

Introduction to Digital Libraries



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Content Management Systems



What are CMSs?

- Online systems to **create**, store, edit, secure, preserve, transform and **publish** original and acquired digital content.
- Examples:
 - Slashdot
 - Freshmeat
 - SourceForge
 - Wikipedia

Zope.org

The screenshot shows the Zope.org website homepage. At the top, there is a blue header with the Zope logo and the text "Zope Community". To the right of the logo is a search bar with the word "search" next to it. Below the header, there is a navigation bar with the text "You are here: Home" on the left and "You are not logged in" followed by links for "Log in" and "Join" on the right.

The main content area is divided into several sections:

- About Zope:** A list of links including "What Is Zope?", "Zope Powered Sites", "About Zope.org", "Member FAQ", and "Zope News".
- Business:** A list of links including "Zope Corporation", "Solution Providers", and "Zope Hosting".
- Documentation:** A list of links including "The Zope Book", "Developer Guide", "Administrator Guide", "API reference", and "ZPT reference".
- Welcome to Zope.org:** A large section with the heading "Welcome to Zope.org" and the subtitle "The Web Site for the Zope Community". It contains the text "What is Zope?" followed by a paragraph describing Zope as an open source application server for building content managements, intranets, portals, and custom applications. It also mentions that the Zope community consists of hundreds of companies and thousands of developers all over the world, working on building the platform and Zope applications. Zope is written in Python, a highly-productive, object-oriented scripting language. A link for "more" is provided.
- Welcome to the new Zope.org!:** A smaller section with the heading "Welcome to the new Zope.org!". It contains the text "Zope.org has a new look and a new platform, based on Zope 2.6.2, the CMF and Plone." and "The old site will remain accessible at <http://old.zope.org> for some time."
- Training:** Two boxes on the right side of the page. The top one is titled "Zope 4 Intranets Training Zope Intermediate Solutions Training" and dates "Sept 27 - 30, 2004". The bottom one is titled "Zope Technical Solutions Training" and dates "July 19 - 22, 2004".

PHPNuke, PostNuke, Zope

- ❑ Manage basic content (pages) and gather resources from different locations.
- ❑ Easy to use and install for end users.
- ❑ Professional appearance.
- ❑ Minimal installation resources.
- ❑ Modular and extensible.
 - Portal approach to user interface.
- ❑ Lots of existing software packages: PHPNuke, PostNuke, Zope, etc.

Tiki-Wiki

The screenshot displays the AIM website interface. At the top center is the AIM logo, which consists of the letters 'A', 'I', and 'M' in a stylized, overlapping font. Below the logo is a welcome message: "Welcome to the website for the Advanced Information Management research laboratory (AIM), a new and exciting venture of the Department of Computer Science at UCT to foster collaboration among staff members with related research interests and provide a forum for peer learning among post-graduate students." Below the welcome message is a link to "Members".

The interface includes several modules:

- AIM Home:** A box containing the AIM logo and the text "Advanced Information Management".
- Login:** A box with fields for "user:" and "pass:", a "login" button, and a link "I forgot my pass".
- Search:** A box with a search input field, a dropdown menu set to "Entire Site", and a "go" button.
- Menu:** A box with a "home" link and four menu items: "[-] Wiki [+]", "[-] Image Gals [+]", "[-] Forums [+]", and "[-] File Galleries [+]".
- Calendar:** A box showing a calendar for the month of July 2004. The days of the week are labeled S, M, T, W, T, F, S. The dates are listed in a grid format.
- Recently visited pages:** A box with a heading "Recently visited pages" and a list of pages.
- Last changes:** A box with a heading "Last changes" and a list of changes.

The "Recently visited pages" and "Last changes" lists are as follows:

- 1) SandBox
- 2) Members
- 3) Areas of Interest
- 4) Activities
- 5) AIM
- 6) ...

