



*Historical Introduction*

*Ethos*

*The WWWVL in 2006*

*The WWWVL and the . . .*

*Conclusion*

# The World Wide Web Virtual Library

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# Knowledge Dissemination

## The WWW Virtual Library

Michael Chapman ..... Arthur Secret  
Raoul Sanchez ..... Lisa Micah

Paper presented to *THE INTERNET SOCIETY*  
Development Special Interest Group  
Wednesday October 18th, 2006 — CERN, Geneva

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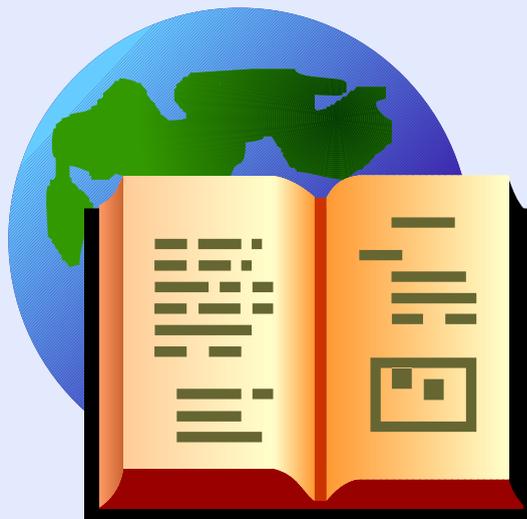
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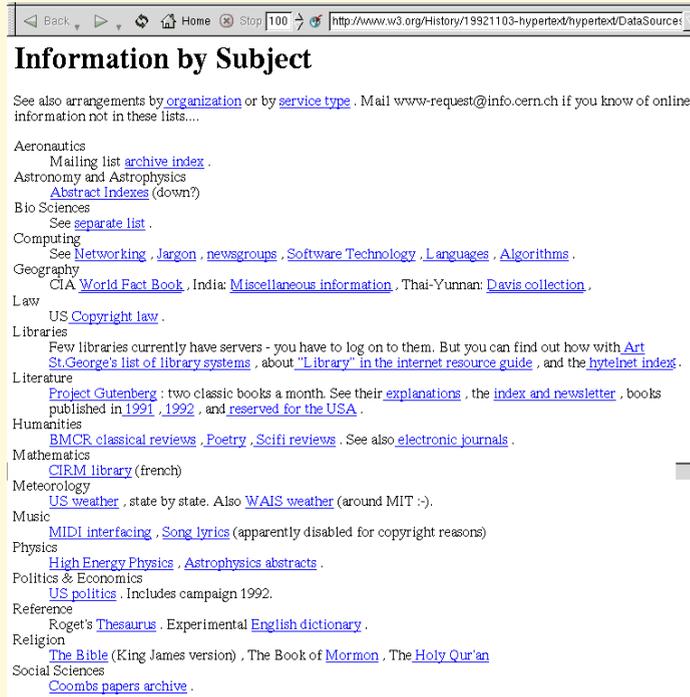
*Close*

*Quit*

1. History
2. What we are
3. The VL in 2006
4. The Future
5. Conclusion

# 1. Historical Introduction

## Overview.html



Information by Subject

See also arrangements by [organization](#) or by [service type](#). Mail [www-request@info.cern.ch](mailto:www-request@info.cern.ch) if you know of online information not in these lists...

- Aeronautics
  - Mailing list [archive index](#).
- Astronomy and Astrophysics
  - [Abstract Indexes](#) (down?)
- Bio Sciences
  - See [separate list](#).
- Computing
  - See [Networking](#), [Jargon](#), [newsgroups](#), [Software Technology](#), [Languages](#), [Algorithms](#).
- Geography
  - CIA [World Fact Book](#), India: [Miscellaneous information](#), Thai-Yunnan: [Davis collection](#).
- Law
  - US [Copyright law](#).
- Libraries
  - Few libraries currently have servers - you have to log on to them. But you can find out how with [Art St. George's list of library systems](#), about "[L library](#)" in the [internet resource guide](#), and the [hytelnet index](#).
- Literature
  - [Project Gutenberg](#): two classic books a month. See their [explanations](#), the [index and newsletter](#), books published in [1991](#), [1992](#), and [reserved for the USA](#).
- Humanities
  - [BMCR classical reviews](#), [Poetry](#), [Sci-fi reviews](#). See also [electronic journals](#).
- Mathematics
  - [CIRM library](#) (french)
- Meteorology
  - [US weather](#), state by state. Also [WAIS weather](#) (around MIT :-).
- Music
  - [MIDI interfacing](#), [Song lyrics](#) (apparently disabled for copyright reasons)
- Physics
  - [High Energy Physics](#), [Astrophysics abstracts](#).
- Politics & Economics
  - [US politics](#). Includes campaign 1992.
- Reference
  - Roget's [Thesaurus](#). Experimental [English dictionary](#).
- Religion
  - [The Bible](#) (King James version), The Book of [Mormon](#), The [Holy Qur'an](#)
- Social Sciences
  - [Coombs papers archive](#).



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November 3rd 1992:



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The screenshot shows a Netscape browser window with the following content:

- Menu bar: File, Edit, View, Tab, Settings, Bookmarks, Go, Tools, Help
- Address bar: http://www.w3.org/History/19921103-hypertext/hypertext/WWW/ThePr
- Page title: World Wide Web
- Text: The WorldWideWeb (W3) is a wide-area [hypermedia](#) information retrieval initiative aiming to give universal access to a large universe of documents.
- Text: Everything there is online about W3 is linked directly or indirectly to this document, including an [executive summary](#) of the project, [Mailing lists](#), [Policy](#), November's [W3 news](#), [Frequently Asked Questions](#).
- Section: [What's out there?](#)  
Pointers to the world's online information, [subjects](#), [W3 servers](#), etc.
- Section: [Help](#)  
on the browser you are using
- Section: [Software Products](#)  
A list of W3 project components and their current state. (e.g. [Line Mode](#), X11 [Viola](#), [NeXTStep](#), [Servers](#), [Tools](#), [Mail robot](#), [Library](#))
- Section: [Technical](#)  
Details of protocols, formats, program internals etc
- Section: [Bibliography](#)  
Paper documentation on W3 and references.
- Section: [People](#)  
A list of some people involved in the project.
- Section: [History](#)  
A summary of the history of the project.
- Section: [How can I help?](#)  
If you would like to support the web..
- Section: [Getting code](#)
- Status bar: Done.



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“... there would be the occasional ‘Hey, I’ve just set up a server, and it’s dead cool. Here’s the address.’

With each new message I would enter in info.cern.ch a hyper-text link to the new web site . . .”

“In July and August 1991 there were from ten to one hundred ‘hits’ (pages viewed) a day.”

Tim Berners-Lee *Weaving the Web* (Harper Business ISBN 0-06-251587-X), pp. 47 & 49.



Back Home Stop 100 http://www.w3.org/History/19921103-hypertext/hypertext/DataSources/

## Information by Subject

See also arrangements by [organization](#) or by [service type](#) . Mail [www-request@info.cern.ch](mailto:www-request@info.cern.ch) if you know of online information not in these lists....

### Aeronautics

Mailing list [archive index](#) .

### Astronomy and Astrophysics

[Abstract Indexes](#) (down?)

### Bio Sciences

See [separate list](#) .

### Computing

See [Networking](#) , [Jargon](#) , [newsgroups](#) , [Software Technology](#) , [Languages](#) , [Algorithms](#) .

### Geography

CIA [World Fact Book](#) , India: [Miscellaneous information](#) , Thai-Yunnan: [Davis collection](#) .

### Law

US [Copyright law](#) .

