Search the Past with the

PORTUGUESE WEB ARCHIVE

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The Web has been replacing printed media

eBooks



Photo galleries



Blogs



News



However, all these valuable information quickly disappears

eBooks

Photo galleries





Disappear or change within 1 year

77 web archiving initiatives across the world work to preserve Humanity's cultural heritage available online





The Portuguese Web Archive project started in 2008

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Welcome to the Tomba project: the Portuguese web archive	1 @Walcome to the Tembe prejects
Publishing tools, such as Blogger, enabled people with limited technical skills to become web publishers. Never before in the history of mankind so much information was	 Welcome to the Tomba project: the Portuguese web archive
published. However, it was never so ephemeral. Web documents such as news, blogs or discussion forums are valuable descriptions of our times, but most of them will not last longe	er than one year.
If we do not archive the current web contents, the future generations could witness an inform	mation gap in our days.
The Internet Archive collects and stores contents from the world-wide web. However, it is archive the web exhaustively while satisfying all needs, because the web is permanently chabefore they can be archived.	
As a result, several countries are creating their own national archives to ensure the preserva to their cultures.	ation of contents of historical relevance
Portugal is now beginning its national web archiving initiative with the Tomba project at ${}$ F Computing).	CCN (National Foundation for Scientific

It was announced last year (2012)



Public and free at <u>archive.pt</u>

Provides **URL search** like the Internet Archive Wayback Machine

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Problem with URL search

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Users do not know the URL that contained the information that they need.

<u>Archive.pt</u> also provides **full-text search** over 1.2 billion web files archived since 1996

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New web archive search system based on open source web archiving tools (NutchWAX)



The Nordic Web Archive (NWA) is the Nordic National Libraries' forum for co-ordination and exchange of experience in the fields of harvesting and archiving web documents.

- Quicker response times
- Improved search results relevance

Designed more adequate user interfaces: NutchWAX (2007) vs. PWA (2012)

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- Advanced search user interface
- Improved usability
 - 71% overall user satisfaction from usability testing

Researched ranking algorithms for web archive information retrieval

PWA preserves today's knowledge for future generations.		Search projects
Project Home Downloads Wiki Issues Source Administer		
New page Search Current pages for	Search Edit Delete	
TestCollection Test collection for WAIR research.		Updated Mar 15, 2013 by <u>migcosta</u>

Introduction

The PWA9609 test collection was created to support research on web archive information retrieval (WAIS). It is composed by three parts: (1) a corpus representative of the documents' versions encountered in a real search environment; (2) a set of topics describing users' information needs; and (3) relevance judgments (a.k.a. qrels) indicating the degree of relevance of each document retrieved for each topic.

If you are experimenting with WAIR systems and you are interested in their design and evaluation, then this collection can be useful.

Corpus

The corpus is composed by 6 collections of the Portuguese web, broadly considered the web subset of interest to the Portuguese. These collections are indexed and searchable through the public access given by the Portuguese Web Archive (PWA) at http://archive.pt.

In total, the corpus contains 255 million web pages' versions collected between 1996 and 2009. It amounts 6.2TB compressed in <u>ARC file format</u> (8.9 TB uncompressed). The corpus' main characteristics are detailed in the following table, showing a significant heterogeneity in age, size and type.

Publications, test collections and collaboration proposals

The source code is free and open

FORTUGUESE	a-technologies erves today's knowledge for future generations.
Project Home Downloads Wil	ki <u>Issues Source Administer</u>
Summary People	
Project Information	The Portuguese Web Archive (PWA) main goal is the preservation and access of web contents that are no longer available online. During the developing of the PWA IR (information retrieval) system we faced limitations in searching speed, quality of results, scalability and usability. To cope with this, we modified the archive-access project (<u>http://archive-access.sourceforge.net/</u>) to support our web archive IR requirements. Nutchwax, Nutch and Wayback's code were adapted to meet the requirements. Several optimizations were added, such as simplifications in the way document versions are searched and several bottlenecks were resolved. The PWA search engine is a public service at <u>http://archive.pt</u> and a research platform for web archiving. As it predecessor Nutch, it runs over Hadoop clusters for distributed computing following the map-reduce paradigm. Its major features include fast full-text search, URL search, phrase search, faceted search (date, format, site), and sorting by relevance and date.
Members <u>migcosta</u> , <u>simaofontes</u> , <u>joaocarvalhomiranda</u> , <u>danielcoelhogomes</u> , <u>sawfccn</u> , <u>devel.david@vcruz.net</u> , <u>whispsil</u>	The PWA search engine is highly scalable and its architecture is flexible enough to enable the deployment of different configurations to respond to the different needs. Currently, it serves an archive collection searchable by full-text with 180 million documents ranging between 1996 and 2010. <u>Main features</u>

