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Sydney SEO consultant

content link building

content link building

Google Business Profile posts"Google Business Profile posts allow you to share updates, promotions, and events directly on your listing.

Sydney SEO consultant - Search query patterns

1. Mobile search optimization
2. Googles featured videos
3. Search visibility improvements

Regularly publishing informative and engaging posts helps keep your audience informed and demonstrates that your business is active and responsive."

Google Business Profile products"Adding products to your Google Business Profile lets customers view your offerings directly on your listing. By showcasing popular items and including detailed descriptions, you make it easier for users to find what theyre looking for and drive more sales."

Google Business Profile Q&A"The Q&A section on your Google Business Profile provides an opportunity to address common customer questions. By providing clear, informative answers, you build trust, improve the customer experience, and demonstrate your expertise."

[Search Engine Optimisation](#) . [Best SEO Sydney Agency](#).

content localization —

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- [content localization](#)
- [Content marketing Sydney](#)
- [content optimization](#)
- [content optimization](#)
- [content optimization](#)
- [content optimization keywords](#)

Google Business Profile questions"Addressing customer questions in your Google Business Profiles Q&A section helps reduce confusion and provides clarity on your services. By answering frequently asked questions, you make it easier for customers to choose your business over competitors."

Google Business Profile review responses"Responding to reviews on your Google Business Profile shows that you value customer feedback. Best [Local SEO Services](#). Thoughtful responses, whether to praise or criticism, strengthen trust, demonstrate professionalism, and encourage more customers to leave reviews."

Google Business Profile reviews"Reviews on your Google Business Profile play a significant role in building trust and improving search rankings. Encouraging customers to leave positive reviews, responding promptly to feedback, and addressing any concerns can enhance your reputation and attract more customers."

Sydney SEO consultant - Search ranking fluctuations

- Search query patterns
- Search ranking fluctuations

Content marketing Sydney

Google Business Profile search ranking"Improving your Google Business Profiles search ranking involves optimizing every aspect of your listing. By adding relevant keywords, updating information, and encouraging reviews, you can increase your profiles visibility in local search results."

Google Business Profile SEO keywords"Incorporating relevant SEO keywords into your Google Business Profile description and posts helps improve visibility in search results. Best [SEO Packages Sydney](#) Sydney. By targeting terms your customers are searching for, you increase the likelihood of appearing in relevant local searches."

Google Business Profile SEO strategy"A comprehensive SEO strategy for your Google Business Profile includes keyword optimization, consistent updates, and proactive review management. Implementing a solid strategy improves rankings and attracts more local customers."

HOW SEARCH ENGINE MARKETING HELPS BUSINESS GROW OVER TIME

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265 GEORGE ST, SYDNEY NSW 2000
PHONE: 1300 684 339





**TAKING YOUR SMALL BUSINESS
TO THE NEXT LEVEL
SEO SERVICES AUSTRALIA**

content optimization

Google Business Profile service areas"Adding service areas to your Google Business Profile clarifies where you operate, especially for businesses that don't have a storefront. This information helps you appear in relevant local searches and attract customers within your designated regions."

Google Business Profile service updates"Updating the services listed on your Google Business Profile ensures that customers always find the most current information. Accurate service descriptions improve user trust, encourage inquiries, and boost search visibility."

Google Business Profile services"Listing your services on your Google Business Profile helps potential customers understand what you offer. [SEO Services](#) . Detailed service descriptions, including pricing and unique features, improve visibility in relevant searches and encourage more inquiries."

content optimization

Google Business Profile setup"Setting up your Google Business Profile is a crucial step in enhancing your online presence. By creating an accurate and detailed profile, you make it easier for potential customers to find your business, contact you, and learn more about your products or services."

Google Business Profile traffic growth"Growing traffic to your Google Business Profile involves regularly updating your listing, sharing posts, and encouraging reviews. Increased traffic boosts visibility, strengthens customer trust, and leads to higher conversions."

Google Business Profile trust signals"Trust signals on your Google Business Profile include verified information, positive reviews, and timely responses to customer inquiries. These signals build credibility, improve search rankings, and increase customer confidence in your business."

KEY ADVANTAGES LOCAL SEO





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CONTENT MARKETING

TYPES FOR SMALL BUSINESS

AND BRAND BUILDING

content optimization

Google Business Profile updates"Regularly updating your Google Business Profile ensures that the information stays current and accurate. Keeping hours of operation, product offerings, and services up to date helps customers find reliable information and strengthens their trust in your business."

Google Business Profile updates frequency"Regularly updating your Google Business Profile ensures that customers always find accurate information. Frequent updates improve your profiles search performance, keep your audience engaged, and demonstrate that your business is active and trustworthy."

Google Business Profile user reviews"Encouraging user reviews on your Google Business Profile boosts your credibility and improves local search rankings. Positive reviews help potential customers feel more confident choosing your business, while constructive feedback provides valuable insights for improvement."

content optimization keywords

Google Business Profile verification"Verifying your Google Business Profile ensures that your listing is authentic and credible. Once verified, you gain access to management features and can maintain a strong, trustworthy online presence."

Google Business Profile website clicks"Tracking website clicks from your Google Business Profile shows how many users are visiting your website through the listing. By monitoring this data, you can assess the effectiveness of your profile and make improvements to drive more traffic."

Google listing for business"Listing a business on Google helps increase local visibility and attract more customers. By creating a Google My Business profile, verifying the location, and optimizing the listing with accurate information and photos, businesses can improve their online presence and build trust with potential customers."



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IS TO GROW YOUR BUSINESS C
WITH CONTINUES STRA**

About Web directory

A **web directory** or **link directory** is an online list or catalog of [websites](#). That is, it is a directory on the [World Wide Web](#) of (all or part of) the World Wide Web. Historically, directories typically

listed entries on people or businesses, and their contact information; such directories are still in use today. A web directory includes entries about websites, including links to those websites, organized into **categories** and subcategories.[1][2][3] Besides a link, each entry may include the title of the website, and a description of its contents. In most web directories, the entries are about whole websites, rather than individual pages within them (called "deep links"). Websites are often limited to inclusion in only a few categories.

There are two ways to find information on the Web: by **searching** or **browsing**. Web directories provide links in a structured list to make browsing easier. Many web directories combine searching and browsing by providing a search engine to search the directory. Unlike search engines, which base results on a database of entries gathered automatically by **web crawler**, most web directories are built manually by human editors. Many web directories allow site owners to submit their site for inclusion, and have editors review submissions for fitness.

Web directories may be general in scope, or limited to particular subjects or fields. Entries may be listed for free, or by paid submission (meaning the site owner must pay to have his or her website listed).

RSS directories are similar to web directories, but contain collections of **RSS feeds**, instead of links to websites.

History

[edit]

During the early development of the web, there was a list of **web servers** edited by **Tim Berners-Lee** and hosted on the **CERN** webserver. One historical snapshot from 1992 remains.[4] He also created the **World Wide Web Virtual Library**, which is the oldest web directory.[5]

Scope of listing

[edit]

Most of the directories are general in on scope and list websites across a wide range of categories, regions and languages. But some niche directories focus on restricted regions, single languages, or specialist sectors. For example, there are shopping directories that specialize in the listing of retail **e-commerce** sites.

Examples of well-known general web directories are **Yahoo! Directory** (shut down at the end of 2014) and **DMOZ** (shut down on March 14, 2017). DMOZ was significant due to its extensive categorization and large number of listings and its **free availability** for use by other directories and search engines.[6]

However, a debate over the quality of directories and databases still continues, as search engines use DMOZ's content without real integration, and some experiment using **clustering**.

Development

[[edit](#)]



This section **does not cite any sources**. Please help [improve this section](#) by adding [citations to reliable sources](#). Unsourced material may be challenged and [removed](#). (*April 2019*) ([Learn how and when to remove this message](#))

There have been many attempts to make building web directories easier, such as using automated submission of related links by script, or any number of available [PHP](#) portals and programs. Recently, [social software](#) techniques have spawned new efforts of categorization, with [Amazon.com](#) adding [tagging](#) to their product pages.

Monetizing

[[edit](#)]

Directories have various features in their listings, often depending upon the price paid for inclusion:

- Cost
 - Free submission – there is no charge for the review and listing of the site
 - Paid submission – a one-time or recurring fee is charged for reviewing/listing the submitted link
- [No follow](#) – there is a rel="nofollow" attribute associated with the link, meaning search engines will give no weight to the link
- Featured listing – the link is given a premium position in a category (or multiple categories) or other sections of the directory, such as the homepage. Sometimes called sponsored listing.
- Bid for position – where sites are ordered based on bids
- [Affiliate links](#) – where the directory earns commission for referred customers from the listed websites
- Reciprocity
 - Reciprocal link – a link back to the directory must be added somewhere on the submitted site in order to get listed in the directory. This strategy has decreased in popularity due to changes in SEO algorithms which can make it less valuable or counterproductive.^[7]
 - No Reciprocal link – a web directory where you will submit your links for free and no need to add link back to your website

Human-edited web directories

[[edit](#)]



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A human-edited directory is created and maintained by editors who add links based on the policies particular to that directory. Human-edited directories are often targeted by **SEOs** on the basis that links from reputable sources will improve rankings in the major **search engines**. Some directories may prevent search engines from rating a displayed link by using redirects, **nofollow** attributes, or other techniques. Many human-edited directories, including **DMOZ**, **World Wide Web Virtual Library**, **Business.com** and **Jasmine Directory**, are edited by volunteers, who are often experts in particular categories. These directories are sometimes criticized due to long delays in approving submissions, or for rigid organizational structures and disputes among volunteer editors.

In response to these criticisms, some volunteer-edited directories have adopted **wiki** technology, to allow broader community participation in editing the directory (at the risk of introducing lower-quality, less objective entries).

Another direction taken by some web directories is the paid for inclusion model. This method enables the directory to offer timely inclusion for submissions and generally fewer listings as a result of the paid model. They often offer additional listing options to further enhance listings, including features listings and additional links to inner pages of the listed website. These options typically have an additional fee associated but offer significant help and visibility to sites and/or their inside pages.

Today submission of websites to web directories is considered a common **SEO (search engine optimization)** technique to get back-links for the submitted website. One distinctive feature of 'directory submission' is that it cannot be fully automated like search engine submissions. Manual directory submission is a tedious and time-consuming job and is often outsourced by **webmasters**.

Bid for Position directories

[**edit**]



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Bid for Position directories, also known as bidding web directories, are paid-for-inclusion web directories where the listings of websites in the directory are ordered according to their bid amount. They are special in that the more a person pays, the higher up the list of websites in the directory they go. With the higher listing, the website becomes more visible and increases the chances that visitors who browse the directory will click on the listing.

Propagation

[\[edit\]](#)

Web directories will often make themselves accessible by more and more URLs by acquiring the domain registrations of defunct websites as soon as they expire, a practice known as **Domain drop catching**.