### Libraries

Few libraries currently have servers - you have to log on to them. But you can find out how with [Art St. George's list of library systems](#) , about "[Library](#)" in the [internet resource guide](#) , and the [hytelnet index](#) .

### Literature

[Project Gutenberg](#) : two classic books a month. See their [explanations](#) , the [index and newsletter](#) , books published in [1991](#) , [1992](#) , and [reserved for the USA](#) .

### Humanities

[BMCR classical reviews](#) , [Poetry](#) , [Scifi reviews](#) . See also [electronic journals](#) .

### Mathematics

[CIRM library](#) (french)

### Meteorology

[US weather](#) , state by state. Also [WAIS weather](#) (around MIT :-).

### Music

[MIDI interfacing](#) , [Song lyrics](#) (apparently disabled for copyright reasons)

### Physics

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### Politics & Economics

[US politics](#) . Includes campaign 1992.

### Reference

Roget's [Thesaurus](#) . Experimental [English dictionary](#) .

### Religion

[The Bible](#) (King James version) , The Book of [Mormon](#) , The [Holy Qur'an](#)

### Social Sciences

[Coombs papers archive](#) .

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# Coombs Papers

This archive is a public archive of academic papers in the social sciences, and also in Pacific Rim geography and religious studies.

## Chose your nearest site

Main archive site is at [Australian Nat'l. University, Canberra](#) with daily copies to [Washington University, St. Louis, USA](#) and with weekly copies to [the US national UUCP gateway, California, USA](#) and [Univ. of Nth Carolina, USA](#).

They are just about to release two WAIS servers - one with inf. about Pacific Manuscripts microfilms collection at ANU, the other one about the anthropological/sociological research in the Thai-Yunnan arrea of the SE Asia. The launching is going to happen tomorrow, 21st May 92.



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August 1992: There are about 20 Web servers in existence.

Ciolek: Global Networking: a Timeline.

VL (with logo) first known screenshot 1993

(by October 1993 — 200+ servers . . .)

Ciolek: Global Networking: a Timeline.



WorldWideWeb	Links
Info	Mark all
Navigate	Mark selection
Document	Link to marked
Find	Link to New
Edit	Unlink
Links	Link to file...
Style	Help
Print...	
Page layout...	
Windows	
Services	
Hide	
Quit	

Tim's Home Page

[My home page](#)

altas

The World-Wide Web Virtual Library: Subject Catalogue

The WWW Virtual Library

High-Energy Physics Information

CERN Welcome

This is a [type](#), and

Mail to [mailto:admin@cern.ch](#)

See also

Aeronaut

Agricultur

[Anthropology](#)

[Archaeology](#)

[Asian Studies](#)

[Astronomy and](#)

[Bio Sciences](#)

European Laboratory for Particle Physics

Geneva, Switzerland

About the Laboratory:

- [on CERN info](#)
- [General information, divisions, groups and activities, scientific committees](#)

Separate list.

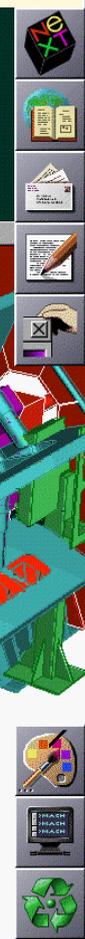
Separate list.

CERN Experiments

**Experiments**

[WWW Support for Experiments](#)

<a href="#">ALEPH</a>	LEP experiment
<a href="#">ALICE</a>	A Large Ion Collider Experiment
<a href="#">ATLAS</a>	A Toroidal LHC Apparatus
<a href="#">CHORUS</a>	WA95 - Neutrino oscillation experiment
<a href="#">CMS</a>	Compact Muon Solenoid



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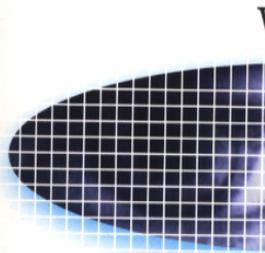
[Close](#)

[Quit](#)



# Weaving THE WEB

## THE ORIGINAL DESIGN AND ULTIMATE DESTINY OF THE



By now the Web consisted of a small number of servers, with info.cern.ch the most interconnected with the rest. It carried a list of servers, which to a degree could coordinate people who were putting information on the Web. When the list became larger, it needed to be organized, so I arranged it in two lists, by geography and by subject matter. As more servers arrived, it was exciting to see how the subjects filled out. Arthur Secret, another student, joined me for a time and set up the lists into what we called the Virtual Library, with a tree structure that allowed people to find things.

Foreword by MICHAEL DERTOUZOS, *Director of MIT Laboratory for Computer Science*

# TIM BERNERS-LEE

WITH MARK FISCHETTI

...ing global  
ndently with offers  
join Karen as a vis-  
itor at Xerox PARC.  
e both institutions  
me a much-needed  
States rather than  
than physics.  
ple like Larry and  
Web on more Inter-  
Web on more Inter-  
y the fact that the  
We trod a fine line  
ers within CERN at  
pursuing the goal of  
ed out for not stick-

g used much within  
or that matter—was  
) for anything other  
king, hypertext, and  
for the Web to grow,  
ntosh, and Unix. At  
t for the X Window  
t I had no resources.  
ng that there was no

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## IMMEDIATE DESTINY OF THE

By now the Web consisted of a small number of servers, with info.cern.ch the most interconnected with the rest. It carried a list of servers, which to a degree could coordinate people who were putting information on the Web. When the list became larger, it needed to be organized, so I arranged it in two lists, by geography and by subject matter. As more servers arrived, it was exciting to see how the subjects filled out. Arthur Secret, another student, joined me for a time and set up the lists into what we called the Virtual Library, with a tree structure that allowed people to find things.

HAEL DERTOUZOS, *Director of MIT Laboratory for Computer Science*

g used much within  
or that matter—was  
) for anything other  
king, hypertext, and

# BERNERS LEE



Location Edit View Go Bookmarks Tools Settings Window Help

Location file:/home/mchapman/VL/yahoo.html

## Yahoo

- **Art** (619)
- **Business** (8546)
- **Computers** (3266)
- **Economy** (898)
- **Education** (1839)
- **Entertainment** (8874)
- **Environment and Nature** (268)
- **Events** (64)
- **Government** (1226)
- **Health** (548)
- **Humanities** (226)
- **Law** (227)
- **News** (307)
- **Politics** (184)
- **Reference** (495)
- **Regional Information** (4597)
- **Science** (3289)
- **Social Science** (115)
- **Society and Culture** (933)

*There are currently **31897** entries in the Yahoo database*

---

**Some Other General Internet Directories:**  
[ [WWW Virtual Library](#) \* [EINet Galaxy](#) \* [University of Michigan Clearinghouse](#) ]  
[ [GNN - Whole Internet Catalog](#) \* [Planet Earth](#) \* [Yanoff's Connections](#) ]

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March 1995/2005:

- [Social Science](#) (115) **NEW**
- [Society and Culture](#) (933) **NEW**

*There are currently **31897** entries in the Yahoo database*

**Some Other General Internet Directories:**

- [ [WWW Virtual Library](#) \* [EINet Galaxy](#) \* [University of Michigan Clearinghouse](#) ]  
[ [GNN - Whole Internet Catalog](#) \* [Planet Earth](#) \* [Yanoff's Connections](#) ]



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WWWVL

## 2. Ethos

- What we are
- What we are not
- Summary



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## 2.1. What we are

The same concept from inception until now.

Like the Web itself, the VL is simple and logical.

Like the Web itself, it also has at its foundation the free distribution of free information.