Wikipedia

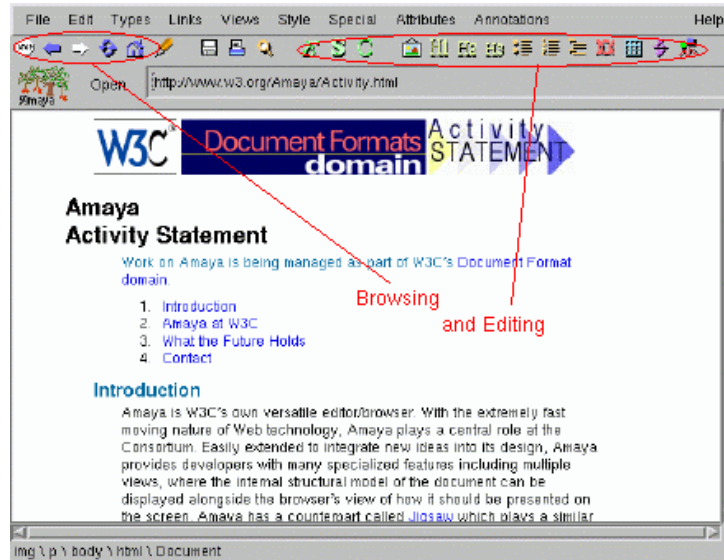


The screenshot shows the Wikipedia Main Page. At the top left is the Wikipedia logo, a globe made of puzzle pieces, with the text "WIKIPEDIA The Free Encyclopedia" below it. To the right of the logo is a navigation menu with buttons for "article", "discussion", "view source", and "history". Further right is a "Log in" button. Below the logo is a "navigation" section with a list of links: "Main Page", "Community portal", "Current events", "Recent changes", "Random page", "Help", and "Donations". Below that is a "search" section with a text input field, "Go" and "Search" buttons, and a "toolbox" section with a link for "What links here". The main content area is titled "Main Page" and contains a welcome message: "Welcome to Wikipedia! We are building an open-content encyclopedia in many languages. In the English version, started in January 2001, we are now working on 302665 articles. Learn how to edit pages, experiment in the sandbox, and visit our Community Portal to find out how you can participate in the development of Wikipedia." To the right of the welcome message are links for "Browse by topic", "Other languages", "Sister projects", "Text only", and "No tables". Below the welcome message are two featured sections: "Today's featured article" with a photo of a saxophone player and text describing the saxophone as a musical instrument of the woodwind family, and "In the news" with a link to "The International Court of Justice" and a photo of a building.

Wiki

- ❑ Wikis are collaborative website editors, using a Web interface.
- ❑ Every page (generally) has an "edit" button.
- ❑ HTML is too complex so it is simplified
 - e.g., !! heading, *bullets, _bold_
 - New pages are created by linking to them.
- ❑ Security is not necessary - actions can be undone by an administrator.

Amaya



Tim Berners-Lee's WWW Vision

- ❑ The WWW is meant to be a place for accessing and authoring content, not just the former.
- ❑ Amaya is W3C's experimental 2-way browser that works with their 2-way server Jigsaw.
- ❑ Is access more important than content creation? Why (not)?

Blogger.com

Written	9
is Written	1,835
und Links	0
ie Views	138

Recent Posts

[Math Project!](#)

25 May 2004

hey blog! Well .. Today I got my math result .. eh .. I got 23/30 ! I wasnt really happy, and I wasnt upset! I just want this corse to END ! And Guess what ! I have a new thing to worry about ! It My MATH project ! well .. Wish me all the best I dont know where really to start ! ...

[hey blog! Well .. Bad Day! I did really bad...](#)

24 May 2004

... my CAP test ! eh :(Also My Math test told us that he is really upset from our test results :(And I feel that he is talking about me :(so I am getting really upset ! Well .. Today , I was really embaressed .. lol I was saying :- WHEN THIS CAP TEACHER WILL COME UFF .. Suddenly !! Guess...

[Cool Day !](#)

23 May 2004

hey blog! Well .. It was a good day ! Tomorrow I have a CAP test! hmmm .. I am studying for it.. Well .. There is nothing new today ! So0o .. I am going to teach

Weblogs

- ❑ Online Web-based journals.
 - There are also online photo albums, shopping lists, CD inventories, etc.
- ❑ Simple interface for non-techie users to publish thoughts.
- ❑ Single or group.
- ❑ Usually free - what are the economics?

Ananzi

The screenshot shows the Ananzi website interface. At the top, there is a navigation bar with "International" and "Classic watch" links. Below this, a yellow box contains the text "Browse SA web sites by category". The main content area is divided into two columns. The left column lists several categories with blue underlined links: "Industry & Engineering" (Manufacturing, Mining, Auctions...), "Motoring" (Cars, Trucks, Auctions...), "Personal Finance" (Investments, Tax, Banks...), "Property" (For Sale, Rentals, Auctions...), "Reference & Publications" (Newspapers, Books, Media...), "Science & Environment" (Astronomy, Weather, Farming...), and "Shopping & Auctions". The right column features three news feeds: "Ananzi News" (news24.com) with headlines like "Work on barrier wall continues", "Men draw swastikas on mom", "Leaders must do more - Annan", "Hostage taken in Baghdad", and "Sharks can boost ECape"; "BBC News" (BBC NEWS) with headlines like "Tel Aviv hit by rush hour blast", "Kerry blasts Bush Iraq 'failures'", and "UN head urges action against Aids"; and "Ananzi Sport" (360 Sports) with headlines like "Zim rebels given new deadline", "Scottish Open: Sunday's latest news, scores", "All Blacks back island style", and "Chiefs Progress To Final".

Content Syndication

- ❑ Really Simple Syndication (RSS) is an XML-RPC (predecessor to SOAP) protocol to transfer a list of recently updated entries from one CMS to another.
- ❑ RSS uses the Resource Description Framework (RDF) XML format to encode items.
- ❑ Blogs, Wikis and other CMSes generally support RSS, sometimes both as client and server.
- ❑ Why not OAI-PMH?

CMSs and the WWW

- Why do we need CMSes on the WWW?
- What did we do before CMSes?
- What fundamental properties of the Web have resulted in the evolution of CMSes?
- How can we improve on current CMSes?
- What have we learnt from the increasing popularity of Wikis and Blogs?

CMSs and Digital Libraries

- How do CMSs relate to Digital Library systems?
 - Similarities?
 - Differences?
- Is one a subset of the other? or are they complementary? or will one eventually replace the other?