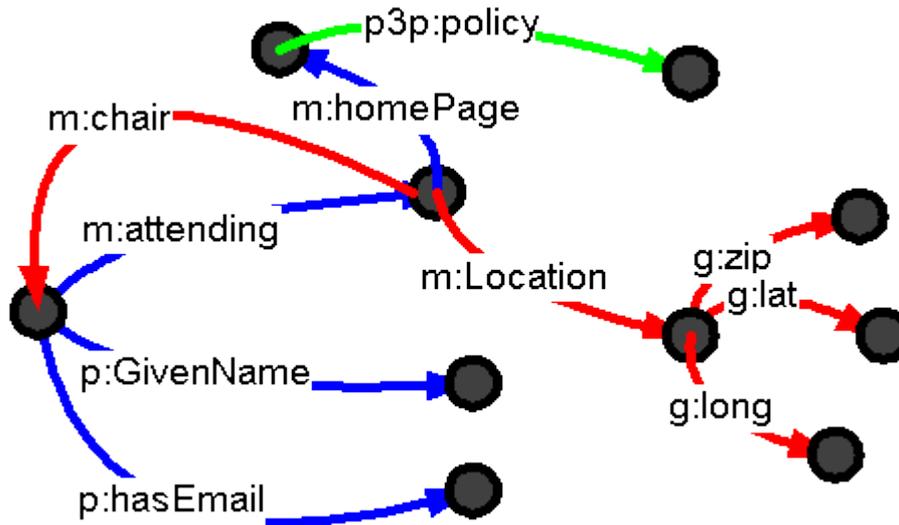
MIT Computer Science & Artificial Intelligence Laboratory (CSAIL)

Southampton University School of Electronics and Computer Science

World Wide Web Consortium

Semantic Web

- RDF data...



Subject and object node using same URIs

<http://www.w3.org/2007/Talks/1211-whit-tbl/>

[Tim Berners-Lee](#)

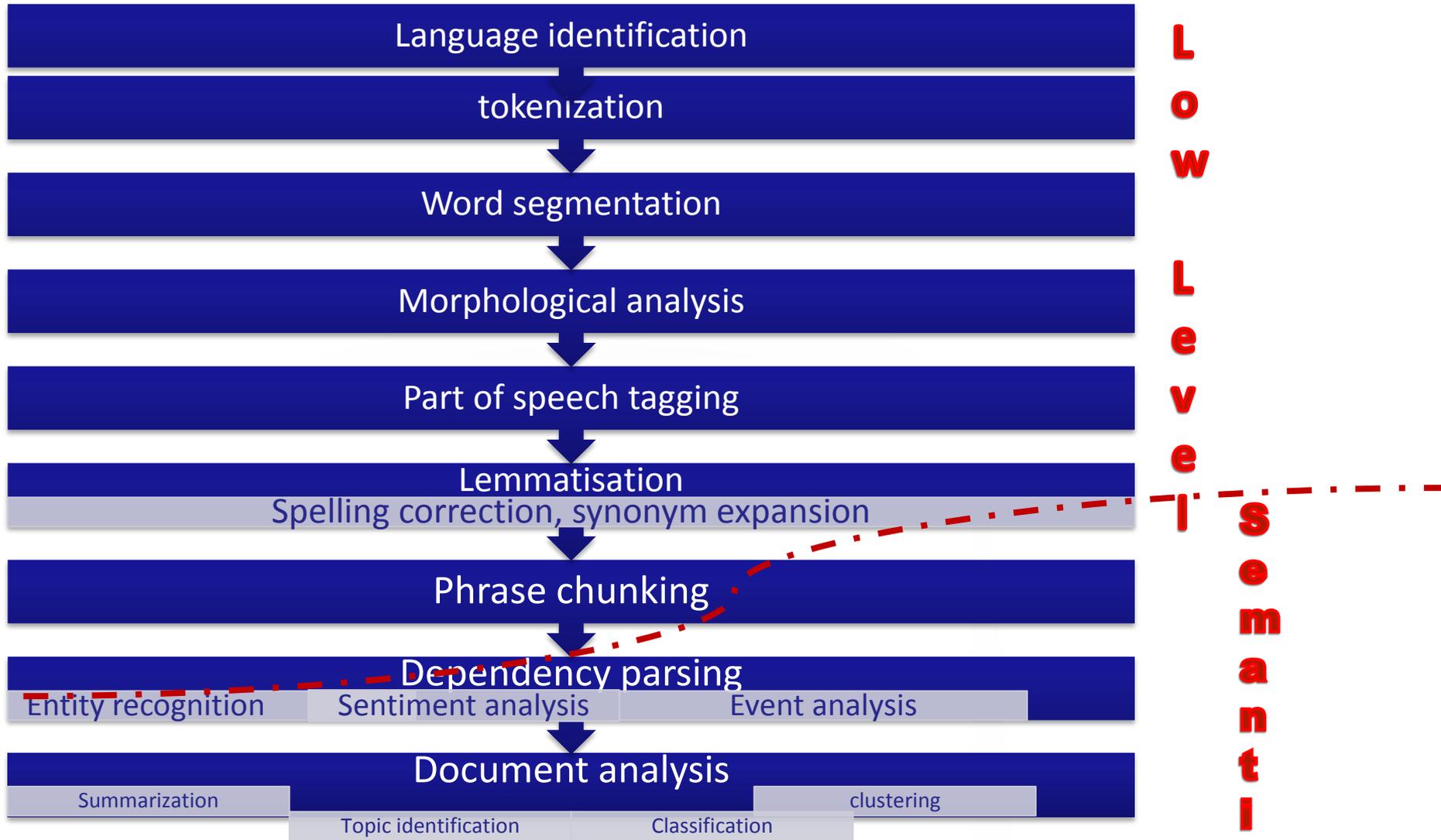
MIT Computer Science & Artificial Intelligence Laboratory (CSAIL)
Southampton University School of Electronics and Computer Science
World Wide Web Consortium

● Semantics

- Upper level classes
- Relations between concepts
- Predicates extracted from text
- Restrictions on content
- Labels on visual data
- « meaning »
- Shared master data space
- RDF triples

MY EXPERIENCE WITH SEMANTICS

My thinking in 2007



In 2008, I joined Exalead



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hubble

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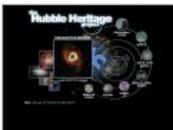
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Main Hubble Page

For instructions, click here + NASA HOME + Contact **Hubble** Program Named after the trailblazing astronomer Edwin P. **Hubble** (1889-1953), the **Hubble** Space Telescope (HST) is a large, space...

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The Hubble Heritage Project Website

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Esa Science & Technology: **Hubble**

During its lifetime **Hubble** has become one of the most important science projects ever. NEWS **Hubble** captures rare Jupiter collision [heic0909] Commissioning **Hubble** - preparing for science ...

hubble.esa.int - Cached - Bookmark



The European Homepage For The Nasa/esa **Hubble** Space Telescope

[...] videos goodies **hubble** shop about **hubble** science kids & teachers press projects jobs **Hubble** Picture of the Day **Hubble** Video of the Day NEWS 24-Jul-2009 heic0909: News: **Hubble**

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- » Forum

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- » Audio
- » Video

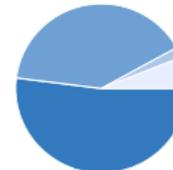
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- French (40%)
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- United States (43%)

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AFFINER
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T-shirt TOGETHER

depuis **54.90 €**



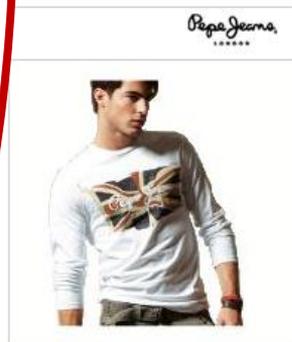
T-shirt LEVITS®

depuis **50.00 €**



T-shirt manches longues LEVITS®

depuis **50.00 €**



T-shirt manches longues PEPE JEANS

depuis **49.90 €**



T-shirt TOGETHER

depuis **49.90 €**



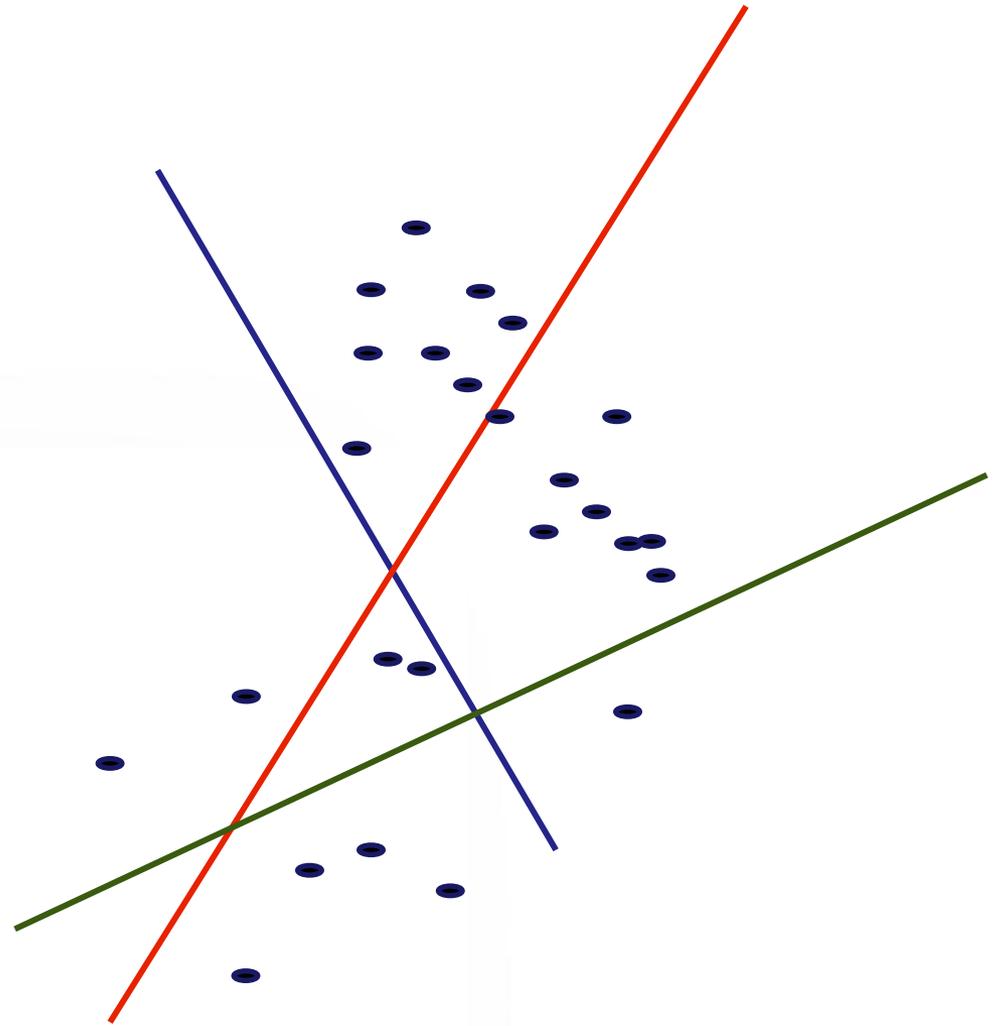
T-shirt homme LEVITS®

depuis **45.00 €**

Semantic Dimensions

Facets

Hunting Gathering
Shopping



Search Results Results 1-10 of about 840 for developing countries

Sort by relevance - [Sort by date](#) - [Sort by size](#) | View:



IDC WW Search Discovery Forecast 2007-2011.pdf
 The search market is in for another tumultuous year of fast growth. ! ... Whether this consolidation will be in conjunction with business intelligence applications, ...
 29 May 2008 - 220k

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- Organization: [Microsoft](#), [IBM](#), [Oracle](#), [Google](#), [Ask Jeeves](#), [AuA](#)



Research Areas, FP7
 6international collaboration with Developing Nations and Emerging Economies PAGEREFF ...
 21 Mar 2008 - 656k

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SIXTH FRAMEWORK PROGRAMME
 search engines with the goal of developing an open source prototype of a distributed, semantic-based search ... goals, developing a system that is both ...
 24 Apr 2007 - 3109k

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2.2 Individual participants (Maximum length ... efficiency and satisfaction, and developing applications and platforms with which ageing people feel more at ...
 02 May 2007 - 102k

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Preparing for Digital Natives Joining Your Workforce November 3-7, 2008 ... access to the Internet, which will be nearly fully democratized in most countries.
 20 Oct 2008 - 752k

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- Geographic location: [Cannes](#), [France](#), [Africa](#)
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The Big Bang: Demand for Advanced Leadership ... rather than directing, by developing self-organizing structures rather than reporting structures and by ...
 07 Nov 2008 - 520k

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- Organization: [Garner, Inc.](#), [Garner](#), [IBM](#), [Zappos.com](#), [America's NASA](#), [Internal Parties External Partners](#), [Homogeneous Limited](#)



Retirement in developed countries, retirement will be pushed back ... as business activities move within developed, emerging and developing countries.
 07 Nov 2008 - 622k

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INTRODUCTION
 from NIC newly Industrialised countries) Destinations Strongly concentrated (75%) in developed economies High ... in different countries States may inhibit ...
 24 Mar 2002 - 57k

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 - [October 2007](#) [exclude](#)
 - 2005 [exclude](#)
- Language**

END OF ASIDE
BACK TO CLIENTS DESIRE FOR
SEMANTICS



I learned that this is what *Clients* think

Anything added to but not in the original text is semantics

Anything fancier than indexing original strings

Anything that has "language"

Semantics is three things to the ordinary person

Is this an example of that?

Are these two things the same?

What is the relation between these two things?

Semantics is three things to the ordinary person

Is this an example of that?

Language identification, entity extraction, word sense disambiguation, affect analysis

Are these two things the same?

Tokenization, spelling correction, morphological analysis, summarization, synonym expansion, paraphrase, anaphor

What is the relation between these two things?

Parsing, event extraction, relation extraction, classification, clustering

Semantics in a Search Engine

- **Text fields**

- « ... the certification test is c

- **Numerical fields**

- 3.14159265

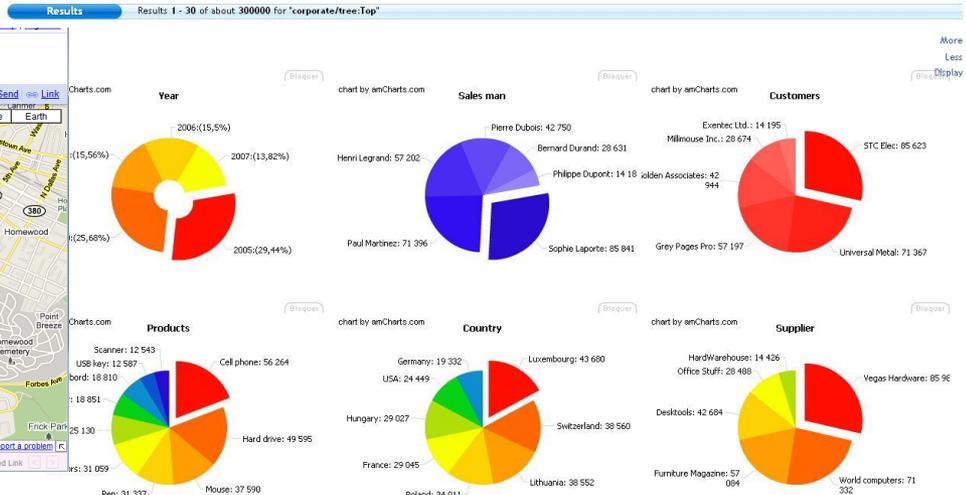
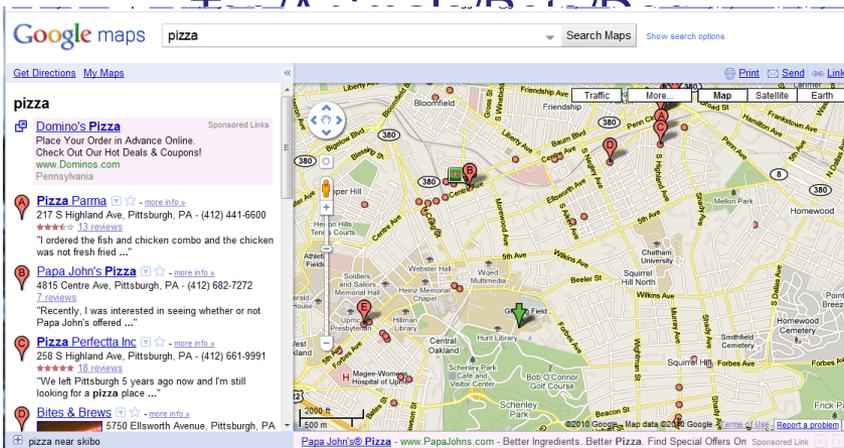
- **Date**

- 16/11/1957

- **GPS coordinates, real wo**

- 48.451065619, 1.4392089

- **Categories**



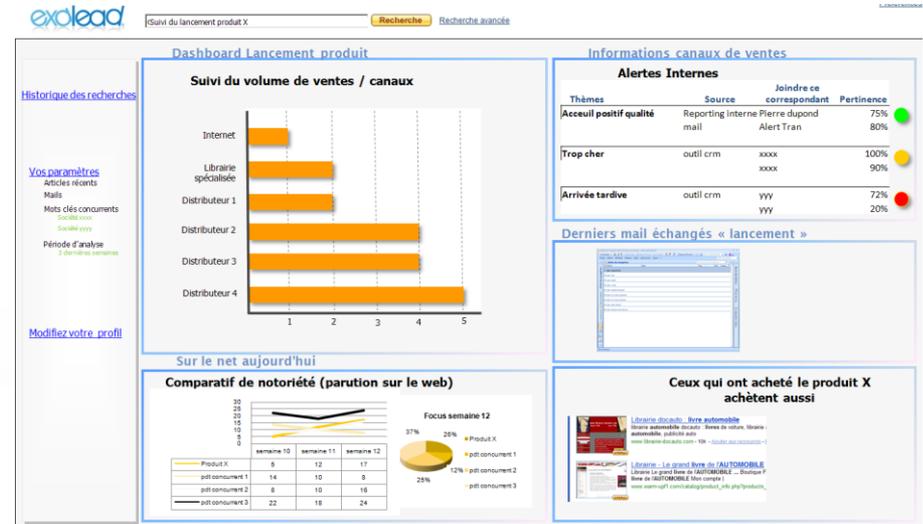
Exalead Fields capture most types, documents capture rows

Exalead Field types

- Text
- Dates
- Numbers
- Categories

Exalead Documents

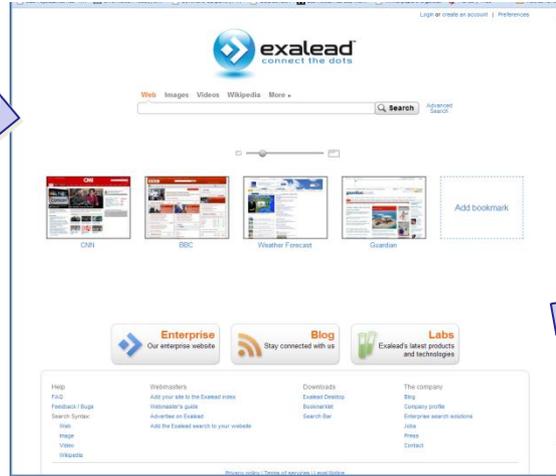
- Each doc an entity, database rows, or
- Each doc a text, with entities added in fields



Semantics Processes in a Search Engine

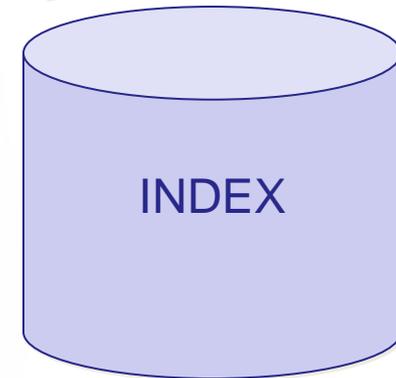


autosuggestion
language identification
related terms
related queries
spell checker
faceted search
local search

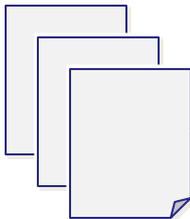


lemmatisation
synonyms **phonetic**
cross language
Ontology Matcher

phonetic
lemmatisation
synonyms **stopwords**
sentiment analysis
named entity



Data Sources



QueryMatcher
FastRules
HTMLRelevantContextExtractor
Categorizer
Clusterer



AutoSuggestion Example



Web Images Videos Wikipedia More ▶

moza Search

Advanced Search

- moza
- mozart
- mozambique
- mozarts
- mozart effect
- mozambique garnet
- mozaik
- mozart project
- mozart festival
- mozaiek
- mozartkugeln

	<i>The Mozart Project</i>	http://www.mozartproject.org/
	<i>Wolfgang Amadeus Mozart</i>	http://w3.rz-berlin.mpg.de/cmp/mozart.html
	<i>The Mozart Programming System</i>	http://www.mozart-oz.org/

Auto completion of
user query as they type

Auto Suggestion Resource

```
<SuggestDictionary xmlns="exa:com.exalead.mot.suggest.v10" maxEntries="3"
subExpr="false" subString="false" >
  <SuggestDictEntry entry="airport" score="1" />
  <SuggestDictEntry entry="air" score="2"/>
  <SuggestDictEntry entry="airlines" score="3" />
  <SuggestDictEntry entry="aircraft" score="4"/>
  <SuggestDictEntry entry="airelles" score="1" />
  <SuggestDictEntry entry="airpower" score="1" />
  ....
  <SuggestDictEntry entry="zebra" score="1" />
</SuggestDictionary>
```

Scores > administrator-set threshold are displayed

```
<SuggestDictionary xmlns="exa:com.exalead.mot.suggest.v10" maxEntries="3" subExpr="false" subString="false" >
  <SuggestDictEntry entry="airport" score="1">
    <SuggestDictEntryExtraInfo info="http://www.c.com"/>
    <SuggestDictEntryExtraInfo info="http://www.d.com"/>
  </SuggestDictEntry>
  ...
```

Format for URL suggestions



Synonyms, Example

exalead connect the dots

Web Images Videos Wikipedia More >

database administrator

Search

Advanced Search

Related Searches: Database Administration, Oracle Database, Database Design, ...

