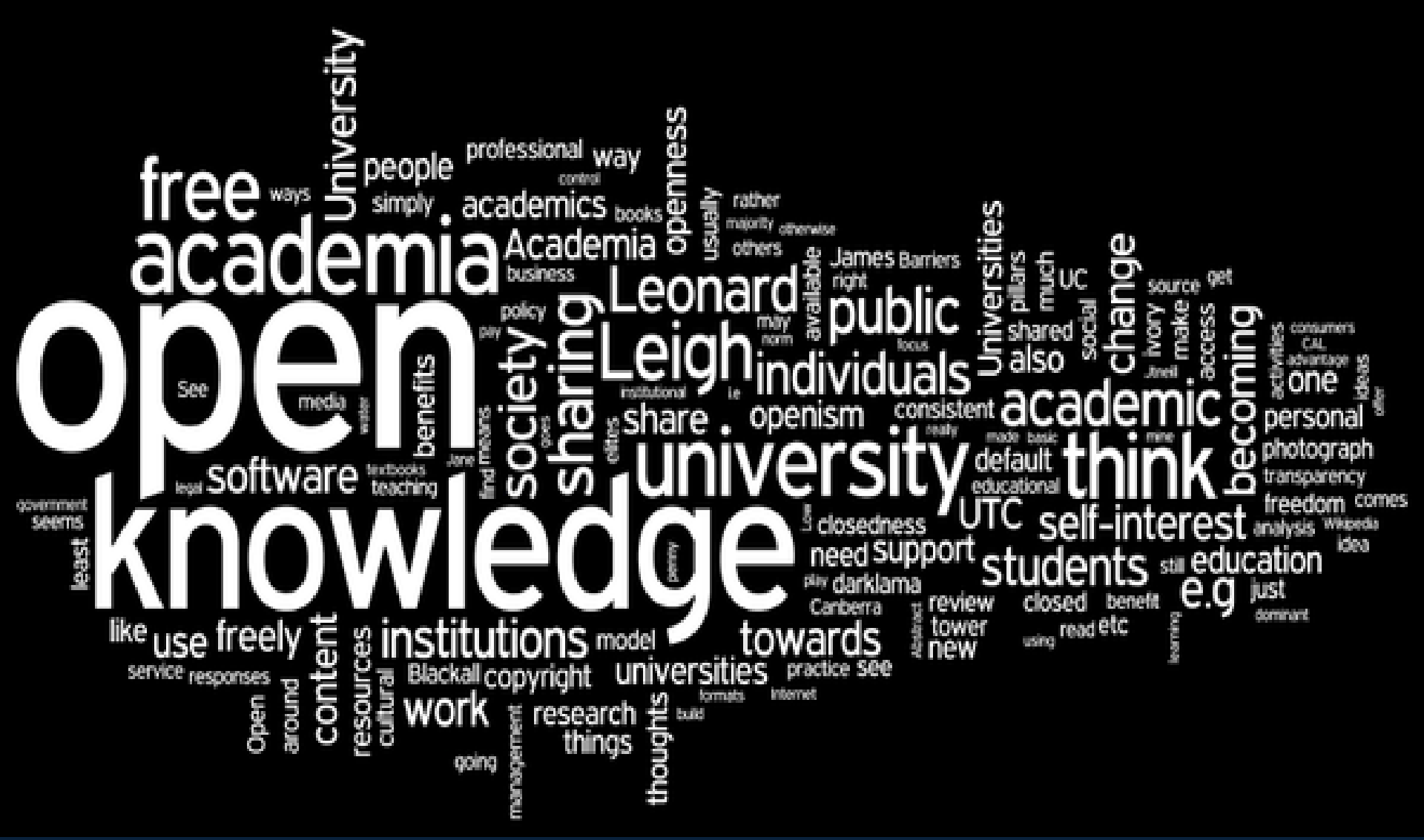
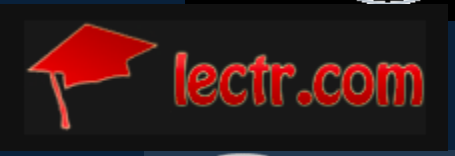


exchange ideas / share knowledge

VIDEOLECTURES.NET

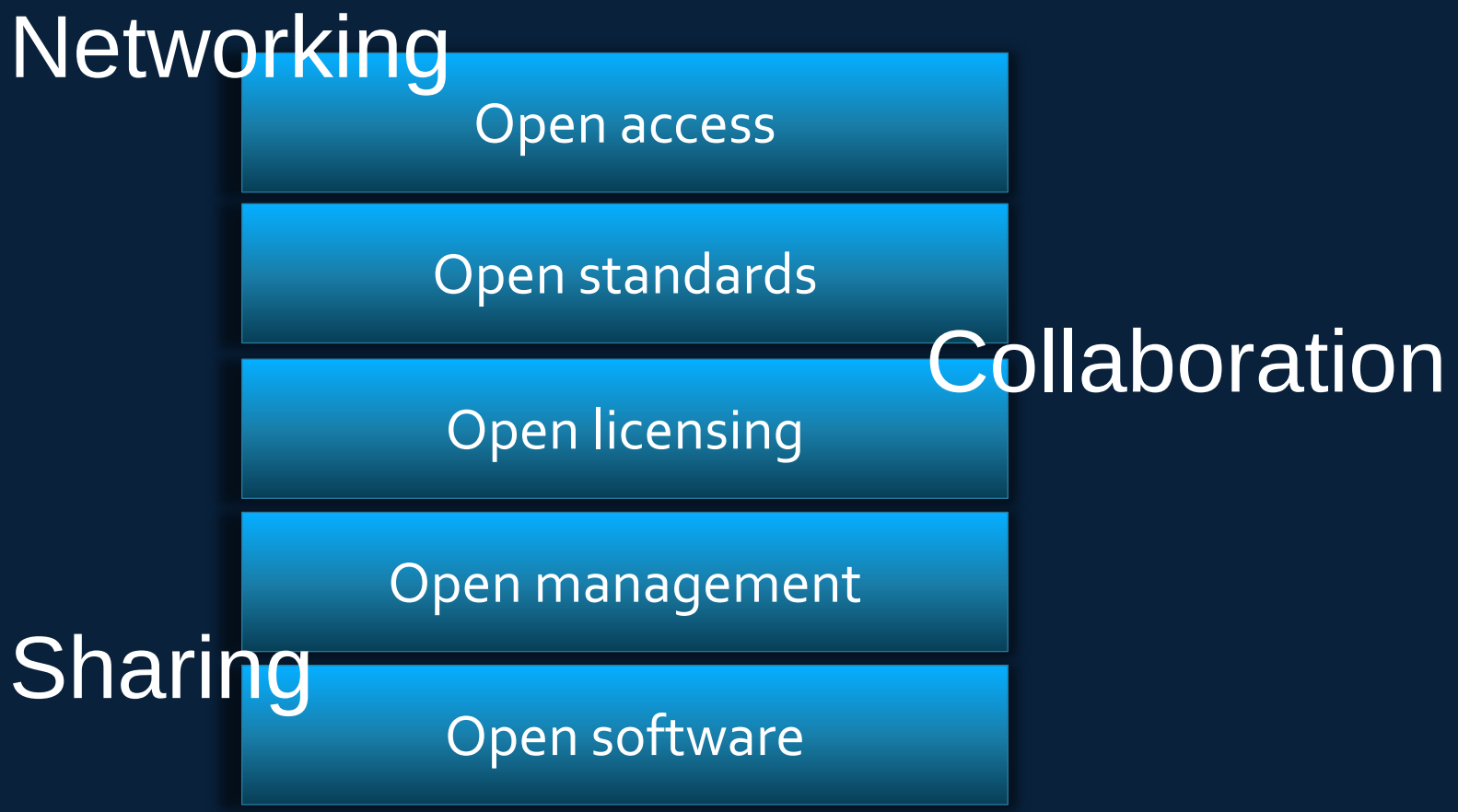
Od storitve k gibanju...



