



Building Archivable Websites

Nicholas Taylor
Web Archiving Service Manager
[Digital Library Systems and Services](#)

[Drupal Camp](#)
April 19, 2014



"Frosted Spiders' Web" by [Jess Wood](#) under [CC BY 2.0](#)



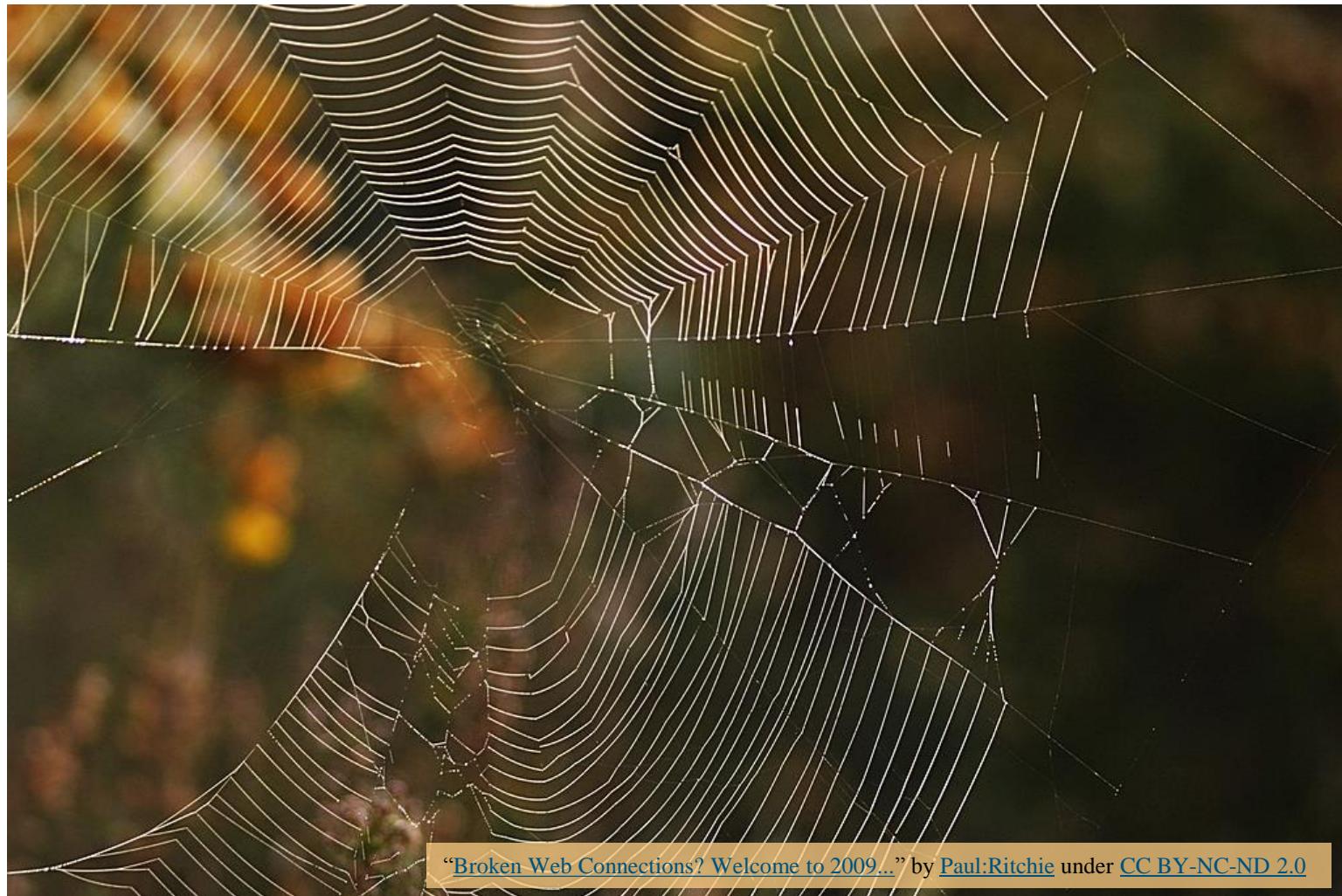
future users are users, too



[“a connection between past and future” by Gioia De Antoniis under CC BY-NC-ND 2.0](#)



maintain web usability



[“Broken Web Connections? Welcome to 2009...”](#) by [Paul:Ritchie](#) under [CC BY-NC-ND 2.0](#)



improve temporal web usability



<http://bono.house.gov/>
Saved **425 times** between September 21, 2006 and January 2, 2013.

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JAN					FEB					MAR					APR				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8
27	28	29	30	31	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7
MAY					JUN					JUL					AUG				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
12	13	14	15	16	17	18	9	10	11	12	13	14	15	16	17	18	19	20	21
19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26
26	27	28	29	30	31	23	24	25	26	27	28	29	28	29	30	31	25	26	27

Internet Archive: "Wayback Machine"

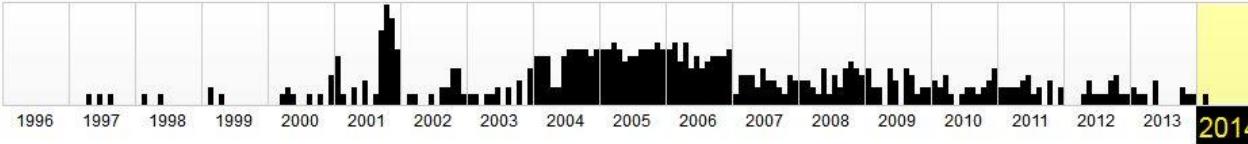


improve temporal web usability

INTERNET ARCHIVE
WayBack Machine BROWSE HISTORY

<http://house.gov/bono/>
Saved **891 times** between April 28, 1997 and February 25, 2014.