Home > Web results 1-10 of 6,768 for "db administrator", Page 1 - Next page

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DB Administrator Website :: Index
[...] Development Welcome to the **DB Administrator** home page. **DB Administrator** is a PHP program that enables you to administrate databases quickly and easily. Copyright (C) 2006 **DB Administrator** Group X/HTML | CSS
dbadministrator.sourceforge.net
Cached - Bookmark

SourceForge.net: Mailing Lists for DB Administrator
[...] downloads for **DB Administrator**. Find Software Develop Create Projects Community Site Support About Search SourceForge.net : Projects > **DB Administrator** > Mail Share **DB Administrator** Summary ...
sourceforge.net/mail/?group_id=177188
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DB Administrator Jobs in Portland, Or | Indeed.com
[...] company Where: city, state, or zip **db administrator** jobs in Portland, OR distance: [...] Get email updates for the latest **db administrator** jobs in Portland, OR My email: You can cancel email alerts at anytime.
www.indeed.com/q-db-administrator-l-Portland,-OR-jobs.html
Cached - Bookmark

Classic Mustang Analyzer Gold Edition Cd-r - HPC-DB Administrator. Softw...
HPC-DB Administrator HPC **DB Administrator** is atool that allows you to edit,browse, manage and performsimple queries on databaseswith Microsoft Windows poweredHPC, PPC, PocketPCCE V2.0, 2.11, 3.0....
www.free-pc-download.com/databases---networks-s-98-0-0.html
Cached - Bookmark

HPC-DB Administrator
HPC-DB Administrator Homepage Software Development Databases & Networks HPC-DB Administrator An advanced utility which lets you manage handheld databases HPC-DB Administrator Download Click ...
www.shareup.net/Development/Databases-Networks/HPC-DB-Administrator-review-2412.html
Cached - Bookmark

Site type:
» Blog
» Forum

Filetype:
» pdf
» powerpoint
» text
» word

Related terms:
» Application Developer
» Center Server
» Certification exam
» Information technologies
» Practice Exam
» SQL Servers
» SQL script
» Study guide
» actual questions

Languages :

English (83%)
German (6%)
Italian (5%)
Others (6%)

Countries :

DB administrator

is defined as
synonym of

*Database
Administrator*

This synonymy
can be in
one direction
or
both ways

Synonym Resource

Example 1

```
<Synonyms xmlns="exa:com.exalead.mot.grewrite.v10" equivalenceClass="false" >
  <SynonymSet originalExpr="db administrator" lang="en" >
    <Synonym alternativeExpr="database administrator" />
    <Synonym alternativeExpr="data base administrator" />
  </SynonymSet>
</Synonyms>
```

In this example the query "db administrator" generates query ("db administrator" or "database administrator" or "data base administrator") but "database administrator" and "data base administrator" queries do not perform expansion.

Example 2

```
<Synonyms xmlns="exa:com.exalead.mot.grewrite.v10" equivalenceClass="true" >
  <SynonymSet originalExpr="db administrator" lang="en" >
    <Synonym alternativeExpr="database administrator" />
    <Synonym alternativeExpr="data base administrator" />
  </SynonymSet>
</Synonyms>
```

In this example any of the queries "db administrator", "database administrator" or "data base administrator" will generate the combined query ("db administrator" or "database administrator" or "data base administrator")

Phonetic Example



exalead
connect the dots

Web Images Videos Wikipedia More >

soundlike:Filipine

Search

Advanced Search

Login or create an account | Preferences

Home > Web results 1-10 of 20,619,420 for soundlike:Filipine, Page 1 - Next page



Philippines - Wikipédia

Philippines Un article de Wikipédia, l'encyclopédie libre. [...] Pour les articles homonymes, voir République des **Philippines** (homonymie) . [...] renverser les théories admises pour l'histoire des **Philippines**.

fr.wikipedia.org/wiki/Philippines

Cached - Bookmark



Filippine - geografia cultura e storia

Filippine, lunghi week end: i festivi spostati al lunedì **Filippine**, lunghi week end: i festivi spostati al lunedì ... [...] Scuba: **filippine**, isole da sogno Scuba: **filippine**, isole da sogno...

www.filippine.it

Cached - Bookmark



Misterium - Paranormal, enigma, ozn

Dosarele OZN din **Filipine** devin publice O veste cu adevarat buna: dupa activitate de aproape doua [...] Cu alte cuvinte, cel putin pentru aceasta organizatie din **Filipine**, acum adevarul poate fi spus.

misterium.tripod.com/news/2000_10/2k10filipin_ozn.htm

Cached - Bookmark

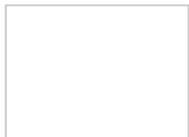


Philippines - Wikipedia, the free encyclopedia

For the town in the Netherlands, see **Philippine** (Netherlands) [...] This led to the **Philippine-American War**. [...] It is bounded on the east by the **Philippine Sea**.

en.wikipedia.org/wiki/Philippines

Cached - Bookmark



Philippine Airlines | Home

[...] or call: In Manila: (632) 855-8888 In North America: 1-800-I-FLY-PAL In Australia: 1-300-888-PAL Sitemap | Contact Us | FAQ | Viewing Tips | Legal Notices Copyright © 2008 **Philippine Airlines**.

www.philippineairlines.com

Cached - Bookmark



P+ Petermann **Philippin**: Ingénieurs en Environnement, Bâtiment, Informatique

environnement bâtiment informatique P+ Petermann **Philippin** Bureau d'ingénieurs dont les

Site type:

- » Blog
- » Forum

Multimedia:

- » Audio

Filetype:

- » pdf
- » word

Related terms:

- » Cebu City
- » Hotels in Philippines
- » Metro Manila
- » PDFAdobe Acrobat
- » Philippine Business
- » Philippine News
- » Philippines Hotels
- » Philippines Online
- » Rights Reserved
- » Travel Philippines

Languages :



- English (59%)
- French (29%)
- Tagalog (4%)
- Italian (3%)
- Others (5%)

Countries :

10/29/2010

ad®

DASSAULT
SYSTEMES

Phonetic Resource

contextualizable character sequence

Phonetic form

comment for linguist developer

names and old spelling

"(oy)", "O.Y"

"(oy)", "O.Y"

"(ooy)", "O.Y"

"(oij)", "O.Y"

"(ooij)", "O.Y"

"(oeu)", "@"

OU

exceptions for foreign words

"r(ou)tine", "OU"

"g(ou)verneur", "OU"

"<b(ou)illon", "OU"

"<r(ou)te", "OU"

"<s(ou)ffleur", "OU"

"<b(ou)gie", "OU"

!! OU in names and old spelling

"(ouw)", "A.OU"

"(ou)", "A.OU"

hoi (hi)

Plockhoy, Roy, Van Royen

Verlooy

#

Van Ooijen

oeuvre

routebeschrijving

souffleurshokje

bougiesleutel

bouw, sjouwer, mouw, stouwen

zout (sel), vrouw (femme), koud (froid), nou (eh bien)

For each language, phonetic rules are developed in house.

Currently available for 20 languages:

CA	CS	DA	DE
EN	ES	ET	FI
FR	IT	NL	NO
PL	PT	RO	RU
SK	SL	SV	



Language Identification

Home > Web results 1-10 of 14,511,906 for romania, Page 1 - Next page

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Ministerul Finantelor footer.jsp

Comunicate si informatii de presa 26 iunie 2009 | Informare La data de 25 iunie 2009 Ministerul Finantelor Publice a primit oferte de la 20 de bănci, care intenționează să participe cu produse de...
www.mfinante.ro
Cached - Bookmark



Romania - Wikipedia, the free encyclopedia

For other uses, see **Romania** (disambiguation). **Romania** **România** Flag Coat of arms Anthem: Deșteaptă-te, române! [...] **Romania** (pronounced /rou'meɲiə/ (listen); en.wikipedia.org/wiki/Romania)
Cached - Bookmark



Romanian Embassy

www.romania.lt
Cached - Bookmark



Diplomacy.ro :: Embassy of Romania - Helsinki

[...] © 2004 MAE Developed by Astral Info | Webmaster | Site map | Terms and Conditions Last update: 2009-11-09 President of **Romania** Government of **Romania** Ministry of Foreign Affairs
helsinki.mae.ro
Cached - Bookmark



Ministerul Apărării Naționale... www.mapn.ro... **Ministerul Apărării Naționale**...

[...] calitatea vieții în Ministerul Apărării al Statului Israel, general de brigadă Orna Barbevay, a efectuat, în perioada 23-26 noiembrie, o vizită oficială în **România**. [continuare] Comunicate de presa
www.mapn.ro
Cached - Bookmark

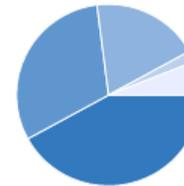
Site type:

- » Blog
- » Forum

Multi-media:

- Audio
- » Video

Languages :



- English (42%)
- French (31%)
- Romanian (19%)
- Italian (2%)
- Others (6%)

Countries :



- United States (32%)
- Romania (32%)
- France (24%)
- Germany (4%)
- United Kingdom (3%)
- Others (5%)

54 languages are currently detected

Lemmatisation

The screenshot shows the Wellcome Trust Sanger Institute search interface. The search bar contains the query "cloning". The results show 6420 entries. The first result is titled "Cloning" and includes a snippet: "Hopefully, this will turn into a full fledged tool to recompute the physical map and assess its reliability. At present, it does very little. This option is not linked in release 1.4 Select project This will look for a binary file \$ACEDB_DATA/sulston/whatever_you_enter.bnd. if it does not exist the program will try". The source is listed as "AceDB; public websites". A second result is titled "TAR CLONING:" and includes a snippet: "two stages (see figure 1.): In the first stage a targeting vector is created, by cloning a 500bp PCR product into the Xho-I site of pEB2. The PCR product Telomere Capture URA3 pEB2 6548 bp Xho I TEL Cla I 500bp PCR product is cloned into Xho-I Site. Correct orientation has: CEN TEL Plasmid is linearised by digestion". The source is listed as "Library; public websites". A red circle highlights the word "cloning" in the search bar, and a red arrow points from it to another red circle highlighting the word "clone" in the snippet of the second result.

wellcome trust
sanger
institute

Sports Field
Car Park A
The Sulston Laboratories
Conference Centre
Residential Court

Search

cloning Search

Your query matches 6420 entries in the search database. Viewing hits 1-10

1 2 3 4 ... 97 98 99 100

Cloning
Cloning Hopefully, this will turn into a full fledged tool to recompute the physical map and assess its reliability. At present, it does very little. This option is not linked in release 1.4 Select project This will look for a binary file \$ACEDB_DATA/sulston/whatever_you_enter.bnd. if it does not exist the program will try

Source: AceDB; public websites

TAR CLONING:
two stages (see figure 1.): In the first stage a targeting vector is created, by cloning a 500bp PCR product into the Xho-I site of pEB2. The PCR product Telomere Capture URA3 pEB2 6548 bp Xho I TEL Cla I 500bp PCR product is cloned into Xho-I Site. Correct orientation has: CEN TEL Plasmid is linearised by digestion

Source: Library; public websites

S.scrofa

and also the name of the BAC from which each BES was produced. A BAC clone name e.g. CH242-196P11, provides a link to further information containing, where possible, as shown in the 'Pig BAC ends' track in human ensembl). d, porcine sequenced clone CH242-196P11 (CR956379) contains the porcine homologue to GNMT. e, pig clone map. f,

Source: WTSI; public websites

Source: Library; public websites

S.scrofa

and also the name of the BAC from which each BES was produced. A BAC clone name e.g. CH242-196P11, provides a link to further information containing, where possible, as shown in the 'Pig BAC ends' track in human ensembl). d, porcine sequenced clone CH242-196P11 (CR956379) which

Cross Language Information Retrieval

Exalabs Chromatik Constellations Exalead Light MiGet Sourcier Tweepz **Voxalead** Wikifier Feedback

All French English 中文 العربية Select sources

Show tags
Show Time Line


October 12 2009: ...参议院 军事委员会 主席 莱文 说在 **阿富汗** 制定 更好的 战略 以 增加...


August 25 2009: ...一些 宇宙 **阿富汗** 总统 大选 后 的 情势 受到 各方 高度 关切...


December 1 2009: ...美国 总统 奥巴马 公布 了 对 **阿富汗** 新政策 在 明年 夏天 之前 美国...


December 1 2009: ...好的 德林森 美国 总统 奥巴马 和 **阿富汗** 总统 卡尔扎伊 进行了...


December 1 2009: ...计划 于 日本 时间 明天 宣布 新的 **阿富汗** 战略 在 此 之前 他 一直 是...


November 30 2009: ...如果 是 有 好玩 得 更好 他们 有 什么样 都 **阿富汗** 恐怖 活动 他们 只...







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Spell Checker

The screenshot shows the Exalead search engine interface. At the top left is the Exalead logo with the tagline "Customize your homepage". Navigation links include "Web", "My PC", "Images", "Media", "Video", and "More". The search bar contains the text "animal sheltre". To the right of the search bar is a yellow "Web Search" button and a link for "Advanced search". The top right corner displays the email address "contact@exalead.com". Below the search bar, a blue bar indicates "Results 1-10 of about 284 for animal sheltre". Underneath, there are options for "All the web" and "Pages written in English". At the bottom of the search results area, it says "All results - Only recent results" and provides view options (list, grid, map). A red circle highlights the search input "animal sheltre". A red arrow points from this circle to another red circle that highlights a suggestion: "Did you mean: animal shelter". The word "shelter" in the suggestion is underlined.

Samples from Google N-gram corpus

- **Sample of the 3-gram data in this corpus:**

ceramics collectables collectibles	55
ceramics collectables fine	130
ceramics collected by	52
ceramics collectible pottery	50
ceramics collectibles cooking	45
ceramics collection ,	144
ceramics collection .	247
ceramics collection </S>	120
ceramics collection and	43
ceramics collection at	52
ceramics collection is	68
ceramics collection of	76
ceramics collection	59
ceramics collections ,	66
ceramics collections .	60
ceramics combined with	46

- **Sample of the 4-gram data in this corpus:**

serve as the incoming	92
serve as the incubator	99
serve as the independent	794
serve as the index	223
serve as the indication	72
serve as the indicator	120
serve as the indicators	45
serve as the indispensable	111
serve as the indispensable	40
serve as the individual	234
serve as the industrial	52
serve as the industry	607
serve as the info	42
serve as the informal	102
serve as the information	838
serve as the informational	41

```
<FastRulesDefinition xmlns="exa:com.exalead.mot.components.fastrules" catName="MyCategory" >
  <Category value="MachineLearning" >
    <Rule value="text:"clustering" AND (text:"algorithm" OR text:"analysis" OR text:"learning")" />
  </Category>
  <Category value="Hardware/Cluster" >
    <Rule value="text:"clustering" AND text:"load balancing" />
  </Category>
</FastRulesDefinition>
```

add a category to a document matching a compiled regular expression

100 000 queries with
boolean large multi word
expression matching
1 Mb / sec / server

FastRulesAdvantages

- Very fast rules categorization
- Support huge set of rules (> 100k rules)
- Regular expression on chunk (for example a regular expression on an url, title or text)
- Available as a standalone component (Exa and Java)

Drawbacks

- Limited syntax
(only AND/OR/NOT operators are supported)
- Rules must be compiled before usage

[Jones, G. et al. Non hierarchic document clustering](#) Willett Introduction Cluster **analysis**, or automatic classification, is a multivariate statistical technique ... henceforth a GA, for document **clustering**.
04 nov. 2003 - 20k

MyCategory: [MachineLearning](#)

Source : Vie société : Documentation : Press : Exalead EN-FR Press excerpts : Old - News Articles : Articles de recherche : NeuralNetworks :clustering

Personnalité :

Gareth Jones, Peter Willett, Edward Arnold, Van Nostrand Reinhold

Lieu :

Berlin, Duran, Sheffield, New York, London

Organisation :

British Library, Wellcome, Everitt, American Society, ACM, Springer

RulesMatcher, Named Entities



S'identifier ou créer un compte | Préférences

Web Images Vidéos **Wikipédia** Plus ▶

Michelle Obama

Rechercher

Recherche Avancée

Recherches associées : Michelle Obama Plante

Accueil > Résultats Wikipédia 1-10 de 301 pour Michelle Obama, Page 1 - Page suivante

Langue : Anglais



Michelle Obama

See also: **Michelle** Robinson's family tree [...] 2008 Presidential election Campaigning for Barack **Obama** [...] conservative columnist **Michelle** Malkin about ...
en.wikipedia.org/wiki/Michelle_Obama

En cache - Raccourci

Catégories : illinois democrats, women in illinois politics, plus...

Personnes : Oprah Winfrey, Maria Pinto, plus...

Organisations : AFL-CIO, Home Journal, plus...

Lieux : Illinois, Chicago, Illinois, plus...



Oprah Winfrey's endorsement of Barack Obama

Endorsing Barack **Obama** [...] vote for **Obama**, if only because they thought her endorsement made **Obama** more [...] "It made **Obama** more than a 'Black' candidate.

en.wikipedia.org/wiki/Oprah_Winfrey's_endorsement_of_Barack_Obama

En cache - Raccourci

Catégories : oprah winfrey, barack obama

Personnes : Oprah Winfrey, Andrew Pease, plus...

Organisations : Amazon.com, Democratic Party, plus...

Lieux : Illinois, Amarillo, Texas, plus...



Marian Shields Robinson

[...] Lady of the United States **Michelle Obama**. She is the mother-in-law of President Barack **Obama** and the only surviving grandparent of Malia and Sasha **Obama**.

en.wikipedia.org/wiki/Marian_Shields_Robinson

Catégorie Personne

Lieu Organisation

Chicago John McCain

german-americans

united states presiden...

United States First Lady

The New York Times

english americans

Hillary Clinton

Senator Barack Obama

Fox News Bill Clinton

George W. Bush

President George W. Bush

USA american television ac...

ing people 2008-2009

Am New York Times

grammy award winners

barack obama US NBC

american roman catholics U.S.

american film actors

Michelle Obama



SentimentAnalyzer



Search

Advanced Search



Blue Smoke

116 E 27th St, New York, NY 10016, USA

Phone: (212) 447-7733

Subway: 6 at 28th St

Website: <http://www.bluesmoke.com> - Book Online !

Kind of food: Barbecue, American, American Traditional, Southern & Soul, American (Traditional)

Overview

Comments

Menu

Overview

Review

«forget what the 'cue quibblers sayx97blue smoke is an ingenious manhattan barbecue joint with a woody barroom full of red-vinyl booths, a skylit dining room, and a hot jazz club downstairs. true, some of the barbecue isn't there yet, but each visit shows improvement, as pit master kenny callaghan breaks in those missouri-made smokers. salt-and-pepper beef ribs are terrific, so are sides and desserts, and as far as pit-smoked foie gras and salmon goes, what's the problem? this ain't east treestump, texas, after all.»