Nov kontekst Akademije

- Odprt dostop – kvalitetne in pregledane vsebine
- Dodatek k formalnemu izobraževanju
- Spreminjanje obstoječih modelov
  - Strukturne spremembe univerz
  - Od podajanja do prodajanja znanj
  - Kompetitivnost
  - Globalne spremembe
- Nuja za prominentne znanstvene konference

Open academia



http://www.wikiversity.org

Nov kontekst predavanja

- Kompetitivnost: Od podajanja k prodajanju vsebine
  - Kvaliteta vsebine,
  - Nastop,
  - Jezik izražanja in zboren način izražanja
- Zgodovinski spomin: blefiranje
  - Prežvečena predavanja
  - Spreminjanje nazora
- Kritika
  - Sprejemnje kritik
  - Sodelovanje in odgovarjanje

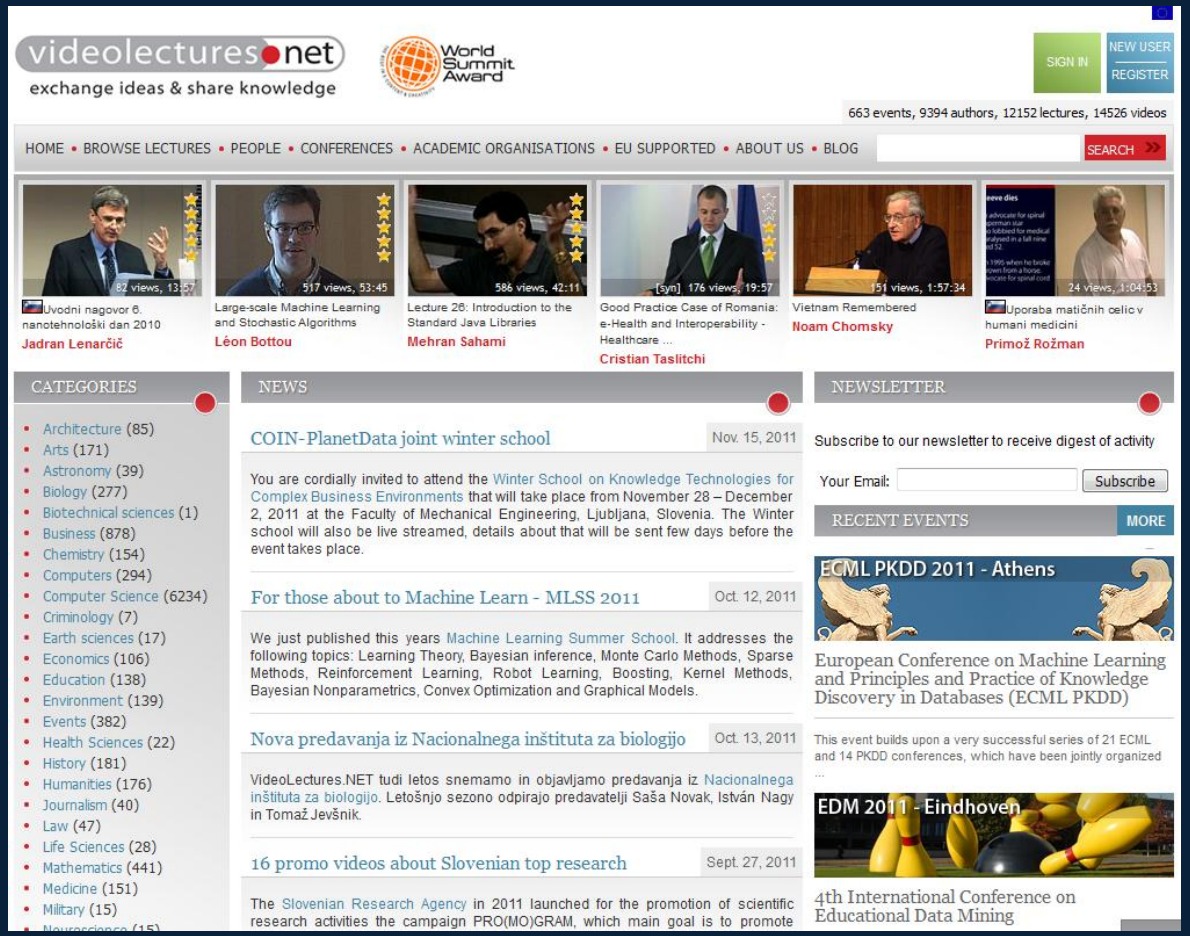
Nevarnosti in ovire

- Samocenzura: Javni nastop pred svetom, delodajalcem, domačim okoljem,…
- Intelektualna lastnina in avtorske pravice
- Socializacija

Širši družbeni učinki

- Enakopravnost
  - Spol in položaj ne igrata več pomembne vloge
  - Elitne univerze niso več dostopne samo izbranim študentom
- Znanje je last človeštva in ne posameznika
  - Znanje za vse
- Vsesmerni prenos znanja
  - Multidisciplinarnost
  - Spoznavanje drugih kultur, dosežkov

Videolectures.net



Največji tovrstni portal na svetu:

> 10.000 obiskovalcev/dan (> 18.000 registriranih)

> 14.500 videov (300/mesec)