Archive.pt is useful to international users

	Country / Territory	Visits 🔹 🗸	Visits	Contribution to total: Visits
1.	Portugal	64,028	78.80%	
2.	Brazil	4,027	4.96%	
3.	Japan	3,551	4.37%	5%
4.	United States	3,180	3.91%	
5.	(not set)	1,453	1.79%	78.8%
6.	Germany	622	0.77%	
7.	United Kingdom	590	0.73%	
8.	France	587	0.72%	
9.	Spain	425	0.52%	
10.	Angola	328	0.40%	

- Archived web pages written in several languages
- Includes all Portuguese speaking domains (.AO, .MZ, .CV) except Brazil
- 21.2% of the Visits were not from Portugal

The Portuguese Web Archive can be used to document interesting stories

Let's hear one

Once upon a time in **1996**...

There was a "mad" scientist

Tim Berners-Lee

Bio



Tim Berners-Lee is the inventor of the World Wide Web, an internet-based hypermedia initiative for global information sharing. He wrote the first Web clients and server and defined the URL, HTTP and HTML specifications on which the web depends while working at <u>CERN</u>, the European Particle Physics Laboratory, in late 1990.

Tim is now the Director of the <u>W3 Consortium</u>, an open forum of companies and organizations with the mission to realize the full potential of the Web. He is a Principal Research Scientist at the Laboratory for Computer Science (<u>LCS</u>) at the Massachusetts Institute of Technology (<u>MIT</u>).

Before going to CERN, Tim was a founding director of Image Computer Systems, and before that and a consultant in hardware and software system design, real-time communications graphics and text processing; and a principal engineer with Plessey Telecommunications, in Poole, England. He is a graduate of Oxford University.

Tim is married to Nancy Carlson. They have two children, born 1991 and 1994.

Who invented "the World Wide Web, an internet-based hypermedia initiative for global information sharing."

He founded an organization to support his invention

The World Wide Web Consortium

The World Wide Web is the universe of network-accessible information. The <u>World Wide Web</u> <u>Consortium</u> exists to realize the full potential of the Web.

W3C works with the global community to produce <u>specifications</u> and <u>reference software</u>. W3C is funded by industrial <u>members</u> but its products are freely available to all. The Consortium is run by <u>MIT LCS</u> and by <u>INRIA</u>, in collaboration with <u>CERN</u> where the web originated. Please see the <u>list of members</u> to learn about individual members and visit their World Wide Web sites.

- <u>W3C Activity areas and directions</u>
- How to contact W3C
- Frequently Asked Questions about W3C
- W3C meetings, newsletter, mailing lists [W3C Members only]
- <u>Help</u>

In this document:

- <u>News and Updates</u>
- Web Specifications and Development Areas
- <u>W3C Software</u>
- The World Wide Web and the Web Community
- Getting involved with the W3C

There were lists of WWW sites



The Library of Congress also had one WWW site in 1996



Choose a topic below, see what's new, or search our Web pages and Gopher menus.

General Information and Publications

Find out about the Library and its mission, special programs and services, information for visitors, publications (including Library Associates and *Civilization Magazine*), employment opportunities, and other general information.

Government, Congress, and Law

Search THOMAS (legislative information), access services of the Law Library of Congress (including the Global Legal Information Network), or locate government information.

Research and Collections Services

Browse historical collections for the National Digital Library (American Memory), visit Library Reading Rooms, access special services for persons with disabilities, and read about Library of Congress cataloging, acquisitions, and preservation operations, policies, and related standards.

Since then, WWW sites became used even to publish News

Lula vai desistir?







Comentário

Forum

O PRINCIPAL líder da esquerda brasileira, Luís Ignácio da Silva («Lula»), ameaçou esta semana desistir de se candidatar à Presidência nas eleições de Outubro, deixando o campo livre para a reeleição de <u>Fernando Henrique Cardoso</u>.

O desânimo de Lula tem origem no seu próprio partido - o Partido dos Trabalhadores (PT) -, que decidiu não se aliar ao Partido Democrático Trabalhista (PDT) no Rio de Janeiro, inviabilizando a candidatura da dupla Lula-Leonel Brizola (líder do PDT), o primeiro à chefia do Estado e o segundo à vice-presidência.

O fracasso deve-se à vitória dos radicais do PT, que conseguiram impor a candidatura do ex-líder estudantil Vladimir Palmeira ao Governo do Rio, derrotando os moderados, que se tinham comprometido a apoiar o candidato de Brizola, para garantirem que este último concorreria como «vice» de Lula.

That now can be quickly translated to several languages



1998 archived news article from Portuguese publication translated with Google Translate in 2013

Would you like to search for more interesting pages?

Visit me at the Demo lobby or try it at <u>archive.pt</u>! Thanks.



www.archive.pt

daniel.gomes@fccn.pt