Most viewed comment

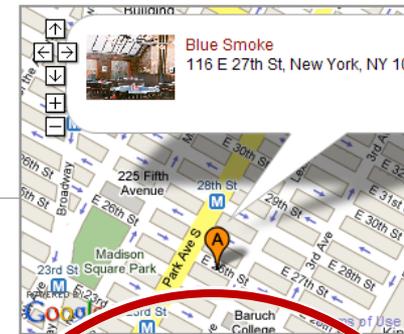
«Went to Blue Smoke tonight. The waitstaff was friendly, even if the last sip of my beer was whisked away without so much as an Are you finished with that? Had the baby back ribs, with a side of fries, mac & cheese and hush-puppies. The remoulade that comes with the hush-puppies makes this dish a real specialty. The mac & cheese was creamy, to put it mildly; very tasty, but for the hint of chemically Velvita-esque after-taste. The fries - excellent: they arrived fresh, hot, with a crispy exterior (no batter on these little critters) and with the genuine taste of potato without t... More >>

Bloggers entries about Blue Smoke

- Restaurant Week '08: Chase Away the Blues At Blue Smoke (*New York City's Hottest Restaurant Deals*)
- Summer Restaurant Week 2007 Pick: Blue Smoke (*New York City's Hottest Restaurant Deals*)
- Hill Country to Challenge Blue Smoke, RUB on Their Own Turf (*Grub Street*)
- Restaurant Week Picks: Winter 2008 (Part 2) (*New York City's Hottest Restaurant Deals*)
- The Big Apple BBQ Block Party Demands a Lot From Its Vendors (*Grub Street*)
- Meyer Makes a Move on Citi Field (*Grub Street*)
- Robbie Richter and Hill Country Part Ways (*Grub Street*)
- B.R. Guest's New BBQ: Will Wildwood Succeed? (*Grub Street*)
- Heroic Blogger Saves Burger Lovers From Winter of Discontent (*Grub Street*)
- Profiled: Midtown Lunch'er "Vanessa" (& Big Apple BBQ Fast Pass Giveaway!) (*Midtown Lunch*)
- PROFILE: Midtown Lunch'er "Chris" (*Midtown Lunch*)
- Daisy May's BBQ Carl... the best-scratch that- ONLY BBQ in Midtown (*Midtown Lunch*)

Details

Payment options: AMEX, Diners Club, Discover, MasterCard, Visa



From New York Magazin

People sentiments

reasonable okay spicy inspired hot baked
cheap habitual overpriced juicy hard grilled
bizarre famous impressed boiled impressive airy
amazing consistent negative expensive superb
efficient endless tiny meaty base salty available
genuine cute typical picky yummy

good popular outer tasteless

rude serious spacious unacceptable interesting
pretty incredible obscene lukewarm low
comfortable pricey saucy boring OK stellar
impeccable affordable disgusted quality sorry
unbelievable vinegary returning small cleared
delicious barbecued excited refreshing usable
nasty traditional polite scrawny exceptional
tasty ridiculous huge fond

Open

From New York Magazine

10am 11pm
11am 11pm
11pm

11am



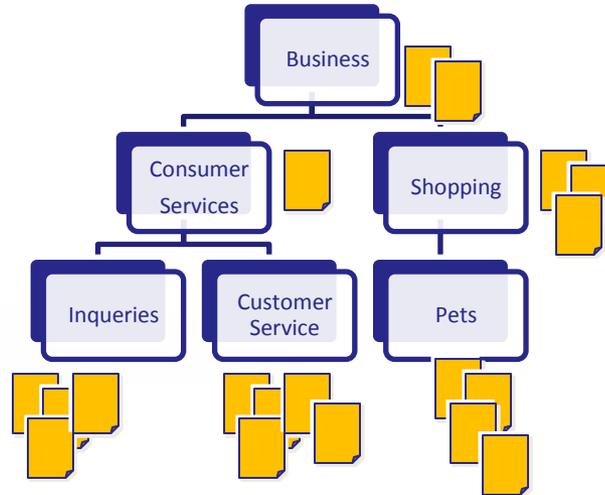
exalead®



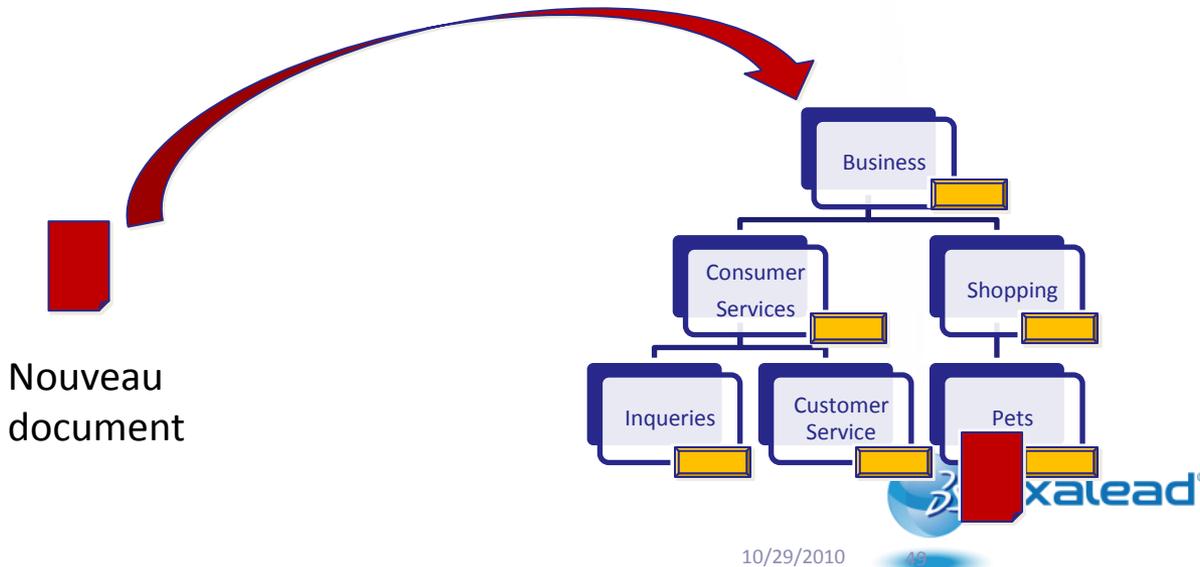
Categorizer

Directory

- 📁 [Business and Economy](#) exclude
- 📁 [Consumer Goods and Services](#) exclude
- 📁 [Shopping](#) exclude
- 📁 [Shopping](#) exclude
- 📁 [Pets](#) exclude
- 📁 [Recreation and Sports](#) exclude
- 📁 [Pets](#) exclude
- 📁 [Society and Culture](#) exclude



Documents
D'apprentissage

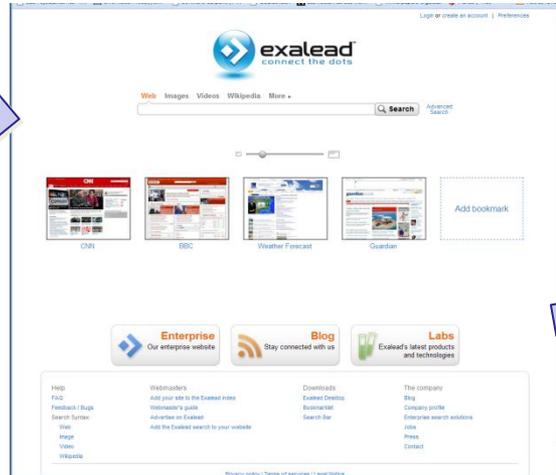


Signature
de la classe

Semantics Processes in a Search Engine

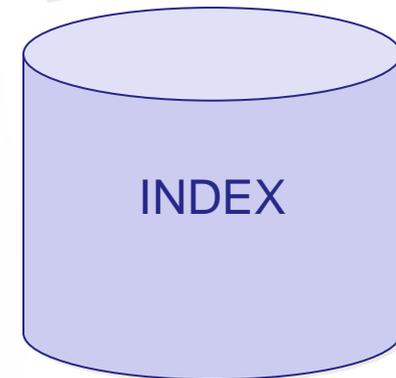


autosuggestion
language identification
related terms
related queries
spell checker
faceted search
local search

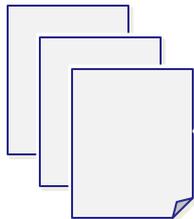


lemmatisation
synonyms
phonetic
cross language
Ontology Matcher

phonetic
lemmatisation
synonyms
stopwords
sentiment analysis
named entity



Data Sources



QueryMatcher
FastRules
HTMLRelevantContextExtractor
Categorizer
Clusterer

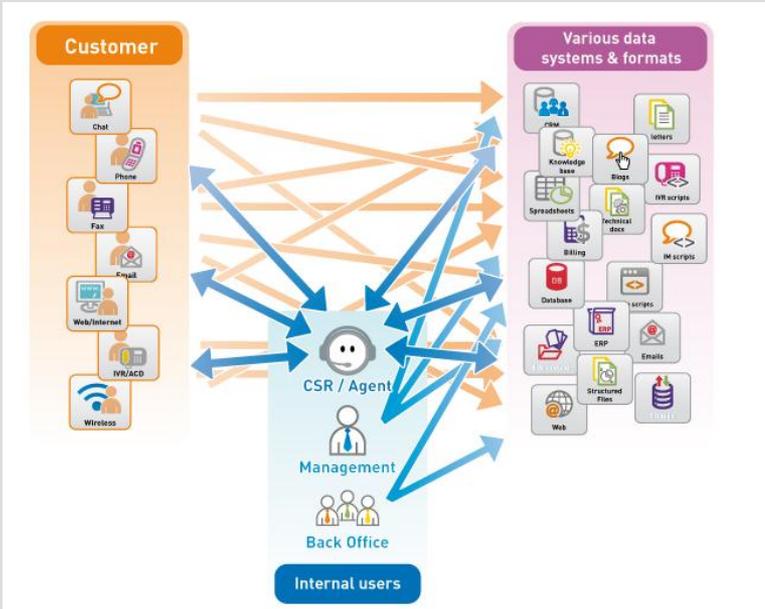


-
- **With documents as containers**
 - **With rich semantic markup**
 - **With database offloading**
 - database queries generating documents
 - **Search engines can become part of a process**

Search Based Applications

Search-Based Applications

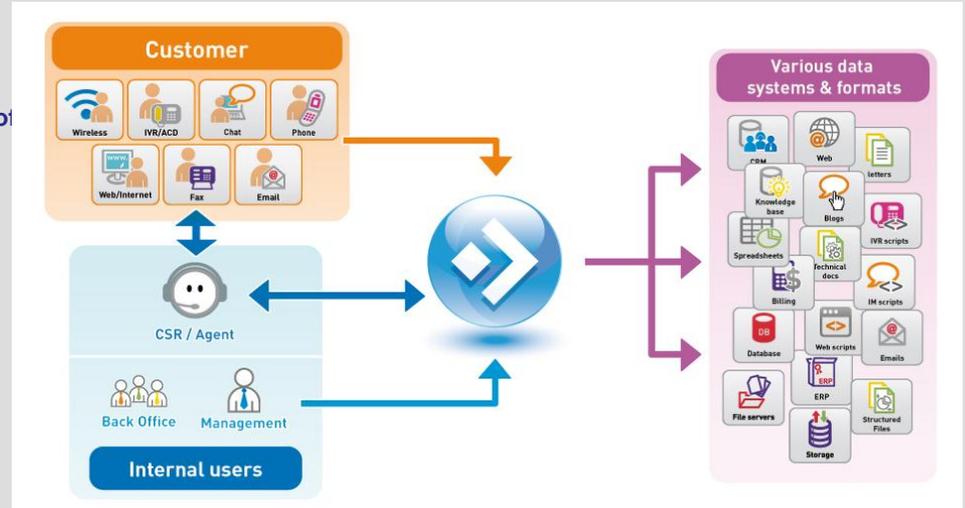
Search Engines can provide a powerful search-based infrastructure...



Without Offloading

High complexity/costs, Low performance/reusability

ation of

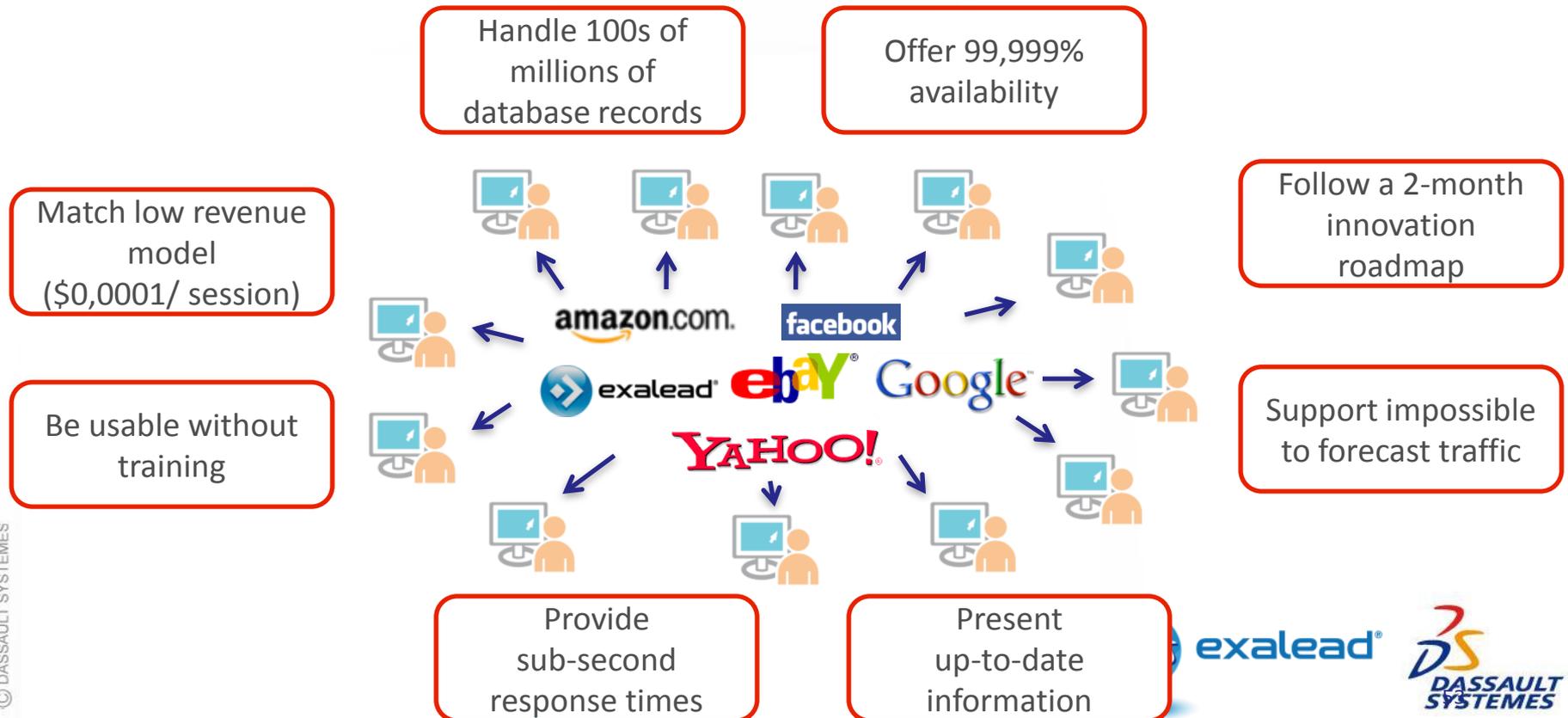


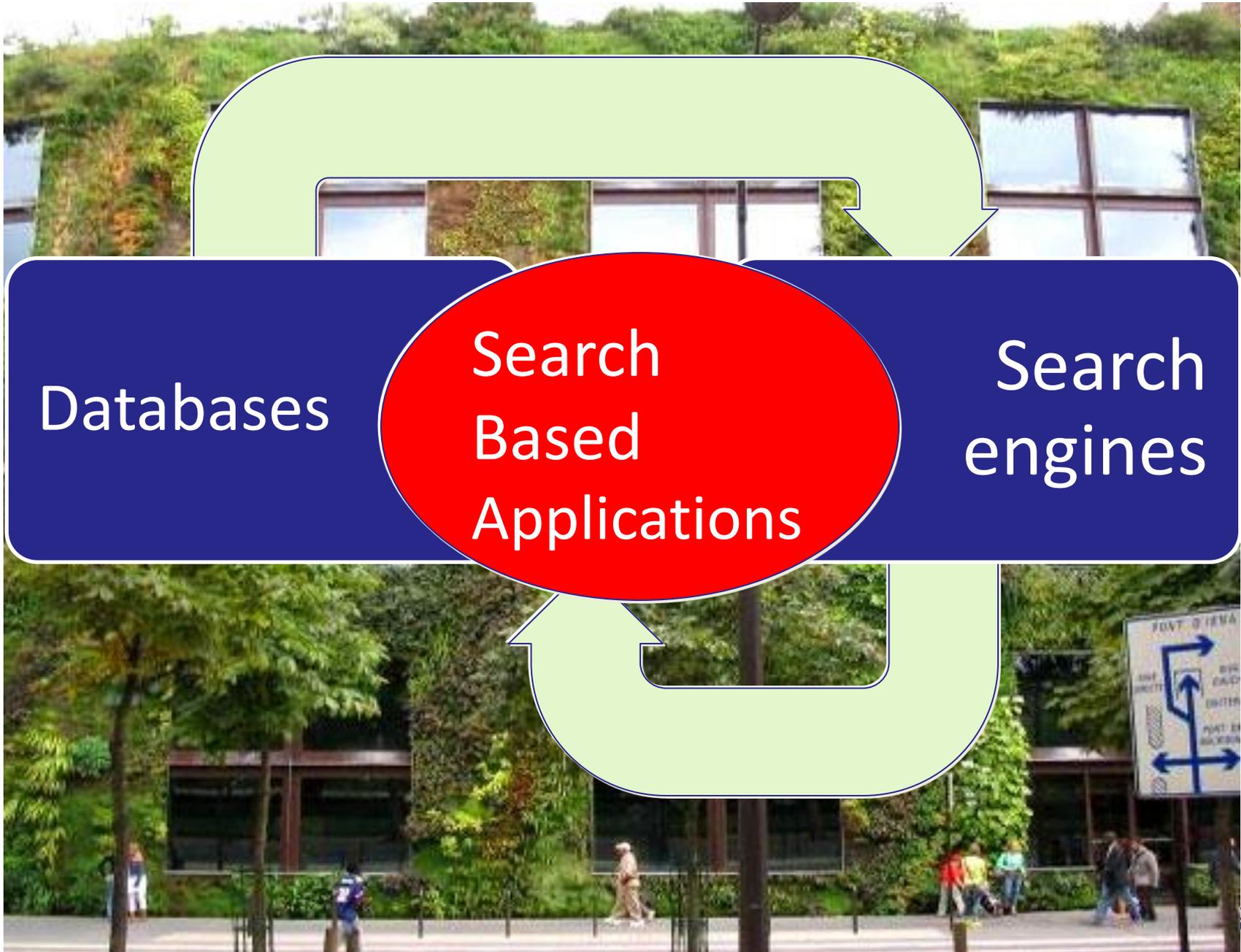
With Offloading

Low complexity/costs, High performance/reusability

Affordance of Search Engines

Web Search Technology has evolved over the past decade to perfect distribution of information





Databases

Search
Based
Applications

Search
engines

Transfer from research to industry

SEMANTICS SUCCESS STORIES



Named Entities

"Named entities are phrases that contain the names of persons, organizations, locations, times, and quantities." (CoNLL 2002)

- MUC 1 (1987) thru MUC 6 (1995)

`<ENAMEX TYPE="PERSON">Jim</ENAMEX>`

bought

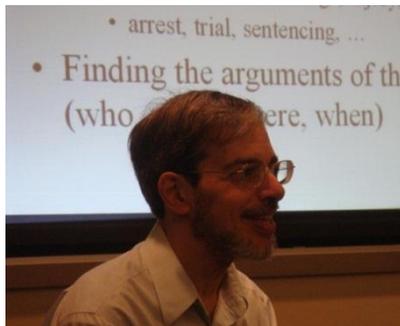
`<NUMEX TYPE="QUANTITY">300</NUMEX>`

shares of

`<ENAMEX TYPE="ORGANIZATION">Acme Corp.</ENAMEX>`

in

`<TIMEX TYPE="DATE">2006</TIMEX>`.