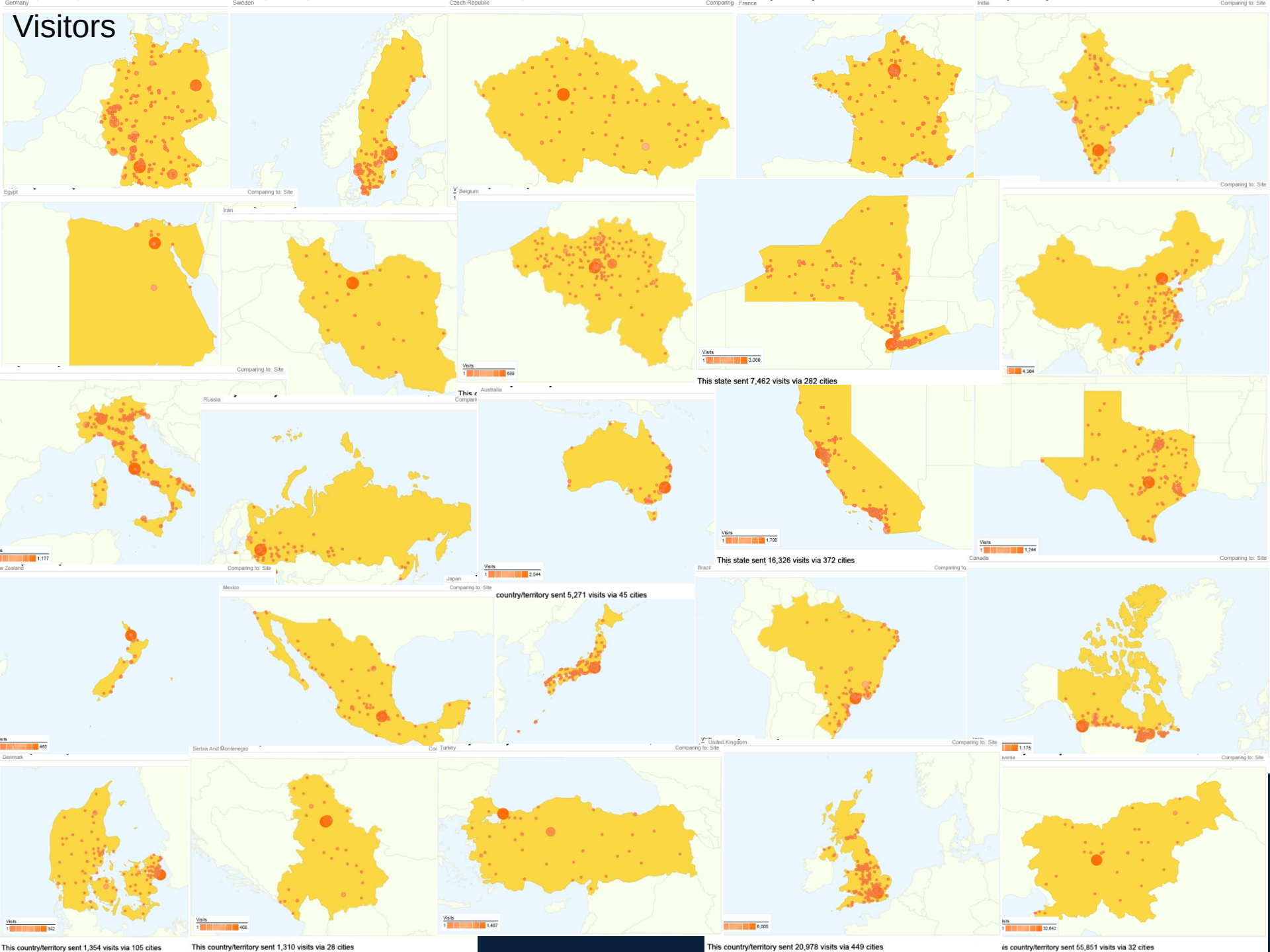
> 15 ljudi

WSA nagrada

Referenčni portal za Univerze in nekatere konference s področja ML

CMU, MIT, Stanford, Berkeley, Cambridge, UCL, Oxford, ETH, CERN,…, ULJ, UNG,… KDD, ICML, ICWS, ECML, WSDM, ECWS, IJCAI,….

Visitors


This state sent 7,462 visits via 282 cities
This state sent 16,326 visits via 372 cities
country/territory sent 5,271 visits via 45 cities
This country/territory sent 1,354 visits via 105 cities
This country/territory sent 1,310 visits via 28 cities
This country/territory sent 20,978 visits via 449 cities
This country/territory sent 55,851 visits via 32 cities

Visitors

videolectures.net

Dashboard

Nov 1, 2010 - Nov 26, 2011

Comparing to: Site

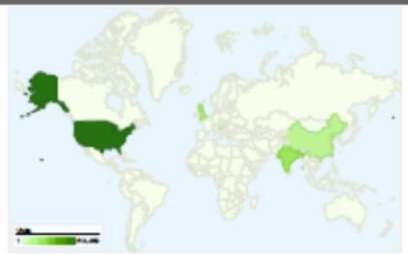
Site Usage

2,464,159 Visits	62.31% Bounce Rate
6,081,922 Pageviews	00:02:56 Avg. Time on Site
2.47 Pages/Visit	55.77% % New Visits

Visitors Overview

Visitors
1,413,698

Map Overlay



Traffic Sources Overview

- Search Engines
  1,386,783.00 (56.28%)
- Direct Traffic
  566,126.00 (22.97%)
- Referring Sites
  507,024.00 (20.58%)
- Other
  4,226 (0.17%)

Content Overview

Pages	Pageviews	% Pageviews
/	521,462	8.57%
/Top/	145,555	2.39%
/Top/Computer_Science/	129,142	2.12%
/Top/Mathematics/	52,029	0.86%
/lecture/academia/ocwc/mit_oc	45,665	0.75%

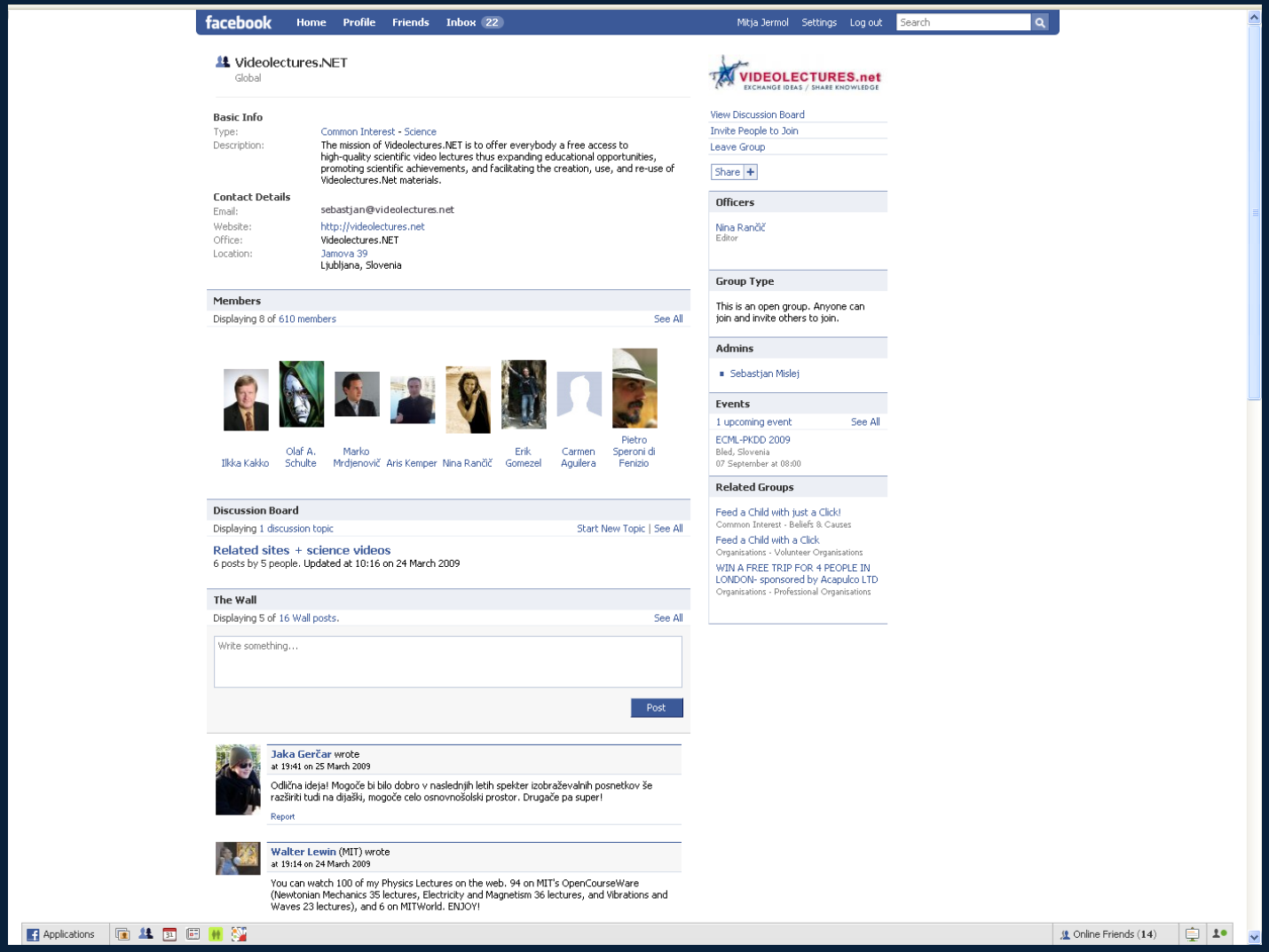
This country/territory sent 1,354 visits via 105 cities