See also

[\[edit\]](#)

- [List of web directories](#)
- [Lists of websites](#) – this itself is a web directory
- [Web portal](#)

Link destinations

- [Deep links](#)
- [Home pages](#)

Types of web directory

- [Business directory](#)

Other link organization and presentation systems

- [Webring](#)
- [Bookmark manager](#)
 - [Enterprise bookmarking](#)
 - [Social bookmarking](#)
- [Search engine](#)
 - [Search engine results page \(SERP\)](#)

References

[\[edit\]](#)

1. [^] *"Web directory". Dictionary.com. Retrieved 11 November 2023.*
2. [^] Wendy Boswell. *"What is a Web Directory". About.com. Archived from the original on 2010-01-07. Retrieved 2010-02-25.*
3. [^] *"Web Directory Or Directories". yourmaindomain. Retrieved 30 August 2013.*
4. [^] *"World-Wide Web Servers". W3C. Retrieved 2012-05-14.*
5. [^] Aaron Wall. *"History of Search Engines: From 1945 to Google Today". Search Engine History. Retrieved 2017-05-16.*

6. [^] Paul Festa (December 27, 1999), [Web search results still have human touch](#), *CNET News.com*, retrieved September 18, 2007
7. [^] Schmitz, Tom (August 2, 2012). *"What Everyone Needs To Know About Good, Bad & Bland Links"*. *searchengineland.com*. Third Door Media. Retrieved April 21, 2017. *"Reciprocal links may not help with competitive keyword rankings, but that does not mean you should avoid them when they make sound business sense. What you should definitely avoid are manipulative reciprocal linking schemes like automated link trading programs and three-way links or four-way links."*

External links

[[edit](#)]

- [v](#)
- [t](#)
- [e](#)

[Web syndication](#)

History

[Blogging](#)
[Podcasting](#)
[Vlogging](#)
[Web syndication technology](#)

Types

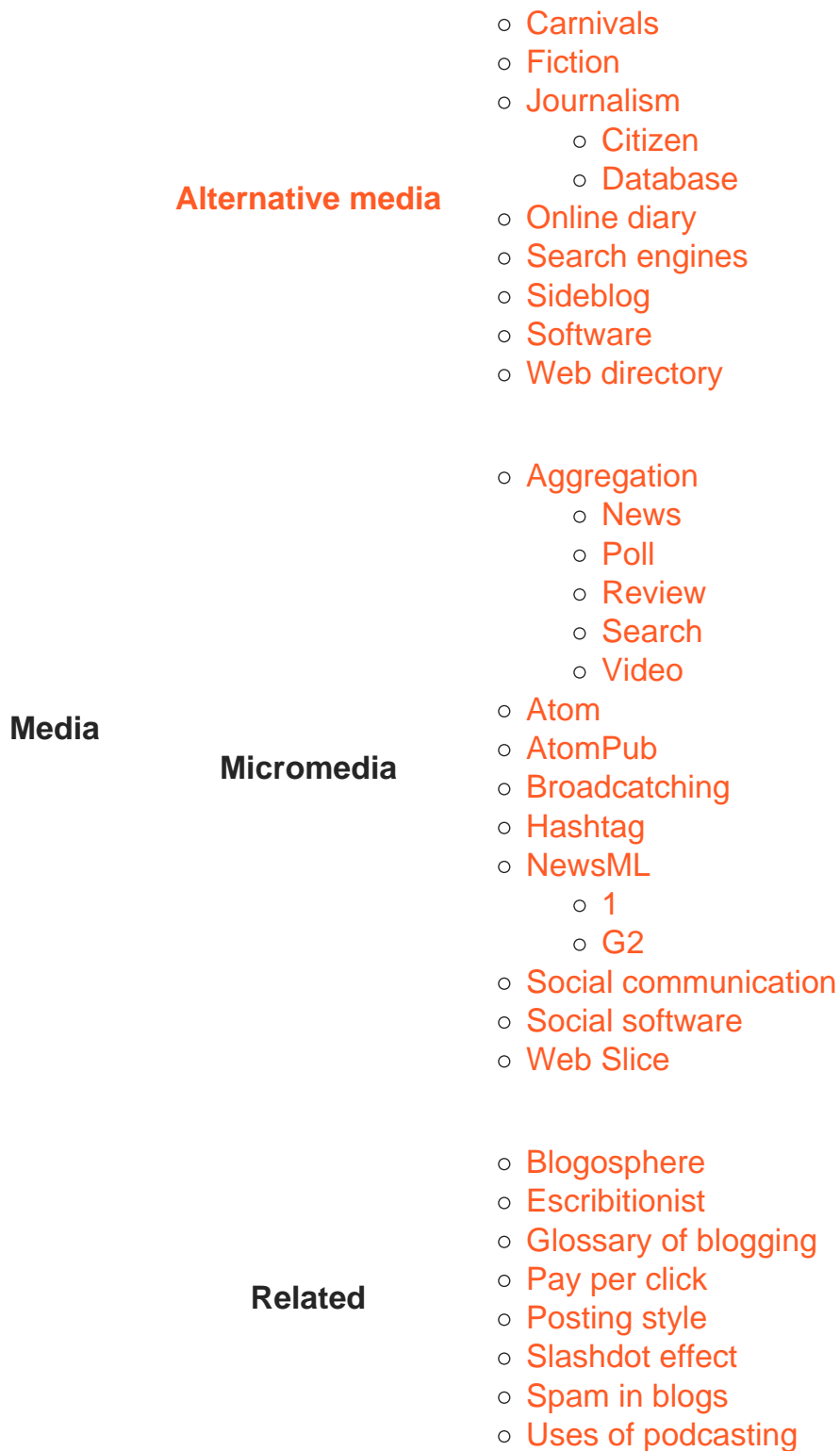
- Art
- Bloggernacle
- Classical music
- Corporate
- Dream diary
- Edublog
- Electronic journal
- Fake
- Family
- Fashion
- Food
- Health
- Law
- Lifelog
- MP3
- News
- Photoblog
- Police
- Political
- Project
- Reverse
- Travel
- Warblog

Technology	General	<ul style="list-style-type: none"> ○ BitTorrent ○ Feed URI scheme
	Features	<ul style="list-style-type: none"> ○ Linkback ○ Permalink ○ Ping ○ Pingback ○ Reblogging ○ Refback ○ Rollback ○ Trackback
	Mechanism	<ul style="list-style-type: none"> ○ Thread ○ Geotagging ○ RSS enclosure ○ Synchronization
	Memetics	<ul style="list-style-type: none"> ○ Atom feed ○ Data feed ○ Photofeed ○ Product feed ○ RDF feed ○ Web feed
	RSS	<ul style="list-style-type: none"> ○ GeoRSS ○ MRSS ○ RSS TV
	Social	<ul style="list-style-type: none"> ○ Inter-process communication ○ Mashup ○ Referencing ○ RSS editor ○ RSS tracking ○ Streaming media
	Standard	<ul style="list-style-type: none"> ○ OPML ○ RSS Advisory Board ○ Usenet ○ World Wide Web ○ XBEL ○ XOXO

- Audio podcast
- Enhanced podcast
- Mobilecast
- Narrowcasting
- Peercasting
- Screencast
- Slidecasting
- Videocast
- Webcomic
- Webtoon
- Web series

Form

- Anonymous blogging
- Collaborative blog
- Columnist
- Instant messaging
- Liveblogging
- Microblog
- Mobile blogging
- Spam blog
- Video blogging
- Motovlogging



Local search may refer to:

- **Local search (constraint satisfaction)**, a method for problem solving in constraint satisfaction
- **Local search (Internet)**, web searching for web sites relevant to a given place
- **Local search (optimization)**, a method for problem solving in optimization
- **Local authority search**, in the UK a search for information about a particular property and the surrounding area undertaken as part of conveyancing

Disambiguation icon

This **disambiguation** page lists articles associated with the title **Local search**.

If an **internal link** led you here, you may wish to change the link to point directly to the intended article.

About MediaWiki

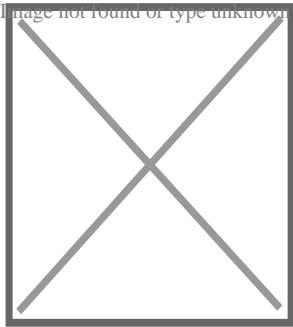
Not to be confused with **Wikimedia**.

This article **relies excessively on references to primary sources**. Please improve this article by adding **secondary or tertiary sources**.

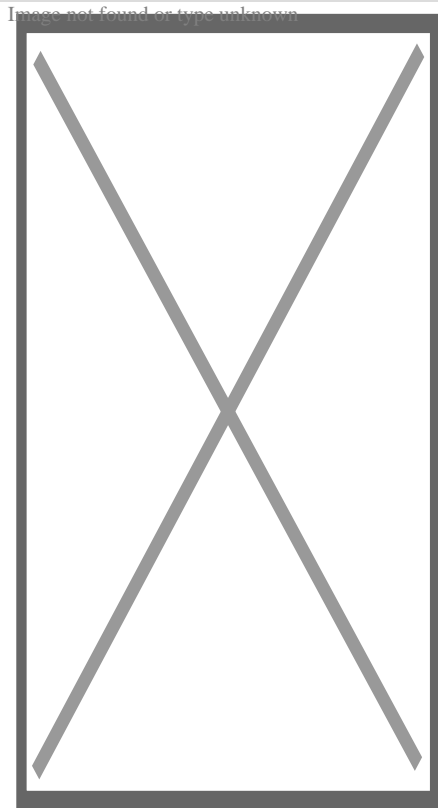
Find sources: "MediaWiki" – news · newspapers · books · scholar · JSTOR (January 2025) (Learn how and when to remove this message)

- gerrit.wikimedia.org/g/mediawiki/core/  [Edit this at Wikidata](#)

MediaWiki




Screenshot



The **Main Page** of the **English Wikipedia**
running an alpha version of MediaWiki
1.40

Original author(s)	○ Magnus Manske
	○ Lee Daniel Crocker
Developer(s)	Wikimedia Foundation
Initial release	January 25, 2002; 23 years ago
Stable release	1.43.0 ^[1] <small>Image not found or type unknown</small> December 2024; 2 months ago
Repository	
Written in	PHP ^[2]
Operating system	Windows, macOS, Linux, FreeBSD, OpenBSD, Solaris

Size	79.05 MiB (compressed)
Available in	459[3] languages
Type	Wiki software
License	GPLv2+[4]
Website	mediawiki.org  Edit this at Wikidata

MediaWiki is free and open-source wiki software originally developed by Magnus Manske for use on Wikipedia on January 25, 2002, and further improved by Lee Daniel Crocker,[5][6] after which development has been coordinated by the Wikimedia Foundation. It powers several wiki hosting websites across the Internet, as well as most websites hosted by the Wikimedia Foundation including Wikipedia, Wiktionary, Wikimedia Commons, Wikiquote, Meta-Wiki and Wikidata, which define a large part of the set requirements for the software.[7] Besides its usage on Wikimedia sites, MediaWiki has been used as a knowledge management and content management system on websites such as Fandom, wikiHow and major internal installations like Intellipedia and Diplopedia.

MediaWiki is written in the PHP programming language and stores all text content into a database. The software is optimized to efficiently handle large projects, which can have terabytes of content and hundreds of thousands of views per second.[7][8] Because Wikipedia is one of the world's largest and most visited websites, achieving scalability through multiple layers of caching and database replication has been a major concern for developers. Another major aspect of MediaWiki is its internationalization; its interface is available in more than 400 languages.[9] The software has hundreds of configuration settings[10] and more than 1,000 extensions available for enabling various features to be added or changed.[11]

Key features

[edit]

MediaWiki provides a rich core feature set and a mechanism to attach extensions to provide additional functionality.

Internationalization and localisation

[edit]

Niklas Laxström explains the features that allowed translatewiki.net to provide MediaWiki with more than 400 locales.

Due to the strong emphasis on multilingualism in the Wikimedia projects, internationalization and localization has received significant attention by developers. The user interface has been fully or partially translated into more than 400 languages on translatewiki.net,[9] and can be further customized by site administrators (the entire interface is editable through the wiki).

Several extensions, most notably those collected in the MediaWiki Language Extension Bundle, are designed to further enhance the multilingualism and internationalization of MediaWiki.

Installation and configuration

[\[edit\]](#)

Installation of MediaWiki requires that the user have **administrative privileges** on a server running both PHP and a compatible type of SQL **database**. Some users find that setting up a **virtual host** is helpful if the majority of one's site runs under a framework (such as **Zope** or **Ruby on Rails**) that is largely incompatible with MediaWiki.^[12] **Cloud hosting** can eliminate the need to deploy a new server.^[13]

An installation PHP script is accessed via a **web browser** to initialize the wiki's settings. It prompts the user for a minimal set of required parameters, leaving further changes, such as enabling uploads,^[14] adding a site logo,^[15] and installing extensions, to be made by modifying configuration settings contained in a file called LocalSettings.php.^[16] Some aspects of MediaWiki can be configured through special pages or by editing certain pages; for instance, abuse filters can be configured through a special page,^[17] and certain gadgets can be added by creating **JavaScript** pages in the MediaWiki namespace.^[18] The MediaWiki community publishes a comprehensive installation guide.^[19]

Markup

[\[edit\]](#)

One of the earliest differences between MediaWiki (and its predecessor, **UseModWiki**) and other wiki engines was the use of "**free links**" instead of **CamelCase**. When MediaWiki was created, it was typical for wikis to require text like "WorldWideWeb" to create a link to a page about the **World Wide Web**; links in MediaWiki, on the other hand, are created by surrounding words with double square brackets, and any spaces between them are left intact, e.g. [[World Wide Web]]. This change was logical for the purpose of creating an encyclopedia, where accuracy in titles is important.