<http://cs.nyu.edu/cs/faculty/grishman/>

```
<DOC>
<DOCID> wsj94_008_0212 </DOCID>
<DOCNO> 940413-0062. </DOCNO>
<HL> Who's News:
@ Burns Fry Ltd. </HL>
<DD> 04/13/94 </DD>
<SO> WALL STREET JOURNAL (J), PAGE B10 </SO>
<CO> MER </CO>
<IN> SECURITIES (SCR) </IN>
<TXT>
<p>
Burns Fry Ltd. (Toronto) -- Donald Wright, 46 years old, was
named executive vice president and director of fixed income at this
brokerage firm. Mr. Wright resigned as president of Merrill Lynch
Canada Inc., a unit of Merrill Lynch & Co., to succeed Mark
Kassirer, 48, who left Burns Fry last month. A Merrill Lynch
spokesman said it hasn't named a successor to Mr. Wright, who is
expected to begin his new position by the end of the month.
</p>
</TXT>
</DOC>
```

Dismiss

Colour key: All date location organization person

Voxalead



All
 Français
 English
 中文
 العربية
 español
 Русский
 [Select sources](#)

Latest News



Last day Last week Last month





All Français English 中文 العربية español Русский [Select sources](#)

Video [\(un\)select all](#)

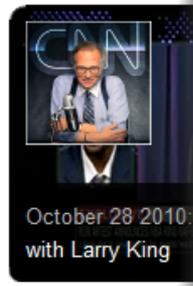
- ABC News (0)
- AFP EN (0)
- AFP ES (0)
- AFP FR (0)
- Al Jazeera (0)
- Al Jazeera EN (0)
- BBC RU (0)
- BFM (0)
- CBS News (0)
- CNN (0)
- Fareed Zakaria GPS (0)
- Larry King Live (0)
- Euronews (0)
- Euronews ES (0)
- Euronews RU (0)
- France 24 0) العربية (الحرية)
- France 24 English (0)

- France 24 Français (0)
- ITN News (0)
- LCI (0)
- L'Equipe (0)
- Le Monde (0)
- M6 (0)
- Nightly News (0)
- Countdown (0)
- Meet the Press (0)
- Morning Joe (0)
- The Rachel Maddow Show (0)
- Russia Today (0)
- Russia Today AR (0)
- Russia Today ES (0)
- Voices Of America (0)
- iTele (0)

Radio [\(un\)select all](#)

- BBC News Africa (0)
- BBC News Business (0)
- BBC News World (0)
- CNN News (0)
- Europe 1 (0)
- Hardball with Chris Matthews (0)
- NHK 0) العربية (0)
- NHK 中文 (0)
- RFA (0)

[Apply changes](#)



Abbey Al Qasbi

Carly Fiorina Ch...

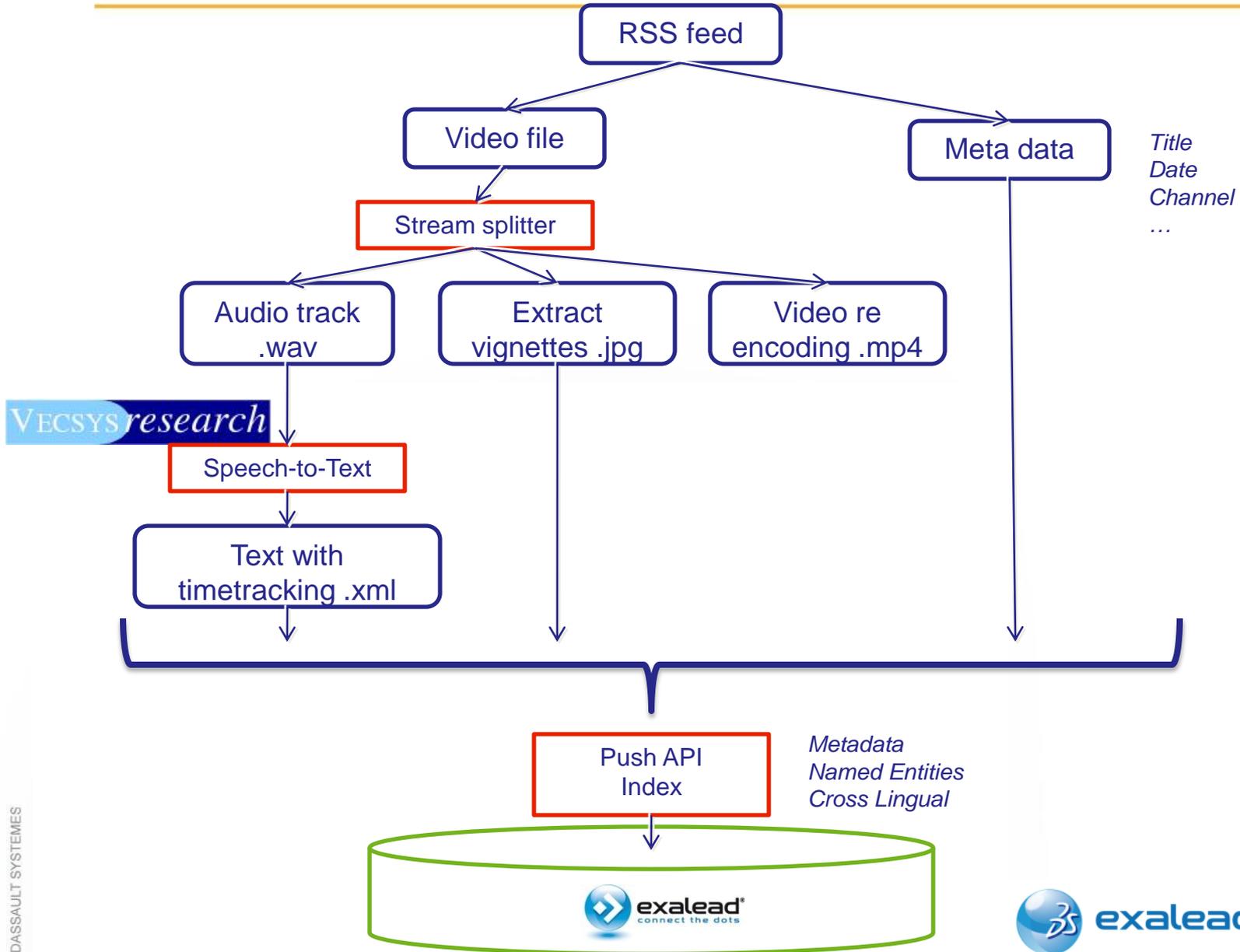
Harry Reid Illinois India Indiana Indonesia Iraq Island Israel Jack Conway Jerry Brown Jersey Joe Mellor Joe Miller

John Karl John Miller John Stewart Justice Department Kentucky Lisa Murkowski London Marco Rubio Maria Shriver Meg Whitman Michael Bennett

Michigan Mitch McConnell Mohamed Abdillahi Mohammed Morris Nancy Nevada New York North Carolina Pakistan

President Obama Republican Russia Supreme Court UK

VoxaleadNews Methodology



VECSYS research

Latest News



Last day Last week Last month

People	Organization	Location
Afghanistan Air France Airbus Al-Qaïda	Alain Acco Alcatel Argentine Aston Martin	Ben Laden Bernard Kouchner
Bernard Thibault	Bernard Thibault de la Cgt Brice Hortefeux Bruxelles Brésil CFDT CGT	CSA Cac 40 Christian Estrosi
Claude Puel	Clichy Conseil constitutionnel Donges EDF Edwy Plenel	Europe Fos François Baroin François Chérèque
François Coulon François Fillon	G20 Hervé Morin ISF Indonésie Insee	Jean-Claude Mailly Jean-Louis Borloo Le Sénat
Lyon	Marseille Martine Aubry	Milly
Monaco	Montpellier	Nestor Kirchner
	Nicolas Sarkozy	Niger
		OTAN
		Olivier Samain
		Orly



All Français English 中文 العربية español Русский [Select sources](#)

Latest News

NHK WORLD
CH

October 28 2010: NHK WORLD RADIO JAPAN - Chinese News at 21:00 (JST), October 28

RFA

October 28 2010: Voices of People Thursday Oct 28 2010 03:00

RFA

October 27 2010: Asia-Pacific Report Wednesday Oct 27 2010 23:07

VOA

October 27 2010: 2010-10-27 时事大家谈(1/4): 中国经济发展模式转型能否成功? 2010-10-27 18:00

Last day Last week Last month

People	Organization	Location
上海 东亚 中国 亚洲 公民 北京 印尼 台湾 合作 山东 巴黎 广东 广州 德国 新航 日本 欧洲 江西 法国 消防		
	深圳 湖南 美国 西藏 越南 重庆 非洲 香港	





Toyota



All Français English 中文 العربية español Русский Select sources

Show tags
Hide Time Line

Numbers of quotation

week of Oct 23, 2009 - week of Oct 22, 2010



Custom period: 2009-10-23 - 2010-10-22

Zoom: 10D 1M 3M 1Y YTD MAX

Video player with news snippet: October 22 2010: ...new face of the Republican party . We call from Toyota . What's the problem . This time it's a...

Video player with news snippet: October 22 2010: ...tonight chip thanks very much . In other news , Toyota has hit another bump in the road ,...

Video player with news snippet: October 22 2010: Nine others were injured in the blast . Toyota has announced a recall of more than 1.6...



« Return to results



6 days ago.

In this video :

People	Organization	Location
AIG	Acura	Bahama
Barack Obama	Bob Gucci Gianni	Brian Tom Costello
Brian Williams	CNBC	California
Chris Christie	Chris Jansing Nbc	FORD
FOX	Fannie Mae	Fox News
Freddie Mac	Gucci	Guinea
Helen Thomas Jefferson	Honda	Hudson
Hudson River	Hugh Hefner	Illinois
Iowa	Jersey	Juan Williams
Laura Schlessinger	Lexus	MSN
Massachusetts	Mexico	Michael Isikoff
Mike Huckabee	NASA	New Jersey
New York	New York Times	News West
Ohio	Pennsylvania	Playboy
President Obama	Republican	
Rick Sanchez	Rome	San Diego
Sarah Palin	Scotch Plains	Springfield
Springfield , Massachusetts		
Supreme Court	Tokyo	Tom Costello

Toyota



All
 Français
 English
 中文
 العربية
 español
 Русский
 [Select sources](#)



On the broadcast tonight , politics and what's different this year . Hidden fortune being funneled into campaigns and is this the new face of the Republican party . We call from Toyota . What's the problem . This time it's a prominent media figure fired for what he said on the air . Is it fair punishment or political correctness gone and houses of worship . Americans finding a place to pray right in their own backyard . Also tonight something very exciting on the moon and lots of the nightly news begins now ..

More news in New York this is NBC nightly News with Brian Williams.

Good evening . We are just 12 days away now from what could be a game changing election and tonight we have exclusive news information about the economy as a result of a new kind of event

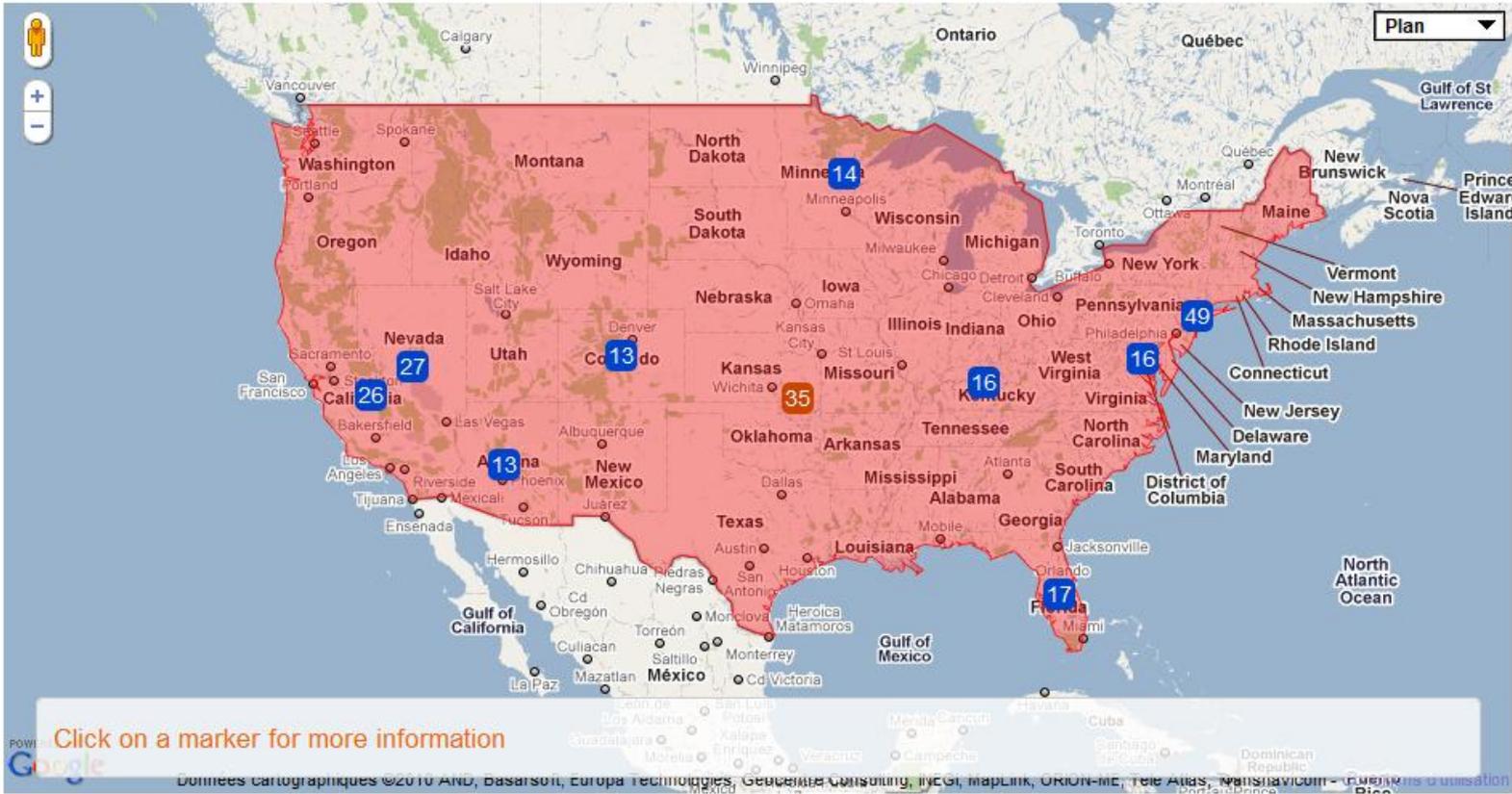


UK "tea party"

Search

select sources
translate query

141 results. [Map icon] [List icon] [Layers icon] [Fullscreen icon] [Print icon]



Accueil > Médiathèque > Vidéos > 2008 > Aout

ours sur le thème de la généralisation du Revenu de Solidarité Active

Vidéos Photos



- Partager
- Twitter
- Facebook
- MySpace
- Yahoo Buzz
- Delicious
- Digg
- Technorati
- Email
- URL
- Embed
- Retrouver sur
- Toutes les vidéos

Revenu de Solidarité Active
Mayenne - 28 août 2008

00:02

...après avoir organisé le **bouclier** fiscal pour qu'aucun ... [24:01.1]
 ...en sorte que le **bouclier** fiscal soit désormais ... [24:09.4]
 ...de la logique du **bouclier** fiscal en le ... [24:21.2]
 ...contribution sera dans le **bouclier** fiscal ou pas. ... [24:33.5]
 ...qu'elle soit dans le **bouclier**, mais on en ... [24:39.1]

FRANCE 24 HD LIVE PLAYER



ROYAUME-UNI : Prendre début travaux entre les leaders des 3 principaux partis

09H11 LIVE

Le journal Rappel des titres Météo Culture Sur le net Rappel des Météo

+ LOIN SCRIPT FACEBOOK

France 24 (France24)
Rumeurs sur le couple Sarkozy: assignée par Biolley, France 24 brandit le droit à l'info

France 24 (France24)
SUR FRANCE 24: Rome réaffirme son soutien à l'adhésion de la Turquie à l'UE

France 24 (France24)
Rumeurs sur le couple Sarkozy: Benjamin Biolley assigne France 24

maison blanche, France 24 (Rfi)
L'ATELIER DES MEDIAS: 2 Média du Monde + les observateurs de France 24

maison blanche, France 24 (Rfi)
L'ATELIER DES MEDIAS: 2 Média du Monde + les observateurs de France 24

maison blanche, France 24 (France24)
Pèques, les Obama ouvrent les portes de la Maison Blanche à 30.000 personnes

ais, France 24 (France24)
Rumeurs sur le couple Sarkozy: assignée par Biolley, France 24 brandit le droit à l'info

ais, France 24 (France24)
SUR FRANCE 24: Rome réaffirme son soutien à l'adhésion de la Turquie à l'UE

yacast FRANCE 24

exalead Veeva MMSI

Transfer from research to industry

SEMANTICS SUCCESS STORY 2



Topic Segmentation

Sentence:	05	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
14 form	1	111	1	1						1 1	1	1	1	1	1	1	1		
8 scientist				11			1	1			1		1	1	1				
5 space	11	1	1												1				
25 star	1			1								11 22	111112	1 1 1	11 1111				1
5 binary												11 1		1					1
4 trinary												1 1		1					1
8 astronomer	1			1								1 1		1	1	1 1			
7 orbit	1				1								12	1 1					
6 pull					2		1 1							1 1					
16 planet	1	1		11			1		1				21	11111				1	1
7 galaxy	1											1			1 11	1			1
4 lunar			1 1	1		1													
19 life	1 1 1							1	11 1	11 1	1	1				1 1	1 111	1 1	
27 moon		13	1111	1 1	22 21	21	21			11 1									
3 move								1	1 1	1									
7 continent								2	1 1 2 1										
3 shoreline									12										
6 time					1			1	1 1	1	1								1
3 water							11			1									
6 say							1 1		1		11			1					
3 species								1	1 1	1									

Figure 2: Distribution of selected terms from the *Stargazer* text, with a single digit frequency per sentence number (blanks indicate a frequency of zero).

<http://people.ischool.berkeley.edu/~hearst/papers/acl94.pdf>

Topic Segmentation

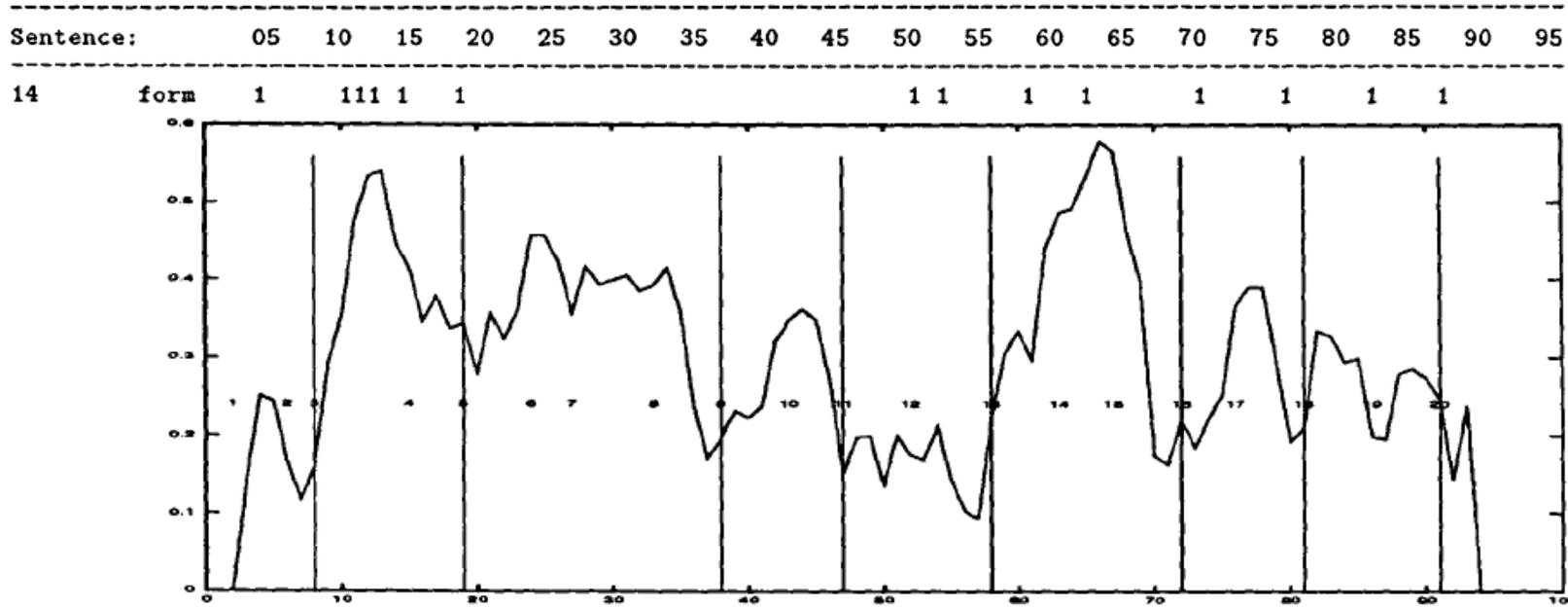


Figure 4: Results of the block similarity algorithm on the *Stargazer* text. Internal numbers indicate paragraph numbers. x-axis indicates token sequence (see number, y-axis indicates similarity between blocks centered at the

Sentence:	05	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
-----------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

tribution of selected terms from the *Stargazer* text, with a single digit frequency per sentence number (a frequency of zero).