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Month	Day
JAN	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
FEB	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
MAR	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
APR	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
MAY	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
JUN	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
JUL	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
AUG	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Internet Archive: “Wayback Machine”



recover your lost website

The screenshot shows the homepage of the Warrick website. At the top left is a blue square containing a white stylized 'W' and the word 'WARRICK' below it. To the right is a navigation bar with links: Home (highlighted in green), Recover a Website, Recovery Status, About, Disclaimer, and System Stats. Below the navigation is a row of five blue rectangular buttons with white text: 'RECOVER A WEBSITE' (with 'Start the recovery process' below it), 'RECOVERY STATUS' (with 'Check on recovery status' below it), 'ABOUT WARRICK' (with 'Learn more about Warrick' below it), 'DOWNLOAD' (with 'Download Warrick' below it and a 'tar.gz' file icon to its right), and 'DISCLAIMER' (with 'Please read our disclaimer' below it).

Old Dominion University
Computer Science Department
Norfolk, VA

[“Warrick”](#)



refer to earlier website versions

The image shows a printed page with several horizontal lines of text, each representing a different edit revision of a Wikipedia page. The revisions are listed from top to bottom, with the most recent at the bottom. Each revision includes the edit number, date, time, user, and a brief description of the changes made. The text is in a monospaced font, and some words are highlighted in yellow boxes.

Edit 1 | Revision 8021313
18:33, 1 December 2004 Stevertigo
Line 1 : Line 1
#REDIRECT [[Iraq war]]
+
#REDIRECT [[Occupation of Iraq, 2003-2004]]

Edit 2 | Revision 8404705
22:10, 13 December 2004 Jmabel
(previous handling of this as a redirect misses
the initial phase of the war)
Line 1 : Line 1
#REDIRECT [[Occupation of Iraq, 2003-2004]]
+
"Wikipedia's main coverage of the ""Iraq War""
that began in [[2003]] is currently divided into
two separate articles: [[2003 Invasion of Iraq]] and
[[Occupation of Iraq, 2003-2004]], with [[May
2003]] placed between the two articles.
The new article covers the period between the
invasion and the start of the occupation, while
the old article covers the period after the invasion."
Line 1 : Line 1
#REDIRECT [[Occupation of Iraq, 2003-2004]]
+
#REDIRECT [[Post-invasion Iraq, 2003-2005]]

Edit 5 | Revision 11625864
23:20, 28 March 2005 Stevertigo
(update to current - its inferior to refer to past
events (2 years ago) instead of current and more
relevant events)
Line 1 : Line 1
#REDIRECT [[Occupation of Iraq, 2003-2004]]
+
#REDIRECT [[Post-invasion Iraq, 2003-2005]]

Edit 6 | Revision 12045239
18:05, 8 April 2005 Trilobite
Line 1 : Line 1
#REDIRECT [[Post-invasion Iraq, 2003-2005]]
+
#REDIRECT [[Iraq war (disambiguation)]]

Edit 7 | Revision 15323404
03:15, 17 June 2005 Stevertigo
Line 1
"The Iraq War: Wikipedia Historiography" by [STML](#) under [CC BY-SA 2.0](#)



institutional history

 STANFORD
UNIVERSITY 



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- ▶ [Internet Archive Wayback Machine: "Stanford University Homepage"](#)
- ▶ [Commis](#)



websites are cultural artifacts

The World Wide Web project

WORLD WIDE WEB

The WorldWideWeb (W3) is a wide-area hypermedia[1] information retrieval initiative aiming to give universal access to a large universe of documents.

Everything there is online about W3 is linked directly or indirectly to this document, including an executive summary[2] of the project, Mailing lists[3] , Policy[4] , November's W3 news[5] , Frequently Asked Questions[6] .

What's out there?[7]Pointers to the world's online information, subjects[8] , W3 servers[9], etc.

Help[10] on the browser you are using

Software Products[11] A list of W3 project components and their current state. (e.g. Line Mode[12] ,X11 Viola[13] , NeXTStep[14] , Servers[15] , Tools[16] , Mail robot[17] , Library[18])

Technical[19] Details of protocols, formats, program internals etc

<ref.number>, Back, <RETURN> for more, or Help: |

[“The World Wide Web project”](#)



facilitate compliance

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Compliance and Ethics

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The Office of the General Counsel handles issues arising out of the University's Clinics and Clinics and Lucile Salter Packard Children's Hospital. The General Counsel, Debra L. Zumwalt, the office's director, is available for partnering with outside law firms.

The mission of the OGC is to educate our Students, faculty, and staff about operations, to solve legal problems and facilitate representation to help our clients fulfill their missions.

RECENT LEGAL DEVELOPMENT
[NLRB Ruling related to Northwestern Football](#)
The regional director of the National Labor Relations Board has ruled that Northwestern University football players

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REPORT YOUR CONCERN

RELATE TO:
Time / Reporting
of Interest and
Interest

PROVIDING LEGAL SERVICES TO
STANFORD UNIVERSITY

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STANFORD UNIVERSITY LIBRARIES

About Libraries Using the libraries Collections Research support Academic technology Ask us

Home > Libraries > Special Collections > Managing university records

At a glance

Special Collections & University Archives

Managing university records

Records created by Stanford affiliates are one of the University's most valuable assets. Among other things, records support administrative decision-making and operations, demonstrate compliance, and document Stanford's institutional history. Just like other University assets, records need to be properly managed. These web pages are designed to provide basic records management guidelines to help you:

- Effectively organize and maintain records
- Improve efficiency and access to information
- Comply with legal obligations
- Ensure that historical records are captured and maintained in perpetuity

For help getting started please contact us at archivesref@stanford.edu.