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## 2.2. What we are not

*“It is futile to discuss whether the Index or the table of Contents is the more useful in a book.”*



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*Not a search engine ...*

Google no longer say, on their main welcome page, how many pages they index ... but a search for “html” earlier this year produced 12,920,000,000 pages.

Compared with that 11 figure total the VL only refers to a *six* figure number of links/URLs.

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*Not an encyclopædic directory project . . .*

Compared with **dmoz**/ODP, both volunteer:

“Just as the Oxford English Dictionary became the definitive word on words through the efforts of a volunteers, the Open Directory follows in its footsteps to become the definitive catalog of the Web.”

but attributable v. “The Republic of the Web”.

VL is more monographic as against dmoz’s ambition to be encyclopædic.

(One could say ‘academic’ v general, but that has too many pejorative overtones.)



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*Not an encyclopædic directory project . . .*

VL is attributable. VL is selective.

VL lacks a Wiki's speed of response.

Again 'different animals'.



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Quality rather than breadth.

Indeed the one thing we do well is ‘focussed’ VLs.

We are determined to keep the original VL concept, but seeking to finance that without commercialisation will be the challenge.

## 2.3. Summary

The best paper comparison is perhaps with a small academic publisher.

We select / are selected by individuals who have a discrete collection of knowledge they wish to put before a (perhaps specialist) public. They contribute their knowledge, their expertise. We 'market' their oeuvre, both actually by placing in the Catalog, but also by adding our 'imprimatur' to the work.



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A collection of

- \* individual,
- \* attributable,
- \* autonomous,
- \* expert subject indices.

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A collection of

- \* individual,
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*“It is futile to discuss whether the Index or the table of Contents is the more useful in a book.”*



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*vlib.org*

### 3. The WWWVL in 2006

- The Association
- Central Services
  1. Catalog
  2. VLsearch
  3. Topic Map
- Infrastructure



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### 3.1. The Association

The WWWVL consists of over two hundred individual VLs, each maintained by individuals and institutions based throughout the World.

Many of those VLs are leading resources in their own fields of study, irrespective of their WWWVL membership.

VLs in English, French, German.  
Parts of VLs in many, many languages.



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## Services to members:

- link checking (?spell checking, accessibility checking, ...)
- site establishment/design guidance
- discussion lists
- ... meetings (first regional meeting, in Geneva this year)

## Also ...

- Press relations
- Copyright permissions
- 'Outreach' ... today!

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## 3.2. Central Services

The Web interface to/for the public.

- a hierarchical catalogue
- a search engine
- a topic map (. . . to be queriable)



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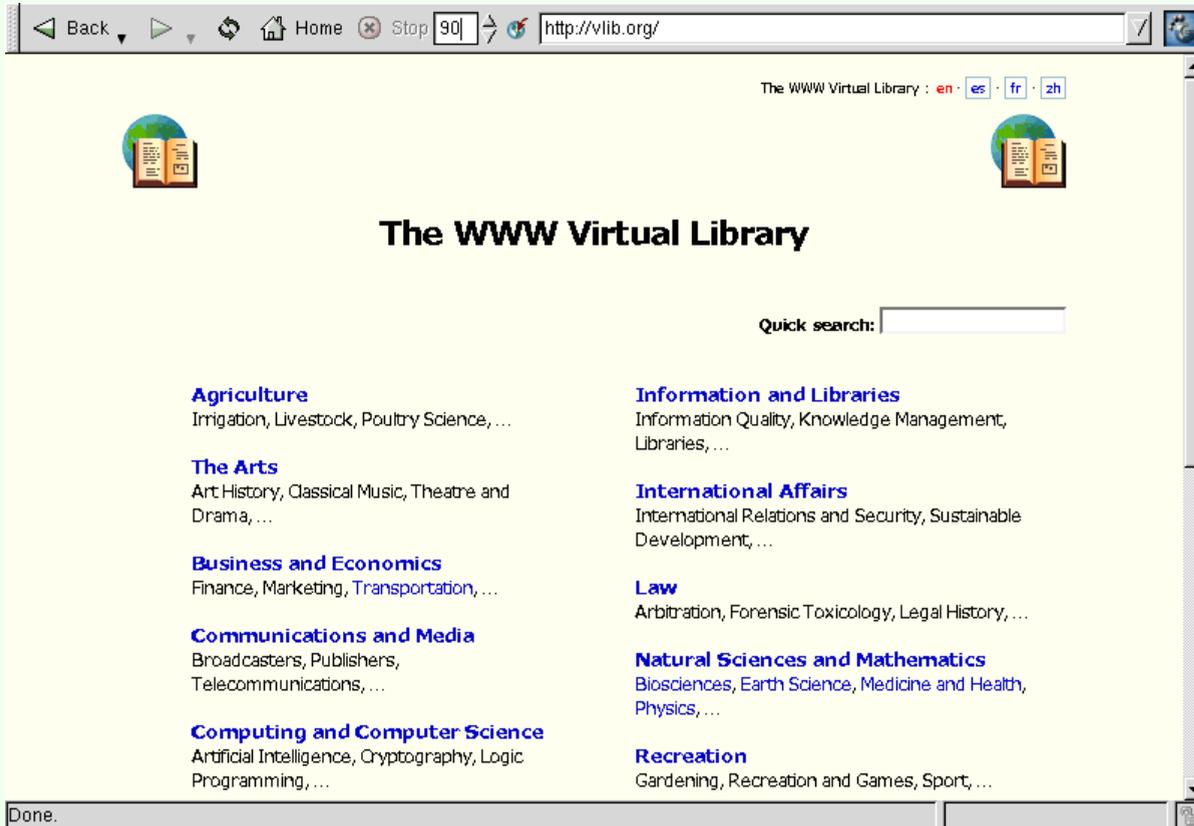
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### 3.2.1. Central Catalog



The screenshot shows a web browser window with the address bar containing "http://vlib.org/". The page title is "The WWW Virtual Library". At the top right, there are language selection links: "en", "es", "fr", and "zh". The main heading is "The WWW Virtual Library". Below the heading is a "Quick search:" field. The page is organized into two columns of subject categories, each with a blue heading and a list of sub-topics. The left column includes Agriculture, The Arts, Business and Economics, Communications and Media, and Computing and Computer Science. The right column includes Information and Libraries, International Affairs, Law, Natural Sciences and Mathematics, and Recreation. The browser's status bar at the bottom shows "Done."

Back Home Stop 90 http://vlib.org/

The WWW Virtual Library : en · es · fr · zh

## The WWW Virtual Library

Quick search:

**Agriculture**  
Irrigation, Livestock, Poultry Science, ...

**The Arts**  
Art History, Classical Music, Theatre and Drama, ...

**Business and Economics**  
Finance, Marketing, Transportation, ...

**Communications and Media**  
Broadcasters, Publishers, Telecommunications, ...

**Computing and Computer Science**  
Artificial Intelligence, Cryptography, Logic Programming, ...

**Information and Libraries**  
Information Quality, Knowledge Management, Libraries, ...

**International Affairs**  
International Relations and Security, Sustainable Development, ...

**Law**  
Arbitration, Forensic Toxicology, Legal History, ...

**Natural Sciences and Mathematics**  
Biosciences, Earth Science, Medicine and Health, Physics, ...

**Recreation**  
Gardening, Recreation and Games, Sport, ...

Done.



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# Interfaces in various languages.



Browser address bar: <http://vlib.org/index.zh>

萬維網虛擬圖書館 : [en](#) · [es](#) · [fr](#) · [zh](#)



## 萬維網虛擬圖書館

快速搜索

<a href="#">人文学及人文研究</a>	<a href="#">法律</a>
<a href="#">商學與經濟學</a>	<a href="#">社會學</a>
<a href="#">國際時事</a>	<a href="#">社會行為學</a>
<a href="#">地域研究</a>	<a href="#">自然科學與數學</a>
<a href="#">娛樂休閒</a>	<a href="#">計算與電腦科學</a>
<a href="#">工程學</a>	<a href="#">資訊與圖書管理</a>

Done.