This country/territory sent 1,310 visits via 28 cities

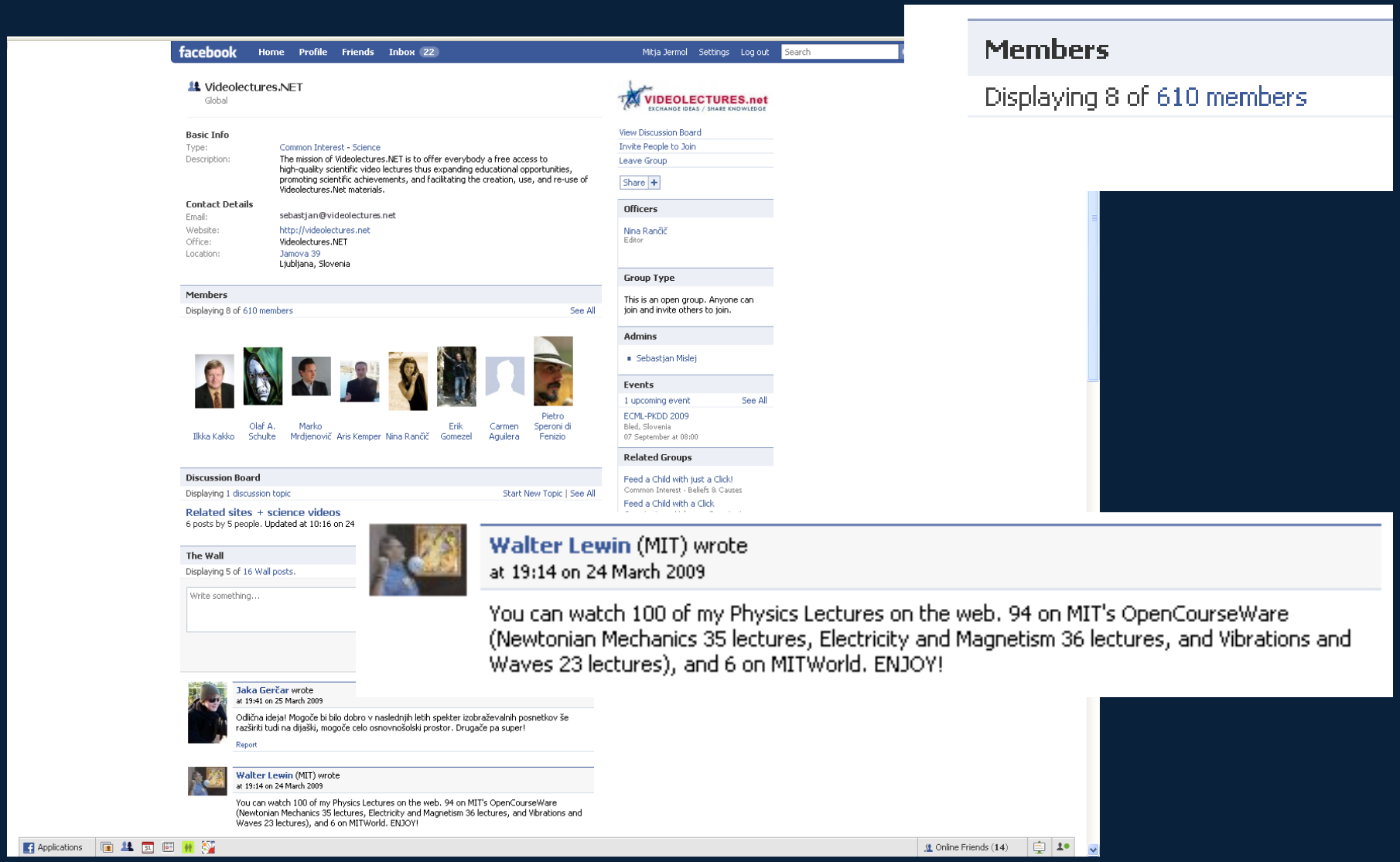
This country/territory sent 20,978 visits via 449 cities

This country/territory sent 55,851 visits via 32 cities

Other channels

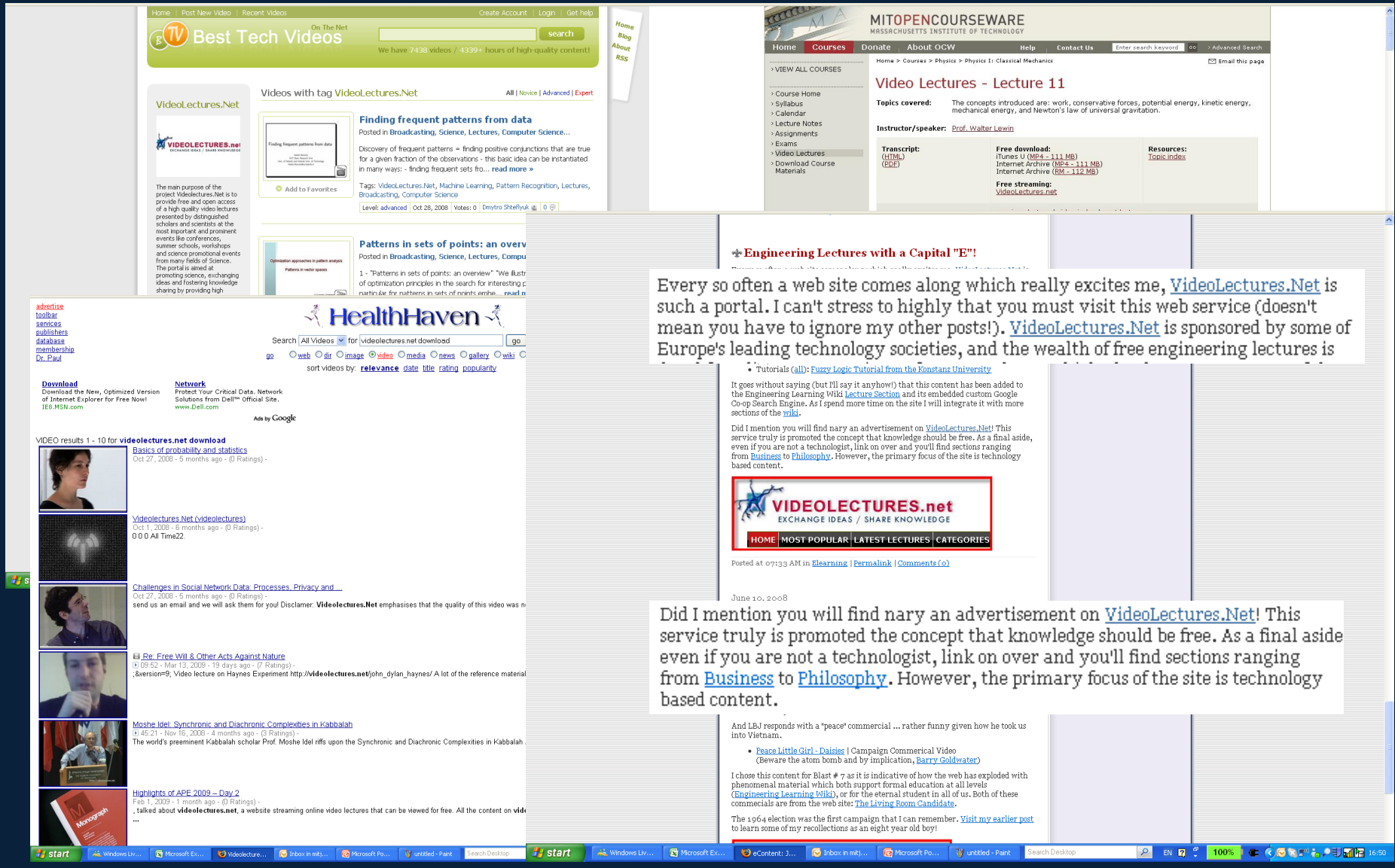


Other channels



First software referencing VL

Many great sites are referencing VL



Scientist bibliographies

Mirco Nanni: Bibliography by year

= GZipped PostScript = PDF

2008

Osman Abul, Francesco Bonchi, Mirco Nanni.
Never Walk Alone: Uncertainty for Anonymity in Moving Objects Databases.
Procs. of the 24th International Conference on Data Engineering ***(ICDE 2008)***.
The NeverWalkAlone software can be downloaded on the NWA web page.

S. Rinzivillo, D. Pedreschi, M. Nanni, F. Giannotti, N. Andrienko, G. Andrienko.
Visually-driven analysis of movement data by progressive clustering.
Workshop on *GeoVisualization of Dynamics, Movement and Change* ***(GeoVis08)***, at the AGILE 2008 Conference.
Extended journal version appeared on Special Issue of Information Visualization journal (Vol.7 No.3).

R.G. Pensa, Mirco Nanni.
A Constraint-Based Approach for Multispace Clustering.
Proceedings of Workshop *From Local Patterns to Global Models* ***(LeGo'08)***, at ECML/PKDD-08 Conference.