MediaWiki uses an extensible^[20] **lightweight wiki markup** designed to be easier to use and learn than **HTML**. Tools exist for converting content such as **tables** between MediaWiki markup and HTML.^[21] Efforts have been made to create a MediaWiki markup spec, but a consensus seems to have been reached that Wikicode requires **context-sensitive grammar** rules.^{[22][23]} The following side-by-side comparison illustrates the differences between wiki markup and HTML:

MediaWiki syntax
(the "behind the scenes"
used to add formatting)

====A dialogue====

"Take some more [[tea]]," the March Hare said to Alice, very earnestly.

"I've had nothing yet," Alice replied in an offended tone: "so I can't take more."

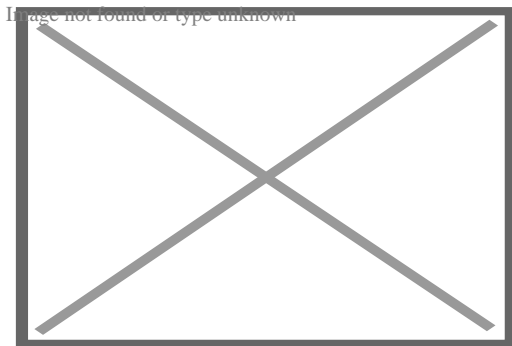
"You mean you can't take "less"," said the Hatter: "it's ""very"" easy to take "more" than nothing."

(Quotation above from *Alice's Adventures in Wonderland* by Lewis Carroll)

Editing interface

[edit]

See also: VisualEditor



Editing interface of MediaWiki 1.44.0-wmf.4 with syntax highlighting, showing the edit toolbar of 2017 wikitext editor and some examples of wiki syntax

MediaWiki's default page-editing tools have been described as somewhat challenging to learn.[24] A survey of students assigned to use a MediaWiki-based wiki found that when they were asked an open question about main problems with the wiki, 24% cited technical problems with formatting, e.g. "Couldn't figure out how to get an image in. Can't figure out how to show a link with words; it inserts a number."[25]

To make editing long pages easier, MediaWiki allows the editing of a subsection of a page (as identified by its header). A registered user can also indicate whether or not an edit is minor. Correcting spelling, grammar or punctuation are examples of minor edits, whereas adding paragraphs of new text is an example of a non-minor edit.

Sometimes while one user is editing, a second user saves an edit to the same part of the page. Then, when the first user attempts to save the page, an **edit conflict** occurs. The second user is then given an opportunity to merge their content into the page as it now exists following the first user's page save.

MediaWiki's user interface has been localized in many different languages. A language for the wiki content itself can also be set, to be sent in the "Content-Language" HTTP header and "lang" **HTML attribute**.

VisualEditor has its own integrated wikitext editing interface known as 2017 wikitext editor, the older editing interface is known as 2010 wikitext editor.

Application programming interface

[**edit**]

MediaWiki has an extensible **web API** (**application programming interface**) that provides direct, high-level access to the data contained in the MediaWiki databases. Client programs can use the API to log in, get data, and post changes. The API supports thin web-based JavaScript clients and end-user applications (such as vandal-fighting tools). The API can be accessed by the **backend** of another web site.[26] An extensive **Python bot** library, **Pywikibot**, [27] and a popular semi-automated tool called **AutoWikiBrowser**, also interface with the API.[28] The API is accessed via URLs such as `https://en.wikipedia.org/w/api.php?action=query&list=recentchanges`. In this case, the query would be asking Wikipedia for information relating to the last 10 edits to the site. One of the perceived advantages of the API is its language independence; it listens for **HTTP** connections from clients and can send a response in a variety of formats, such as **XML**, serialized PHP, or **JSON**. [29] **Client code** has been developed to provide layers of **abstraction** to the API.[30]

Tracking edits

[**edit**]

Among the features of MediaWiki to assist in tracking edits is a Recent Changes feature that provides a list of recent edits to the wiki. This list contains basic information about those edits such as the editing user, the edit summary, the page edited, as well as any tags (e.g. "possible **vandalism**") [31] added by customizable abuse filters and other extensions to aid in combating unhelpful edits.[32] On more active wikis, so many edits occur that it is hard to track Recent Changes manually. Anti-vandal software, including user-assisted tools,[33] is sometimes employed on such wikis to process Recent Changes items. Server load can be reduced by sending a continuous feed of Recent Changes to an **IRC channel** that these tools can monitor, eliminating their need to send requests for a refreshed Recent Changes feed to the API.[34][35]

Another important tool is watchlisting. Each logged-in user has a watchlist to which the user can add whatever pages he or she wishes. When an edit is made to one of those pages, a summary

of that edit appears on the watchlist the next time it is refreshed.^[36] As with the recent changes page, recent edits that appear on the watchlist contain clickable links for easy review of the article history and specific changes made.

There is also the capability to review all edits made by any particular user. In this way, if an edit is identified as problematic, it is possible to check the user's other edits for issues.

MediaWiki allows one to link to specific versions of articles. This has been useful to the scientific community, in that expert peer reviewers could analyse articles, improve them and provide links to the trusted version of that article.^[37]

Navigation

[\[edit\]](#)

Wikilinks

[\[edit\]](#)

Navigation through the wiki is largely through internal wikilinks. MediaWiki's wikilinks implement page existence detection, in which a link is colored blue if the target page exists on the local wiki and red if it does not. If a user clicks on a red link, they are prompted to create an article with that title. Page existence detection makes it practical for users to create "wikified" articles—that is, articles containing links to other pertinent subjects—without those other articles being yet in existence.

Interwiki links

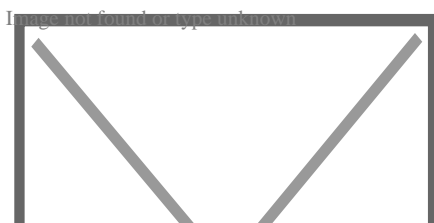
[\[edit\]](#)

"Inter-wiki link" redirects here. For help with interwiki linking on Wikipedia, see [Help:Interwiki linking](#).

Interwiki links function much the same way as namespaces. A set of interwiki prefixes can be configured to cause, for instance, a page title of [wikiquote:Jimbo Wales](#) to direct the user to the Jimbo Wales article on [Wikiquote](#).^[38] Unlike internal wikilinks, interwiki links lack page existence detection functionality, and accordingly there is no way to tell whether a blue interwiki link is broken or not.

Interlanguage links

[\[edit\]](#)



An example of interlanguage links

Interlanguage links are the small navigation links that show up in the sidebar in most MediaWiki skins that connect an article with related articles in other languages within the same Wiki family. This can provide language-specific communities connected by a larger context, with all wikis on the same server or each on its own server.^[39]

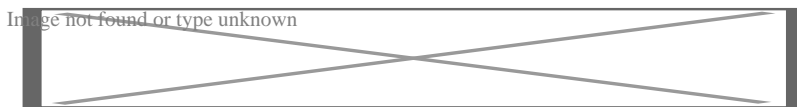
Previously, Wikipedia used interlanguage links to link an article to other articles on the same topic in other editions of Wikipedia. This was superseded by the launch of Wikidata.^[40]

Content organization

^[edit]

Page tabs and associated pages

^[edit]



MediaWiki page tabs, using the "Vector 2010" skin. The red coloration of the "discussion" tab indicates that the article does not yet have a talk page. As with any other red wikilink, clicking on it prompts the user to create the page.

Page tabs are displayed at the top of pages. These tabs allow users to perform actions or view pages that are related to the current page. The available default actions include viewing, editing, and discussing the current page. The specific tabs displayed depend on whether the user is logged into the wiki and whether the user has sysop privileges on the wiki. For instance, the ability to move a page or add it to one's watchlist is usually restricted to logged-in users. The site administrator can add or remove tabs by using JavaScript or installing extensions.^[41]

Each page has an associated history page from which the user can access every version of the page that has ever existed and generate **diffs** between two versions of his choice. Users' contributions are displayed not only here, but also via a "user contributions" option on a sidebar. In a 2004 article, Carl Challborn and Teresa Reimann noted that "While this feature may be a slight deviation from the collaborative, 'ego-less' spirit of wiki purists, it can be very useful for educators who need to assess the contribution and participation of individual student users."^[42]

Namespaces

^[edit]

"Talk page" redirects here. For talk pages on Wikipedia, see **Help:Talk pages**.

MediaWiki provides many features beyond [hyperlinks](#) for structuring content. One of the earliest such features is [namespaces](#). One of Wikipedia's earliest problems had been the separation of encyclopedic content from pages pertaining to maintenance and communal discussion, as well as personal pages about encyclopedia editors. Namespaces are prefixes before a page title (such as "User:" or "Talk:") that serve as descriptors for the page's purpose and allow multiple pages with different functions to exist under the same title. For instance, a page titled "[[The Terminator]]", in the default namespace, could describe [the 1984 movie](#) starring [Arnold Schwarzenegger](#), while a page titled "[[User:The Terminator]]" could be a profile describing a user who chooses this name as a pseudonym. More commonly, each namespace has an associated "Talk:" namespace, which can be used to discuss its contents, such as "User talk:" or "Template talk:". The purpose of having discussion pages is to allow content to be separated from discussion surrounding the content.^{[43][44]}

Namespaces can be viewed as [folders](#) that separate different basic types of information or functionality. Custom namespaces can be added by the site administrators. There are 16 namespaces by default for content, with 2 "pseudo-namespaces" used for dynamically generated "Special:" pages and links to media files. Each namespace on MediaWiki is numbered: content page namespaces have even numbers and their associated talk page namespaces have odd numbers.^[45]

Category tags

[\[edit\]](#)

Users can create new categories and add pages and files to those categories by appending one or more category tags to the content text. Adding these tags creates links at the bottom of the page that take the reader to the list of all pages in that category, making it easy to browse related articles.^[46] The use of categorization to organize content has been described as a combination of:

- [Collaborative tagging systems](#) like [del.icio.us](#) and
- [Hierarchical classifications](#) like the [Dewey Decimal Classification](#).^[47]

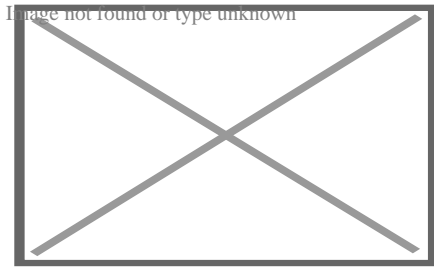
Subpages

[\[edit\]](#)

In addition to namespaces, content can be ordered using *subpages*. This simple feature provides automatic [breadcrumbs](#) of the pattern [[Page title/Subpage title]] from the page after the slash (in this case, "Subpage title") to the page before the slash (in this case, "Page title").

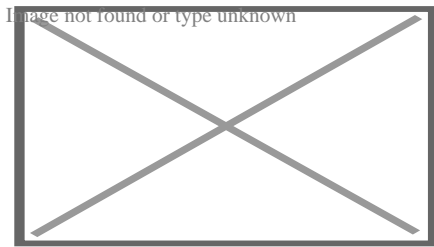
Customization

[\[edit\]](#)



Users can configure custom **JavaScript** that is executed on every pageview. This has led to JavaScript tools that users can "install", the "navigation popups" tool shown here displays a small preview of an article when hovering over a link title.