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# Looking for *Myanmar*



Back Home Stop 90 http://vlib.org/

The WWW Virtual Library : en · es · fr · zh



## The WWW Virtual Library

Quick search:

**Agriculture**  
Irrigation, Livestock, Poultry Science, ...

**The Arts**  
Art History, Classical Music, Theatre and Drama, ...

**Business and Economics**  
Finance, Marketing, Transportation, ...

**Communications and Media**  
Broadcasters, Publishers, Telecommunications, ...

**Computing and Computer Science**  
Artificial Intelligence, Cryptography, Logic Programming, ...

**Information and Libraries**  
Information Quality, Knowledge Management, Libraries, ...

**International Affairs**  
International Relations and Security, Sustainable Development, ...

**Law**  
Arbitration, Forensic Toxicology, Legal History, ...

**Natural Sciences and Mathematics**  
Biosciences, Earth Science, Medicine and Health, Physics, ...

**Recreation**  
Gardening, Recreation and Games, Sport, ...

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Arbitration, Forensic Toxicology, Legal History, ...

**Communications and Media**  
Broadcasters, Publishers,  
Telecommunications, ...

**Computing and Computer Science**  
Artificial Intelligence, Cryptography, Logic  
Programming, ...

**Education**  
Primary, Secondary, Tertiary, ...

**Engineering**  
Architecture, Electrical, Mechanical, ...

**Humanities and Humanistic Studies**  
History, Languages and Linguistics,  
Museums, ...

**Natural Sciences and Mathematics**  
Biosciences, Earth Science, Medicine and Health,  
Physics, ...

**Recreation**  
Gardening, Recreation and Games, Sport, ...

**Regional Studies**  
African, Asian, Latin American, European, ...

**Social and Behavioural Sciences**  
Anthropology, Archaeology, Population and  
Development Studies, ...

**Society**  
Peoples, Religion, Gender Studies, ...

**Mirrors:** [vlib.org](http://vlib.org) (CH), [East Anglia](http://www.vlib.org.uk) (UK).

[About](#) | [Contact](#) | [Donors](#) | [Topics](#)

Pages updated on Saturday, May 6, 2006 - 11:45:41 GMT .  
These pages are produced automatically from a topic map of the Virtual Library.  
These pages and the database © WWW Virtual Library 1991-latest update.  
All rights reserved, including [database rights](#).  
The WWW Virtual Library ('The VL') is an association sans but *à*cratif established in the Republic and Canton of Geneva.

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## The WWW Virtual Library Regional Studies

Quick search:

### Narrower Categories

[Asian Studies](#)  
[Germany](#)

<b>Aboriginal Languages of Australia</b>	<p><a href="#">Aboriginal Languages of Australia</a></p> <p>There are more than 200 Australian Indigenous languages. Less than 20 languages are strong, and even these are endangered: the others have been destroyed, live in the memories of the elderly, or are being revived by their communities. This site has annotated links to 180 resources for about 60 languages. About 25% of these resources are produced or published by Indigenous people.</p> <p><b>see also:</b> <a href="#">Aboriginal Studies</a>.</p> <p><b>this resource in English is indexed under:</b> <a href="#">Languages and Linguistics</a>, <a href="#">Regional Studies</a>.</p>
	<p><a href="#">Aboriginal Studies</a></p> <p>Guide to aboriginal studies. This site is maintained in conjunction with the Center For World</p>

Done.

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Back Home Stop 100 http://vlib.org/AsianStudies

Asian Studies : en · es · fr · zh



## The WWW Virtual Library Asian Studies

Quick search:

<b>Asian Studies</b>	<a href="#">Asian Studies</a> Over 10 years of continuous service to the online community; Provision of expert information services, by the experts, for the experts. This research tool is produced by the Internet Publications Bureau, Research School of Pacific and Asian Studies at the Australian National University (ANU), Canberra. <b>this resource in English is indexed under:</b> Asian Studies.
<b>Asian Continent</b>	<a href="#">Asian Continent</a> This document keeps track of leading information facilities pertaining to the whole of the Asian continent. <b>this resource in English is indexed under:</b> Asian Studies.
<b>Asian Studies Electronic Mailing Lists</b>	<a href="#">Asian Studies Electronic Mailing Lists</a> Electronic mailing lists associated with the extensive Asian Studies Virtual Library network. <b>this resource in English is indexed under:</b> Asian Studies.

Done.

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Back Home Stop 100 http://vlib.org/AsianStudies

<b>Asian Studies WWW Monitor</b>	<a href="#">Asian Studies WWW Monitor</a> The Asian Studies WWW Monitor (ISSN 1329-9778) was established 21 April 1994. The journal, a pioneering and the only publication of this kind in the world, provides daily abstracts and reviews of new/updated online resources of significance to research, teaching and communications dealing with Asian Studies. It is published by the Internet Publications Bureau, RSPAS, National Institute for Asia and the Pacific, ANU. The periodical forms a key element of the global, cooperative project Asian Studies WWW Virtual Library. <b>this resource in English is indexed under:</b> Asian Studies.
<b>Asian and Pacific Studies Electronic Journals</b>	<a href="#">Asian and Pacific Studies Electronic Journals</a> This document keeps track of leading online serials of value/significance to researchers in Asian and Pacific Studies. <b>this resource in English is indexed under:</b> Asian Studies.
<b>Australian Agriculture</b>	<a href="#">Australian Agriculture</a> This Virtual Library aims to provide information on various topics that relate to Australian and New Zealand farming industries. <b>this resource in English is indexed under:</b> Agriculture, Asian Studies.
<b>Bangladesh</b>	<a href="#">Bangladesh</a> The Bangladesh WWW VL is a part of the Asian Studies WWW Virtual Library Project and of the South Asia WWW Virtual Library. It was originally established on 24th March, 1994, by Dr T. Matthew Colek, Australian National University (ANU). From 1997 to 2002 it was managed by Kamal R. Adhikary, Asian Studies, UT Austin. The site is now maintained by Eduardo Contreras. <b>this resource in English is indexed under:</b> Asian Studies.
<b>Burma (Myanmar)</b>	<a href="#">Burma (Myanmar)</a> Classified and annotated links to more than 5000 full text documents on Burma/Myanmar. <b>this resource in English is indexed under:</b> Asian Studies.
<b>China</b>	<a href="#">China</a> The Internet Guide for Chinese Studies (IGCS) is part of the World Wide Web Virtual Library Project, which was founded at CERN by Tim Berners-Lee, the inventor of the World Wide

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 The World-Wide Web Virtual Library  
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 ASIAN STUDIES WWW VIRTUAL LIBRARY

# Online Burma/Myanmar Library

*Classified and annotated links  
to more than 11,000 full text documents on Burma/Myanmar*

[Introduction](#) | [Structural Overview](#) | [What's New](#) | [Advanced Search](#) | [Feedback](#)

Search

**Main Library** (by subject): Activism; Archeology; Aung San Suu Kyt; Children; Civil Society; Civil war; Dialogue/Transitio  
Drugs; Economy; Education; Environment; Ethnic and minority groups in Burma; Foreign Relations; Funding; Geography;  
Health; History; Human Rights; International Assistance to Burma; Internal Displacement; International Labour Organisation  
Labour Issues; Languages of Burma; Law; Migrants; Military (Tatmadaw); Palaeontology; Politics and Government; Refugee  
Social policies; Society and Culture; SPDC-related sites; Sustainability; The United Nations System; Tourism; Trafficking;  
Women.