2007

Fosca Giannotti, Mirco Nanni, Dino Pedreschi, Fabio Pinelli.
Trajectory Pattern Mining.
In *ACM International Conference on Knowledge Discovery and Data Mining* ***(KDD 2007)***.
See also the video of presentation (~18 mins) on videolectures.net (PDF of slides available there, too).
The T-Pattern Miner software can be downloaded from here: T-Patterns @ SourceForge.

2006

Mirco Nanni, Christophe Rigotti.
Quantitative Episode Trees.
In *Procs. of the Workshop on Knowledge Discovery in Inductive Databases* ***(KDID'06)***.
An extended version also appeared in LNCS 4747 / 2007: "Extracting Trees of Quantitative Serial Episodes", 2007.

Mirco Nanni, Dino Pedreschi.
Time-focused density-based clustering of trajectories of moving objects (extended version).
In *Journal of Intelligent Information Systems (JIIS), 27(3):267-289, Special Issue on "Mining Spatio-Temporal Data"*, 2006.

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Efficient Mining of Temporally Annotated Sequences
In *Proceedings of SIAM Data Mining Conf. 2006* ***(SDM'06)***.

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GeoPKDD: Geographic Privacy-aware Knowledge Discovery (Vision paper).

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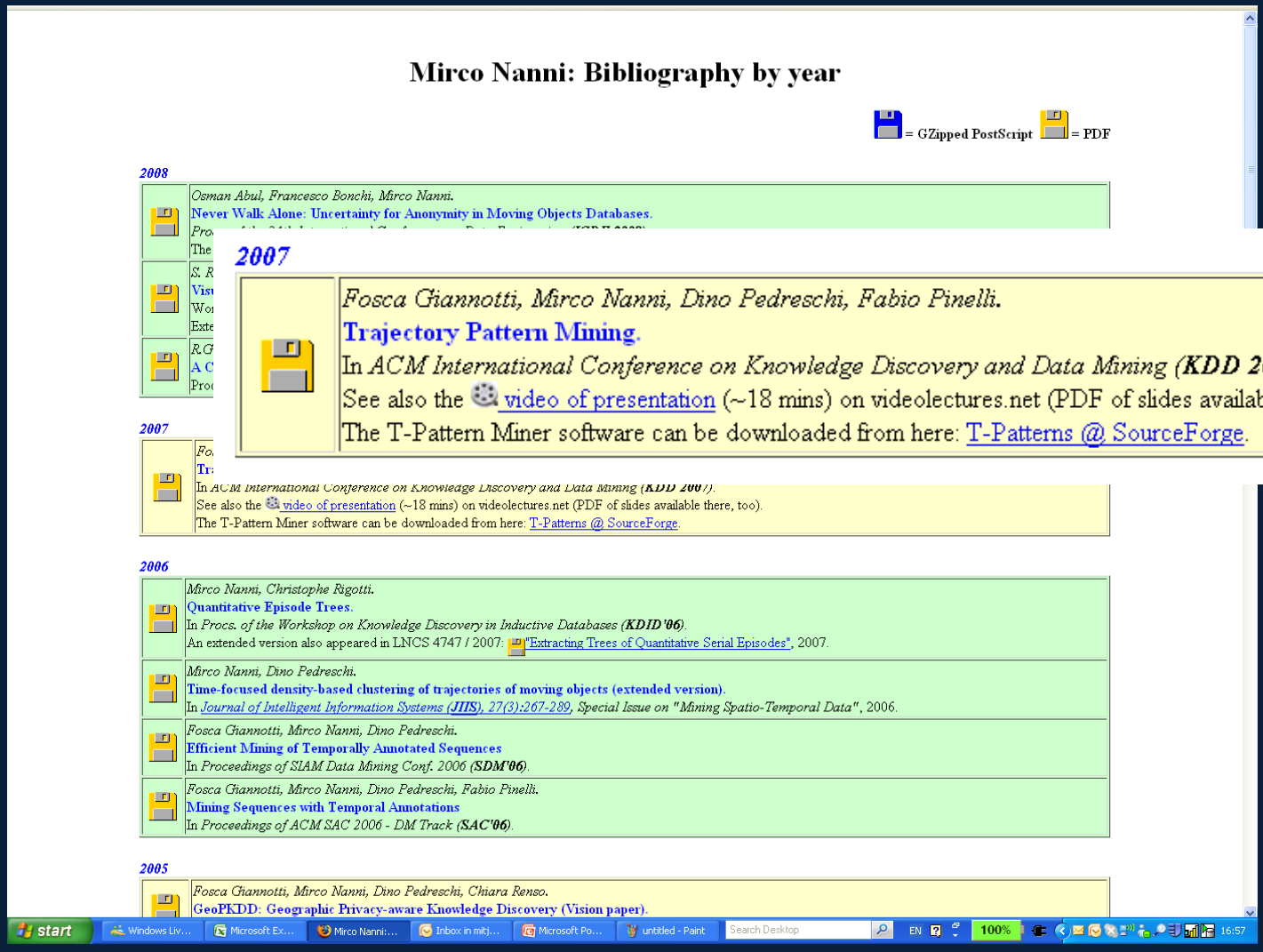

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2005

Fosca Giannotti, Mirco Nanni, Dino Pedreschi, Chiara Renso.
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Impact on hackers

Let's take this site for example: http://videolectures.net/ ⇨ Start a WireShark capture session before clicking on a vi
exchanged between your PC and the remote flash server and you can stop the capture once the video begins to play
handshake. I will use this video as an example: http://videolectures.net/ff06_chomsky_szmp/ ⇨ *[update Jun-2008: l*
of Flash, so try other videos or other sites]

In WireShark you can filter for protocol "rtmpt" and the first few entries would be handshake or "invoke" operations. E

To compile

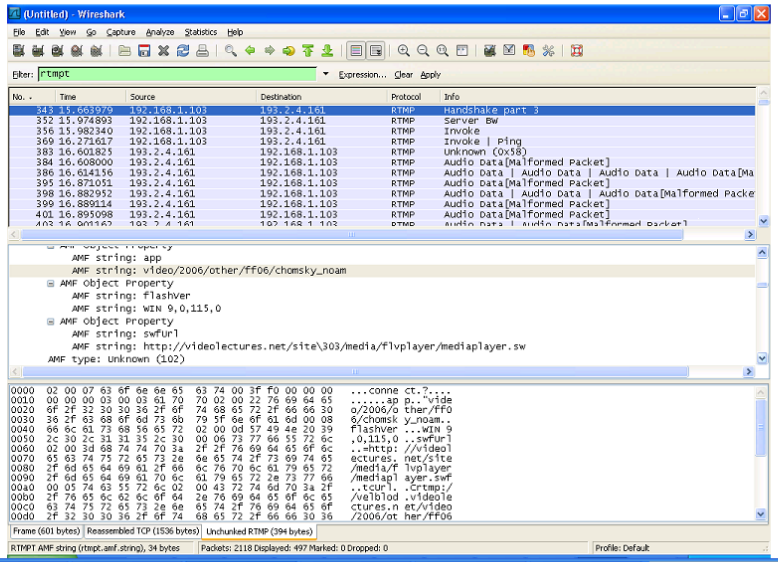
```
commons-
jcl104-o
logback-
logback-
mina-cor
red5.jar
slf4j-ap
spring-b
spring-c
spring-core-2.0.8.jar
```

We need the latest Red5 JAR built from version control (not the latest official release) and I have uploaded these files here: red5-rtmp-client-libszip.pdf ⇨ - just rename the file to end with ".zip" after downloading.

The code shown is hard-coded to connect to "localhost", app name "oflaDemo" and stream name "IronMan.flv" which can be tested on the official Red5 server distribution which you can download ⇨ and run. When it comes to downloading flash streams from the internet, WireShark ⇨ can be used to sniff out the values you need.