If the feature is enabled, users can customize their stylesheets and configure **client-side JavaScript** to be executed with every pageview. On Wikipedia, this has led to a large number of additional tools and helpers developed through the wiki and shared among users. For instance, *navigation popups* is a custom JavaScript tool that shows previews of articles when the user hovers over links and also provides shortcuts for common maintenance tasks.^[48]



A **screenshot** of a wiki using MediaWiki with a customized skin

The entire MediaWiki user interface can be edited through the wiki itself by users with the necessary permissions (typically called "administrators"). This is done through a special namespace with the prefix "MediaWiki:", where each page title identifies a particular user interface message. Using an extension,^[49] it is also possible for a user to create personal scripts, and to choose whether certain sitewide scripts should apply to them by toggling the appropriate options in the user preferences page.

Templates

[\[edit\]](#)

The "MediaWiki:" namespace was originally also used for creating custom text blocks that could then be dynamically loaded into other pages using a special syntax. This content was later moved into its own namespace, "Template:".

Templates are text blocks that can be dynamically loaded inside another page whenever that page is requested. The template is a special link in double **curly brackets** (for example "Disputed"), which calls the template (in this case located at **Template:Disputed**) to load in place of the template call.

Templates are **structured documents** containing **attribute–value pairs**. They are defined with **parameters**, to which are assigned **values** when **transcluded** on an article page. The name of the parameter is **delimited** from the value by an **equals sign**. A class of templates known as **infoboxes** is used on Wikipedia to collect and present a subset of information about its subject, usually on the top (mobile view) or top right-hand corner (desktop view) of the document.

Pages in other namespaces can also be transcluded as templates. In particular, a page in the main namespace can be transcluded by prefixing its title with a colon; for example, `:MediaWiki` transcludes the article "MediaWiki" from the main namespace. Also, it is possible to mark the portions of a page that should be transcluded in several ways, the most basic of which are:[50]

- `<noinclude>...</noinclude>`, which marks content that is not to be transcluded;
- `<includeonly>...</includeonly>`, which marks content that is not rendered unless it is transcluded;
- `<onlyinclude>...</onlyinclude>`, which marks content that is to be the *only* content transcluded.

A related method, called template *substitution* (called by adding `subst:` at the beginning of a template link) inserts the contents of the template into the target page (like a **copy and paste** operation), instead of loading the template contents dynamically whenever the page is loaded. This can lead to inconsistency when using templates, but may be useful in certain cases, and in most cases requires fewer **server** resources (the actual amount of savings can vary depending on wiki configuration and the complexity of the template).

Templates have found many different uses. Templates enable users to create complex table layouts that are used consistently across multiple pages, and where only the content of the tables gets inserted using template parameters. Templates are frequently used to identify problems with a Wikipedia article by putting a template in the article. This template then outputs a graphical box stating that the article content is disputed or in need of some other attention, and also categorize it so that articles of this nature can be located. Templates are also used on user pages to send users standard messages welcoming them to the site,[51] giving them awards for outstanding contributions,[52][53] warning them when their behavior is considered inappropriate,[54] notifying them when they are blocked from editing,[55] and so on.

Groups and restriction of access

[**edit**]

MediaWiki offers flexibility in creating and defining user groups. For instance, it would be possible to create an arbitrary "ninja" group that can block users and delete pages, and whose edits are hidden by default in the recent changes log. It is also possible to set up a group of "autoconfirmed" users that one becomes a member of after making a certain number of edits and waiting a certain number of days.[56] Some groups that are enabled by default are bureaucrats and sysops. Bureaucrats have the power to change other users' rights. Sysops have power over page protection and **deletion** and the blocking of users from editing. MediaWiki's available

controls on editing rights have been deemed sufficient for publishing and maintaining important documents such as a manual of [standard operating procedures](#) in a hospital.[57]

MediaWiki comes with a basic set of features related to restricting access, but its original and ongoing design is driven by functions that largely relate to content, not content segregation. As a result, with minimal exceptions (related to specific tools and their related "Special" pages), page access control has never been a high priority in core development and developers have stated that users requiring secure user access and authorization controls should not rely on MediaWiki, since it was never designed for these kinds of situations. For instance, it is extremely difficult to create a wiki where only certain users can read and access some pages.[58] Here, wiki engines like [Foswiki](#), [MoinMoin](#) and [Confluence](#) provide more flexibility by supporting advanced security mechanisms like [access control lists](#).

Extensibility

[[edit](#)]

The MediaWiki codebase contains various [hooks](#) using [callback functions](#) to add additional PHP code in an [extensible](#) way. This allows developers to write extensions without necessarily needing to modify the core or having to submit their code for review. Installing an extension typically consists of adding a line to the configuration file, though in some cases additional changes such as database updates or core patches are required.

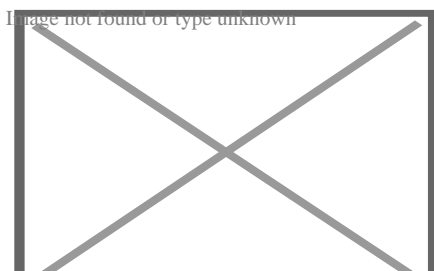
Five main extension points were created to allow developers to add features and functionalities to MediaWiki. Hooks are run every time a certain event happens; for instance, the ArticleSaveComplete hook occurs after a save article request has been processed.[59] This can be used, for example, by an extension that notifies selected users whenever a page edit occurs on the wiki from new or anonymous users.[60] New tags can be created to process data with opening and closing tags (<newtag>...</newtag>).[61] Parser functions can be used to create a new command (#if:...).[62] New special pages can be created to perform a specific function. These pages are dynamically generated. For example, a special page might show all pages that have one or more links to an external site or it might create a form providing user submitted feedback.[63] [Skins](#) allow users to customize the look and feel of MediaWiki.[64] A minor extension point allows the use of [Amazon S3](#) to host image files.[65]

Extensions

[[edit](#)]

Text manipulation

[[edit](#)]



Tim Starling in 2008

Among the most popular extensions is a parser function extension, ParserFunctions, which allows different content to be rendered based on the result of **conditional statements**.^[66] These conditional statements can perform functions such as evaluating whether a parameter is empty, comparing strings, evaluating mathematical expressions, and returning one of two values depending on whether a page exists. It was designed as a replacement for a notoriously inefficient template called Qif.^[67] Schindler recounts the history of the ParserFunctions extension as follows:^[68]

In 2006 some Wikipedians discovered that through an intricate and complicated interplay of templating features and CSS they could create conditional wiki text, i.e. text that was displayed if a template parameter had a specific value. This included repeated calls of templates within templates, which bogged down the performance of the whole system. The developers faced the choice of either disallowing the spreading of an obviously desired feature by detecting such usage and explicitly disallowing it within the software or offering an efficient alternative. The latter was done by Tim Starling, who announced the introduction of parser functions, wiki text that calls functions implemented in the underlying software. At first, only conditional text and the computation of simple mathematical expressions were implemented, but this already increased the possibilities for wiki editors enormously. With time further parser functions were introduced, finally leading to a framework that allowed the simple writing of extension functions to add arbitrary functionalities, like e.g. geo-coding services or widgets. This time the developers were clearly reacting to the demand of the community, being forced either to fight the solution of the issue that the community had (i.e. conditional text), or offer an improved technical implementation to replace the previous practice and achieve an overall better performance.

Another parser functions extension, StringFunctions, was developed to allow evaluation of string length, string position, and so on. Wikimedia communities, having created awkward workarounds to accomplish the same functionality,^[69] clamored for it to be enabled on their projects.^[70] Much of its functionality was eventually integrated into the ParserFunctions extension,^[71] albeit disabled by default and accompanied by a warning from Tim Starling that enabling string functions would allow users "to implement their own parsers in the ugliest, most inefficient programming language known to man: MediaWiki wikitext with ParserFunctions."^[72]

Since 2012 an extension, Scribunto, has existed that allows for the creation of "modules"—wiki pages written in the scripting language **Lua**—which can then be run within templates and standard wiki pages. Scribunto has been installed on Wikipedia and other Wikimedia sites since 2013 and is used heavily on those sites. Scribunto code runs significantly faster than corresponding wikitext code using ParserFunctions.^[73]

For footnotes and academic-related display

[\[edit\]](#)

Another very popular extension is a citation extension that enables footnotes to be added to pages using inline references.^[74] This extension has, however, been criticized for being difficult to use and requiring the user to memorize complex syntax. A gadget called **RefToolbar** attempts to make it easier to create citations using common templates. MediaWiki has some extensions that are well-suited for academia, such as mathematics extensions^[75] and an extension that allows molecules to be rendered in **3D**.^[76]

Integration

[\[edit\]](#)

A generic Widgets extension exists that allows MediaWiki to integrate with virtually anything. Other examples of extensions that could improve a wiki are category suggestion extensions^[77] and extensions for inclusion of **Flash Videos**,^[78] YouTube videos,^[79] and **RSS feeds**.^[80] **Metavid**, a site that archives video footage of the **U.S. Senate** and **House** floor proceedings, was created using code extending MediaWiki into the domain of collaborative video authoring.^[81]

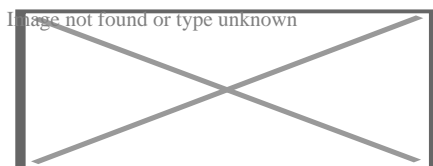
Combating linkspam

[\[edit\]](#)

There are many **spambots** that search the web for MediaWiki installations and add **linkspam** to them, despite the fact that MediaWiki uses the **nofollow** attribute to discourage such attempts at **search engine optimization**.^[82] Part of the problem is that third party republishers, such as **mirrors**, may not independently implement the nofollow tag on their websites, so marketers can still get **PageRank** benefit by inserting links into pages when those entries appear on third party websites.^[83] **Anti-spam** extensions have been developed to combat the problem by introducing **CAPTCHAs**,^[84] **blacklisting** certain URLs,^[85] and allowing bulk deletion of pages recently added by a particular user.^[86]

Searches and queries

[\[edit\]](#)



A search box showing a **drop-down list**

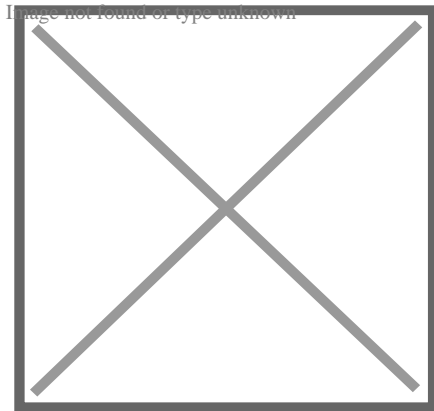
MediaWiki comes pre-installed with a standard text-based search. Extensions exist to let MediaWiki use more sophisticated third-party search engines, including **Elasticsearch** (which

since 2014 has been in use on Wikipedia), [Lucene](#)^[87] and [Sphinx](#).^[88]

Various MediaWiki extensions have also been created to allow for more complex, [faceted search](#), on both data entered within the wiki and on [metadata](#) such as pages' revision history.^[89]^[90] [Semantic MediaWiki](#) is one such extension.^[91]^[92]

Rich content

[\[edit\]](#)



[Images](#) can be arranged in galleries, a feature that is used extensively for Wikimedia's media archive, [Wikimedia Commons](#).

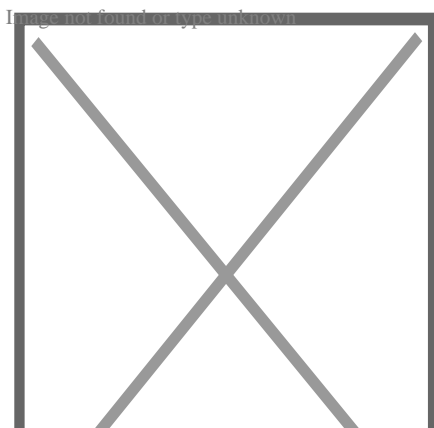
Various extensions to MediaWiki support [rich content](#) generated through specialized syntax. These include mathematical formulas using [LaTeX](#), graphical timelines over mathematical [plotting](#), [musical scores](#) and [Egyptian hieroglyphs](#).

The software supports a wide variety of uploaded media files, and allows image galleries and thumbnails to be generated with relative ease. There is also support for [Exif metadata](#). MediaWiki operates the [Wikimedia Commons](#), one of the largest [free content](#) media archives.