<http://people.ischool.berkeley.edu/~hearst/papers/acl94.pdf>



Professor Marti Hearst

Text segmentation in practice

vox.labs.exalead.com/voxalead/video/zbGwN_xBlk1Z_part_2/?translated_query=×pan=all&l=en&translation_language=&q="tea+party"&r=&lr=&mode=l

ents

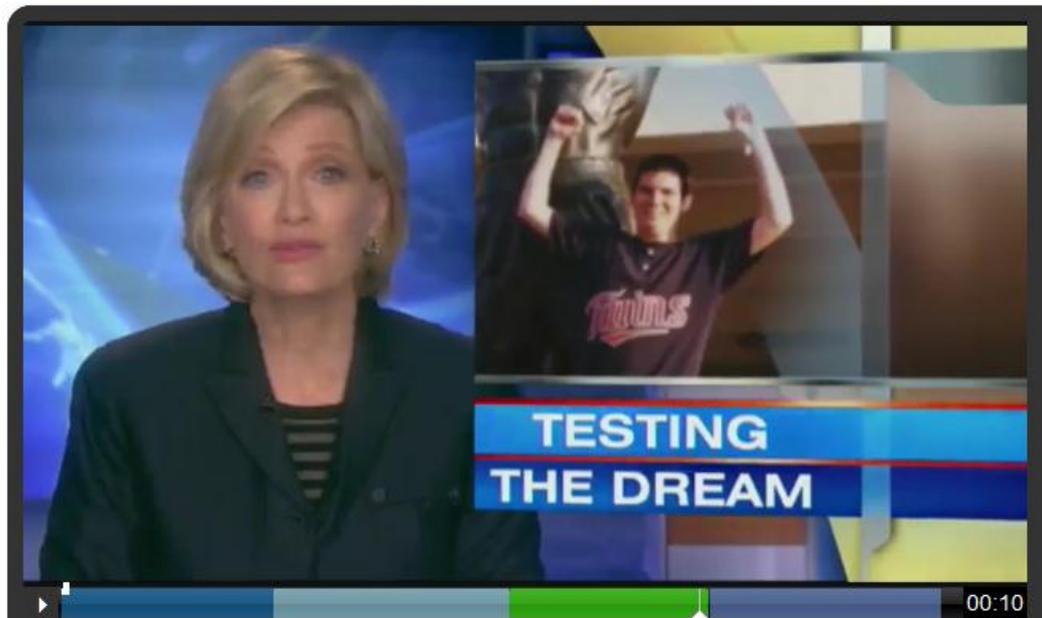


 "tea party"

Search

[select sources](#)
[translate query](#)

"tea party" > ABC World News with Diane Sawyer



- Lindsey Davis
- Jerry Brown
- Greenpeace
- California
- New York

Summaries

Transcription

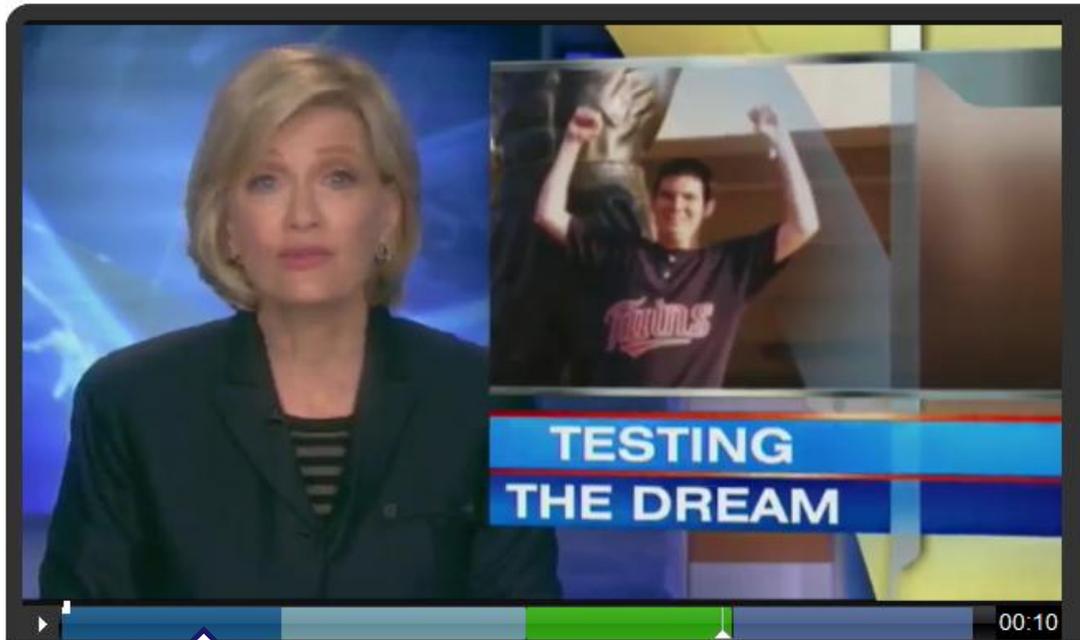
She was fitted with a prosthetic nose like the kind they use in the movies for special effects . She puts it on herself with a special skin that he's at each morning , a kind of preview of what the surgery will make

when she on the bed comfort . It was a benefit for the Grossman burn Foundation and the surgeons will operate on her for 3 he you should have

for the favorite musician one in that former first Lady Laura Bush

it was like California first Lady Muslim and

"tea party" > ABC World News with Diane Sawyer



"tea party" 

- Lindsey Davis
- Jerry Brown
- Greenpeace
- California
- New York

↑
rescue, man, capsule, first

Summaries Transcription

She was fitted with a prosthetic nose like the kind they use in the movies for special effects . She puts it on herself with a special skin that he's at each morning , a kind of preview of what the surgery will make

when she on the bed comfort . It was a benefit for the Grossman burn Foundation and the surgeons will operate on her for 3 he you should have

for the favorite musician one in that former first Lady Laura Bush

it was like California first Lady Muslim and

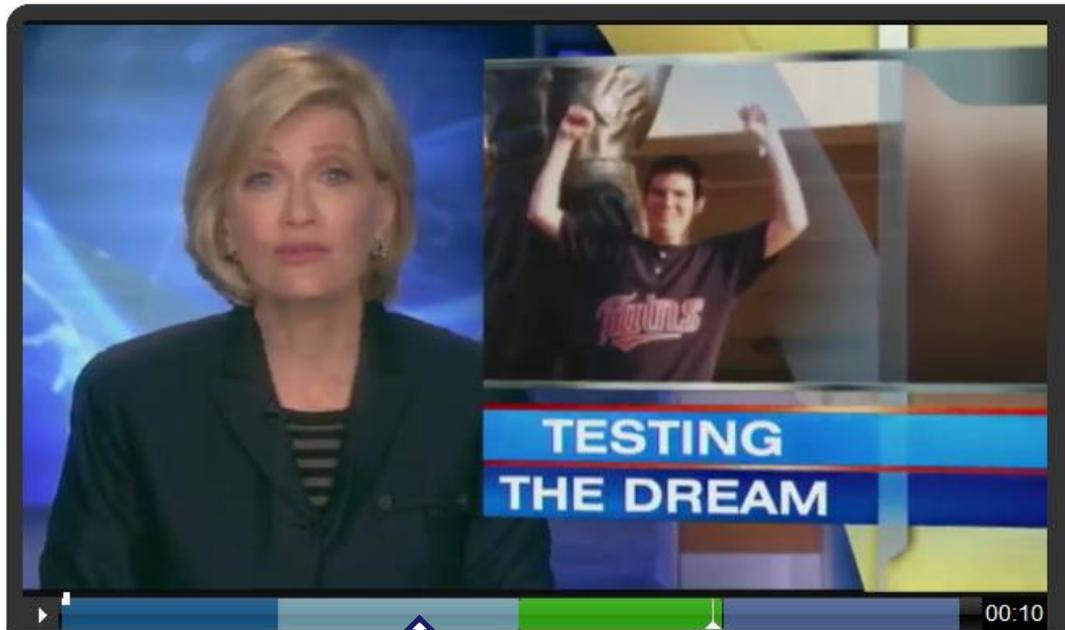


UK "tea party"

Search

select sources
translate query

"tea party" > ABC World News with Diane Sawyer



"tea party" 🔍

- Lindsey Davis
- Jerry Brown
- Greenpeace
- California
- New York

↑
human, cell, first, stem

Summaries

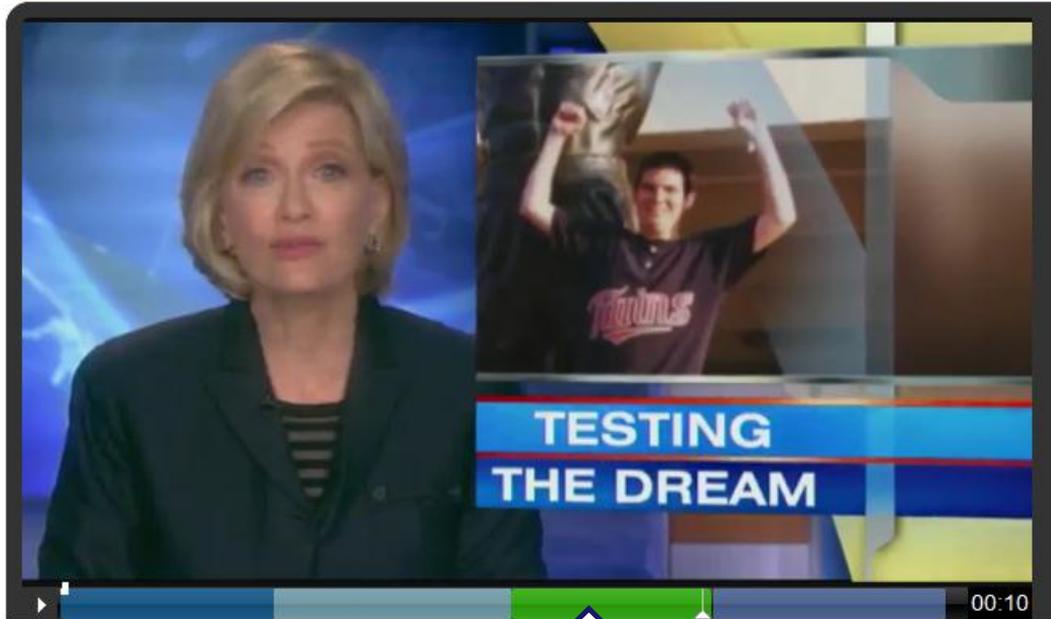
Transcription

She was fitted with a prosthetic nose like the kind they use in the movies for special effects . She puts it on herself with a special skin that he's at each morning , a kind of preview of what the surgery will make

when she on the bed comfort . It was a benefit for the Grossman burn Foundation and the surgeons will operate on her for 3 he you should have

for the favorite musician one in that former first Lady Laura Bush

it was like California first Lady Muslim and



"tea party" 🔍

- Lindsey Davis
- Jerry Brown
- Greenpeace
- California
- New York



money, foreign, chamber

Summaries

Transcription

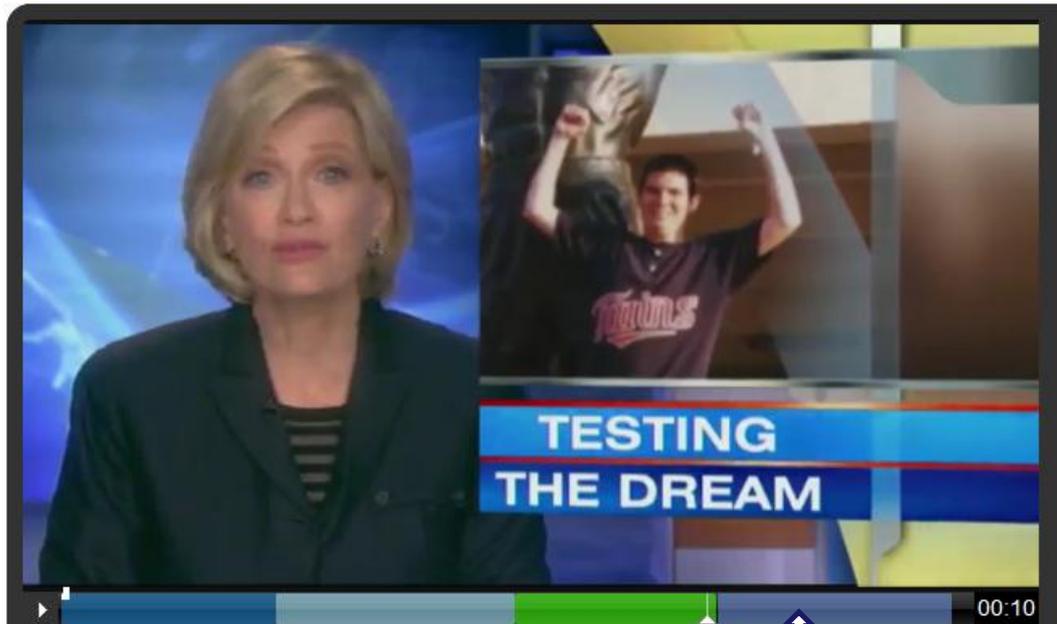
She was fitted with a prosthetic nose like the kind they use in the movies for special effects . She puts it on herself with a special skin that he's at each morning , a kind of preview of what the surgery will make

when she on the bed comfort . It was a benefit for the Grossman burn Foundation and the surgeons will operate on her for 3 he you should have

for the favorite musician one in that former first Lady Laura Bush

it was like California first Lady Muslim and

"tea party" > ABC World News with Diane Sawyer



"tea party"

- Lindsey Davis
- Jerry Brown
- Greenpeace
- California
- New York

first, Kim

Summaries

Transcription

She was fitted with a prosthetic nose like the kind they use in the movies for special effects . She puts it on herself with a special skin that he's at each morning , a kind of preview of what the surgery will make

when she on the bed comfort . It was a benefit for the Grossman burn Foundation and the surgeons will operate on her for 3 he you should have

for the favorite musician one in that former first Lady Laura Bush

it was like California first I adv Muslim and

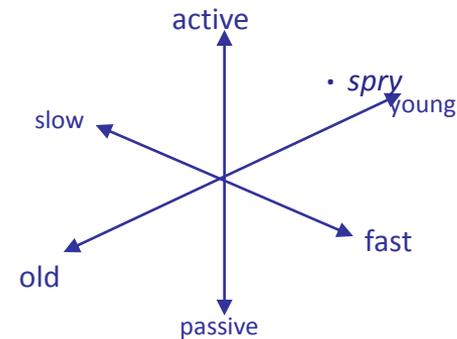
Transfer from research to industry

SEMANTICS SUCCESS STORY 3

Brief History of Semantic Fields and Affect Analysis

- **Deese (1965) semantic axes**

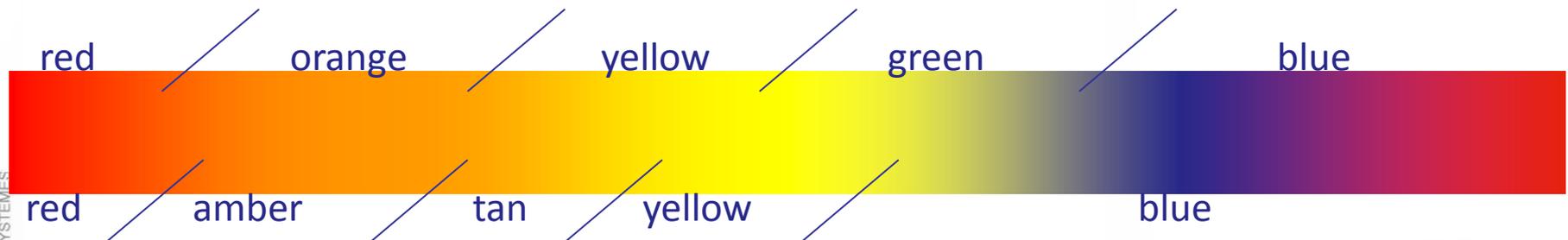
- free association experiments
- “big-small”, “hot-cold”, etc.



- **Berlin & Kay (1969) Lehrer (1974) semantic fields**

- **Levinson (1983) linguistic scale**

- set of alternate or contrastive expressions
- arranged on an axis by degree of semantic strength



Affect Lexicons

- **Lasswell Value Dictionary (1969)**

- Eight dimensions:

- WEALTH, POWER, RECTITUDE, RESPECT, ENLIGHTENMENT, SKILL, AFFECTION, AND WELLBEING with *positive* or *negative* orientation
- e.g., *admire*: RESPECT (*positive*)

- **General Inquirer dictionary (Stone, et al. 1965) 9051 headwords**

- 1,915 positive and 2,291 negative words (Pos/Neg)
- also labels: Active, Passive, ... , Pleasure, Pain, ...Human, Animate, ..., Region, Route, ..., Fetch, Stay, ..

<http://www.wjh.harvard.edu/~inquirer/inqdict.txt>

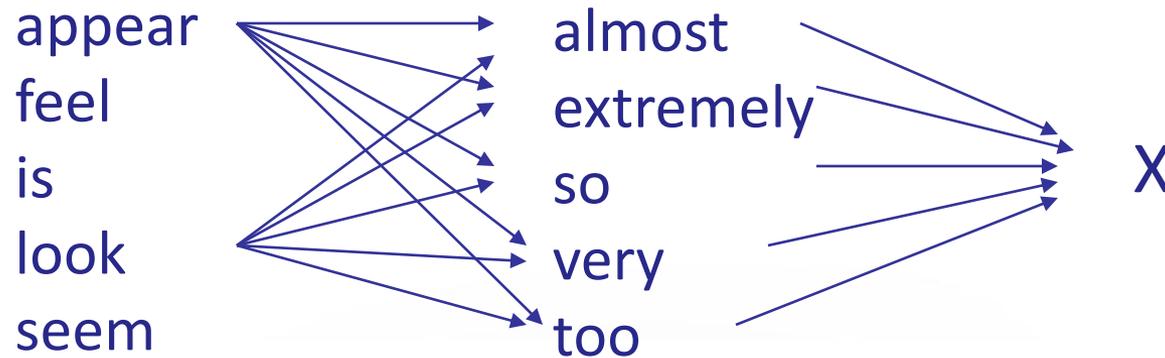
Clairvoyance Affect Lexicon

<lexical entry> <POS> <class> <centrality> <intensity>

"arrogance"	sn	"superiority"	0.7	0.9
..				
"gleeful"	adj	"happiness"	0.7	0.6
"gleeful"	adj	"excitement"	0.3	0.6
...				

84 pair affect classes (positive/negative)

Finding Emotive Words using Patterns



“appearing so ...”

“feeling extremely...”

“was too...”

“looks almost....”

105 patterns with conjugated word forms

Most Common Words from All Patterns

- **Using snippets from all 105 patterns:**

- 8957 good
- 2906 important
- 2506 happy
- 2455 small
- 2024 bad
- 1976 easy
- 1951 far
- 1745 difficult
- 1697 hard
- 1563 pleased

... in all 15111 different, inflected word

SO-PMI of emotive pattern words

37.5	knowlegeable
33.6	tailormade
32.9	eyecatching
29.0	huggable
26.2	surefooted
24.6	timesaving
22.9	personable
21.9	welldone

-17.1	underdressed
-17.5	uncreative
-18.1	disapproving
-18.5	meanspirited
-18.6	unwatchable
-22.7	discombobulated



Mood of a city

URBANIZER.com



View your city's mood 

Français



BETA

urbanizer for iPhone

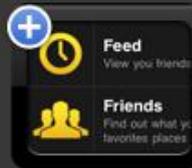
Discover your city by mood!

Urbanizer is an innovative interactive application that recommends places in your city based on mood. Whether you are planning a romantic dinner, or an evening out with friends, Urbanizer will help you discover the perfect place that suits the mood.

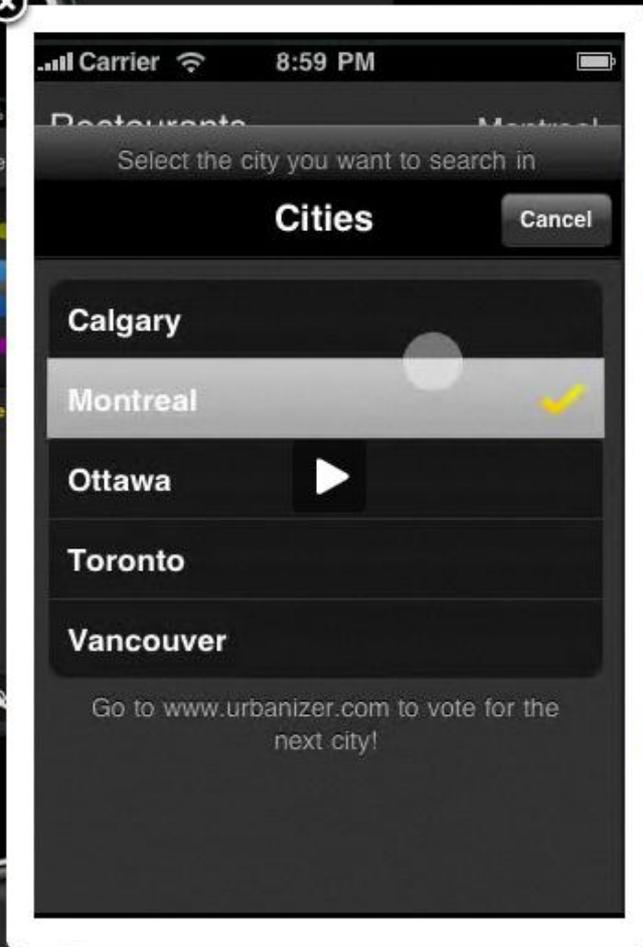
FREE



Vote for your city, enter your email, select city and vote :



Urbanizer is powered by  YellowPages.