**Reading Room** (by source): Bibliographies, universities, institutes, libraries, other research tools; Burma news (archive  
Burma news (breaking); Burma news (current); Burmese Community sites; Burmese-language news sources;  
Confederations; Disasters; Economic; Ethnic; Human Rights; International Labour Organisation; International Law; International  
Labour Issues; Languages of Burma; Law; Migrants; Military (Tatmadaw); Palaeontology; Politics and Government; Refugee  
Social policies; Society and Culture; SPDC-related sites; Sustainability; The United Nations System; Tourism; Trafficking;  
Women.

Done.

# Usage:



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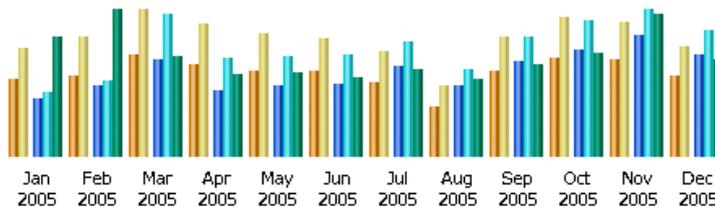
[Quit](#)

## Summary

<b>Reported period</b>	Year 2005				
<b>First visit</b>	01 Jan 2005 - 00:00				
<b>Last visit</b>	31 Dec 2005 - 23:58				
	<b>Unique visitors</b>	<b>Number of visits</b>	<b>Pages</b>	<b>Hits</b>	<b>Bandwidth</b>
Viewed traffic *	<b>&lt;= 879441</b> Exact value not available in 'Year' view	<b>1244901</b> (1.41 visits/visitor)	<b>3815042</b> (3.06 pages/visit)	<b>4911222</b> (3.94 hits/visit)	<b>15.46 GB</b> (13.02 KB/visit)
Not viewed traffic *			<b>3695561</b>	<b>4474906</b>	<b>4.69 GB</b>

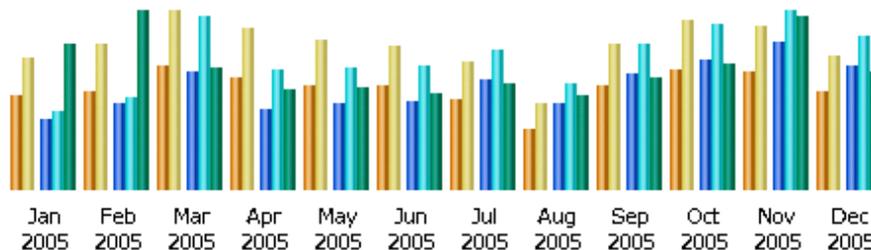
\* Not viewed traffic includes traffic generated by robots, worms, or replies with special HTTP status codes.

## Monthly history





## Monthly history



Month	Unique visitors	Number of visits	Pages	Hits	Bandwidth
Jan 2005	67001	94207	217869	237972	1.52 GB
Feb 2005	70994	104547	263158	281958	1.88 GB
Mar 2005	88623	127805	359994	532927	1.29 GB
Apr 2005	80491	115451	247323	366342	1.06 GB
May 2005	74714	107258	267551	377381	1.07 GB
Jun 2005	73997	103155	270429	379142	1.00 GB
Jul 2005	64624	91394	335817	427027	1.11 GB
Aug 2005	43872	61664	263555	328160	1005.86 MB
Sep 2005	73973	104360	353982	447580	1.18 GB
Oct 2005	86546	121786	402057	509280	1.31 GB
Nov 2005	84576	116920	451640	548911	1.82 GB
Dec 2005	70030	96354	381667	474542	1.24 GB
<b>Total</b>	<b>879441</b>	<b>1244901</b>	<b>3815042</b>	<b>4911222</b>	<b>15.46 GB</b>

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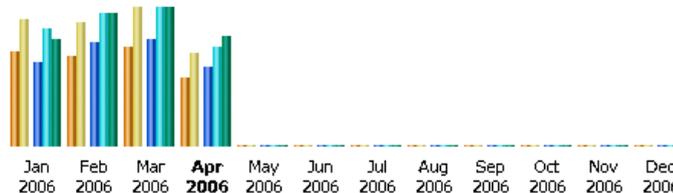
Quit

### Summary

<b>Reported period</b>	Month Apr 2006				
<b>First visit</b>	01 Apr 2006 - 00:00				
<b>Last visit</b>	24 Apr 2006 - 02:01				
	Unique visitors	Number of visits	Pages	Hits	Bandwidth
Viewed traffic *	<b>58879</b>	<b>79947</b> (1.35 visits/visitor)	<b>223431</b> (2.79 pages/visit)	<b>278443</b> (3.48 hits/visit)	<b>1.08 GB</b> (14.13 KB/visit)
Not viewed traffic *			<b>432011</b>	<b>451915</b>	<b>675.36 MB</b>

\* Not viewed traffic includes traffic generated by robots, worms, or replies with special HTTP status codes.

### Monthly history



Month	Unique visitors	Number of visits	Pages	Hits	Bandwidth
Jan 2006	81070	109750	233339	328307	1.05 GB
Feb 2006	77888	107144	292064	370901	1.31 GB
Mar 2006	85490	119140	300524	386862	1.36 GB
<b>Apr 2006</b>	<b>58879</b>	<b>79947</b>	<b>223431</b>	<b>278443</b>	<b>1.08 GB</b>
May 2006	0	0	0	0	0

## Hierarchical catalogue, the 'Catalog':

- built from a database (actually a topic map), this allows:
  - rich cross-linking
  - entries to easily appear on more than one page
  - rapid, easy updating
- the most popular entry point for the VL, with approaching one million unique visitors per year.



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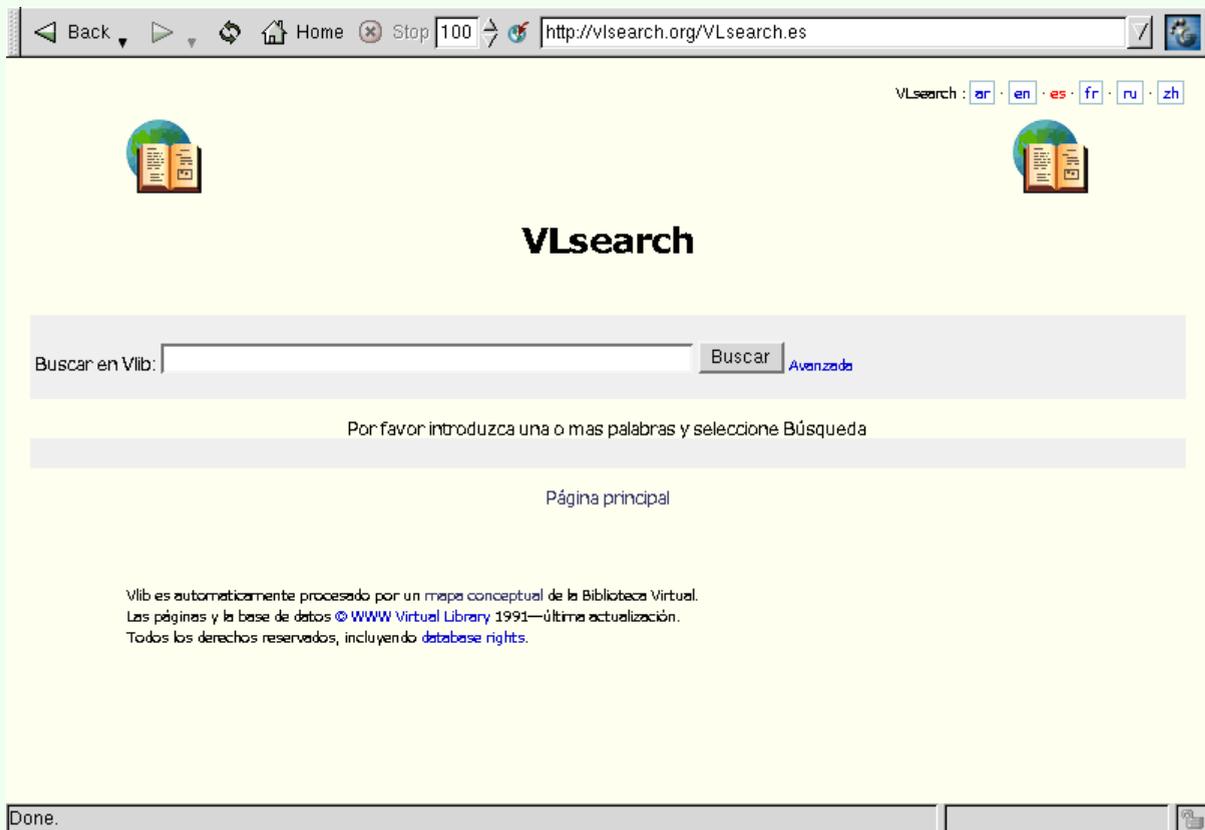
*Go Back*