For WYSIWYG editing, [VisualEditor](#) is available to use in MediaWiki which simplifying editing process for editors and has been bundled since MediaWiki 1.35.^[93] Other extensions exist for handling WYSIWYG editing to different degrees.^[94]

Database

[\[edit\]](#)



A schematic of the MediaWiki database structure

MediaWiki can use either the [MySQL/MariaDB](#), [PostgreSQL](#) or [SQLite relational database management system](#). Support for [Oracle Database](#) and [Microsoft SQL Server](#) has been dropped since MediaWiki 1.34.^[95] A MediaWiki database contains several dozen [tables](#), including a page table that contains page titles, page ids, and other metadata;^[96] and a revision table to which is added a new row every time an edit is made, containing the page id, a brief textual summary of the change performed, the user name of the article editor (or its IP address the case of an unregistered user) and a timestamp.^{[97][98]}

In a 4½ year period prior to 2008, the MediaWiki database had 170 [schema](#) versions.^[99] Possibly the largest schema change was done in 2005 with MediaWiki 1.5, when the storage of metadata was separated from that of content, to improve performance flexibility. When this upgrade was applied to Wikipedia, the site was locked for editing, and the schema was converted to the new version in about 22 hours. Some software enhancement proposals, such as a proposal to allow sections of articles to be watched via watchlist, have been rejected because the necessary schema changes would have required excessive Wikipedia downtime.^[100]

Performance and storage

[\[edit\]](#)

Because it is used to run one of the highest-traffic sites on the Web, Wikipedia, MediaWiki's performance and [scalability](#) have been highly optimized.^[101] MediaWiki supports [Squid](#), [load-balanced](#) database replication, client-side caching, [memcached](#) or table-based caching for frequently accessed processing of query results, a simple static file cache, feature-reduced operation, revision compression, and a job queue for database operations. MediaWiki developers have attempted to optimize the software by avoiding expensive algorithms, database queries, etc., caching every result that is expensive and has temporal locality of reference, and focusing on the hot spots in the code through [profiling](#).^[102]

MediaWiki code is designed to allow for data to be written to a read-write database and read from read-only databases, although the read-write database can be used for some read operations if the read-only databases are not yet up to date. [Metadata](#), such as article revision history, article relations (links, categories etc.), user accounts and settings can be stored in core databases and cached; the actual revision text, being more rarely used, can be stored as append-only [blobs](#) in external storage. The software is suitable for the operation of large-scale [wiki farms](#) such as [Wikimedia](#), which had about 800 wikis as of August 2011. However, MediaWiki comes with no built-in GUI to manage such installations.

Empirical evidence shows most revisions in MediaWiki databases tend to differ only slightly from previous revisions. Therefore, subsequent revisions of an article can be concatenated and then compressed, achieving very high [data compression ratios](#) of up to 100×.^[102]

For more information on the architecture, such as how it stores wikitext and assembles a page, see [External links](#).

Limitations

[\[edit\]](#)

The parser serves as the *de facto* standard for the MediaWiki syntax, as no formal syntax has been defined. Due to this lack of a formal definition, it has been difficult to create **WYSIWYG** editors for MediaWiki, although several WYSIWYG extensions do exist, including the popular **VisualEditor**.

MediaWiki is not designed to be a suitable replacement for dedicated **online forum** or blogging software,[\[103\]](#) although extensions do exist to allow for both of these.[\[104\]](#)[\[105\]](#)

It is common for new MediaWiki users to make certain mistakes, such as forgetting to sign posts with four tildes (~~~~),[\[106\]](#) or manually entering a plaintext signature,[\[107\]](#) due to unfamiliarity with the idiosyncratic particulars involved in communication on MediaWiki discussion pages. On the other hand, the format of these discussion pages has been cited as a strength by one educator, who stated that it provides more fine-grain capabilities for discussion than traditional threaded discussion forums. For example, instead of 'replying' to an entire message, the participant in a discussion can create a hyperlink to a new wiki page on any word from the original page. Discussions are easier to follow since the content is available via hyperlinked wiki page, rather than a series of reply messages on a traditional threaded discussion forum. However, except in few cases, students were not using this capability, possibly because of their familiarity with the traditional linear discussion style and a lack of guidance on how to make the content more 'link-rich'.[\[108\]](#)

MediaWiki by default has little support for the creation of dynamically assembled documents, or pages that aggregate data from other pages. Some research has been done on enabling such features directly within MediaWiki.[\[109\]](#) The **Semantic MediaWiki** extension provides these features. It is not in use on Wikipedia, but in more than 1,600 other MediaWiki installations.[\[110\]](#) The Wikibase Repository and Wikibase Repository client are however implemented in **Wikidata** and **Wikipedia** respectively, and to some extent provides **semantic web** features, and linking of centrally stored data to infoboxes in various Wikipedia articles.

Upgrading MediaWiki is usually fully automated, requiring no changes to the site content or template programming. Historically troubles have been encountered when upgrading from significantly older versions.[\[111\]](#)

Security

[\[edit\]](#)

MediaWiki developers have enacted security standards, both for core code and extensions.[112] **SQL queries** and HTML output are usually done through wrapper functions that handle validation, escaping, filtering for prevention of **cross-site scripting** and **SQL injection**. [113] Many security issues have had to be patched after a MediaWiki version release,[114] and accordingly MediaWiki.org states, "The most important security step you can take is to keep your software up to date" by subscribing to the announcement **mailing list** and installing security updates that are announced.[115]

Support

[**edit**]

Support for MediaWiki users consists of:

- MediaWiki.org, including the Support Desk.
- An official mailing list, Mediawiki-l.
- Several books have been written about MediaWiki administration,[116] including some free online books.[117][118]

License

[**edit**]

MediaWiki is free and open-source and is distributed under the terms of the **GNU General Public License** version 2 or any later version. Its documentation, located at its official website at www.mediawiki.org, is released under the **Creative Commons BY-SA 4.0** license, with a set of help pages intended to be freely copied into fresh wiki installations and/or distributed with MediaWiki software in the **public domain** instead to eliminate legal issues for wikis with other licenses.[119][120] MediaWiki's development has generally favored the use of **open-source media formats**. [121]

Development

[**edit**]

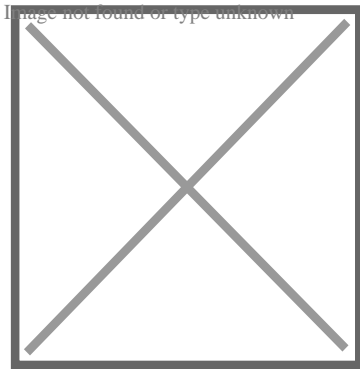
MediaWiki has an active volunteer community for development and maintenance. MediaWiki developers are spread around the world, though with a majority in the United States and Europe. Face-to-face meetings and programming sessions for MediaWiki developers have been held once or several times a year since 2004.[122]

Anyone can submit **patches** to the project's **Git/Gerrit repository**. [123] There are also paid programmers who primarily develop projects for the **Wikimedia Foundation**. MediaWiki developers participate in the **Google Summer of Code** by facilitating the assignment of mentors to students wishing to work on MediaWiki core and extension projects.[124] During the year prior to November 2012, there were about two hundred developers who had committed changes to

the MediaWiki core or extensions.[125] Major MediaWiki releases are generated approximately every six months by taking snapshots of the development branch, which is kept continuously in a runnable state;[126] **minor releases**, or **point releases**, are issued as needed to correct **bugs** (especially security problems). MediaWiki is developed on a **continuous integration** development model, in which software changes are pushed live to Wikimedia sites on regular basis.[126] MediaWiki also has a public **bug** tracker, *phabricator.wikimedia.org*, which runs **Phabricator**. The site is also used for **feature** and **enhancement** requests.

History

[**edit**]



Magnus Manske in 2012

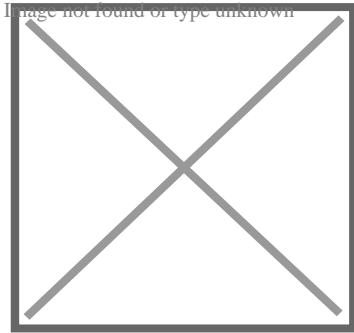
When Wikipedia was launched in January 2001, it ran on an existing **wiki software** system, **UseModWiki**. UseModWiki is written in the **Perl** programming language, and stores all wiki pages in text (**.txt**) files. This software soon proved to be limiting, in both functionality and performance. In mid-2001, **Magnus Manske**—a developer and student at the **University of Cologne**, as well as a **Wikipedia editor**—began working on new software that would replace UseModWiki, specifically designed for use by Wikipedia. This software was written in the **PHP** scripting language, and stored all of its information in a **MySQL** database. The new software was largely developed by August 24, 2001, and a test wiki for it was established shortly thereafter.

The first full implementation of this software was the new **Meta Wikipedia** on November 9, 2001. There was a desire to have it implemented immediately on the English-language Wikipedia.[127] However, Manske was apprehensive about any potential **bugs** harming the nascent website during the period of the final exams he had to complete immediately prior to Christmas;[128] this led to the launch on the English-language Wikipedia being delayed until January 25, 2002. The software was then, gradually, deployed on all the Wikipedia language sites of that time. This software was referred to as "the PHP script" and as "phase II", with the name "phase I", retroactively given to the use of UseModWiki.

Increasing usage soon caused load problems to arise again, and soon after, another rewrite of the software began; this time being done by **Lee Daniel Crocker**, which became known as "phase III". This new software was also written in PHP, with a MySQL backend, and kept the basic interface of the phase II software, but with the added functionality of a wider **scalability**. The

"phase III" software went live on Wikipedia in July 2002.

The **Wikimedia Foundation** was announced on June 20, 2003. In July, Wikipedia contributor Daniel Mayer suggested the name "MediaWiki" for the software, as a play on "Wikimedia".^[129] The MediaWiki name was gradually phased in, beginning in August 2003. The name has frequently caused confusion due to its (intentional) similarity to the "Wikimedia" name (which itself is similar to "Wikipedia").^[130] The first version of MediaWiki, 1.1, was released in December 2003.



MediaWiki logo until April 1, 2021

The old **product logo** was created by **Erik Möller**, using a flower photograph taken by **Florence Nibart-Devouard**, and was originally submitted to the logo contest for a new **Wikipedia logo**, held from July 20 to August 27, 2003.^{[131][132]} The logo came in third place, and was chosen to represent MediaWiki rather than Wikipedia, with the second place logo being used for the Wikimedia Foundation.^[133] The double square brackets (**[[**) symbolize the **syntax** MediaWiki uses for creating **hyperlinks** to other wiki pages; while the **sunflower** represents the diversity of content on Wikipedia, its constant growth, and the wilderness.^[134]

Later, Brooke Vibber, the **chief technical officer** of the **Wikimedia Foundation**,^[135] took up the role of **release manager**.^{[136][101]}

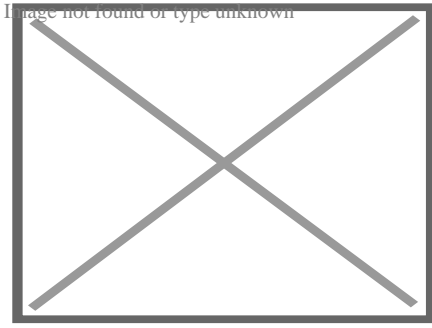
Major milestones in MediaWiki's development have included: the **categorization system** (2004); **parser** functions, (2006); **Flagged Revisions**, (2008);^[68] the "**ResourceLoader**", a delivery system for **CSS** and JavaScript (2011);^[137] and the **VisualEditor**, a "what you see is what you get" (**WYSIWYG**) editing platform (2013).^[138]

The contest of designing a new logo was initiated on June 22, 2020, as the old logo was a bitmap image and had "high details", leading to problems when rendering at high and low resolutions, respectively. After two rounds of voting, the new and current MediaWiki logo designed by **Serhio Magpie** was selected on October 24, 2020, and officially adopted on April 1, 2021.^[139]

Sites using MediaWiki

^[edit]

See also: **Category:MediaWiki websites**



Fandom also makes use of MediaWiki.