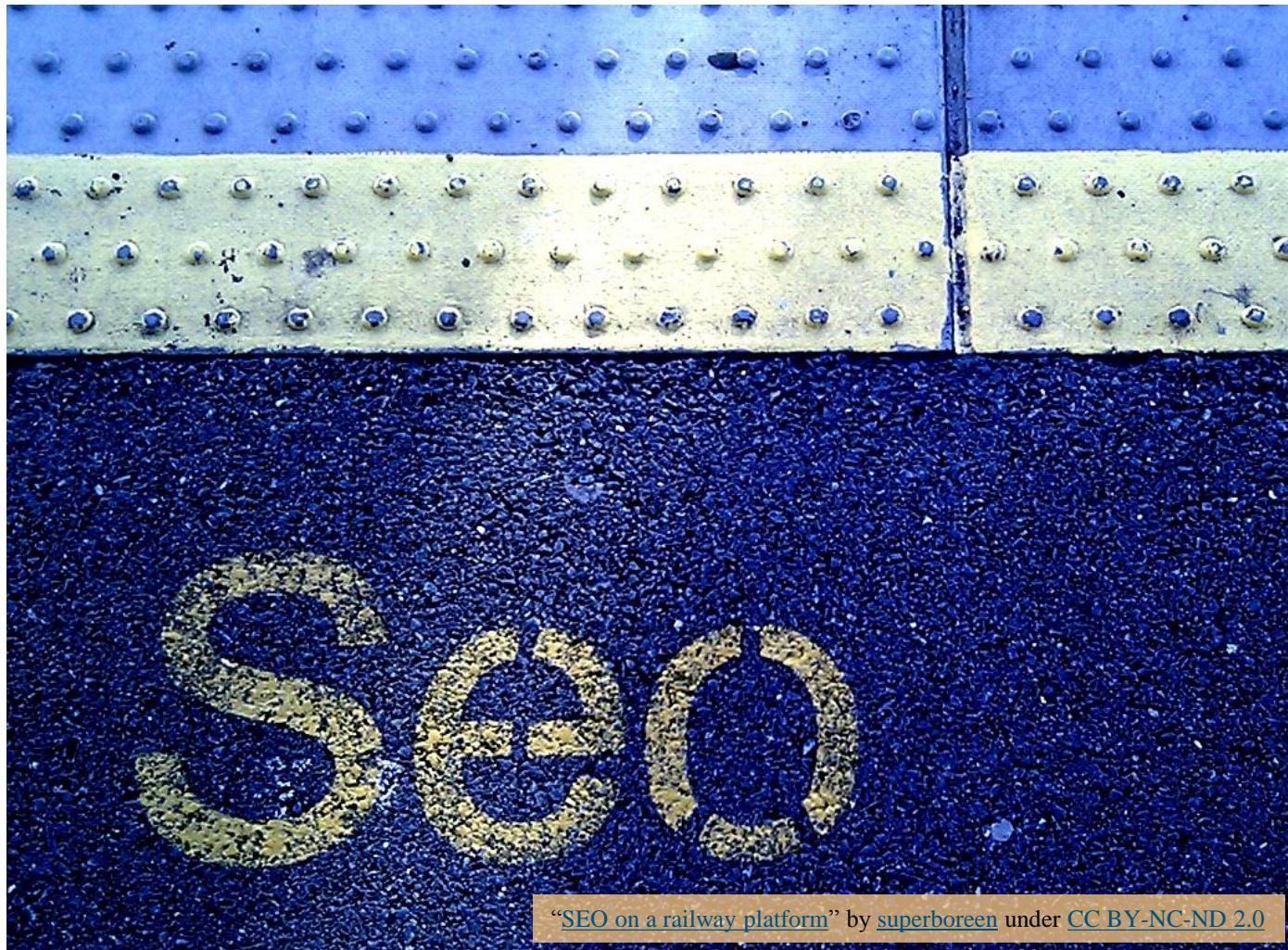
Sources and references

- Beinecke Rare Book and Manuscript Library: [Authors' Guidelines for Preserving Digital Archives](#)
- Born-Digital Collections: An Inter-Institutional Model for Stewardship (AIMS): [white paper](#)
- Harvard University Archives Record Management Services
- The InterPARES Project: Creator Guidelines
- Smithsonian Institution Archives: [Electronic Records: Responsible Record-Keeping](#)
- University of Michigan: [Deep Blue Preservation and Format Support Policy](#)

University Archives



optimize for other crawlers





How to

IMPROVE ARCHIVABILITY

[“metal web” by paul:74 under CC BY-NC-SA 2.0](#)