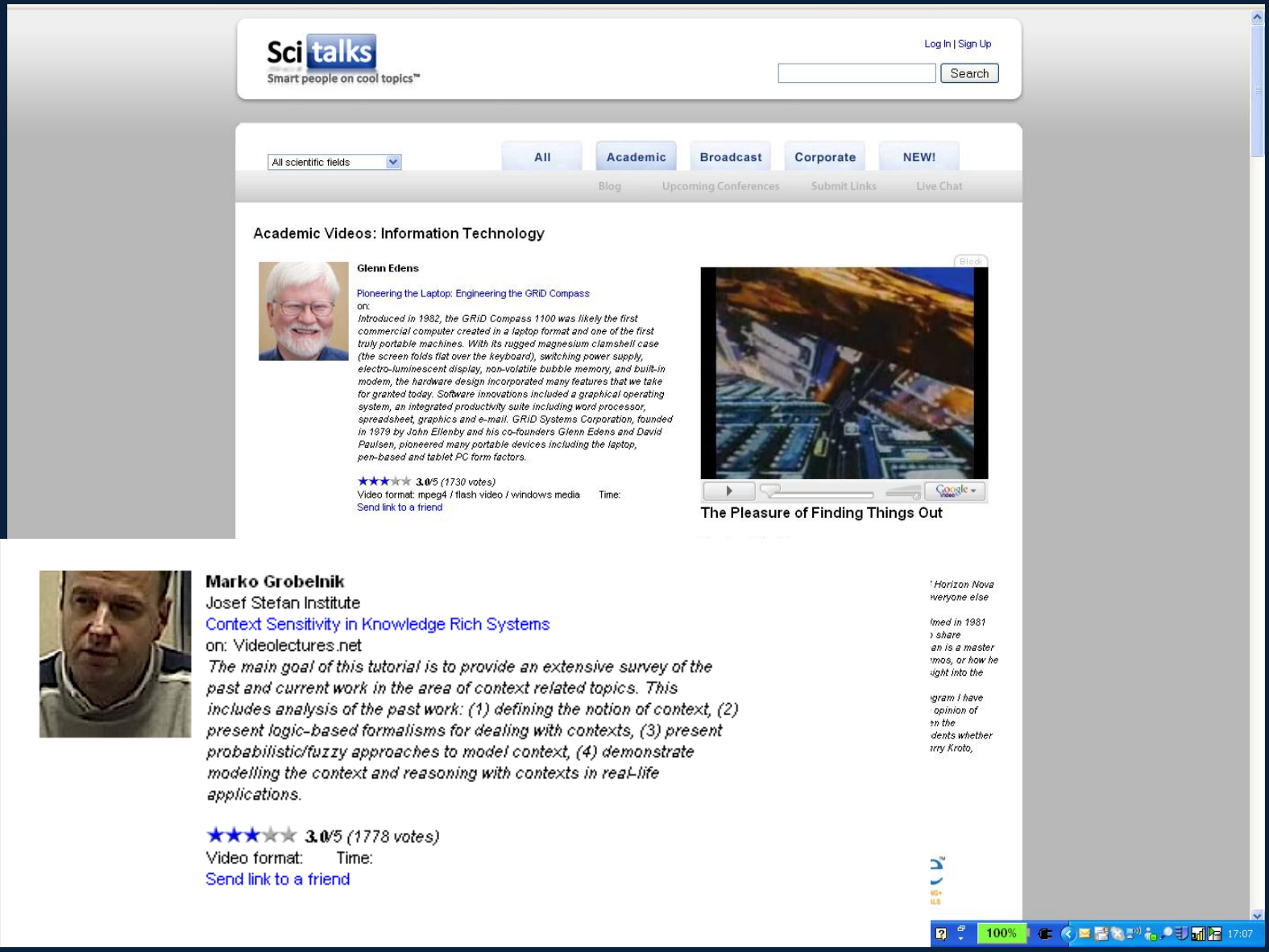
Let's take this site for example: http://videolectures.net/ ⇨ Start a WireShark capture session before clicking on a video on the site to play it. Let WireShark grab all the information exchanged between your PC and the remote flash server and you can stop the capture once the video begins to play, we are only interested in what goes on during the connection handshake. I will use this video as an example: http://videolectures.net/ff06_chomsky_szmp/ ⇨ *[update Jun-2008: looks like they changed this particular video to Windows media instead of Flash, so try other videos or other sites]*

In WireShark you can filter for protocol "rtmpt" and the first few entries would be handshake or "invoke" operations. Examining the "Handshake part 3" we can easily get the value of the required "app" property. Below we can see it is "video/2006/other/ff06/chomsky_noam":



start Windows Liv... Microsoft Ex... RTMP - SWi... Inbox in mitj... Microsoft Po... untitled - Paint Search Desktop EN 100% 16:22

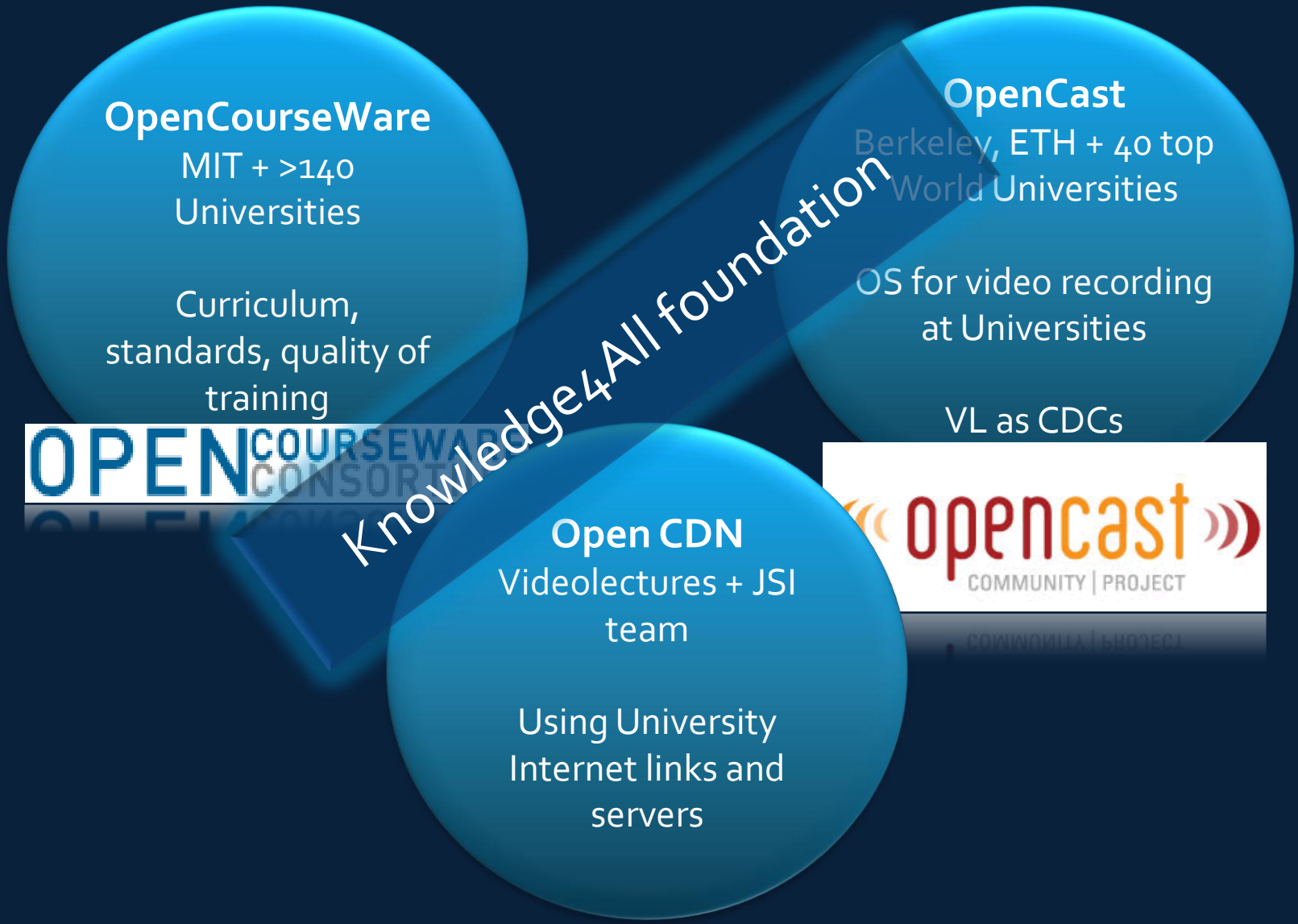
Lecturers are becoming famous



Izzivi

- Tehnični:
  - Open CDN
  - Interoperabilnost
  - Tehnologije za ekstrakcijo informacij iz videa
  - Semantic preiskovanje in personalizacija storitev
- Vsebinski
  - Standardi vsebin
  - IPR
  - Inteligentna mreža atomov znanj
- Organizacijski
- Konceptualni:
  - Izmenjava znanj
  - Obiskovalci kot "Global cognitive authority"
  - Novi poslovni modeli

Kako odgovarjamo na izzive?