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*Quit*

### 3.2.2. VLsearch



The screenshot shows a web browser window with the address bar containing `http://vlsearch.org/VLsearch.es`. The page features a search bar with the text "Buscar en Vlib:" and a "Buscar" button, with a link to "Avanzada" (Advanced) search. Below the search bar, there is a message: "Por favor introduzca una o mas palabras y seleccione Búsqueda" (Please enter one or more words and select Search). The page title is "VLsearch". In the top right corner, there are language selection links: "ar", "en", "es", "fr", "ru", and "zh". At the bottom of the page, there is a footer with the text: "Vlib es automaticamente procesado por un mape conceptual de la Biblioteca Virtual. Las páginas y la base de datos © WWW Virtual Library 1991—última actualización. Todos los derechos reservados, incluyendo database rights."



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VLsearch : [ar](#) · [en](#) · [es](#) · [fr](#) · [ru](#) · [zh](#)



## VLsearch

Search for:

Search!

[Simple mode](#)

match:

[Boolean syntax HELP](#)

Results per page:

Output format:

Search for:

Words forms:

Use synonyms:

URL matches:

Document types:

e.g. <http://vlib.org/>, [manual/](#), [index.html](#)

Please enter one or more words and press Search.

[Main Page](#)

Vlib pages are produced automatically from a topic map of the Virtual Library.  
Pages and the database © WWW Virtual Library 1991-latest update.  
All rights reserved, including [database rights](#).

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## VLsearch --- VL أبحث

طريقة  أبحت  بسيطة

أبحث علا  أبحت علا

أجمع الكلمات  الكا  عدد النتائج ١٠  الكا  مساعدة لاتنسيقك الدول

شكل الخروج  طدا  حالات الكلمات  الكلمة كاملة  أبحت علا

استعمل المترادفات  ...  أنواع الحجم  كا الأناء

مثل:  http://vlib.org./topics/ , index.html

العناوين

أبحث  أبحث

أبحث

الصفحة الرئيسية

معلومات vlib " ناتجة بختائها من مختارات مختن المكتبة الفرضية- الصلحات وقاعدة المعلومات

WWW Virtual Library © اختوتاريخ الرجاعة ١٩٩٩

Done.

# About search engine optimisation



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The WWW Virtual Library : en · es · fr · zh



## The WWW Virtual Library

Quick search:

**Agriculture**  
Irrigation, Livestock, Poultry Science, ...

**The Arts**  
Art History, Classical Music, Theatre and Drama, ...

**Business and Economics**  
Finance, Marketing, Transportation, ...

**Communications and Media**  
Broadcasters, Publishers, Telecommunications, ...

**Computing and Computer Science**  
Artificial Intelligence, Cryptography, Logic

**Information and Libraries**  
Information Quality, Knowledge Management, Libraries, ...

**International Affairs**  
International Relations and Security, Sustainable Development, ...

**Law**  
Arbitration, Forensic Toxicology, Legal History, ...

**Natural Sciences and Mathematics**  
Biosciences, Earth Sciences, Medicine and Health, Physics, ...

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Back Home Stop 100 <http://vlsearch.org/VLsearch?q=seo>

VLsearch: [ar](#) · [en](#) · [es](#) · [fr](#) · [ru](#) · [zh](#)

# VLsearch

Search for:  Search! [Advanced](#)

Search for **seo**. Search results: **seo** : 43. Results 1-10 of 16. Search took 0.736 seconds  
Sort by: **relevancy** | [last modified date](#) | [title](#)

1. WWW Virtual Library --- Advanced browsing :: screen size : foreign languages : text length : summarize : html : auto-completion  
... - Selection of information - Deep web - Advanced search - **SEO** - Periodic search - Meta search - Other people search for you ... word of caution What you should know before contacting **SEO** firms. Blog: **SEO** Memo Discussions about search engine optimization. **SEO** Today Articles about what's happening in the **SEO** world. **SEO** Chat Articles about **SEO** world, tools, a newsletter... Do-it-yourself **SEO**. 3-step guide, very practical-minded **SEO** Toolkit 21-step ...  
<http://artsages.com/VLbrowsing/> - 20180 bytes [text/html] - Thu, 13 Apr 2006, 12:17:50 GMT  
[\[Cached copy\]](#)
2. Internet Technologies Are Changing Public Relations: Article From KnowThis.com  
... In fact, a new industry called Search Engine Optimization (**SEO**) was born as technology people

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Advanced browsing : en



## WWW Virtual Library --- Advanced browsing

Resources to improve search, selection and readability of information.

---

Broader categories :

- [WWW Virtual Library --- Information and Libraries](#)
- [WWW Virtual Library --- Computing and Computer Science](#)

Contents:

- [Screen size](#) - [Foreign languages](#) - [Text length / Summarize](#) - [Auto-completion](#) - [Personalized pages](#)
- [Click tagging](#) - [Selection of information](#) - [Deep web](#) - [Advanced search](#) - [SEO](#) - [Periodic search](#) - [Meta search](#) - [Other people search for you.](#)

- ★ Starred entries are especially recommended.
- ! New entries are added periodically.

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altavista can show either a maximum of two results per site, or all results from the same site.

## Search Engine Optimization

*The dark arts of the Web or how to come on top of search engines results,*

Google's [word of caution](#)

What you should know before contacting SEO firms.

Blog: [SEO Memo](#)

Discussions about search engine optimization.

[SEO Today](#)

Articles about what's happening in the SEO world.

[SEO Chat](#)

Articles about SEO world, tools, a newsletter...

[Do-it-yourself SEO](#).

3-step guide, very practical-minded

[SEO Toolkit](#)

21-step guide to optimize your web site for search engines, more theory than in the previous link. Also [in German](#).

List of [free SEO tools](#)

From the [SEO Book](#).

What is [SEO](#) ?

From Wikipedia.

[Meta-Tag.net](#)

"Everything you ever wanted to know about meta tags."

[SEO tips](#)

Some figures, some advice. Quick to read.

[Google news forum](#) and [archive](#)

Get the answers about the SEO questions you didn't even think of! This is not a resource for SEO beginners.