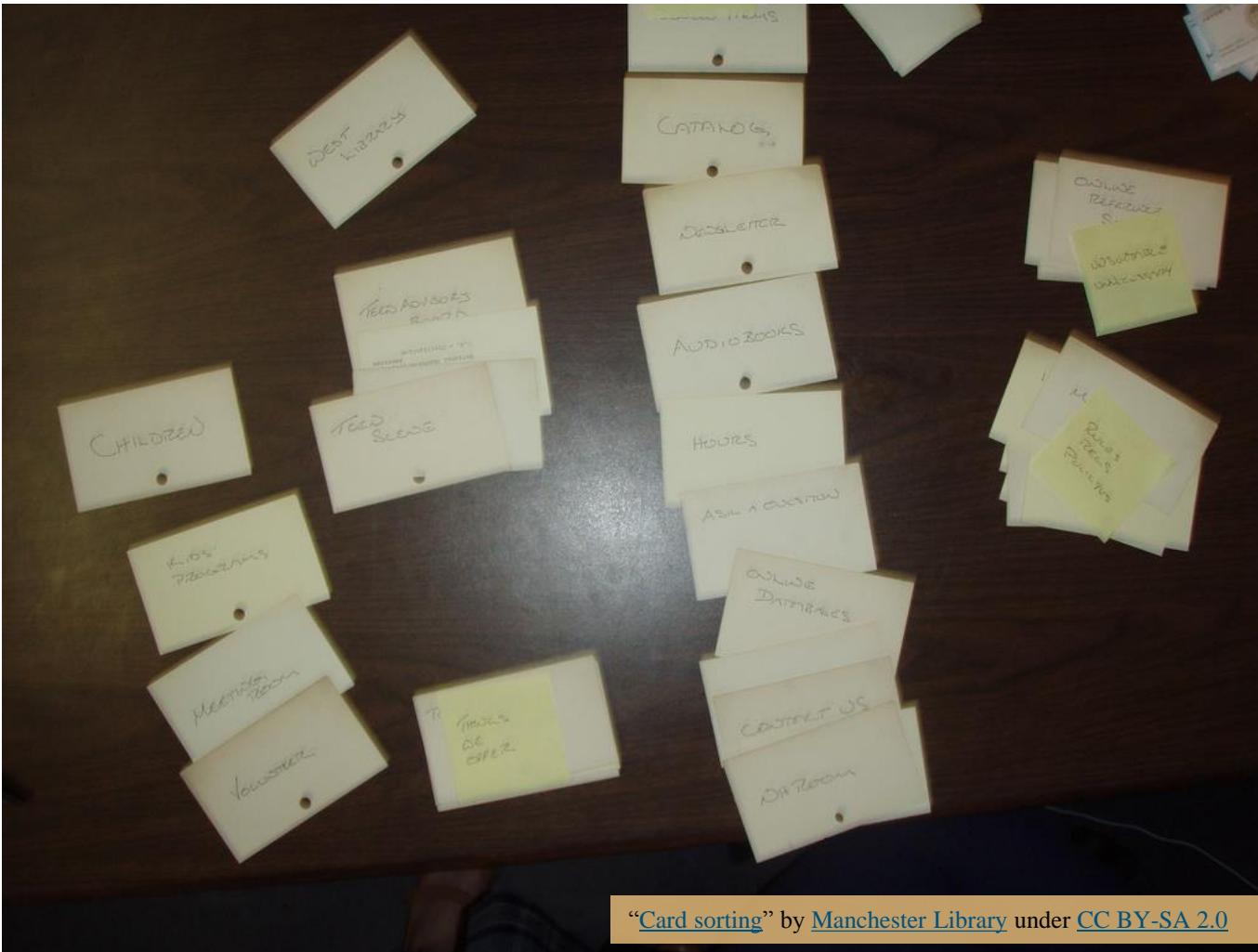
follow web standards and accessibility guidelines



[“Web Standards Fortune Cookie” by Matt Herzberger under CC BY-SA 2.0](#)



use a site map, transparent links, and contiguous navigation





maintain stable URLs and redirect when necessary





use semantically-meaningful URLs

The screenshot shows a web browser window with the following details:

- URL Bar:** http://w63.w63.org
- Content Area:** m9(^Д^)フキヤ——ツ
Welcome to w63.w63.org!
- Network Tab:** Shows a single request: GET /w63.org. The status is 200 OK.
- Response Headers:** Includes Access-Control-Allow-Origin: *, Connection: keep-alive, Content-Encoding: gzip, Content-Type: text/html, Date: Mon, 14 Apr 2014 17:51:37 GMT, Server: nginx, Transfer-Encoding: chunked, and Vary: Accept-Encoding.
- Request Headers:** Includes Accept: text/html, application/xhtml+xml, application/xml;q=0.9, */*;q=0.8, Accept-Encoding: gzip, deflate, Accept-Language: en-US, en;q=0.5, Cache-Control: max-age=0, Connection: keep-alive, DNT: 1, Host: www.w63.w63.org, and User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:24.0) Gecko/20100101 Firefox/24.0.
- Bottom Status Bar:** Shows the URL w63.w63.org, 0 B, and 0ms (on.lol).



be careful w/ robot exclusion rules

GitHub This repository Search or type a command Explore Features Enterprise Blog Sign up Sign in

drupal / drupal mirrored from http://git.drupal.org/project/drupal.git ★ Star 1,286 Fork 465

branch: 7.x drupal / robots.txt

webchickenator 2 years ago Issue #1249132 by aspilicious: Add INSTALL.sqlite.txt in robots.txt.

3 contributors

file | 61 lines (59 sloc) | 1.561 kb Open Edit Raw Blame History Delete

```
1 #
2 # robots.txt
3 #
4 # This file is to prevent the crawling and indexing of certain parts
5 # of your site by web crawlers and spiders run by sites like Yahoo!
6 # and Google. By telling these "robots" where not to go on your site,
7 # you save bandwidth and server resources.
8 #
9 # This file will be ignored unless it is at the root of your host:
10 # Used: http://example.com/robots.txt
11 # Ignored: http://example.com/site/robots.txt
12 #
13 # For more information about the robots.txt standard, see:
14 # http://www.robotstxt.org/wc/robots.html
15 #
16 # For syntax checking, see:
17 # http://www.sxw.org.uk/computing/robots/check.html
18
19 User-agent: *
20 Crawl-delay: 10
21 # Directories
22 Disallow: /includes/
23 Disallow: /misc/
24 Disallow: /modules/
25 Disallow: /nodefiles/
26 Disallow: /scripts/
27 Disallow: /themes/
28 # Files
29 Disallow: /CHANGELOG.txt
30 Disallow: /cron.php
31 Disallow: /INSTALL.mysql.txt
32 Disallow: /INSTALL.pgsql.txt
33 Disallow: /INSTALL.sqlite.txt
34 Disallow: /install.php
35 Disallow: /INSTALL.txt
36 Disallow: /LICENSE.txt
37 Disallow: /MAINTAINERS.txt
38 Disallow: /update.php
39 Disallow: /UPGRADE.txt
40 Disallow: /xmiproxy.php
```

Disallow: /scripts/
Disallow: /themes/

“drupal/robots.txt at 7.x”

The screenshot shows the GitHub interface for the Drupal repository. The user is viewing the 'robots.txt' file under the '7.x' branch. The file contains standard directives for search engines, including 'User-agent' and 'Crawl-delay'. A significant portion of the file is dedicated to disallowing specific paths: '/scripts/' and '/themes/'. These two lines are highlighted with a red box and a red arrow points to them from a callout bubble. Another callout bubble at the bottom right specifies the commit 'drupal/robots.txt at 7.x'.