K4A - reach

ARCTIC OCEAN
Greenland
Svalbard (Nor.)
ARCTIC OCEAN
United States
Canada
Iceland
Norway
Sweden
Finland
Russia
United Kingdom
Ireland
Estonia
Latvia
Belarus
Ukraine
Kazakhstan
Mongolia
Poland
Germany
Bulgaria
Portugal
Spain
Italy
Greece
Turkey
Azer.
Turkm.
Uzb.
Kyrgyzstan
Tajikistan
N. Korea
S. Korea
Japan
China
Tunisia
Syria
Iraq
Iran
Afg.
Pakistan
Nepal
Bhutan
India
Laos
Taiwan
Morocco
Lebanon
Israel
Jordan
Kuwait
Saudi Arabia
U.A.E.
Oman
Western Sahara
Algeria
Libya
Egypt
Mauritania
Mali
Niger
Chad
Eritrea
Yemen
Djibouti
Sudan
Senegal
Guinea-Bissau
Sierra Leone
Cote d' Ivoire
Togo
Nigeria
C.A.R.
Ethiopia
Somalia
Gabon
Dem. Rep. of Congo
Kenya
Uganda
Tanzania
Rep. of the Congo
Angola
Zambia
Malawi
Madagascar
Namibia
Zimbabwe
Botswana
Mozambique
Swaziland
Lesotho
South Africa
Sri Lanka
Bangl.
Burma
Thailand
Cambodia
Vietnam
Philippines
Malaysia
Indonesia
Papua New Guinea
Solomon Islands
Fiji
Australia
New Zealand
ATLANTIC OCEAN
PACIFIC OCEAN
INDIAN OCEAN
Mexico
Guatemala
Honduras
Nicaragua
Costa Rica
Panama
Ven.
Guyana
French Guiana
Suriname
Colombia
Ecuador
Peru
Brazil
Bolivia
Paraguay
Chile
Argentina
Uruguay

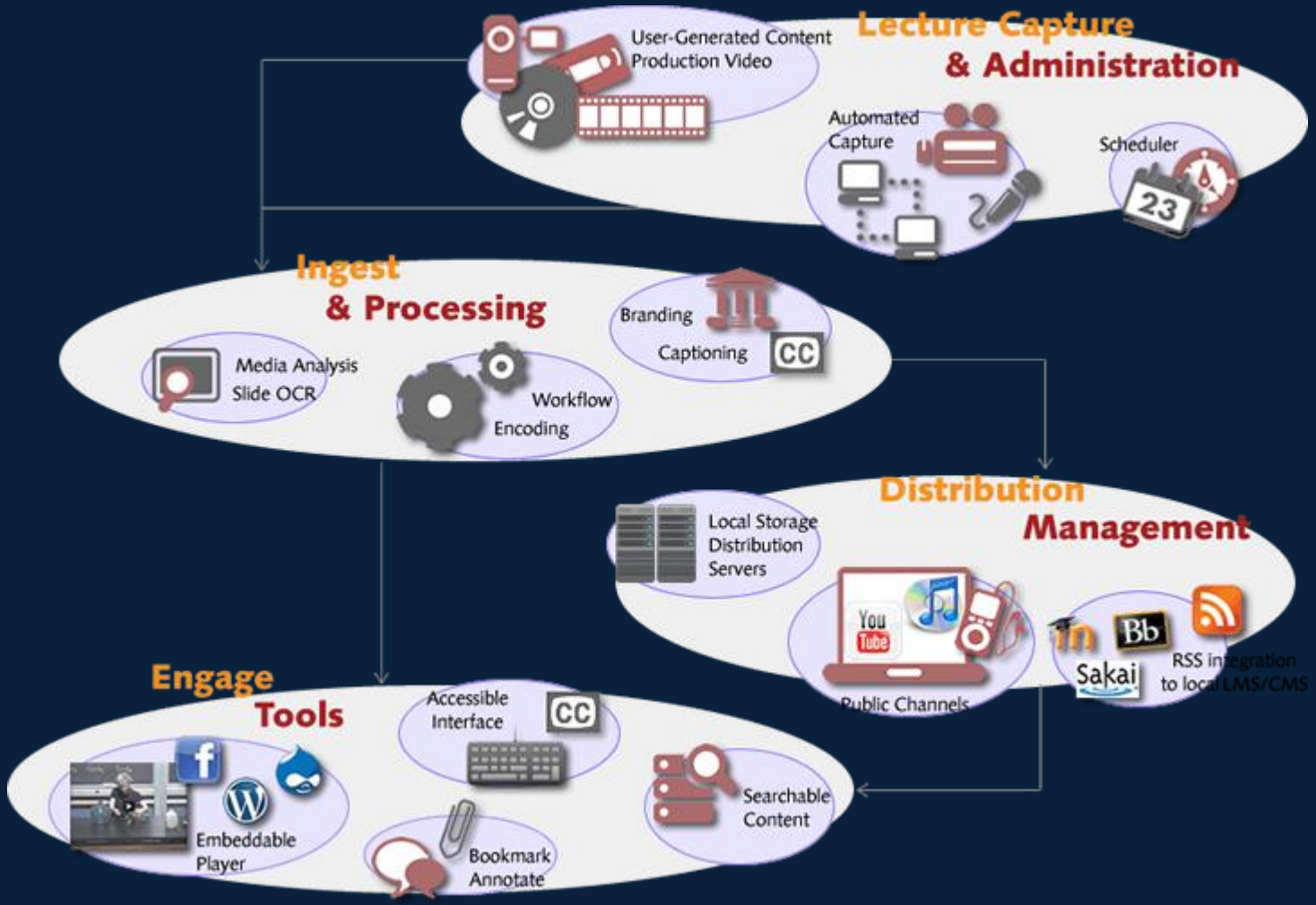
Kje je Slovenija?

- V centru dogajanja!
- Priprava na prvo državo kot pilot, ki se je strateško odločila za odprti dostop do vsebin
- Core skupina:
  - Evropa – Pascal2 Network of Excellence (56)
  - US: Berkeley + Opencast (250) , MIT + OCW (140)
  - Asia: Korea University + Network (22)
  - Africa: Voices of Africa, Kenya + East Africa Universities (22), Kofi Annan Center for ICT and Development, Ghana + West Africa Universities (34)
  - Midde East: US University Dubai + network (8)

Prihodnost?