MediaWiki's most famous use has been in **Wikipedia** and, to a lesser degree, the Wikimedia Foundation's other projects. **Fandom**, a **wiki hosting service** formerly known as Wikia, runs on MediaWiki. Other public wikis that run on MediaWiki include **wikiHow** and **SNPedia**. **WikiLeaks** began as a MediaWiki-based site, but is no longer a wiki.

A number of alternative wiki encyclopedias to Wikipedia run on MediaWiki, including **Citizendium**, **Metapedia**, **Scholarpedia** and **Conservapedia**. MediaWiki is also used internally by a large number of companies, including **Novell** and **Intel**.^{[140][141]}

Notable usages of MediaWiki within governments include **Intellipedia**, used by the **United States Intelligence Community**, **Diplopedia**, used by the **United States Department of State**, and milWiki, a part of **milSuite** used by the **United States Department of Defense**. **United Nations agencies** such as the **United Nations Development Programme** and **INSTRAW** chose to implement their wikis using MediaWiki, because "this software runs Wikipedia and is therefore guaranteed to be thoroughly tested, will continue to be developed well into the future, and future technicians on these wikis will be more likely to have exposure to MediaWiki than any other wiki software."^[142]

The **Free Software Foundation** uses MediaWiki to implement the **LibrePlanet** site.^[143]

Comparison to other online collaboration software

^[edit]

Main article: **Comparison of wiki software**

Users of online **collaboration software** are familiar with MediaWiki's functions and layout due to its noted use on Wikipedia. A 2006 overview of social software in academia observed that "Compared to other wikis, MediaWiki is also fairly aesthetically pleasing, though simple, and has an easily customized side menu and **stylesheet**."^[144] However, in one assessment in 2006, **Confluence** was deemed to be a superior product due to its very usable API and ability to better support multiple wikis.^[76]

A 2009 study at the **University of Hong Kong** compared **TWiki** to MediaWiki. The authors noted that TWiki has been considered as a collaborative tool for the development of educational papers and technical projects, whereas MediaWiki's most noted use is on Wikipedia. Although both platforms allow discussion and tracking of progress, TWiki has a "Report" part that MediaWiki lacks. Students perceived MediaWiki as being easier to use and more enjoyable than TWiki.


When asked whether they recommended using MediaWiki for **knowledge management** course group project, 15 out of 16 respondents expressed their preference for MediaWiki giving answers of great certainty, such as "of course", "for sure".^[145] TWiki and MediaWiki both have flexible plug-in architecture.^[146]

A 2009 study that compared students' experience with MediaWiki to that with **Google Docs** found that students gave the latter a much higher rating on user-friendly layout.^[147]

A 2021 study conducted by the **Brazilian Nuclear Engineering Institute** compared a MediaWiki-based **knowledge management system** against two others that were based on **DSpace** and **Open Journal Systems**, respectively.^[148] It highlighted ease of use as an advantage of the MediaWiki-based system, noting that because the Wikimedia Foundation had been developing MediaWiki for a site aimed at the general public (Wikipedia), "its user interface was designed to be more user-friendly from start, and has received large user feedback over a long time", in contrast to DSpace's and OJS's focus on niche audiences.^[148]

See also

^[edit]

-  **Free and open-source software portal**
- List of content management systems**
- List of wiki software**
- BlueSpice**
- Semantic MediaWiki**
- XOWA** – for viewing Wikipedia and other wikis offline
- PHP** – a programming language that powers MediaWiki

References

^[edit]

- [^] **"Announcing MediaWiki 1.43.0"**. December 21, 2024.
- [^] Reed, Sam (December 19, 2019). **"Announcing MediaWiki 1.34.0"**. mediawiki-announce (Mailing list). *Archived* from the original on December 19, 2019. Retrieved December 19, 2019.
- [^] **"Names.php • mediawiki"**. github.com. April 8, 2021. *Archived* from the original on July 15, 2021. Retrieved May 19, 2021.
- [^] **"Copyright"**. mediawiki.org. *Archived* from the original on September 19, 2015. Retrieved September 7, 2015.
- [^] Magnus Manske's announcement of "PHP Wikipedia", wikipedia-l, August 24, 2001
- [^] Barrett, Daniel J. (October 2008). *MediaWiki*. O'Reilly Media. ISBN 978-0-596-51979-7. Retrieved April 23, 2010.

7. ^ **a b** "What is MediaWiki?". MediaWiki. January 9, 2021. *Archived* from the original on July 22, 2018. Retrieved March 27, 2021.
8. ^ "Wikipedia:Statistics – Wikipedia, the free encyclopedia". Wikipedia. *Archived* from the original on August 28, 2021. Retrieved May 30, 2010.
9. ^ **a b** "Message group statistics: MediaWiki core". translatewiki.net. August 20, 2023. *Archived* from the original on August 20, 2023. Retrieved August 20, 2023. "488 languages (not including languages that are supported but have no translations)"
10. ^ "Category:MediaWiki configuration settings". MediaWiki. September 11, 2016. *Archived* from the original on November 10, 2014. Retrieved September 11, 2016.
11. ^ "Extension Matrix". MediaWiki. *Archived* from the original on September 11, 2016. Retrieved September 6, 2017.
12. ^ Lerner, Reuven M. (February 23, 2006), *Installing and Customizing MediaWiki*, Linux Journal, archived from *the original* on April 6, 2010, retrieved April 23, 2010
13. ^ Petrazickis, Leons (2009), *Deploying PHP applications on IBM DB2 in the cloud: MediaWiki as a case study*, Proceedings of the 2009 Conference of the Center for Advanced Studies on Collaborative Research, pp. 304–305, doi:10.1145/1723028.1723069, S2CID 27463043
14. ^ "Manual:\$wgEnableUploads". MediaWiki. *Archived* from the original on June 25, 2010. Retrieved May 30, 2010.
15. ^ "Manual:\$wgLogo". MediaWiki. December 12, 2009. *Archived* from the original on June 25, 2010. Retrieved May 30, 2010.
16. ^ "Manual:LocalSettings.php". MediaWiki. March 29, 2007. *Archived* from the original on June 25, 2010. Retrieved May 30, 2010.
17. ^ "Extension:AbuseFilter". MediaWiki. *Archived* from the original on June 25, 2010. Retrieved May 30, 2010.
18. ^ Cacycle. "wikEd". *Archived* from the original on November 23, 2007.
19. ^ "Manual:Installation guide". MediaWiki. *Archived* from the original on June 25, 2010. Retrieved May 30, 2010.
20. ^ "Manual:Extending wiki markup". MediaWiki. *Archived* from the original on May 1, 2011. Retrieved May 30, 2010.
21. ^ "HTML to Wiki Converter – tables". WMF Labs. March 29, 2008. *Archived* from the original on July 13, 2014. Retrieved June 12, 2014.
22. ^ "Markup spec". MediaWiki. *Archived* from the original on December 19, 2007. Retrieved May 30, 2010.
23. ^ "Extricating Meaning from Wikimedia Article Archives" (PDF). *Archived* (PDF) from the original on March 10, 2011. Retrieved January 2, 2011.
24. ^ Jakes, David (August 15, 2006), *Wild about Wikis*, Tech & Learning, archived from *the original* on May 2, 2010, retrieved April 23, 2010
25. ^ Foley, Brian & Chang, Tae (2008), *Wiki as a professional development tool* (PDF), Technology and Teacher Education, *archived* (PDF) from the original on April 30, 2011, retrieved April 23, 2010
26. ^ "API". MediaWiki. May 17, 2010. *Archived* from the original on May 27, 2010. Retrieved May 30, 2010.
27. ^ "Pywikibot – MediaWiki". mediawiki.org. *Archived* from the original on March 9, 2018. Retrieved March 16, 2018.

28. ^ *Wikipedia:AutoWikiBrowser – Wikipedia, the free encyclopedia*. En.wikipedia.org. Archived from the original on April 20, 2010. Retrieved May 30, 2010.
29. ^ Bartolo, Laura M.; Lowe, Cathy S.; Songar, Poonam; Tandy, Robert J. (May 20, 2009), *Facilitating Wiki/Repository Communication with Metadata*, Georgia Institute of Technology, archived from the original on January 9, 2011, retrieved April 23, 2010
30. ^ *"API:Client code"*. MediaWiki. May 24, 2010. Archived from the original on June 26, 2010. Retrieved May 30, 2010.
31. ^ *"Tags – Wikipedia, the free encyclopedia"*. En.wikipedia.org. Archived from the original on March 4, 2010. Retrieved May 30, 2010.
32. ^ *"Manual:Tags"*. MediaWiki. August 31, 2009. Archived from the original on June 25, 2010. Retrieved May 30, 2010.
33. ^ *"Wikipedia:Huggle – Wikipedia, the free encyclopedia"*. En.wikipedia.org. Archived from the original on March 31, 2011. Retrieved May 30, 2010.
34. ^ *"IRC/Channels"*. Meta-Wiki. Archived from the original on March 23, 2010. Retrieved May 30, 2010.
35. ^ Daniel Nasaw (July 25, 2012). *"Meet the 'bots' that edit Wikipedia"*. BBC News. Archived from the original on July 28, 2012. Retrieved July 30, 2012.
36. ^ *"Manual:Watchlist"*. MediaWiki. November 24, 2009. Archived from the original on May 1, 2011. Retrieved May 30, 2010.
37. ^ Kevin Yager (March 16, 2006), "Wiki ware could harness the Internet for science", *Nature* , **440** (7082): 278, Bibcode:2006Natur.440..278Y, doi:10.1038/440278a, PMID 16541049
38. ^ *"Manual:Interwiki"*. MediaWiki. Archived from the original on December 3, 2010. Retrieved May 30, 2010.
39. ^ *"Interlanguage links"*. MediaWiki. Archived from the original on March 12, 2021. Retrieved March 17, 2021.
40. ^ Pintscher, Lydia (September 23, 2013). *"Wikidata is Here!"*. Commons:Village pump. Archived from the original on December 6, 2021. Retrieved March 17, 2021.
41. ^ *"Help:Navigation"*. MediaWiki. May 21, 2010. Archived from the original on May 27, 2010. Retrieved May 30, 2010.
42. ^ Carl Challborn & Teresa Reimann (December 2004), *Wiki products: a comparison* (PDF), Athabasca University, archived (PDF) from the original on December 23, 2010, retrieved April 23, 2010
43. ^ Newman, Aaron; Steinberg, Adam; Thomas, Jeremy (2008). *Enterprise 2.0 Implementation*. McGraw-Hill Professional. p. 185. ISBN 978-0-07-159160-7.
44. ^ Malcolm, Jeremy (2008). *Multi-Stakeholder Governance and the Internet Governance Forum*. Terminus Press. pp. 188, 280. ISBN 978-0-9805084-0-6.
45. ^ Ebersbach, Anja; Glaser, Markus; Heigl, Richard; Dueck, Gunter (2006). *Wiki*. Springer. pp. 55, 80–82, 109, 120–121, 156. ISBN 978-3-540-25995-4.
46. ^ *"Help:Categories"*. MediaWiki. Archived from the original on June 25, 2010. Retrieved May 30, 2010.
47. ^ Jakob Voss (April 27, 2006). "Collaborative thesaurus tagging the Wikipedia way". *arXiv:cs.IR/0604036*.
48. ^ Lupin. *"Wikipedia:Tools/Navigation popups"*. Archived from the original on July 18, 2006.
49. ^ *"Extension:Gadgets"*. MediaWiki. March 30, 2010. Archived from the original on June 25, 2010. Retrieved May 30, 2010.