minimize reliance on external assets necessary for presentation

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"In the long run, a people is known, not by its statements or its statistics, but by the stories it tells." –Flannery O'Connor

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Pulitzer prize-winning Adam Johnson takes home another big prize

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17

Ian Watt Lecture: Michael McKeon

[Internet Archive Wayback Machine: "Stanford Department of English"](#)

Affiliated Programs

Creative Writing Program



minimize reliance on external assets necessary for presentation

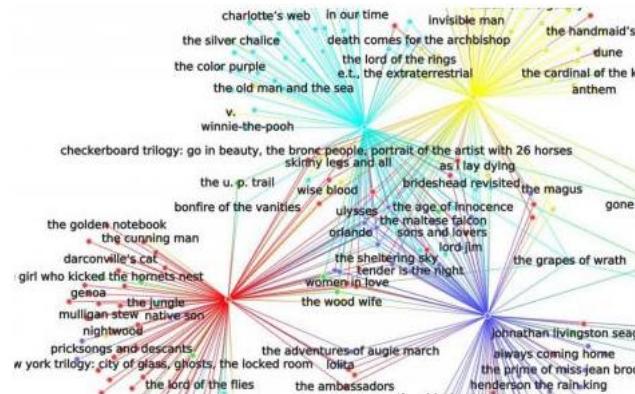
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English Today

"In the long run, a people is known, not by its statements or its statistics, but by the stories it tells."
—Flannery O'Connor

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Recent News

MAR 25 2014 | STANFORD REPORT
 Teaching tech and trees brings

Upcoming Events

APR
10

The Social Network of
Benjamin Franklin,
Printer

Affiliated Programs

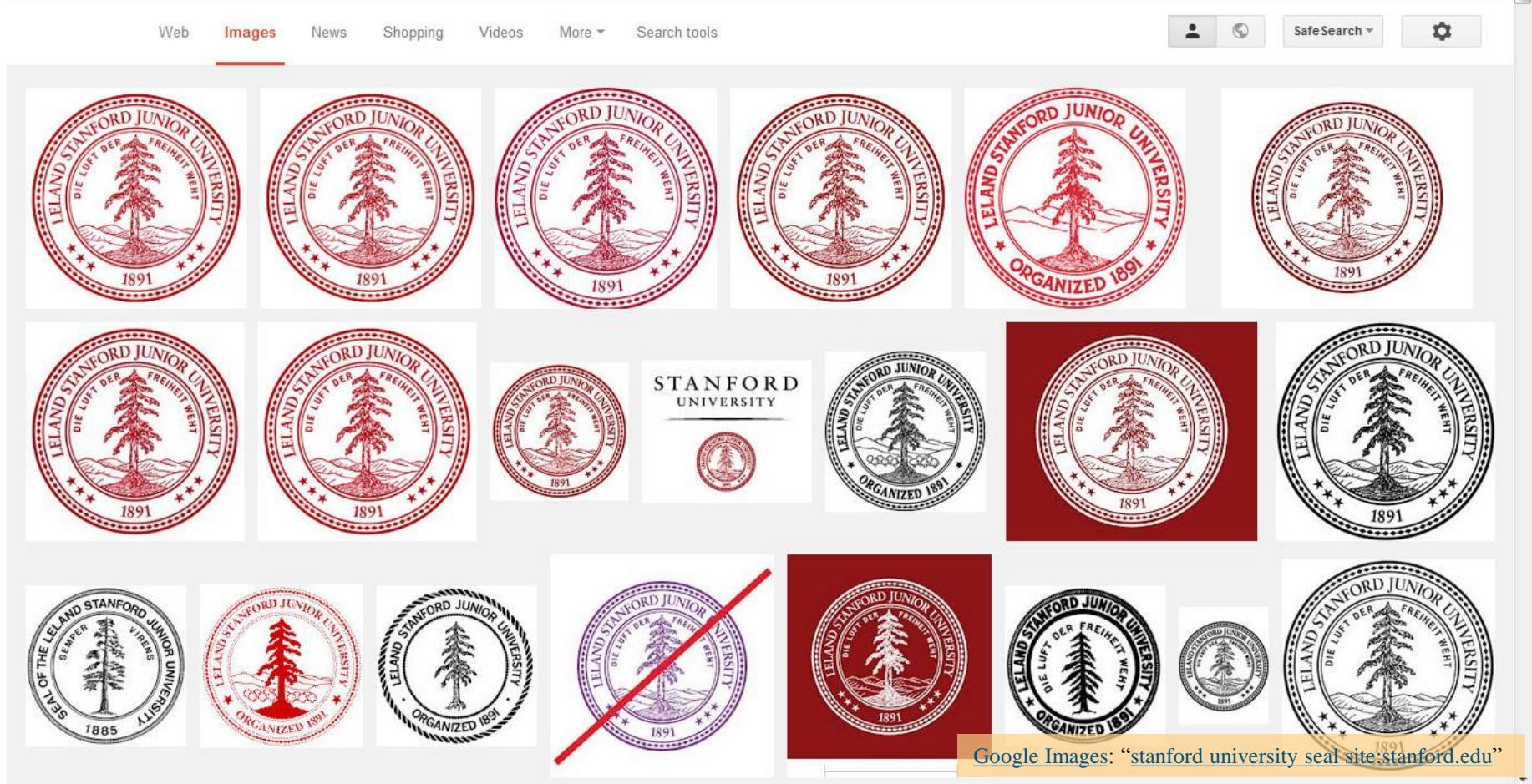
Creative Writing Program
["Stanford Department of English"](#)



serve reusable assets from a single, common location

Google +Nicholas 

Web Images News Shopping Videos More ▾ Search tools



Google Images: "stanford university seal site:stanford.edu"