View your city's mood



Français

Urbanizer for iPhone

View your mood!

An interactive application that recommends restaurants on mood. Whether you are planning a business meeting, hanging out with friends, Urbanizer will help you find the place that suits the mood.

Sign up with your email, select city and vote :

Select City [dropdown] [Vote]

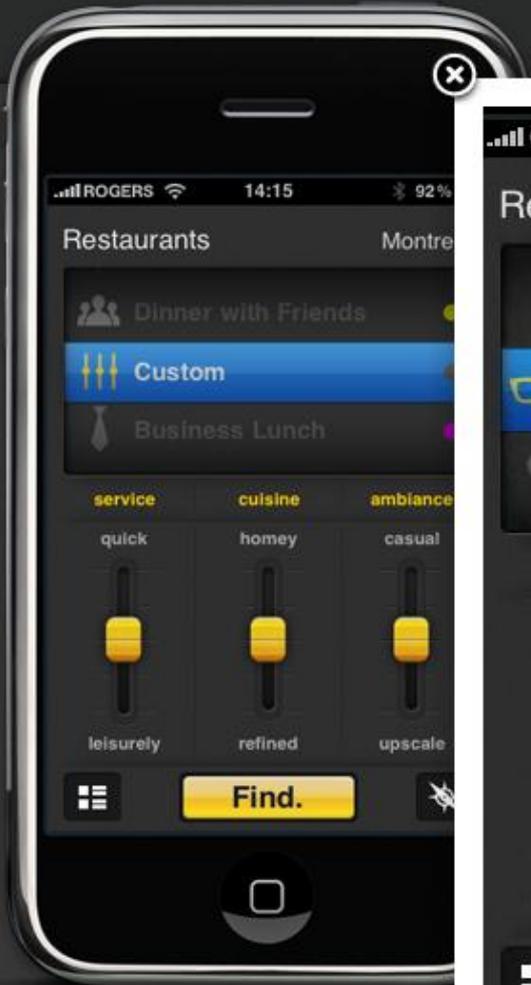
+ Mood Tags

+ Friends

+ Reviews

+ 13. Restaurant Strc
1019, avenue Du Mont-
+ 14. Taj Restaurant
2077, Rue Stanley, Mon

Urbanizer is powered by YellowPages.



View your city's mood



Français

Urbanizer for iPhone

View your mood!

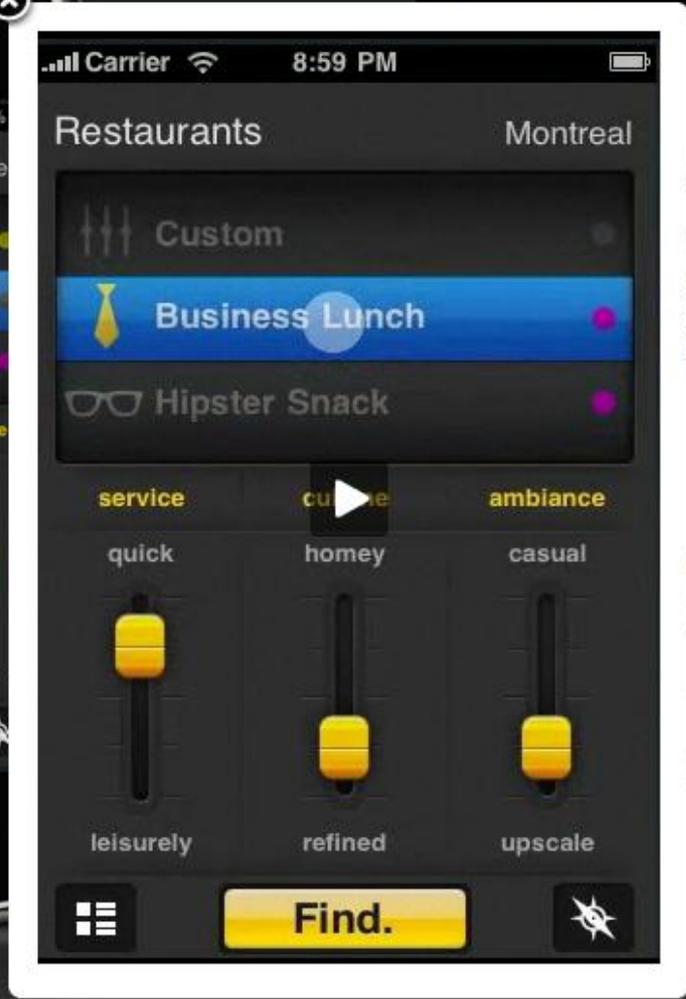
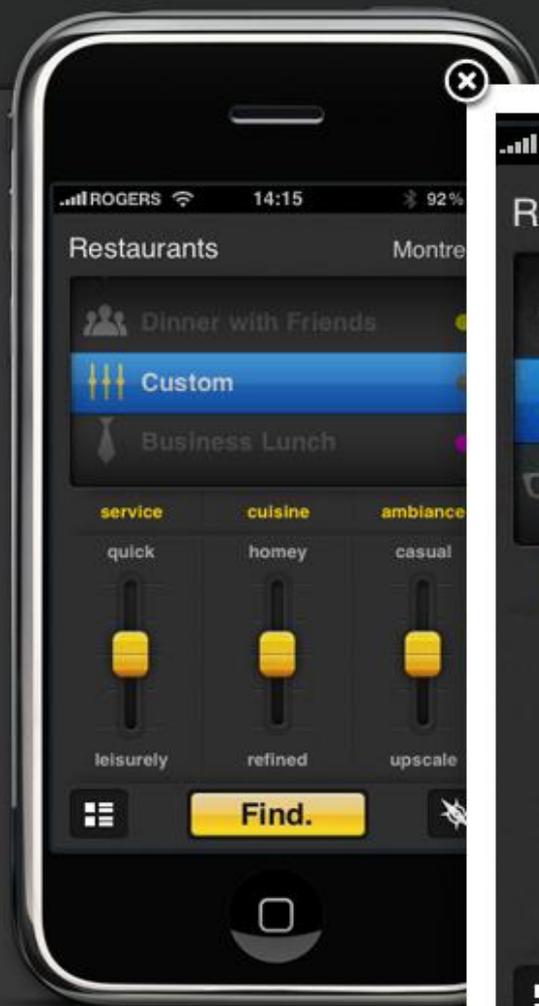
The interactive application that recommends restaurants on mood. Whether you are planning a dinner out with friends, Urbanizer will help you find the place that suits the mood.

Sign up with your email, select city and vote :

Select City

- + Mood Tags
- + Friends
- + Reviews
- + 13. Restaurant Strc
1018, avenue Du Mont-
- + 14. Taj Restaurant
2077, Rue Stanley, Mon

Urbanizer is powered by YellowPages.



View your city's mood



Français

Urbanizer for iPhone

Know your mood!

An interactive application that recommends restaurants on mood. Whether you are planning a business meeting or dining out with friends, Urbanizer will help you find the place that suits the mood.

Enter your email, select city and vote :

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- + Mood Tags
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- + Reviews
- 13. Restaurant Strc
1019, avenue Du Mont...
- 14. Taj Restaurant
2077, Rue Stanley, Mon...

View your city's mood



Français



Restaurants

- Café Cherrier**
3635, Rue Saint-Denis, Montreal
- Restaurant Le Fripon**
436, Place Jacques-Cartier, Montreal
- Restaurant Toque**
900, Place Jean-Paul Riopelle, Montreal
1 friend is fan
- Restaurant Beaver Hall**
1073, Cote Du Beaver Hall, Montreal
- Restaurant Méridional Inc**
550, Chemin De Chambly, Longueuil

Mood Nearby Score Filter

Urbanizer for iPhone

Know your mood!

The interactive application that recommends restaurants based on mood. Whether you are planning a dinner out with friends, Urbanizer will help you find the place that suits the mood.

Enter your email, select city and vote :

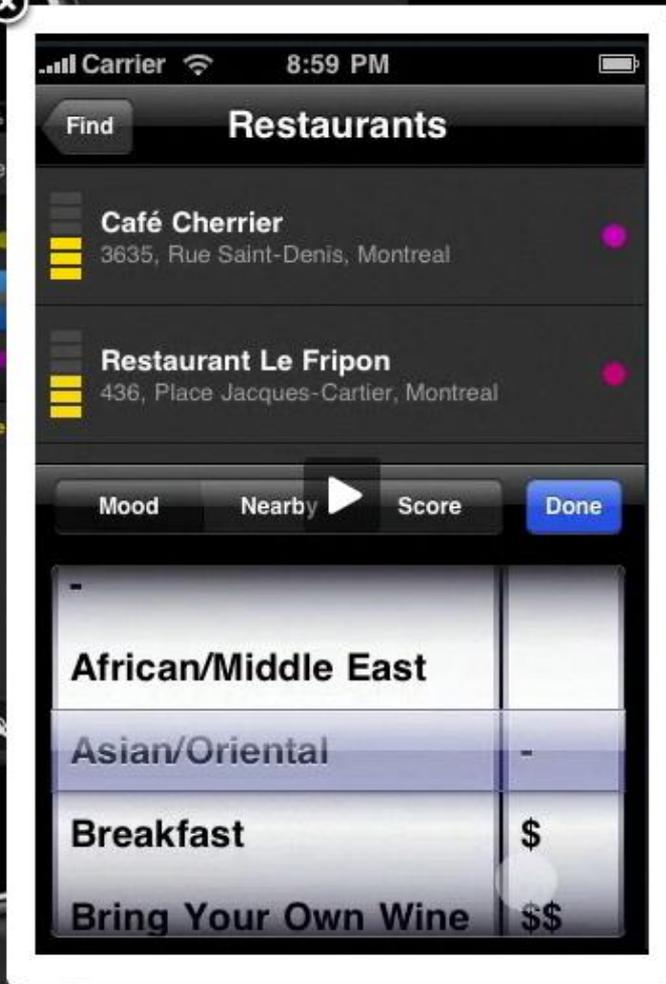
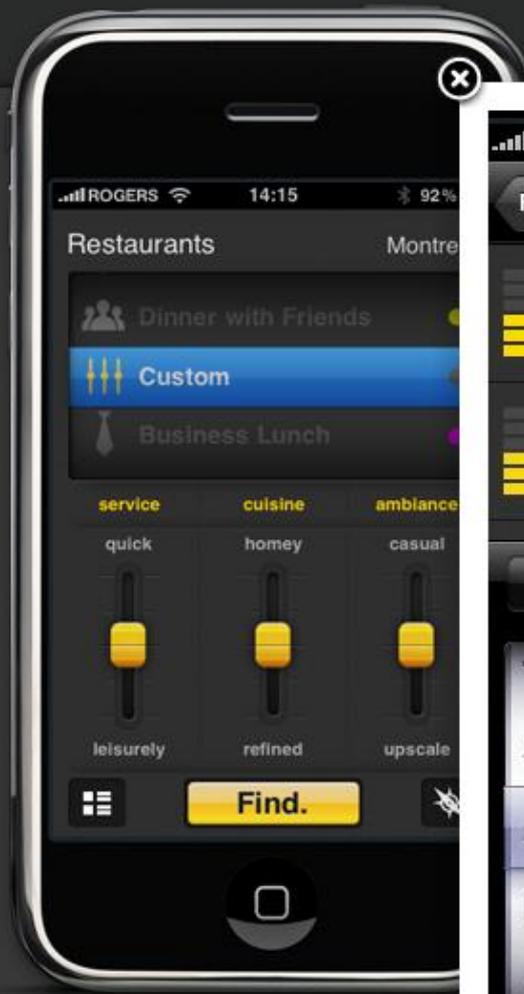
Vote

+ Mood Tags

+ Friends

+ Reviews

+ 13. Restaurant Str
1019, avenue Du Mont-
+ 14. Taj Restaurant
2077, Rue Stanley, Mon



View your city's mood



Français

er for iPhone

by mood!

The interactive application that recommends
 on mood. Whether you are planning a
 ening out with friends, Urbanizer will help
 place that suits the mood.

your email, select city and vote :

Select City

Mood Tags

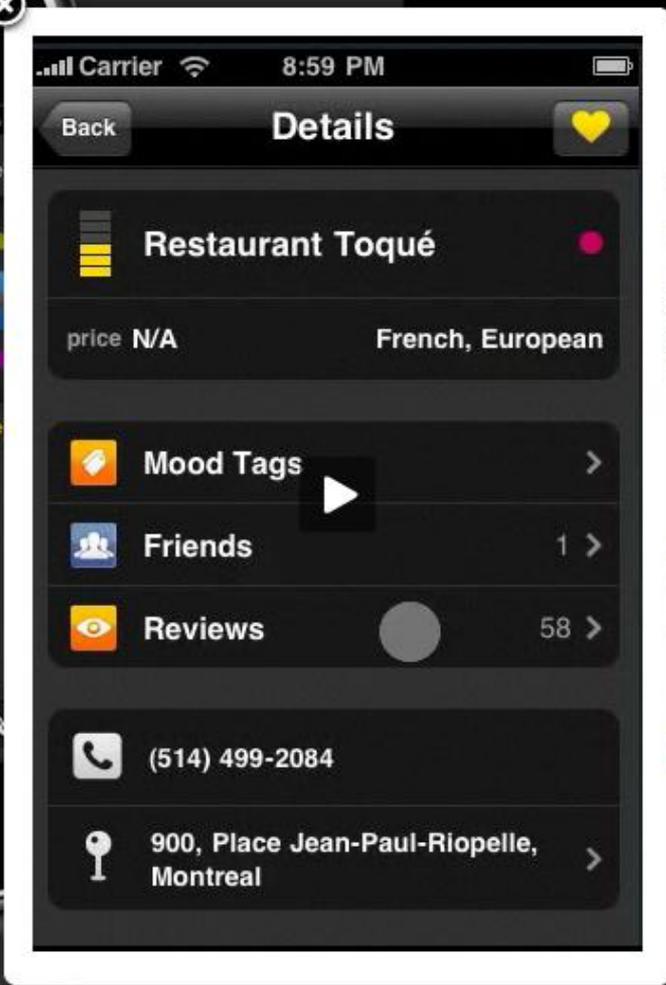
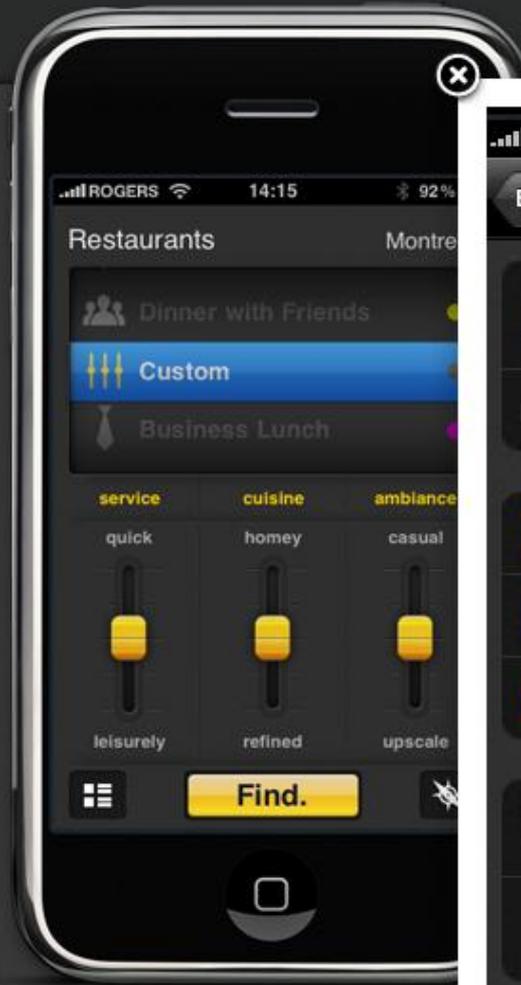
- Friends
- Reviews

13. Restaurant Strc
 1019, avenue Du Mont-

14. Taj Restaurant
 2077, Rue Stanley, Mon-

Urbanizer is powered by YellowPages™.





View your city's mood



Français

Urbanizer for iPhone

View your mood!

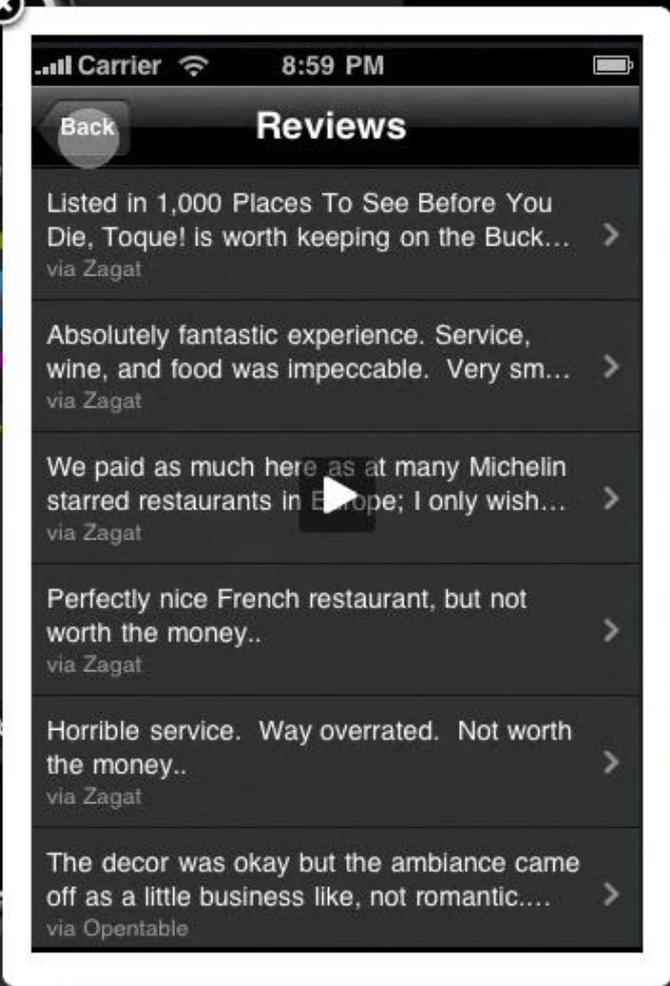
The interactive application that recommends restaurants based on mood. Whether you are planning a business meeting, a date, or hanging out with friends, Urbanizer will help you find the place that suits the mood.

Enter your email, select city and vote :

Select City



Urbanizer is powered by YellowPages.



View your city's mood



Français

Urbanizer for iPhone

View your mood!

An interactive application that recommends places on mood. Whether you are planning a dinner out with friends, Urbanizer will help you find the place that suits the mood.

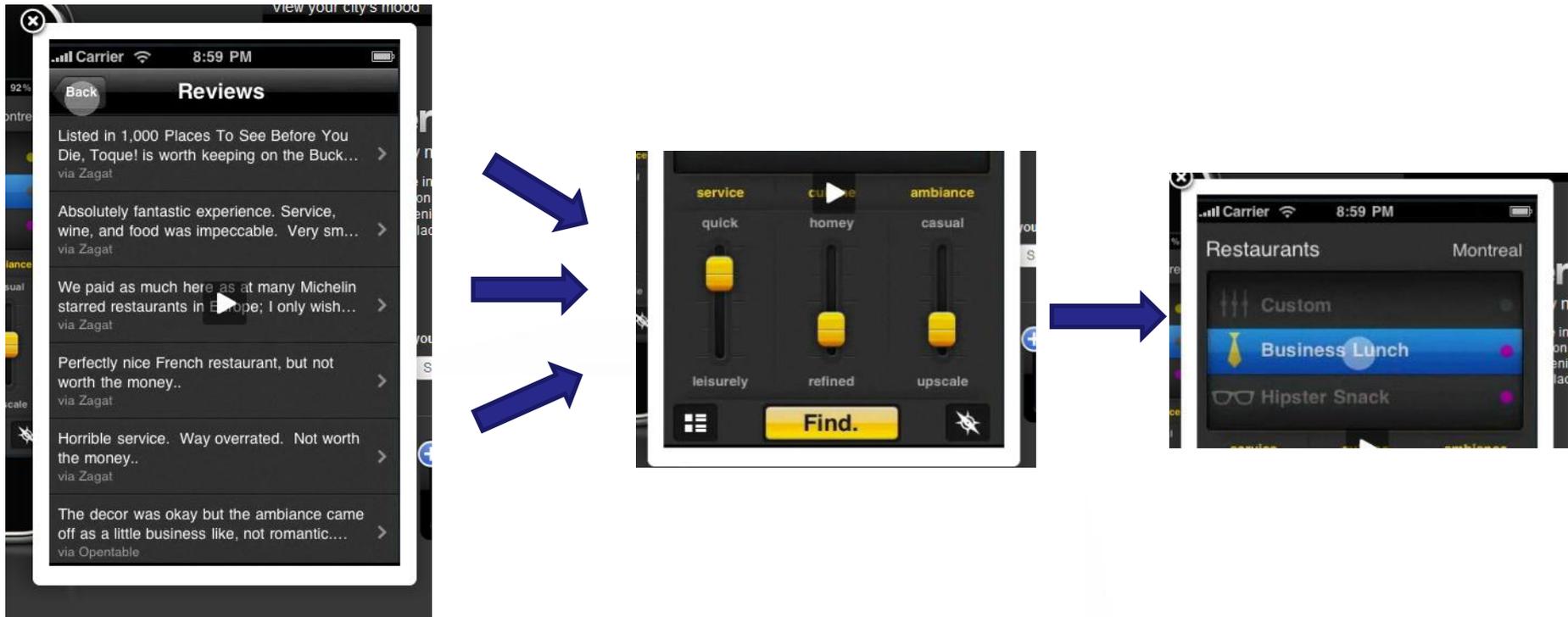
Enter your email, select city and vote :

Select City

Two interactive cards are shown:

- Mood Tags:** Includes icons for 'Friends' and 'Reviews'.
- Restaurant List:** Shows items like '13. Restaurant Strc' and '14. Taj Restaurant' with address snippets.