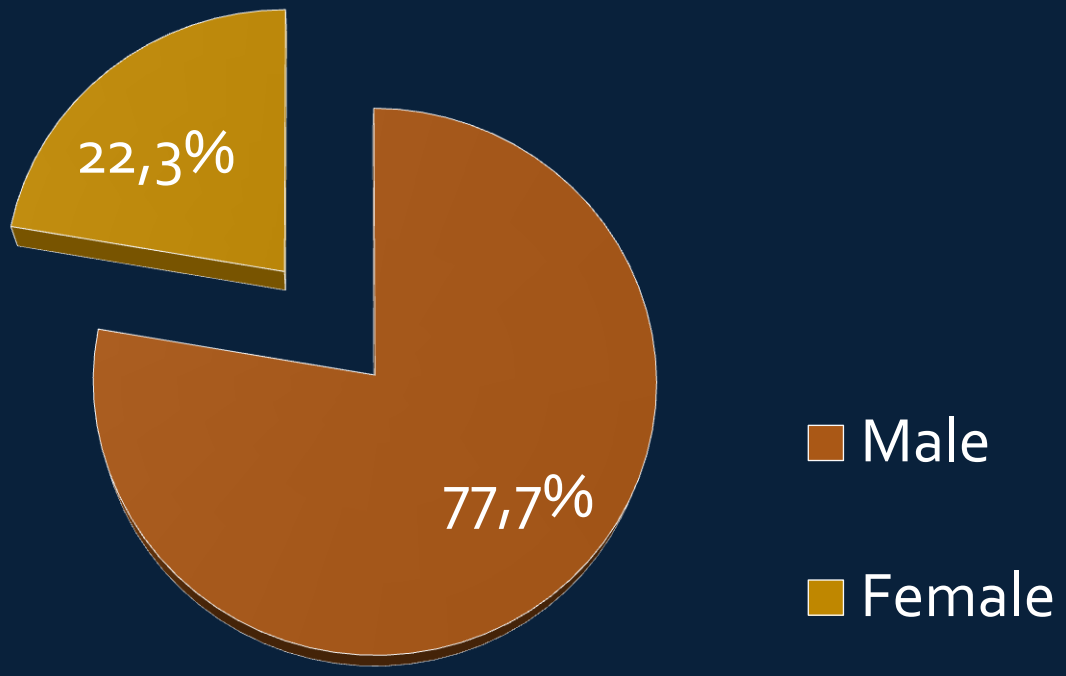
- 300/teden – 3000/teden v 2010/11
- Odprte knjižnice predavanj
- SCI video znanstvene revije
- Virtualne konference
- Virtualne univerze
- Web 2.5 for learning
- Innovation tube
- Preskok na srednje in osnovne šole

Matterhorn



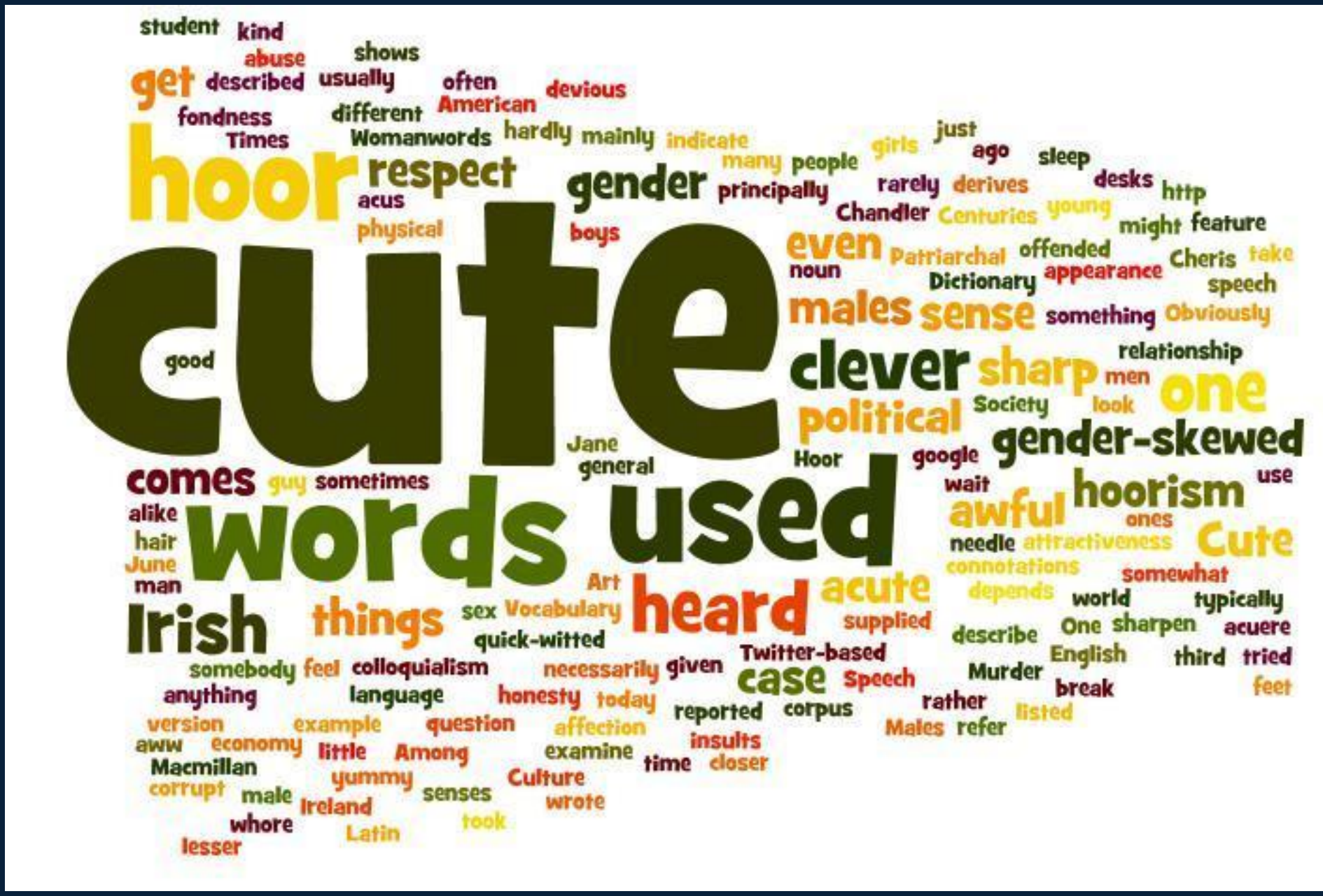
- http://www.opencastproject.org/project/matterhorn

General Overview -(3,533 answers / 20 skipped)



Women in the survey

- Age range: 21% above 46, 20.2% 26-30
- Currently enrolled or employed: 54.5% University
- Position: student 29.1%
- Main reason you visit: watch a course 37.4%
- Content you wish to see more: Graduate courses 48.5%, conference videos 42.4%
- Conference content you wish to see more: tutorials 51.9%
- Academic disciplines videos you wish to see more: Computer Science 27.4%
- Should we concentrate on: video courses from univ. classes 48.8%
- Would you need most on VideoLectures.NET: files download 40.0%
- More important to you regarding video: audio 41.1%
- Default VideoLectures.NET viewing application: 58.9% laptop


student
kind
abuse
shows
get
described
usually
often
devious
American
fondness
different
Times
Womanwords
hardly
mainly
indicate
just
girls
ago
sleep
hoor
respect
gender
many
people
principally
rarely
derives
desks
http
acus
Chandler
Centuries
young
might
feature
physical
boys
cute
even
Patriarchal
offended
Cheris
take
noun
Dictionary
appearance
speech
males
sense
something
Obviously
relationship
good
clever
sharp
men
one
political
Society
look
gender-skewed
Jane
general
Hoor
google
comes
guy
sometimes
wait
hoorism
use
words
used
alike
awful
ones
hair
needle
attractiveness
Cute
June
connotations
somewhat
man
Art
depends
world
typically
Irish
things
sex
Vocabulary
heard
acute
supplied
describe
One
sharpen
acuere
quick-witted
Twitter-based
English
third
tried
somebody
feel
colloquialism
necessarily
given
case
Speech
Murder
break
feet
anything
language
honesty
today
reported
corpus
rather
listed
version
example
question
affection
Males
refer
aww
economy
little
Among
insults
examine
time
closer
Macmillan
yummy
Culture
corrupt
male
Ireland
senses
wrote
whore
took
Latin
lesser