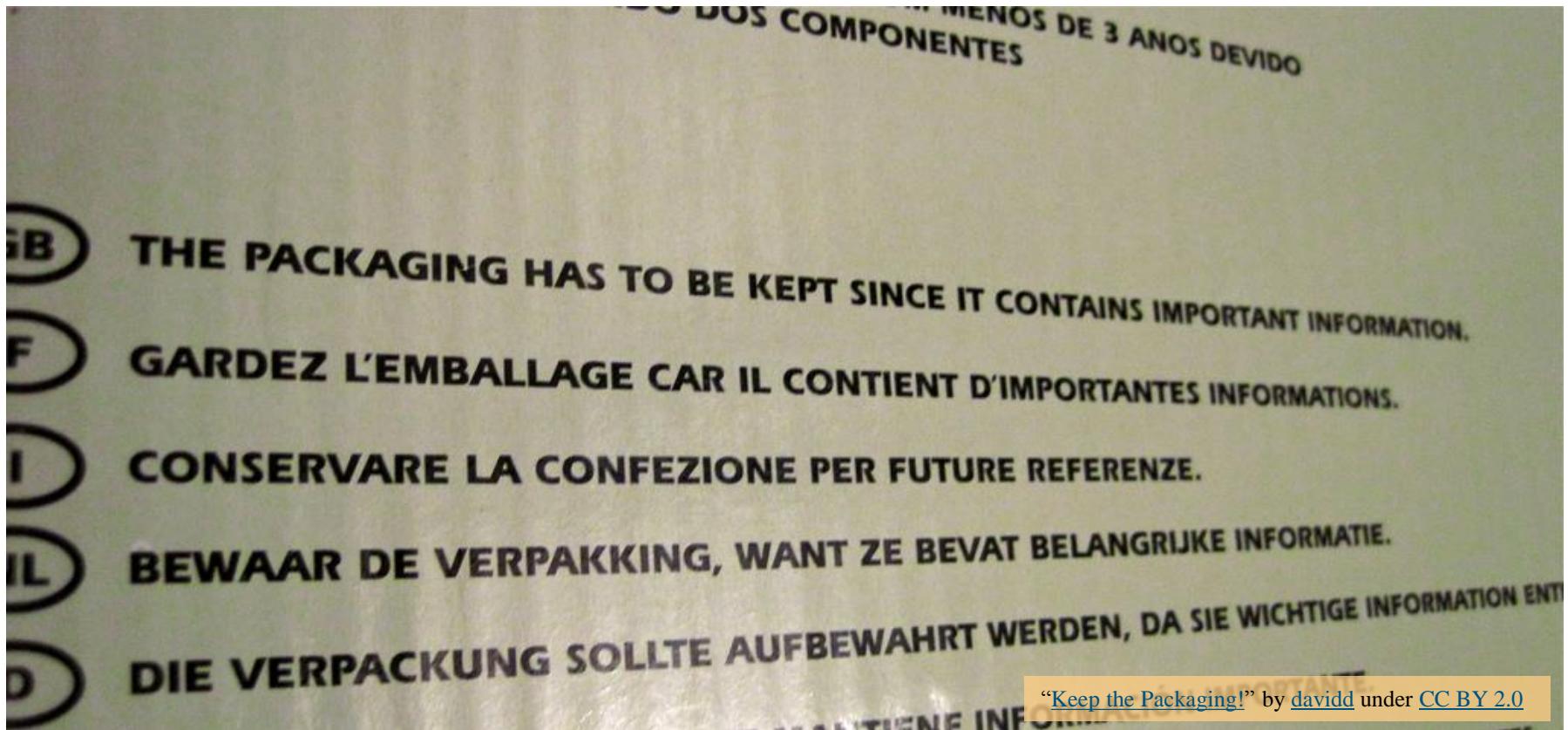


specify HTTP response headers for caching and content encoding



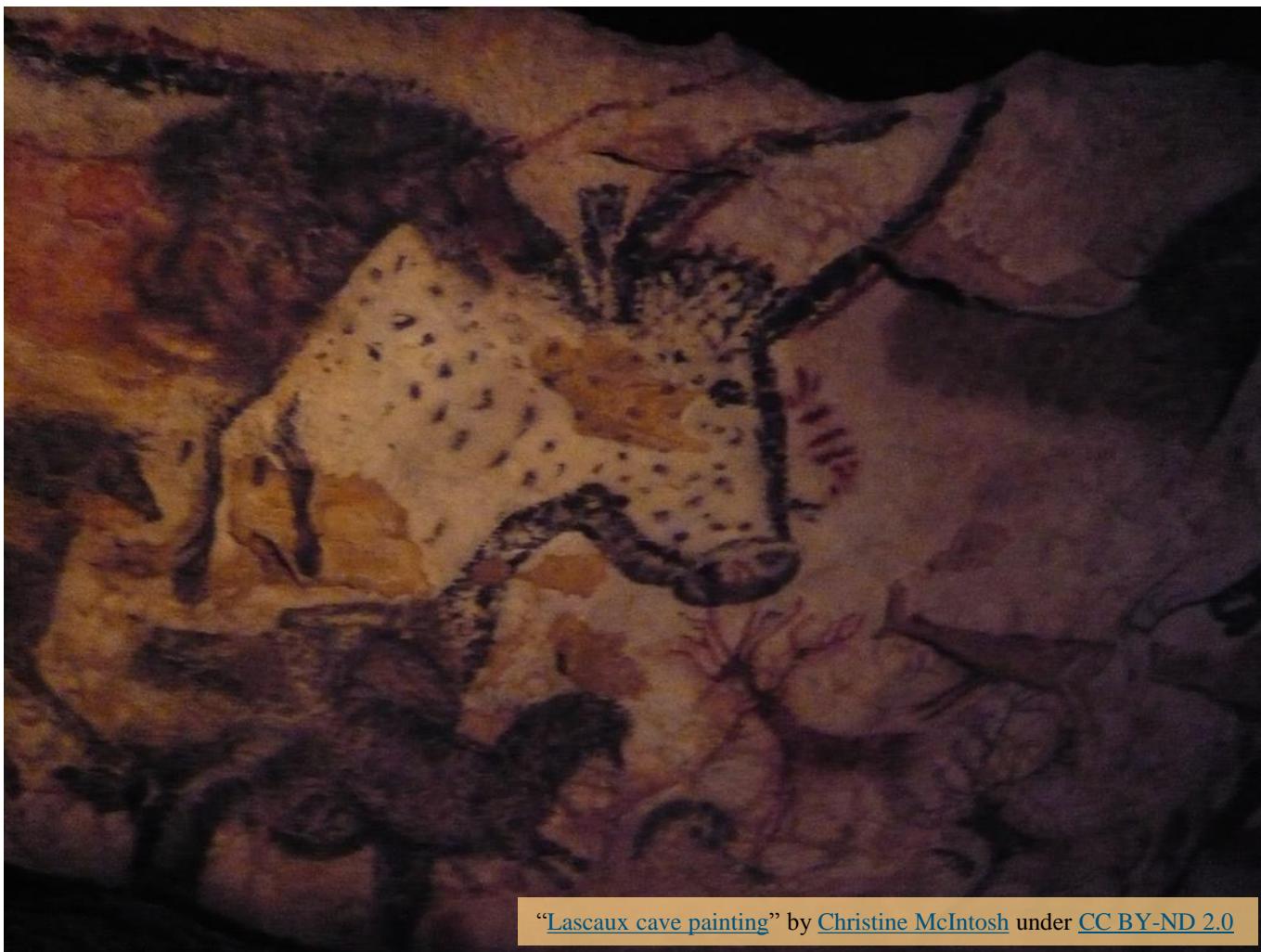


embed metadata, especially character encoding





use durable data formats



[“Lascaux cave painting”](#) by [Christine McIntosh](#) under [CC BY-ND 2.0](#)



prefer responsive design over user-agent personalization



“«Responsive web design» - 217/366” by Roger Ferrer Ibáñez under CC BY-NC-SA 2.0



examine your site in the Internet Archive Wayback Machine

INTERNET ARCHIVE
WayBack Machine

http://www.geocities.com/SiliconValley/Heights/2151/ Go NOV DEC JAN Close X
22 captures 25 Dec 96 - 27 Oct 09 1995 1996 1999 Help ?

Greetings & Welcome to
A Multidimensional Perception ~/*\=
& PCGuru

RealAudio 3.0 format

Free Speech Online
Blue Ribbon Campaign

Last Updated December 5, 1996
Best viewed with either

Netscape Navigator Internet Explorer
or

Netscape Microsoft Internet Explorer

We are constantly growing in this cyberdimensional reality.
The following list of skills & talents are currently available.

- Audio Ambient/Soundboard Mastering.
- Video Producing/Directing/Editing.
- 35mm Still Photography.
- Desktop Publishing, Graphics & Designing.
- PC Consulting/Training/Upgrade/Repair/Installation.
- HTML3 Home Page Programing & Designing.
- Internet Consulting/Training.
- Technical Advising.

Internet Archive Wayback Machine: “Welcome to A Multidimensional Perception ~/*\= & PCGuru”



Web Archiving

TOOLS AND SERVICES

[“giant mechanical spider & crowd” by mjtmal \(tiggy\) under CC BY 2.0](#)



Heritrix

Heritrix: Admin Console - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://foo.edu:8080/index.jsp

HERITRIX
Admin Console