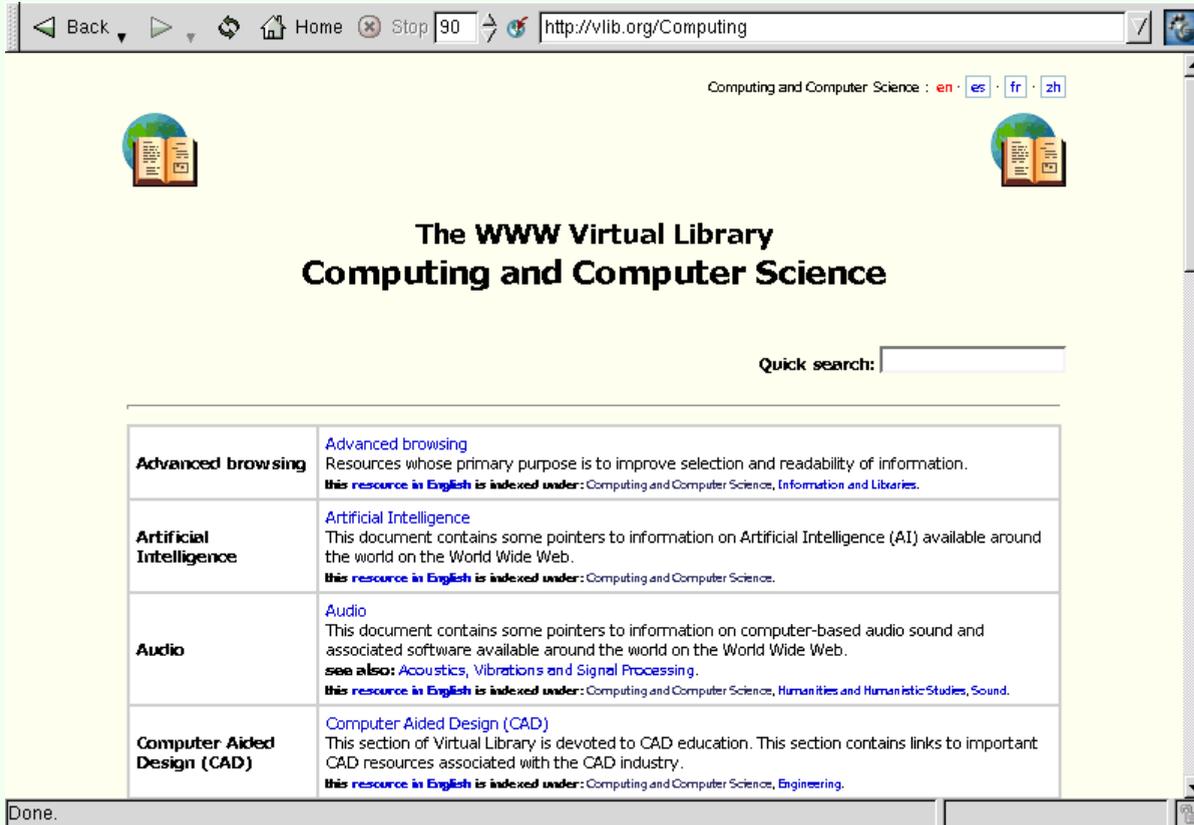
Google [keyword tool](#)

To generate keywords related to a subject.

## Miscellaneous

Done.

Equally one could have reached this from *computing*:



Computing and Computer Science : [en](#) · [es](#) · [fr](#) · [zh](#)

**The WWW Virtual Library**  
**Computing and Computer Science**

Quick search:

<b>Advanced browsing</b>	<a href="#">Advanced browsing</a> Resources whose primary purpose is to improve selection and readability of information. <b>this resource in English is indexed under:</b> <a href="#">Computing and Computer Science</a> , <a href="#">Information and Libraries</a> .
<b>Artificial Intelligence</b>	<a href="#">Artificial Intelligence</a> This document contains some pointers to information on Artificial Intelligence (AI) available around the world on the World Wide Web. <b>this resource in English is indexed under:</b> <a href="#">Computing and Computer Science</a> .
<b>Audio</b>	<a href="#">Audio</a> This document contains some pointers to information on computer-based audio sound and associated software available around the world on the World Wide Web. <b>see also:</b> <a href="#">Acoustics</a> , <a href="#">Vibrations and Signal Processing</a> . <b>this resource in English is indexed under:</b> <a href="#">Computing and Computer Science</a> , <a href="#">Humanities and Humanistic Studies</a> , <a href="#">Sound</a> .
<b>Computer Aided Design (CAD)</b>	<a href="#">Computer Aided Design (CAD)</a> This section of Virtual Library is devoted to CAD education. This section contains links to important CAD resources associated with the CAD industry. <b>this resource in English is indexed under:</b> <a href="#">Computing and Computer Science</a> , <a href="#">Engineering</a> .

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# World Health Organisation —simple search



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## VLsearch

Search for:

[Advanced](#)

Search for **world health organisation**. Search results: **world : 1689, worldly : 85, worlders : 1, worlds : 370, world's : 0, health :**

**38362, heal : 176, healing : 271, healed : 61, Results 1-10 of 179. Search took 27.628 healer : 52, healers : 45, heals : 7, seconds organisation : 8697, organisations : 6102, organisation's : 0, organization : 18927, organizations : 15323, organization's : 0.**

Sort by: **relevancy** | [last modified date](#) | [title](#)

# World Health Organisation —“string” search



## VLsearch

Search for:

[Advanced](#)

Search for "**world health organisation**".

Search results: **world** : 1689, **worldly** : 85,

**worders** : 1, **worlds** : 370, **world's** : 0,

**health** : 38362, **heal** : 176, **healing** : 271,      Results **1-10** of **10**. Search took **18.029**

**healed** : 61, **healer** : 52, **healers** : 45, **heals** : seconds

**7**, **organisation** : 8697, **organisations** : 6102,

**organisation's** : 0, **organization** : 18927,

**organizations** : 15323, **organization's** : 0.

Sort by: **relevancy** | [last modified date](#) | [title](#)

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## World Health Organisation —search excluding synonyms (organisation/organization)

Search for:   [Simple mode](#)

match:    [Boolean syntax HELP](#)

Search for:

URL matches:  e.g. <http://vlib.org/> /manual/ , index.html

Search for **world health organisation**. Search results: **world : 1689, worldly : 85, worlders : 1, worlds : 370, world's : 0, health : 38362, heal : 176, healing : 271, healed : 61, healer : 52, healers : 45, heals : 7, organisation : 8697, organisations : 6102,** Results **1-10** of **113**. Search took **3.535** seconds

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## World Health Organisation —search for the “string” without synonyms

Search for:   [Simple mode](#)

match:

Results per page:  Output format:

Search for:  Words forms:  Use synonyms:

Document types:

URL matches:  e.g. <http://vlib.org/>, [/manual/](#), [index.html](#)

Search for **"world health organisation"**. Results 1-4 of 4. Search took 24.396 seconds

Search results: **world : 1689, health : 38362, organisation : 8697.**

Sort by: **relevancy** | [last modified date](#) | [title](#)

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World Health Organisation:

simple search	179
“string”	10
without synonyms	113
“string” without synonyms	4

# Usage:



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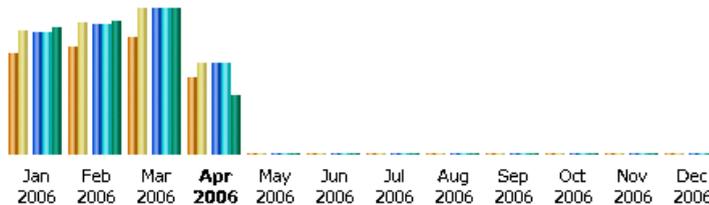
[Quit](#)

## Summary

<b>Reported period</b>	Month Apr 2006				
<b>First visit</b>	01 Apr 2006 - 00:02				
<b>Last visit</b>	24 Apr 2006 - 02:01				
	Unique visitors	Number of visits	Pages	Hits	Bandwidth
Viewed traffic *	<b>16350</b>	<b>19539</b> (1.19 visits/visitor)	<b>53071</b> (2.71 pages/visit)	<b>53071</b> (2.71 hits/visit)	<b>191.51 MB</b> (10.03 KB/visit)
Not viewed traffic *			<b>7680</b>	<b>7680</b>	<b>10.14 MB</b>

\* Not viewed traffic includes traffic generated by robots, worms, or replies with special HTTP status codes.