Extraction + Abstraction + Abstraction



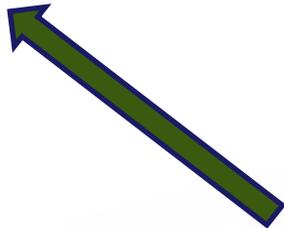
"...decor is not particularly elegant..."

ambiance ↓ 70

Business Lunch \approx service \in [0,40] \vee cuisine \in [45,100] \vee ambiance \in [45,100]

URBANIZER Domain modeling

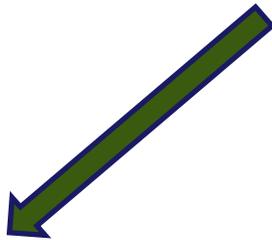
Service



Cuisine



Ambiance



Domain vocabulary

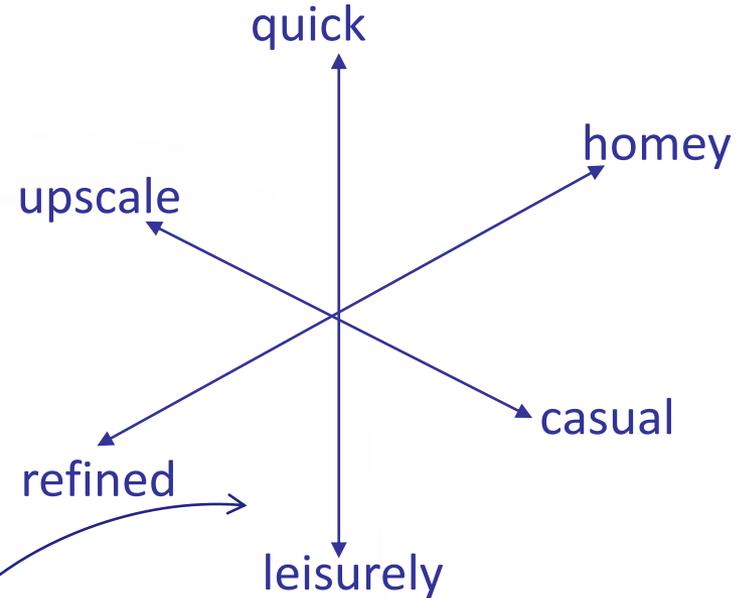
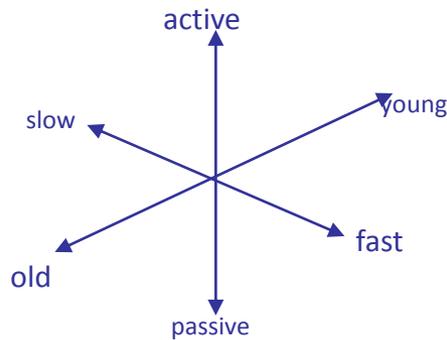
Sentiment for domain

Syntactic patterns

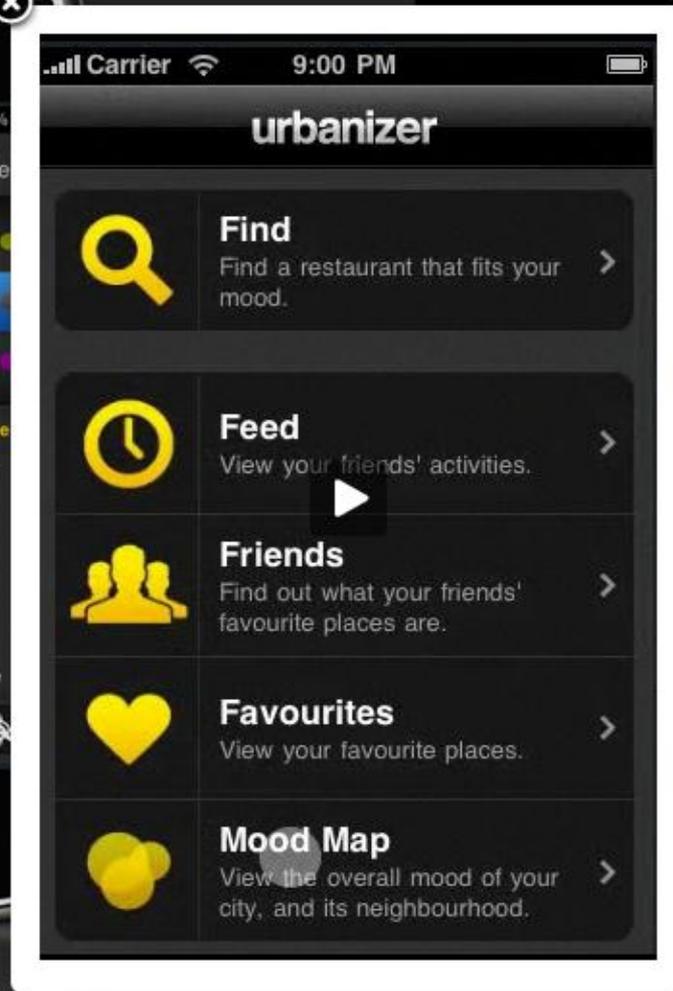
Domain analysis, same as Affect Analysis

- **Deese (1965) semantic axes**

- free association experiments
- “big-small”, “hot-cold”, etc.



...spent {two, three} hours...



View your city's mood



Français

Urbanizer for iPhone

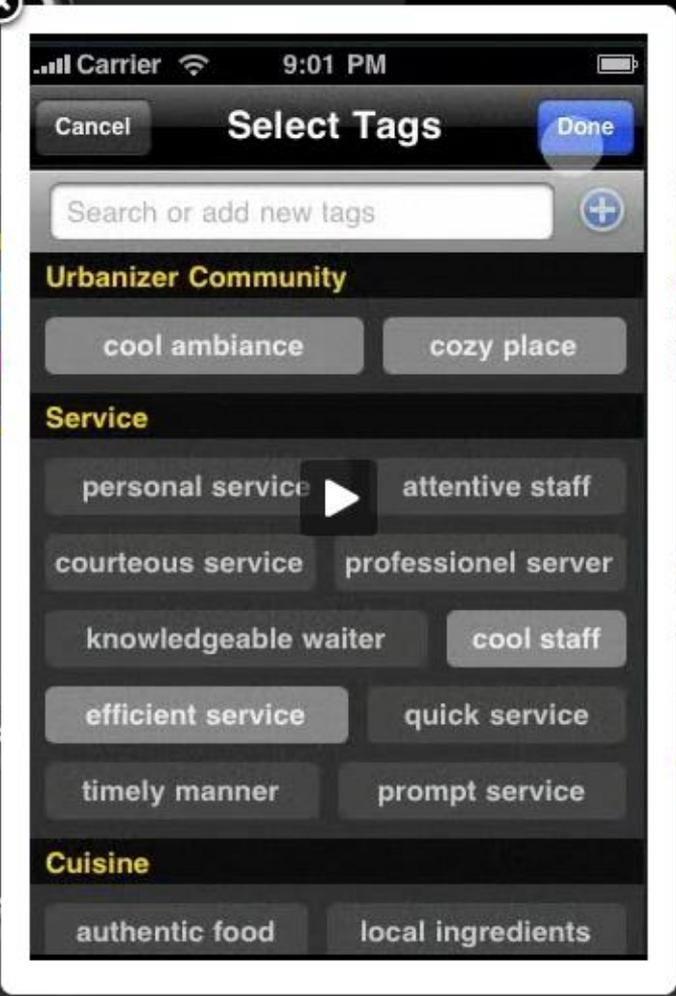
Urbanizer is an interactive application that recommends restaurants on mood. Whether you are planning a dinner with friends, Urbanizer will help you find a place that suits the mood.

Enter your email, select city and vote :
Select City

+ Mood Tags
+ Friends
+ Reviews

+ 13. Restaurant Strc
1019, avenue Du Mont
+ 14. Taj Restaurant
2077, Rue Stanley, Mon

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View your city's mood



Français

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- Mood Tags
- Friends
- Reviews

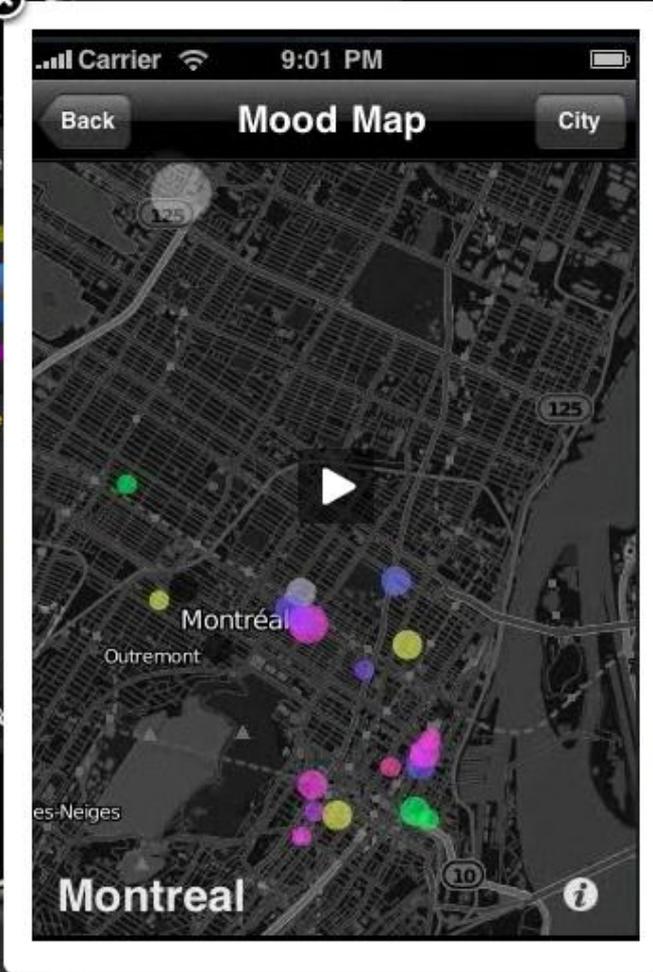
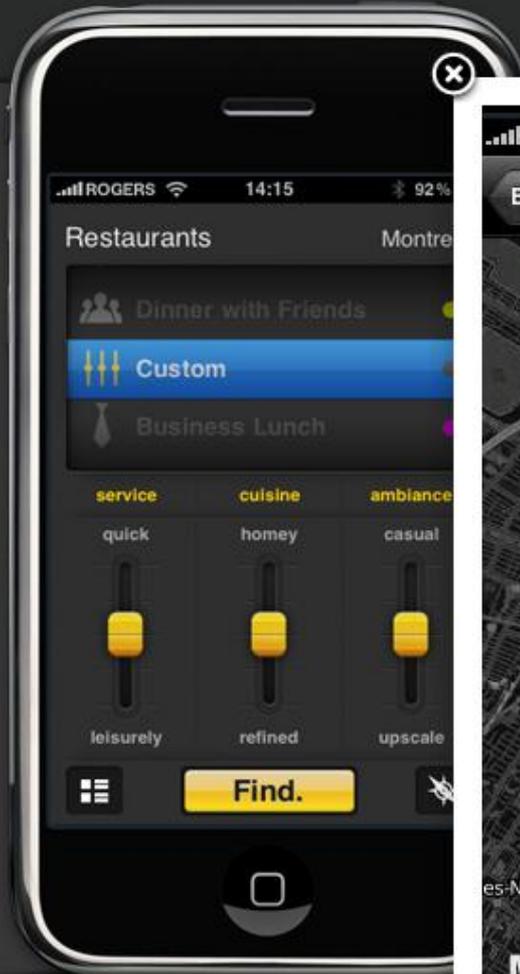
- 13. Restaurant Strc
1019, avenue Du Montre
- 14. Taj Restaurant
2077, Rue Stanley, Mon

Urbanizer is powered by YellowPages.

View your city's mood



Français



Urbanizer for iPhone

... mood!

... interactive application that recommends ... on mood. Whether you are planning a ... ening out with friends, Urbanizer will help ... lace that suits the mood.

... your email, select city and vote :

Select City

- + Mood Tags
- + Friends
- + Reviews

- + 13. Restaurant Strc
9019, avenue Du Mont-
- + 14. Taj Restaurant
2077, Rue Stanley, Mon

Urbanizer is powered by YellowPages

Another example of domain modeling

The screenshot shows the homepage of cars.yakaz.com. At the top, there is a navigation menu with links for "All classified ads", "Real Estate", "Used cars", "Motorcycles", "Jobs", and "Miscellaneous". A "Create your email alert" button is also present. The main heading is "Yakaz United States Classified ads search engine". Below this is a search bar containing the text "Ford Texas, Mercedes in Miami, convertible, ..." and a "Search" button. To the right of the search bar are links for "Advanced search" and "Specify the location". Below the search bar, it states "3,762,725 used cars coming from 15,212 websites". A grid of popular car models is displayed, including Volkswagen Golf, Cadillac DTS, Ford Expedition, Pontiac Vibe, Chrysler 300, Porsche Cayenne, Acura RSX, Lincoln LS, Pontiac Fiero, Nissan Pathfinder, Honda Ridgeline, Pontiac GTO, BMW 320i, Saab 900, and Ford Crown Victoria. At the bottom, there are links for "About Yakaz", "Get listed on Yakaz", "Tools", "Blog", and "Links", along with a copyright notice for 2010 Yakaz and a row of international flags.

Yakaz USED CARS > PORSCHE IN BOSTON

Porsche in Boston

Search Cars

Search Everywhere

[Advanced search](#)
[Specify the location](#)

- Price: [\\$30,000](#) [\\$40,000](#) [\\$50,000](#) [\\$70,000](#) [\\$200,000](#)
- Mileage: [10,000 mi](#) [40,000 mi](#) [> 100,000 mi](#) [Not specified](#)
- Year: [2003-2004](#) [2007](#) [After 2007](#)
- Brand: [porsche](#) [audi](#)
- Colour: [black](#) [white](#) [silver](#) [gray](#)
- Fuel: [gasoline](#)
- Picture: [pictures only](#)

Ads by Google

[Porsche Of Boston](#)

[Porsche.SmartAutoSavings.com](#) Get a great price on a new car at **Porsche Of Boston**.

[Lamborghini](#)

[Kijiji.ca](#) Buy/Sell Cars & Auto Parts Locally Free Classifieds at Kijiji Canada!

[Porsche](#)

[www.Pfaff.porschedealer.com](#) Visit Canada's **Porsche** Experts With Canada's Largest **Porsche** Inventory

Sort by : [relevance](#) | [price](#) | [date](#)

★ [Porsche 911. 182436 mi. 2003](#)



Boston MA porsche 911 silver 2003 182436 mi abs automatic power locks power windows cd player air conditioning ...with black leather, never raced, heated garage, no salt. annual porsche dealer service. full leather, clear armor protection, crest embossed ...or dents, all records, 40k miles, includes 4 tires, wheels, front...

\$42,000

[Email to a friend](#)
[View on a map](#)

22 classifieds

Exact [5mi](#) [10mi](#) [20mi](#) [50mi](#) [State](#) [US](#)





USED CARS > PORSCHE IN BOSTON

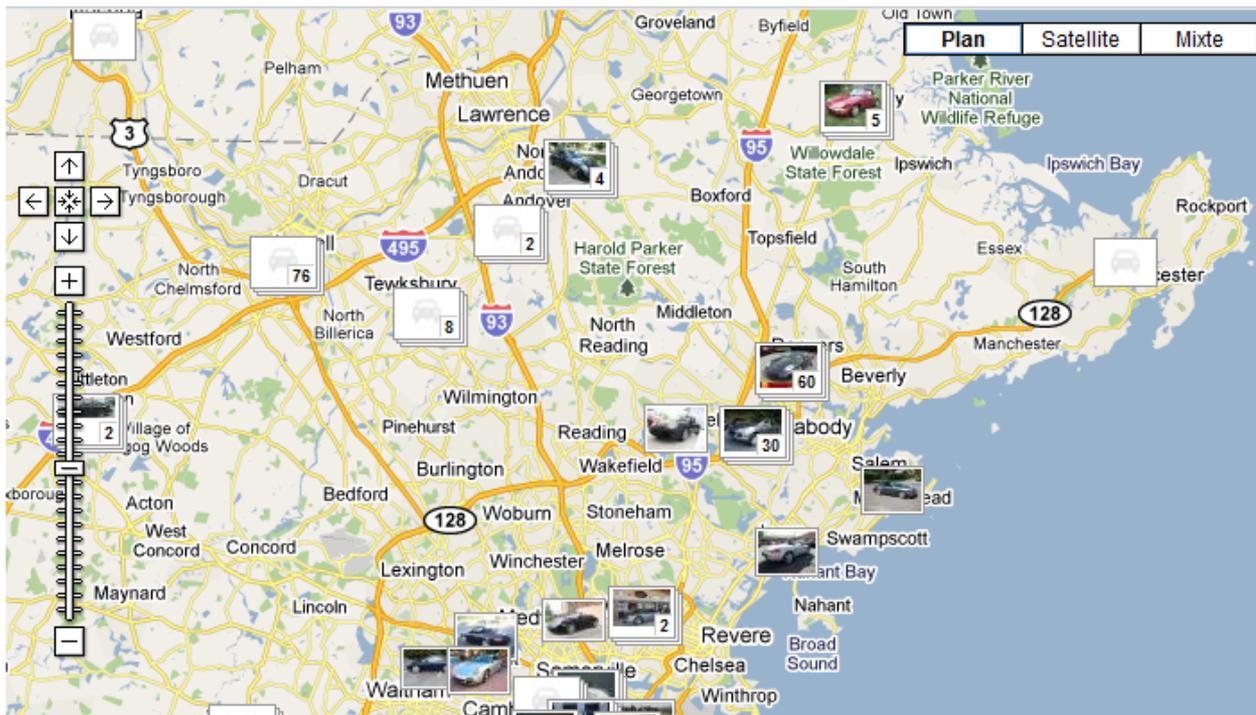
Porsche in Boston

Search Cars

Search Everywhere

Advanced search
Specify the location

- Price: [\\$30,000](#) [\\$40,000](#) [\\$50,000](#) [\\$70,000](#) [\\$200,000](#)
- Mileage: [10,000 mi](#) [40,000 mi](#) [> 100,000 mi](#) [Not specified](#)
- Year: [2003-2004](#) [2007](#) [After 2007](#)
- Brand: [porsche](#) [audi](#)
- Colour: [black](#) [white](#) [silver](#) [gray](#)
- Fuel: [gasoline](#)
- Picture: [pictures only](#)



Plan Satellite Mixte

592 classifieds

List view Gallery view

Ads by Google

Porsche Of Boston
Boston area Porsche models priced to sell.
Porsche.SmartAutoSavings.com

Lamborghini
Buy/Sell Cars & Auto Parts Locally
Free Classifieds at Kijiji Canada!
Kijiji.ca

Porsche
Visit Canada's Porsche Experts With Canada's Largest Porsche Inventory
www.Pfaff.porschedealer.com



Foreseeable, near term

FUTURE SUCCESSES



Dbpedia, RDF triples

About: [Pulp Fiction](#)

An Entity in Data Space: [dbpedia.org](#)

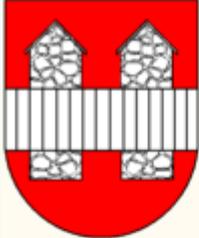


Pulp Fiction est un film américain réalisé par Quentin Tarantino, sorti le 14 octobre 1994, et récompensé cette même année par une Palme d'or au Festival de Cannes.