Status as of Jun. 23, 2006 19:20:37 GMT Alerts: no alerts

CRAWLING JOBS RUNNING job: 150-sites-deciding-10MB
0 jobs pending, 9 completed 9108 URIs in 4m43s (25.5/sec)

Console [Jobs](#) [Profiles](#) [Logs](#) [Reports](#) [About](#) [Help](#)

Crawler Status: CRAWLING JOBS | [Hold](#)

Jobs Running: 150-sites-deciding-10MB 0 pending, 9 completed	Memory 102217 KB used 117056 KB current heap 236224 KB max heap
Alerts: 0 (0 new)	

Job Status: RUNNING | [Pause](#) | [Checkpoint](#) | [Terminate](#)

Rates 25.5 URIs/sec (32.27 avg) 595 KB/sec (545 avg)	Load 15 active of 50 threads 1.0 congestion ratio 399 deepest queue 79 average depth
Time 4m43s elapsed 3m34s remaining (estimated)	
Totals downloaded 9108 56% 6874 queued 15997 total downloaded and queued 151 MB uncompressed data received	

[Refresh](#)

[Shut down Heritrix software](#) | [Logout](#)

Wikimedia Commons: "File:Heritrix-screenshot.png"

Done



Wget

```
adam@a:~$ wget https://en.wikipedia.org/wiki/Wget
--2014-02-09 07:38:43-- https://en.wikipedia.org/wik
i/Wget
Resolving en.wikipedia.org (en.wikipedia.org)... 208.
80.154.224, 2620:0:861:ed1a::1
Connecting to en.wikipedia.org (en.wikipedia.org)|208
.80.154.224|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/html]
Saving to: `Wget'

[ <=>          ] 91,646           583K/s   in 0.2s

2014-02-09 07:38:43 (583 KB/s) - `Wget' saved [91646]

adam@a:~$
```

[Wikimedia Commons: "File:Wget_1.13.4.png"](#)



HTTrack

HTTrack WEBSITE COPIER

Free software offline browser

[About](#)[Download](#)[Manual](#)[Forum](#)[Blog](#)[Information](#)[Français](#)

Version 3.48-3 (04/11/2014)

Engine fixes (keep-alive, redirects, new hash tables, unit tests)

Installing HTTrack: Go to the [download section](#) now!