## Monthly history



## Search Engine of member VL pages, 'VLsearch':

- relatively young (just over one year old)
- still adding member VLs and ensuring their coverage
- popular: twenty to thirty thousand visitors/month
- some 10% of users are using a non-English language interface



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### 3.2.3. Topic Maps



Back Home Stop 100 http://vlib.org/topics/p342000450

Benin : en · fr · zh



## WWW Virtual Library --- Topics Database

# Benin

Quick search:

---

Capital city : [Porto-Novo](#)

Towns : [Porto-Novo](#)

broader categories  
[Africa](#)  
[The Francophonie](#)

---

This record is of type: [Countries](#), [States](#), [Jurisdictions](#), etc..

---

Main Page

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Back Home Stop 100 http://vlib.org/topics/p420789267

The Francophonie : en · fr · zh



# WWW Virtual Library --- Topics Database

## The Francophonie

Quick search:

---

narrower categories

- [Albania](#)
- [Andorra](#)
- [Armenia](#)
- [Austria](#)
- [Belgium](#)
- [Benin](#)
- [Bulgaria](#)
- [Burkina Faso](#)
- [Burundi](#)
- [Cambodia](#)
- [Cameroon](#)
- [Canada](#)

Done.



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[Switzerland](#)  
[Togo](#)  
[Tunisia](#)  
[Vanuatu](#)  
[Vietnam](#)

---

[Organisation Internationale de la Francophonie](#) external link  
provides a definitive list of members, and other details of the Francophonie

Relevant VL member library:  
[Francophonie](#)

WWW Virtual Library **Arbitration Database**  
This subject is also covered in the [WWW Virtual Library Arbitration Database](#).

WWW Virtual Library **Law**  
This subject is also covered in the [WWW Virtual Library Law](#).

Note  
All 'members' are listed here. That is the forty-nine full members, the four "états associés" (Albania, Andorra, Greece and Macedonia) and the ten "états observateurs" (Armenia, Austria, Croatia, the Czech Republic, Georgia, Hungary, Lithuania, Poland, Slovakia and Slovenia).

---

This record is of type: [Regions of the World](#).

---

Main Page

Done.



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## WWW Virtual Library --- Francophonie

---

Catégorie supérieure : [WWW Virtual Library --- International Affairs](#)

---

### francophonie et Francophonie

La francophonie désigne la communauté composée des personnes qui ont en commun l'usage de la langue française. Avec un F majuscule, elle désigne la Francophonie institutionnelle, dont le principal acteur est l'Organisation internationale de la Francophonie.

A la base d'un travail de Doctorat sur le thème de « La géopolitique des aires linguistiques : le cas de la Francophonie institutionnelle », ce site vise à répertorier un certain nombre de sites internet touchant au thème de la francophonie.

La liste non exhaustive sera complétée au fil des recherches.

Done.



A Topic Map links TOPICS by ASSOCIATIONS.

A thesaurus is a simple example. It has very few association types (e.g. BROADER TERM and NARROWER TERM).

In a TM associations can be anything describable. They are also inherently, themselves topics.

Thus associations such as 'is the author of', 'wrote the work', 'is published by', 'is the publisher of'.

The ability to query the *associations* between topics as well as the (page) topics themselves is a very powerful tool.

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## Topic mapping topics in member VLs:

Topic Maps originated from research on the meta-indexing of textbooks –they fit very closely with the needs of the WWWVL.

- relatively young (one year old)
- experimental
- fairly obviously, works best with easily defined/fixed topics (countries, languages, ...)
- Much to do:
  - The creation of a TMQL (TOPIC MAP QUERY LANGUAGE) would release the power of the knowledge contained in topic maps –at the moment our present pages probably appear to most users as just an over-sized hierarchy with rather good cross-linking
  - if we are to achieve a “semantic Web” this would be a major contribution towards it

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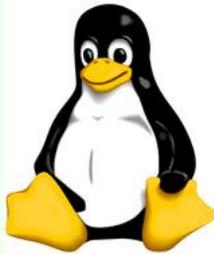
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### 3.3. Infrastructure



Linux

The VL central services were put on an existing, running server in Geneva in late 2004.

Although orders of magnitude different from the server's previous usage, as one might expect there were no significant problems.

Webserver: *Apache*

Database (TM) software: 'bespoke' (but quite simple Perl).



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## 4. The WWWVL and the Future

### **Volatility**

both 'loss' and having 'had the consultants in' ...

What to do about loss:

to cache / to archive ?

greater linking to archive.org ?

... ?



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# Censorship/Partisanship

*ordre public*



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# Censorship/Partisanship

*ordre public*

sites/domains that advocate/condone child prostitution



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# Censorship/Partisanship

*ordre public*

sites/domains that advocate/condone child prostitution

sites/domains that advocate/condone torture ... ?



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## Censorship/Partisanship

*ordre public*

sites/domains that advocate/condone child prostitution  
sites/domains that advocate/condone torture ... ?

*Practically* a VL on, say, Classical Music should not be advocating or encouraging classical music; it should be giving a dispassionate, balanced review of the best web resources available on its subject area.



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The challenges the Virtual Library faces in relation to knowledge management, in the cataloging of resources and making an accessible, effective interface to those resources are far from unique.

They are major challenges that will face us all, if in various forms, over the coming decades.

## 5. Conclusion

- Creation of a stable management structure, building on a decade-and-a-half of remarkable voluntary administration.
- Whilst guarding the primary role of knowledge dissemination, widening the target population.

The VL has always prided itself on using small (fast loading) pages, 'frames' free and with only essential graphics content. What was (and is) of advantage to those with poor connectivity, is now relevant for the increasing number of small screen devices.

- The central catalogue is now available in English and French, Spanish is in the process of being loaded. An experimental Chinese interface is already in operation and is being re-edited.

The search engine has Arabic, English, French and Spanish interfaces. It is intended to have both servers working in all five of these languages as well as Russian.

- 'Outreach' both to members (a first regional meeting in 2006) and to non-members (*Linux Days*, the *Topic Maps Research and Applications* conference, the 4<sup>me</sup> *Rassem-*



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*blement pour les droits de l'homme*, today) has broadened interest in the VL as well as providing valuable feedback from experts in related fields.

Such activities will need expanding: to attract new members (and thus improve coverage); to inform users and potential users; to attract sponsors and supporters; and, not least, to learn from all these persons.

- Knowledge can only be effectively disseminated if it can be found. A hierarchical catalogue and a VL specific search engine are both essential parts of this. Mapping subjects and their semantic linkages is an area the VL is developing using topic maps and published subject/resource indicators (PSIs).
- Such a mapping should link deeper into member virtual libraries.
- Amongst central services to members is the checking of the validity of links on their pages. Extending this to a robust quality audit including link checking, page accessibility criteria (i.e. WAI) and spellchecking is an important

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goal.

A detailed booklet of guidelines has already been published and distributed to members.

- Feedback, particularly today, feedback on how to improve knowledge dissemination in parallel with 'development' initiatives, is always sought, and valued.



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