50. ^ Anderson, Mark; Carr, Leslie; Millard, David E. (July 4, 2017). *There and Here: Patterns of Content Transclusion in Wikipedia*. 28th ACM Conference on Hypertext and Social Media. Prague, Czech Republic: ACM. pp. 115–124. doi:10.1145/3078714.3078726. ISBN 978-1-4503-4708-2.
51. ^ ĀfĀžĀ...ĀTMesky (May 16, 2010). "*Template:Welcome – Wikipedia, the free encyclopedia*". En.wikipedia.org. Archived from the original on May 6, 2011. Retrieved May 30, 2010.
52. ^ T Kriplean; I Beschastnikh; et al. (2008), "Articulations of wikiwork: Uncovering valued work in wikipedia through barnstars", *Proceedings of the 2008 ACM conference on Computer supported cooperative work*, Proceedings of the ACM, pp. 47–56, doi: 10.1145/1460563.1460573, ISBN 9781605580074, S2CID 7164949
53. ^ ĀfĀžĀ...ĀTMesky. "*Wikipedia:Barnstars – Wikipedia, the free encyclopedia*". En.wikipedia.org. Archived from the original on June 24, 2009. Retrieved May 30, 2010.
54. ^ ĀfĀžĀ...ĀTMesky. "*Template:Test – Wikipedia, the free encyclopedia*". En.wikipedia.org. Archived from the original on November 11, 2009. Retrieved May 30, 2010.
55. ^ "*Template:Test5 – Wikipedia, the free encyclopedia*". En.wikipedia.org. June 19, 2008. Archived from the original on April 24, 2009. Retrieved May 30, 2010.
56. ^ "*Manual:User rights management*". MediaWiki. Archived from the original on June 25, 2010. Retrieved May 30, 2010.
57. ^ H Zielke; W Boemke; M Kastrup; C Melzer (November 21, 2007), *Operating Procedures in Clinical Practice* (PDF), Royal College of Anaesthetists, archived (PDF) from the original on May 15, 2011, retrieved April 25, 2010
58. ^ "*Security issues with authorization extensions*". MediaWiki. Archived from the original on June 26, 2010. Retrieved May 30, 2010.
59. ^ "*Manual:Hooks/ArticleSaveComplete*". MediaWiki. May 26, 2010. Archived from the original on November 10, 2014. Retrieved May 30, 2010.
60. ^ "*Extension:Recent Activity Notify*". MediaWiki. Archived from the original on September 27, 2014. Retrieved May 30, 2010.
61. ^ "*Manual:Tag extensions*". MediaWiki. May 21, 2010. Archived from the original on October 12, 2014. Retrieved May 30, 2010.
62. ^ "*Manual:Parser functions*". MediaWiki. March 22, 2010. Archived from the original on October 18, 2014. Retrieved May 30, 2010.
63. ^ "*Manual:Special pages*". MediaWiki. Archived from the original on November 10, 2014. Retrieved May 30, 2010.
64. ^ "*Manual:Skins*". MediaWiki. May 14, 2010. Archived from the original on November 25, 2014. Retrieved May 30, 2010.
65. ^ "*Manual:Integration with S3*". MediaWiki. March 22, 2010. Archived from the original on November 27, 2014. Retrieved May 30, 2010.
66. ^ "*Extension:ParserFunctions*". MediaWiki. December 25, 2009. Archived from the original on June 25, 2010. Retrieved May 30, 2010.
67. ^ "*Wikipedia:Miscellany for deletion/Template:Qif – Wikipedia, the free encyclopedia*". En.wikipedia.org. Archived from the original on February 25, 2015. Retrieved May 30, 2010.
68. ^ **a b** M Schindler; D Vrandecic (2009), *Introducing new features to Wikipedia*, Proceedings of WebSci, archived from the original on June 24, 2018, retrieved June 24, 2018

69. ^ ["Category:String manipulation templates – Wikipedia, the free encyclopedia"](#). En.wikipedia.org. May 15, 2010. [Archived](#) from the original on May 6, 2011. Retrieved May 30, 2010.
70. ^ ["Bug 6455 – Enable StringFunctions on WMF wikis"](#). bugzilla.wikimedia.org. [Archived](#) from the original on January 22, 2012. Retrieved October 9, 2010.
71. ^ ["Extension:StringFunctions"](#). MediaWiki. [Archived](#) from the original on June 25, 2010. Retrieved May 30, 2010.
72. ^ ["r51497 – Code Review"](#). MediaWiki. [Archived](#) from the original on November 27, 2014. Retrieved May 30, 2010.
73. ^ ["Lua performance"](#). [Archived](#) from the original on August 24, 2018. Retrieved December 27, 2018.
74. ^ ["Extension:Cite"](#). MediaWiki. May 3, 2010. [Archived](#) from the original on October 20, 2014. Retrieved May 30, 2010.
75. ^ ["Category:Math extensions"](#). MediaWiki. December 26, 2009. [Archived](#) from the original on May 1, 2011. Retrieved May 30, 2010.
76. ^ **a b** Marieke Guy (January 2007), [Wikido: Exploiting the Potential of Wikis](#), Ariadne, [archived](#) from the original on April 7, 2010, retrieved April 23, 2010
77. ^ ["Extension:CategorySuggest"](#). MediaWiki. [Archived](#) from the original on September 26, 2014. Retrieved May 30, 2010.
78. ^ ["Category:Flash Video extensions"](#). MediaWiki. [Archived](#) from the original on September 15, 2014. Retrieved May 30, 2010.
79. ^ ["Category:YouTube extensions"](#). MediaWiki. September 16, 2008. [Archived](#) from the original on May 1, 2011. Retrieved May 30, 2010.
80. ^ ["Category:RSS extensions"](#). MediaWiki. [Archived](#) from the original on December 3, 2010. Retrieved May 30, 2010.
81. ^ M Dale; A Stern; M Deckert; W Sack (2009), [System demonstration: Metavid.org: a social website and open archive of congressional video](#), Proceedings of the 10th Annual International Conference on Digital Government Research: Social Networks: Making Connections between Citizens, Data and Government, pp. 309–310, [ISBN 978-1-60558-535-2](#)
82. ^ ["Wiki spam"](#). Meta-Wiki. [Archived](#) from the original on November 7, 2014. Retrieved May 30, 2010.
83. ^ Goldman, Eric, Wikipedia's Labor Squeeze and its Consequences, vol. 8, Journal on Telecommunications and High Technology Law
84. ^ ["Extension:ConfirmEdit"](#). MediaWiki. May 5, 2010. [Archived](#) from the original on October 20, 2014. Retrieved May 30, 2010.
85. ^ ["Extension:SpamBlacklist"](#). MediaWiki. March 24, 2010. [Archived](#) from the original on October 20, 2014. Retrieved May 30, 2010.
86. ^ ["Extension:Nuke"](#). MediaWiki. May 19, 2010. [Archived](#) from the original on October 20, 2014. Retrieved May 30, 2010.
87. ^ [Lucene-search MediaWiki extension Archived](#) June 2, 2012, at the [Wayback Machine](#), mediawiki.org
88. ^ [SphinxSearch MediaWiki extension Archived](#) October 22, 2014, at the [Wayback Machine](#), mediawiki.org

89. ^ Masanori Arita & Kazuhiro Suwa (September 17, 2008), "Search extension transforms Wiki into a relational system: A case for flavonoid metabolite database", *BioData Min*, **1** (1), *BioData Mining*: 7, doi:10.1186/1756-0381-1-7, PMC 2556319, PMID 18822113
90. ^ Finn Arup Nielsen (October 15, 2009). "Lost in localization: a solution with neuroinformatics 2.0?". *NeuroImage*. **48** (1): 11–3. doi:10.1016/J.NEUROIMAGE.2009.05.073. ISSN 1053-8119. PMID 19497377. Wikidata Q21011200.
91. ^ Eric Ras; Jörg Rech; Sebastian Weber (August 1, 2008), *Collaborative Authoring of Learning Elements for Adaptive Learning Spaces* (PDF), Fifth International Conference on Adaptive Hypermedia and Adaptive Web-Based Systems, archived (PDF) from the original on May 3, 2011, retrieved April 23, 2010
92. ^ Hartung, Michael; et al. "A Platform for Collaborative Management of Semantic Grid Metadata". *Intelligent distributed computing, systems and applications*. p. 123.
93. ^ "Extension:VisualEditor". MediaWiki. Archived from the original on February 21, 2021. Retrieved March 15, 2021.
94. ^ "Category:WYSIWYG extensions". MediaWiki. April 10, 2008. Archived from the original on May 1, 2011. Retrieved May 30, 2010.
95. ^ "Manual:Installation requirements". MediaWiki. Archived from the original on March 8, 2021. Retrieved March 14, 2021.
96. ^ "Manual:Page table". MediaWiki. May 15, 2010. Archived from the original on November 25, 2014. Retrieved May 30, 2010.
97. ^ "Manual:Revision table". MediaWiki. Archived from the original on November 24, 2014. Retrieved May 30, 2010.
98. ^ Ortega, Felipe; González-Barahona, Jesus M.; Robles, Gregorio (2007), *The Top-Ten Wikipedias: A Quantitative Analysis Using WikiXRay*, CiteSeerX 10.1.1.107.1424
99. ^ Curino, Carlo A.; Tanca, Letizia; Zaniolo, Carlo (2008), *Information Systems Integration and Evolution: Ontologies at Rescue* (PDF), Workshop on Semantic, archived (PDF) from the original on December 22, 2009, retrieved April 23, 2010
100. ^ T Dumitras; P Narasimhan (2009), *No downtime for data conversions: Rethinking hot upgrades* (PDF), archived from the original (PDF) on June 16, 2010, retrieved April 29, 2010
101. ^ a b "Wikipedia and MediaWiki". Presentation MediaWiki development (video). April 28, 2006. Archived from the original on April 14, 2011. Retrieved September 23, 2009.
102. ^ a b Bergsma, Mark, *Wikimedia Architecture* (PDF), archived (PDF) from the original on March 5, 2016, retrieved October 21, 2015
103. ^ "Manual:What is". MediaWiki. Archived from the original on July 22, 2018. Retrieved May 30, 2010.
104. ^ "Extension:StructuredDiscussions". MediaWiki. Archived from the original on December 27, 2018. Retrieved December 27, 2018.
105. ^ "Extension:Wikilog". MediaWiki. November 27, 2009. Archived from the original on September 22, 2014. Retrieved May 30, 2010.
106. ^ "Help:Signatures". MediaWiki. Archived from the original on November 15, 2008. Retrieved May 30, 2010.
107. ^ N Augar; R Raitman; W Zhou (2004), *Teaching and learning online with wikis, Beyond the comfort zone*, pp. 95–104, CiteSeerX 10.1.1.133.1456

108. ^ Cubric, Marija (2007), *Analysis of the use of Wiki-based collaborations in enhancing student learning*, University of Hertfordshire, p. 11, archived from *the original* on May 15, 2011, retrieved April 24, 2010
109. ^ Albertsen, Johannes & Bouvin, Niels Olof (2008), *User defined structural searches in mediawiki*, Proceedings of the nineteenth ACM conference on Hypertext and hypermedia, ISBN 978-1-59593-985-2
110. ^ *"Extension:Semantic MediaWiki – WikiApiary"*. Archived from the original on October 26, 2018. Retrieved October 12, 2019.
111. ^ T DumitraŃ; P Narasimhan (2009), *Toward upgrades-as-a-service in distributed systems*, Proceedings of the 10th ACM/IFIP/USENIX International Conference on Middleware, pp. 1–2
112. ^ *"Security for developers"*. MediaWiki. Archived from the original on November 25, 2014. Retrieved May 30, 2010.
113. ^ Perrin, Chad (April 30, 2008), *Five security tips from MediaWiki's lead developer*, Tech Republic^[*permanent dead link*]
114. ^ *"News"*. MediaWiki. Archived from the original on October 6, 2014. Retrieved May 30, 2010.
115. ^ *"Manual:Security"*. MediaWiki. March 22, 2010. Archived from the original on November 10, 2014. Retrieved May 30, 2010.
116. ^ *Books about MediaWiki Archived* December 27, 2018, at the *Wayback Machine*, mediawiki.org
117. ^ *MediaWiki Administrator's Handbook*. Wikibooks. Archived from the original on October 20, 2014. Retrieved October 20, 2014.
118. ^ *MediaWiki User Guide*, Wikibooks, archived from the original on October 20, 2014, retrieved October 20, 2014
119. ^ *"MediaWiki.org Project:Copyrights"*. Archived from the original on August 23, 2023. Retrieved August 23, 2023.
120. ^ *"Project:PD help"*. MediaWiki. Archived from the original on October 29, 2020. Retrieved May 30, 2010.
121. ^ Rafe Needleman (November 19, 2008), *Wikipedia gears up for flood of video and photo files*, C-Net, archived from the original on August 6, 2009, retrieved April 23, 2010
122. ^ *"Events"*. Mediawiki.org. Archived from the original on December 27, 2018. Retrieved December 27, 2018.
123. ^ *"Development policy"*. MediaWiki. July 19, 2013. Archived from the original on May 10, 2017. Retrieved August 4, 2013.
124. ^ *"Summer of Code"*. MediaWiki. March 26, 2013. Archived from the original on May 10, 2017. Retrieved August 4, 2013.
125. ^ *"Wikimedia"*. Open Hub. Archived from the original on September 14, 2017. Retrieved November 15, 2012. Approximate counts (not deduplicated) as of November 4, 2012: 139 for core, 155 for extensions supported by WMF, 190 and 42 for extensions only hosted on WMF's Git and SVN repositories respectively.
126. ^ *a b "Version lifecycle"*. MediaWiki. September 5, 2018. Archived from the original on June 17, 2020. Retrieved October 21, 2018.
127. ^ Bartlett, Manning (November 14, 2001). *"Magnus's new script..."* Wikimedia Lists. Wikimedia Foundation. Archived from the original on October 2, 2019. Retrieved October 2,

2019.