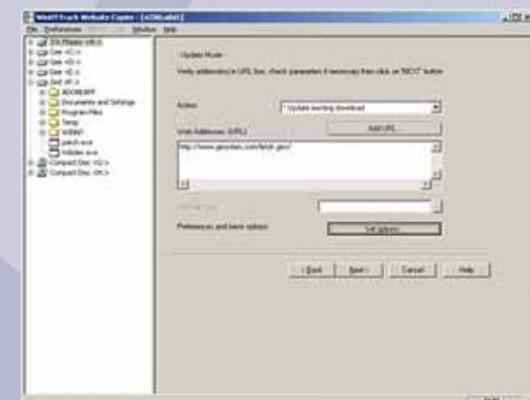
For help and questions: [Visit the forum](#), [Read the documentation](#), [Read the FAQs](#), [Browse the sources](#)

Welcome

HTTrack is a [free \(GPL, libre/free software\)](#) and easy-to-use offline browser utility.

It allows you to download a World Wide Web site from the Internet to a local directory, building recursively all directories, getting HTML, images, and other files from the server to your computer. HTTrack arranges the original site's relative link-structure. Simply open a page of the "mirrored" website in your browser, and you can browse the site from link to link, as if you were viewing it online. HTTrack can also update an existing mirrored site, and resume interrupted downloads. HTTrack is fully configurable, and has an integrated help system.

WinHTTrack is the Windows 2000/XP/Vista/Seven release of HTTrack, and WebHTTrack the Linux/Unix/BSD release. See the [download page](#).





Wayback

INTERNET ARCHIVE

Web Video Texts Audio Software About Account TVNews OpenLibrary

Home Donate | Store | Blog | FAQ | Jobs | Volunteer Positions

Search: All Media Types Advanced Search

Anonymous User (login or join us) Upload

Universal access to all knowledge

INTERNET ARCHIVE

WayBackMachine http:// BROWSE HISTORY

407 Billion web pages saved over time.

[DONATE](#)



Tools

[Wayback Machine Availability API](#)
Build your own tools.

[WordPress Broken Link Checker](#)
Banish broken links from your blog.

[404 Handler for Webmasters](#)
Help users get where they were going.



Subscription Service

Archive-It enables you to capture, manage and search collections of digital content without any technical expertise or hosting facilities. [Visit Archive-It to build and browse the collections.](#)



Save Page Now

[SAVE PAGE](#)

Capture a web page as it appears now for use as a trusted citation in the future.

Only available for sites that allow crawlers.

["Internet Archive Wayback Machine"](#)



Web Archiving Integration Layer



WAIL

Web Archiving Integration Layer
One-Click User Instigated Preservation

Fork me on GitHub

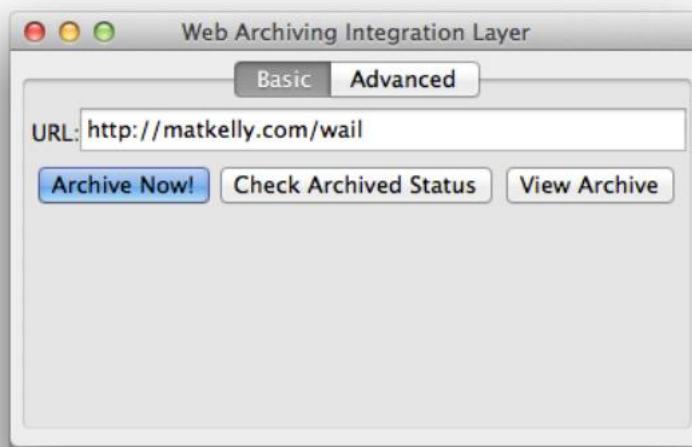
What Is It?

Web Archiving Integration Layer (WAIL) is a graphical user interface (GUI) atop multiple web archiving tools intended to be used as an easy way for anyone to preserve and replay web pages.

Tools included and accessible through the GUI are [Heritrix 3.1.2](#), [Wayback 1.7](#), and [warc-proxy](#). Support packages include [Apache Tomcat](#), [phantomjs](#) and [pvinstaller](#).

WAIL is written mostly in Python and a small amount of JavaScript.

Screenshots



Web Archiving Integration Layer		
Basic Advanced		
General Wayback Heritrix Miscellaneous		
SERVICE STATUS	STATE	VERSION
Heritrix	OK	3.1.2
Wayback	OK	?
Tomcat	OK	7.0.30

[“Web Archiving Integration Layer”](#)



Memento



["Memento"](#)



assess archivability w/ Archive Ready

 Archive Ready BETA

website archivability testing tool

[Home](#) [Help](#) [FAQ](#) [API](#)

Is your website Archive Ready?

[check now >](#)

What is ArchiveReady?
An online tool which evaluates if your website will be **archived correctly** by web archives, such as the Internet Archive.

Who is it for?
Web professionals who need to check if their websites are archive ready.
Web archive engineers who need to evaluate target websites before harvesting and ingestion.

How much does it cost?
ArchiveReady.com is **completely FREE for personal use**. Large scale use of the [ArchiveReady.com API](#) as well as technical and scientific support is **available on a fee**. Please contact the author to learn more [✉](#).

Why bother?
Because **not all websites are archive ready** and this may result in invalid web archives and ultimately in **information loss**.

How does it work?
ArchiveReady **analyses your website (i.e. HTML, Images, CSS, JS, Sitemaps)** and calculates a set of **Archivability Facets: Accessibility, Cohesion, Metadata, Performance & Standards Compliance**.

Do you need more information?
Banos V., Kim Y., Ross S., Manolopoulos Y.: **CLEAR: a credible method to evaluate website archivability**, 10th International Conference on Preservation of Digital Objects (**iPRES'2013**), Lisbon, 2013. [PDF ↗](#)
Service started in 2012/10/01, websites checked: 37018.

 Archive Ready BETA

website archivability testing tool

[About](#)

ArchiveReady was created by [Vangelis Banos ↗](#) (© 2012-2013). It is a personal research project and ["Archive Ready"](#)



thank you!