Property	Value
dbpedia-owl:amgid	1:131235
dbpedia-owl:budget	8500000
dbpedia-owl:cinematography	dbpedia:Andrzej_Sekula
dbpedia-owl:director	dbpedia:Quentin_Tarantino
dbpedia-owl:distributor	dbpedia:Miramax_Films
dbpedia-owl:editing	dbpedia:Sally_Menke
dbpedia-owl:gross	107900000
dbpedia-owl:imdbid	0110912
dbpedia-owl:language	dbpedia:English_language
dbpedia-owl:producer	dbpedia:Lawrence_Bender
dbpedia-owl:releaseDate	1994-09-23 (xsd:date)
dbpedia-owl:runtime	154
dbpedia-owl:starring	<ul style="list-style-type: none">dbpedia:Christopher_Walkendbpedia:John_Travoltadbpedia:Maria_de_Medeirosdbpedia:Amanda_Plummerdbpedia:Samuel_L_Jacksondbpedia:Rosanna_Arquettedbpedia:Ving_Rhamesdbpedia:Bruce_Willisdbpedia:Harvey_Keiteldbpedia:Eric_Stoltzdbpedia:Uma_Thurmandbpedia:Tim_Roth
dbpedia-owl:writer	<ul style="list-style-type: none">dbpedia:Quentin_Tarantinodbpedia:Roger_Avary
dbpprop:abstract	<ul style="list-style-type: none">Pulp Fiction (1994) is an American crime film directed by Quentin Tarantino, who cowrote its screenplay with Roger Avary. The film is known for its rich, eclectic dialogue, ironic mix of humor and violence, nonlinear storyline, and host of cinematic and pop culture references. The film was nominated for seven Oscars, including Best Picture; Tarantino and Avary won for Best Original Screenplay. It was also awarded the Palme d'Or at the Cannes Film Festival. A major commercial success, it revitalized the career of its leading man, John Travolta, who received an Academy Award nomination, as did costars Samuel L. Jackson and Uma Thurman. The film's title refers to the pulp magazines and hardboiled crime novels popular during the mid-20th century, known for their graphic violence and punchy dialogue. Pulp Fiction is self-referential from its opening moments, beginning with a title card that gives two dictionary definitions of "pulp". The plot, in keeping with most of Tarantino's other works, is presented out of chronological sequence. The picture's self-reflexivity, unconventional structure, and extensive use of homage and pastiche have led critics to describe it as a prime example of postmodern film. Pulp Fiction is viewed as the inspiration for many later movies that adopted various elements of its style. The nature of its development, marketing, and distribution and its consequent profitability had a sweeping effect on the field of independent cinema. A cultural watershed, Pulp Fiction's influence has been felt in several other popular media.Pulp Fiction er en amerikansk film fra 1994, instrueret af Quentin Tarantino. Pulp Fiction blev en enorm publikumssucces, måske fordi den på mange måder var en banebrydende film på grund af sin blanding af rå vold og hurtig, humoristisk og til tider absurd dialog, samt mængder af referencer til popkultur. Historien i Pulp Fiction blander flere forskellige handlingsforløb, og er bemærkelsesværdig ved at handlingsforløbet ikke er kronologisk fremadskridende, men flere gange springer i tid. Pulp Fiction blev et stort comeback til John Travolta, som blev nomineret til en Oscar for bedste mandlige hovedrolle, mens to af filmens medvirkende, Samuel L. Jackson og Uma Thurman, blev nomineret til hhv. bedste mandlige og kvindelige birolle. I alt blev Pulp Fiction nomineret til syv Oscars i 1994. Quentin Tarantino og Roger Avary fik prisen for bedste originalmanuskript. Ved Filmfestivalen i Cannes vandt filmen Den Guldne Palme.

Wikipedia InfoBoxes

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image_map = Karte-tirol-I.png |
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regbzk = [[Statutory city]] |
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area = 104.91 |
elevation = 574 |
lat_deg = 47 |
lat_min = 16 |
lat_hem = N |
lon_deg = 11 |
lon_min = 23 |
lon_hem = E |
postal_code = 6010-6080 |
area_code = 0512 |
licence = I |
mayor = Hilde Zach |
website = [http://innsbruck.at] |
}}
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Innsbruck	
	
Country	Austria
State	Tyrol
Administrative region	Statutory city
Population	117,342 (2006)
Area	104.91 km²
Population density	1,119 /km²
Elevation	574 m
Coordinates	47°16′ N 11°23′ E﻿ / ﻿47.267° N 11.383° E﻿ / 47.267; 11.383
Postal code	6010-6080
Area code	0512
Licence plate code	I
Mayor	Hilde Zach
Website	www.innsbruck.at

Implicit tables

1	What's Opera Doc	Warner Bros	1957
2	Duck Amuck	Warner Bros	1953
3	The Band Concert	Disney	1935
4	Duck Dodgers in the 24 1/2th Century	Warner Bros	1953
5	One Froggy Evening	Warner Bros	1956
6	Gertie The Dinosaur	McCay	
7	Red Hot Riding Hood	MGM	1943
8	Porky In Wackyland	Warner Bros	1938
9	Gerald McBoing Boing	UPA	1951
10	King-Size Canary	MGM	1947
11	Three Little Pigs	Disney	1933
12	Rabbit of Seville	Warner Bros	1950
13	Steamboat Willie	Disney	1928
14	The Old Mill	Disney	1937
15	Bad Luck Blackie	MGM	1949
16	The Great Piggy Bank Robbery	Warner Bros	1946
17	Popeye the Sailor Meets Sinbad the Sailor	Fleischer	1936

(a) After independent splitting phase

1	What's Opera Doc	Warner Bros	1957
2	Duck Amuck	Warner Bros	1953
3	The Band Concert	Disney	1935
4	Duck Dodgers in the 24 1/2th Century	Warner Bros	1953
5	One Froggy Evening	Warner Bros	1956
6	Gertie The Dinosaur	McCay	
7	Red Hot Riding Hood	MGM	1943
8	Porky In Wackyland	Warner Bros	1938
9	Gerald McBoing Boing	UPA	1951
10	King-Size Canary	MGM	1947
11	Three Little Pigs	Disney	1933
12	Rabbit of Seville	Warner Bros	1950
13	Steamboat Willie	Disney	1928
14	The Old Mill	Disney	1937
15	Bad Luck Blackie	MGM	1949
16	The Great Piggy Bank Robbery	Warner Bros	1946
17	Popeye the Sailor Meets Sinbad the Sailor	Fleischer	1936

(b) After re-splitting records given the number of columns

1	What's Opera Doc	Warner Bros	1957
2	Duck Amuck	Warner Bros	1953
3	The Band Concert	Disney	1935
4	Duck Dodgers in the 24 1/2th Century	Warner Bros	1953
5	One Froggy Evening	Warner Bros	1956
6	Gertie The Dinosaur	McCay	
7	Red Hot Riding Hood	MGM	1943
8	Porky In Wackyland	Warner Bros	1938
9	Gerald McBoing Boing	UPA	1951
10	King-Size Canary	MGM	1947
11	Three Little Pigs	Disney	1933
12	Rabbit of Seville	Warner Bros	1950
13	Steamboat Willie	Disney	1928
14	The Old Mill	Disney	1937
15	Bad Luck Blackie (MGM)		1949
16	The Great Piggy Bank Robbery	Warner Bros	1946
17	Popeye the Sailor Meets Sinbad the Sailor	Fleischer	1936

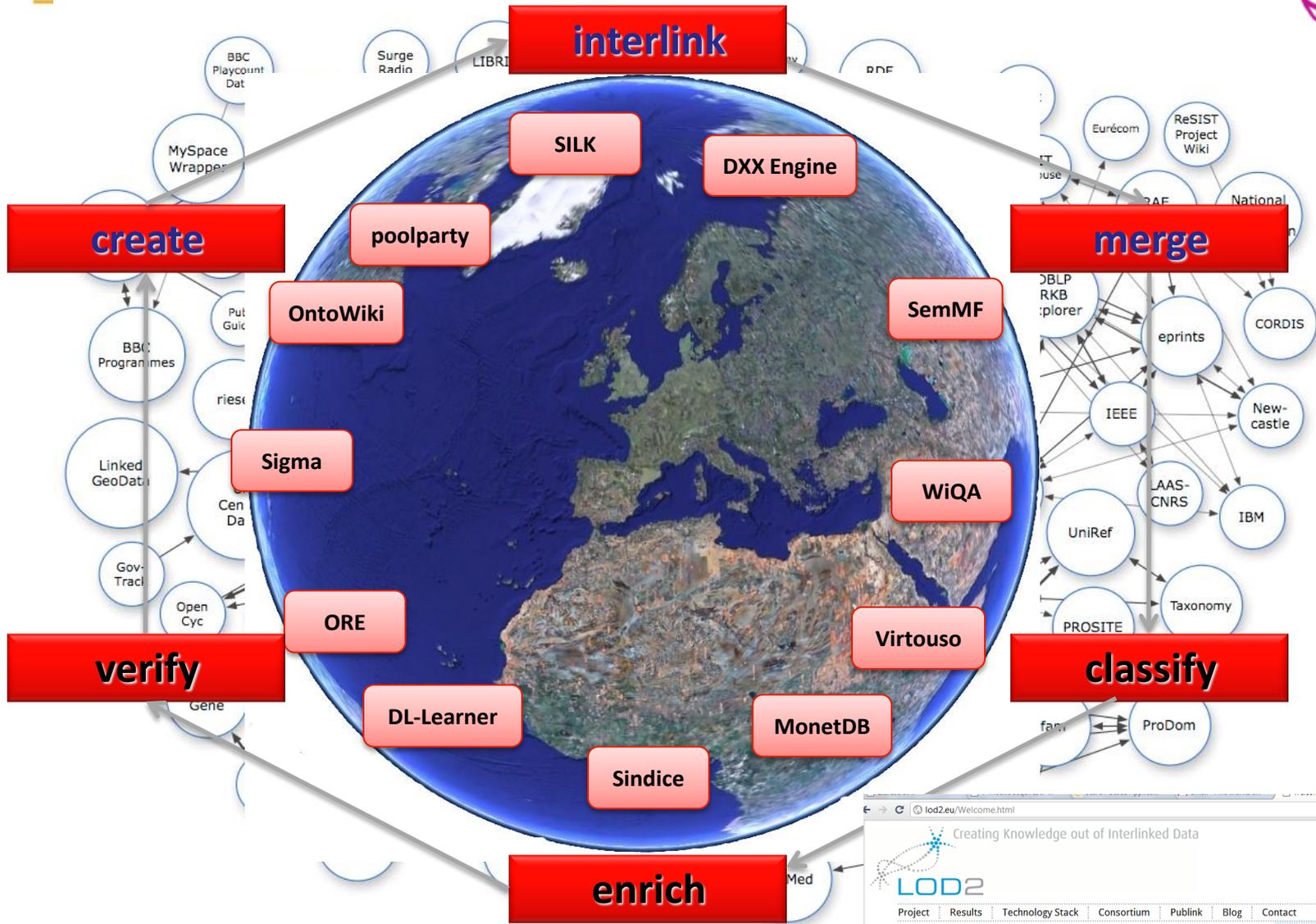
(c) After alignment phase (initial table T_I)

1	What's Opera Doc	Warner Bros	1957
2	Duck Amuck	Warner Bros	1953
3	The Band Concert	Disney	1935
4	Duck Dodgers in the 24 1/2th Century	Warner Bros	1953
5	One Froggy Evening	Warner Bros	1956
6	Gertie The Dinosaur	McCay	
7	Red Hot Riding Hood	MGM	1943
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14	The Old Mill	Disney	1937
15	Bad Luck Blackie	MGM	1949
16	The Great Piggy Bank Robbery	Warner Bros	1946
17	Popeye the Sailor	Meets Sinbad the Sailor (Fleischer)	1936

(d) After refinement phase (final table T)

Figure 3: Applying the LISTEXTRACT technique on the cartoons list in Figure 1.

LOD² turns linked data into knowledge



lod2.eu/Welcome.html

Creating Knowledge out of Interlinked Data

Log In/Edit

WELCOME

Project | Results | Technology Stack | Consortium | Publink | Blog | Contact

11.10.2010 - LOD2 project organises Linked (Enterprise) Data Track @ ESTC2010

The 4th European Semantic Technology Conference 2010 (ESTC 2010) will take place in Vienna, Austria from 2nd to 3rd of December 2010. The STI International asked the LOD2 project consortium to organise a Linked (Enterprise) Data track / workshop on this years conference. Although it is still very early in the LOD2 project lifetime (as ... Continue reading... [read](#)

TESTIMONIALS

Andreas Blumauer (Semantic Web Company, CEO)

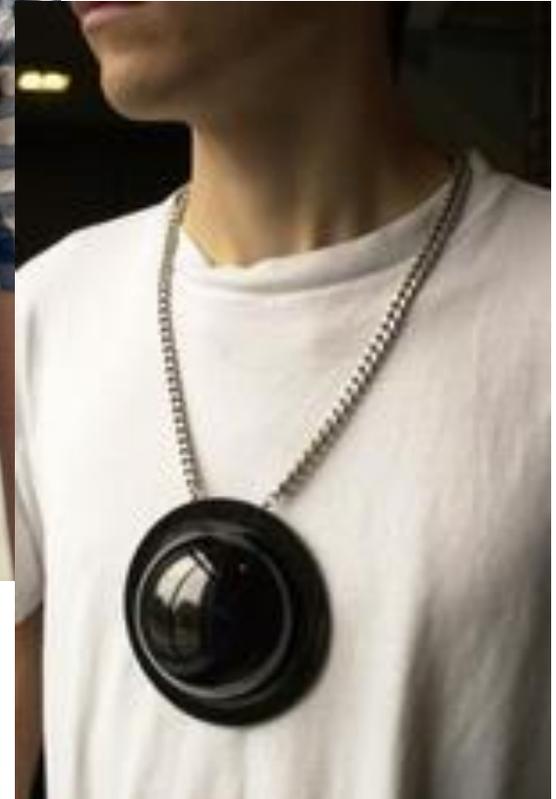
15 years ago we all were excited when we published HTML for the first time and it didn't

Challenge : searching ad hoc, idiosyncratic spaces



<http://www.imrc.kist.re.kr/wiki/LifeLog>

Microsoft SenseCam



<http://research.microsoft.com/en-us/um/cambridge/projects/sensecam/>

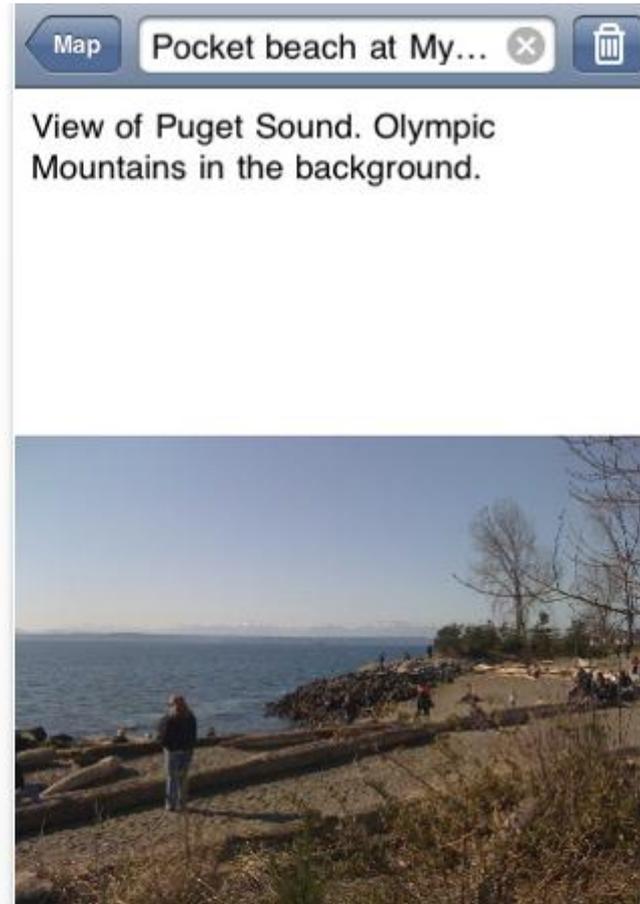
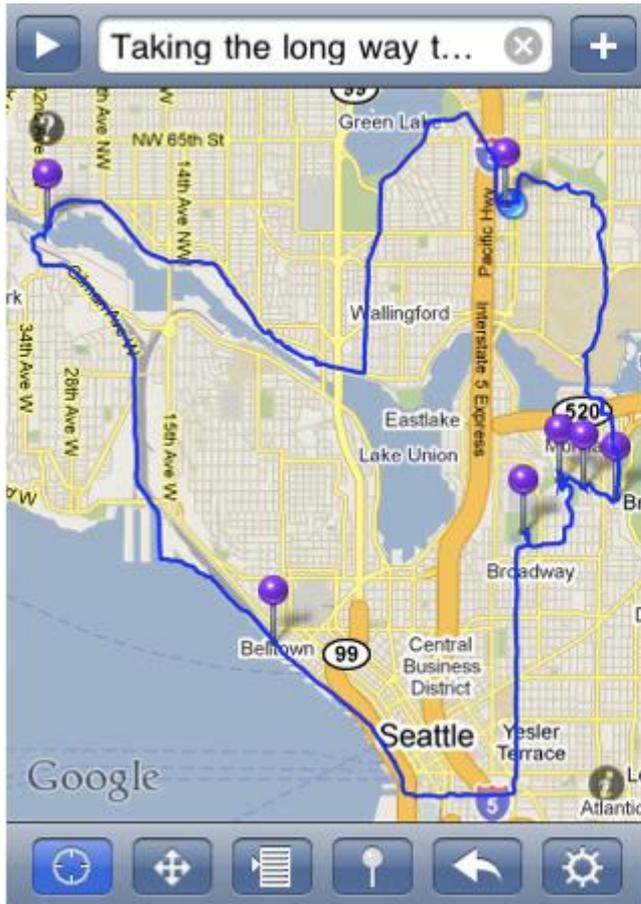
<http://justgetthere.us/blog/plugin/tag/cameras>



<http://gadgets.infoniac.com/head-worn-camera-for-special-events.html>



Bike My Way



Insta Mapper

Jarel's iPhone



Click on positions to select track endpoints and to see other options.

2010-03-11 01:28:59	2663 ft	0 mph
2010-03-11 01:30:01	2663 ft	0 mph
2010-03-11 01:31:02	2663 ft	0 mph
2010-03-11 01:32:03	2663 ft	0 mph
2010-03-11 01:33:05	2663 ft	0 mph
2010-03-11 01:34:11	2663 ft	0 mph
2010-03-11 01:35:12	2663 ft	0 mph
2010-03-11 01:36:13	2663 ft	0 mph
2010-03-11 01:37:13	2663 ft	0 mph
2010-03-11 01:38:16	2663 ft	0 mph
2010-03-11 01:39:21	2663 ft	0 mph
2010-03-11 01:40:25	2663 ft	0 mph
2010-03-11 01:41:29	2663 ft	0 mph
2010-03-11 01:42:31	2663 ft	0 mph
2010-03-11 01:43:32	2663 ft	0 mph
Trip boundary		
2010-03-11 07:07:56	2627 ft	0 mph
2010-03-11 07:27:59	236 ft	0 mph
2010-03-11 07:28:31	2926 ft	0 mph
2010-03-11 07:28:40	2926 ft	0 mph
2010-03-11 07:36:00	2903 ft	0 mph
2010-03-11 07:37:01	2857 ft	0 mph
2010-03-11 07:38:01	2857 ft	0 mph
2010-03-11 07:39:01	2857 ft	0 mph
2010-03-11 07:40:02	2857 ft	0 mph
2010-03-11 07:41:02	2857 ft	0 mph
2010-03-11 07:42:03	2857 ft	0 mph
2010-03-11 07:43:03	2857 ft	0 mph
2010-03-11 07:44:04	2857 ft	0 mph
2010-03-11 07:45:04	2857 ft	0 mph
2010-03-11 07:46:04	2857 ft	0 mph

Mar 11 2010 Go

Challenge : searching ad hoc, idiosyncratic spaces



Hui Yang and Jamie Callan. **A Metric-based Framework for Automatic Taxonomy Induction.** In Proceedings of the 47th Annual Meeting of the Association for Computational Linguistics (**ACL2009**), Singapore. Aug 2-7, 2009

<http://www.imrc.kist.re.kr/wiki/LifeLog>

Conclusions

- **Semantics**

- What is this? Are these the same? Who does what to whom?

- **Search Engines now handle rich semantics**

- Search based applications, between DB and IR

- **Semantic Research**

- Successful transfer to industry

- **Near Future**

- Integration crowd source knowledge Wikipedia
- Linked open data

Thank you

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