128. ^ Manske, Magnus (November 14, 2001). "*Magnus's new script...*" Wikimedia Lists. Wikimedia Foundation. Archived from the original on October 2, 2019. Retrieved October 2, 2019.
129. ^ Mayer, Daniel (July 19, 2003). "*Phase IV, Wikibooks.org/.com and WikimediaFoundation.org/.com (was Wikis and uniformity)*". Wikipedia-L mailing list. Archived from the original on July 12, 2017. Retrieved January 18, 2015.
130. ^ "*Differences between Wikipedia, Wikimedia, MediaWiki, and wiki*". MediaWiki. Archived from the original on July 1, 2009. Retrieved May 30, 2010.
131. ^ "*International logo contest*". Meta-Wiki. Archived from the original on May 9, 2020. Retrieved April 9, 2020.
132. ^ "*International logo contest/results*". Meta-wiki. Wikimedia Foundation. January 10, 2007. Archived from the original on November 4, 2015. Retrieved March 14, 2007.
133. ^ "*Historical/Logo history*". Meta-wiki. Wikimedia Foundation. January 17, 2007. Archived from the original on November 4, 2015. Retrieved March 14, 2007.
134. ^ Erik Möller (July 26, 2003). "*File talk:EloquenceSunflowerNew-Small.png – Meta*". Meta-wiki. Wikimedia Foundation. Archived from the original on January 30, 2016. Retrieved February 3, 2013.
135. ^ David Weinberger (2007). *Everything Is Miscellaneous: The Power of the New Digital Disorder*. Times Books. p. 99. ISBN 978-0-8050-8043-8.
136. ^ "*MediaWiki history*". MediaWiki website. Archived from the original on October 27, 2020. Retrieved August 4, 2013.
137. ^ "*MediaWiki ResourceLoader*". Mediawiki.org. Archived from the original on March 8, 2013. Retrieved July 6, 2013.
138. ^ "*VisualEditor – MediaWiki*". MediaWiki. Archived from the original on September 27, 2013. Retrieved September 15, 2013.
139. ^ Sarabadani, Amir (March 31, 2021). "*Logo of MediaWiki has changed*". Wikimedia Foundation. Archived from the original on April 2, 2021. Retrieved April 2, 2021.
140. ^ MediaWiki testimonials Archived January 11, 2012, at the Wayback Machine, mediawiki.org
141. ^ "*The story of Intelpedia: A model corporate wiki*". Socialmedia.biz. Archived from the original on September 16, 2013. Retrieved August 16, 2013.
142. ^ A. Maron; M. Maron (2007). "*A stealth transformation: introducing wikis to the UN*". Knowledge Management for Development Journal. Archived from the original on May 4, 2011. Retrieved October 9, 2010.
143. ^ "*LibrePlanet Homepage*". Archived from the original on March 18, 2011. Retrieved December 10, 2018.
144. ^ Bryant, Todd (2006), *Social Software in Academia* (PDF), Educause Quarterly, archived from the original (PDF) on December 22, 2009, retrieved April 23, 2010
145. ^ Liang, M.; Chu, S.; Siu, F.; Zhou, A. (December 3–4, 2009), *Comparing User Experiences in Using Twiki & Mediawiki to Facilitate Collaborative Learning* (PDF), Proceedings of the 2009 International Conference on Knowledge Management, archived from the original (PDF) on May 14, 2011
146. ^ Schulz, Judith (2009), *Company-Wiki as a knowledge transfer instrument for reducing the shortage of skilled workers* (PDF), Institute of Technology and Education, archived (PDF)

from the original on March 4, 2016, retrieved April 25, 2010


147. [^] Chu, S.; Kennedy, D.; Mak, M. (December 3–4, 2009), *MediaWiki and Google Docs as online collaboration tools for group project co-construction* (PDF), *Proceedings of the 2009 International Conference on Knowledge Management*, archived from *the original* (PDF) on May 14, 2011, retrieved April 23, 2010
148. [^] **a b** Grecco, Claudio Henrique dos Santos; Augusto, Silas Cordeiro; Souza, Jaqueline Tavares Viana de; Carvalho, Paulo Victor Rodrigues; Davila, Adriana Loureiro (July 25, 2021). "A Method for the evaluation of knowledge management systems". *Brazilian Journal of Radiation Sciences*. **9** (2B). doi:10.15392/bjrs.v9i2B.1250. ISSN 2319-0612. S2CID 237733021. Archived from the original on November 12, 2021. Retrieved November 12, 2021.

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- Wikimedia Foundation actions
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 - 2021
 - against MENA Wikimedians
 - 2022

History

Controversies

- Alan MacMasters hoax
- Carlos Bandeirense Mirandópolis hoax
- Edit wars
- Essjay controversy
- Henryk Batuta hoax
- Jar'Edo Wens hoax
- Seigenthaler biography incident
- *Star Trek Into Darkness* debate
- United States congressional staff edits
- Weintraub controversy
- Zhemao hoaxes

Coverage

- American politics
 - Donald Trump
- COVID-19 pandemic
- Death
- Israeli–Palestinian conflict
- Russian invasion of Ukraine

Honors

- 274301 Wikipedia
- *Viola angustifolia*
- *Wikipedia Monument*

References and analysis

- Academic studies
- Bibliography
- Cultural
- Films
- Listen to Wikipedia
- Wikipediocracy

Mobile

- Apps
- QRpedia
- Wapedia
- Wikipedia Zero
- WikiReader
- Wikiwand

Content use

- DBpedia
- Depths of Wikipedia
- Google and Wikipedia
- Health information
- Kiwix
- Science information
- Wikipedia-based education

Related

- *The Iraq War: A Historiography of Wikipedia Changelogs*
- LGBTQ and Wikipedia
- *Magna Carta (An Embroidery)*
- People imprisoned for editing Wikipedia
- Print Wikipedia
- Wiki rabbit hole
- Wikimedia Foundation
- Wikimedia movement
- Wikipedia for World Heritage
- Wikipedia in India
- Wikiracing
- List of online encyclopedias
- List of wikis

-  **List**
-  **Category**

- **v**
- **t**
- **e**

Wiki software

.NET

- FlexWiki
- SharePoint

Java

- Confluence
- Jive
- Traction TeamPage
- XWiki

JavaScript

- TiddlyWiki
- Wiki.js

Perl

- Foswiki
- ikiwiki
- TWiki
- UseModWiki
- WikiBase

PHP

- BlueSpice
- BookStack
- DokuWiki
- MediaWiki
- PhpWiki
- Phriction
- PmWiki
- PukiWiki
- Tiki

Python




- Allura
- Bloodhound
- Kallithea
- Kuma
- MoinMoin
- Trac
- Zim

Ruby

- Gollum
- Redmine

Other languages

- CLiki
 - Common Lisp
- Federated Wiki
 - CoffeeScript
 - Haskell

-  Comparison
-  List
-  Category

- v
- t
- e

Wikimedia Foundation

Projects ○ Wikipedia community (Wikipedians)

Current

- Maryana Iskander
- Lisa Seitz-Gruwell
- Dariusz Jemielniak
- Rebecca MacKinnon
- Raju Narisetti
- Rosie Stephenson-Goodknight
- Esra'a Al Shafei
- Jimmy Wales

People

- Hampton Lintorn-Catlin
- Danese Cooper
- Bishakha Datta
- Florence Devouard
- Oscar van Dillen
- Sue Gardner
- Arnon Geshuri
- Mike Godwin

Past

- Aaron Halfaker
- James Heilman
- Guy Kawasaki
- Patricio Lorente
- Katherine Maher
- Erik Möller
- Larry Sanger
- María Sefidari
- Lila Tretikov
- Luis Villa

Projects

- Wikipedia
 - history
 - List of Wikipedias
 - Censorship of Wikipedia
- Wiktionary
- Wikimedia Commons
- Wikidata
- Wikiquote
- Wikibooks
- Wikisource
- Wikispecies
- Wikinews
- Wikiversity
- Wikivoyage
- Wikifunctions
 - Abstract Wikipedia

Other

- Wikimedia movement
- List of Wikimedia chapters
 - Bangladesh
 - Deutschland
 - Israel
 - Polska
 - UK
 - Ukraine
- Wikimania
- Wiki Indaba
- WikiConference India
- WikiConference North America
- MediaWiki
- Litigation
 - Monkey selfie copyright dispute
 - *Wikimedia Foundation v. NSA*
- Knowledge Engine

Related

- *The Signpost*
- *Wikipedia Monument*
- Wikimedian of the Year
- Tides Foundation
- Artificial intelligence in Wikimedia projects
- Google and Wikipedia
- Wikipedia for World Heritage

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International

- [VIAF](#)
- [FAST](#)

National

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- [Israel](#)

Other

- [IdRef](#)

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- [SEO service Sydney](#)
- [Local SEO](#)

Frequently Asked Questions

What is the difference between local SEO and general SEO?

General SEO focuses on improving a website's visibility on a broader scale, often targeting national or international audiences. Local SEO, on the other hand, zeroes in on geographic areas, helping businesses attract nearby customers through local keywords, directory listings, and Google My Business optimization.

What should I expect from SEO agencies in Sydney?

SEO agencies in Sydney typically offer comprehensive services such as keyword research, technical audits, on-page and off-page optimization, content creation, and performance tracking. Their goal is to increase your site's search engine rankings and drive more targeted traffic to your website.

Why is keyword research important for SEO?

Keyword research helps identify the terms and phrases that potential customers are using to search for products or services. By targeting these keywords in your content, you can improve your visibility in search engine results, attract more qualified leads, and drive higher conversion rates.

What sets SEO specialists in Sydney apart?

SEO specialists in Sydney often have deep expertise in the local market. They understand the competitive landscape, know which keywords resonate with Sydney-based audiences, and are skilled at optimizing websites to rank well in local search results.

What is SEO?

SEO, or search engine optimisation, is the practice of improving a website's visibility on search engines like Google. It involves optimizing various elements of a site such as keywords, content, meta tags, and technical structure to help it rank higher in search results.

How can a digital agency in Sydney help with SEO?

A digital agency in Sydney can offer a comprehensive approach, combining SEO with other marketing strategies like social media, PPC, and content marketing. By integrating these services, they help you achieve a stronger online presence and better ROI.

Sydney SEO consultant

SEO Sydney

Phone : 1300 684 339

City : Sydney

State : NSW

Zip : 2000

[Google Business Profile](#)

[Google Business Website](#)

Company Website : <https://sydney.website/seo-sydney/>

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