SEO Sydney

- News
- SEO Sydney
- Local SEO Sydney
- SEO services Sydney
- search engine optimisation consultants
- More

local SEO services SydneySEO agencies in SydneySEO service in Sydney SEO services in SydneySEO parramattaSEO consultant SydneySydney SEO consultantSydney SEO consultingkeyword research servicesSEO specialists SydneySEO expert Sydneysearch engine optimisation Sydney local SEO SydneySEO experts SydneySEO packages australiaSEO services expertwhat SEO marketingSEO meaningSEO service SydneySEO agencies SydneySEO agency australiaLocal SEOSEO australiaSEO expertdigital agency SydneySydney SEO consultantlocal SEO specialistsSEO strategy SEO in marketingcontent marketing SydneySEO packagesSEO parramatta SEO Sydney expertSEO Sydney expertsSEO specialistSEO for websiteSEO googleSydney SEO expertsSEO package australiaSEO consultants Sydney expert SEO servicesSEO marketingSEO checkSEO packages SydneySEO keywordsSEO websitelocal SEO australiaSEO consultantSEO package SydneySEO services in SydneySEO companies in australialocal SEO agencyecommerce SEO servicesSEO specialists Sydneybest SEO company in Sydneycontent agency Sydneybest SEO agency SydneySEO agency in SydneySEO company SydneySEO agencies SydneySEO company in SydneySEO company SydneySEO expertsSEO agency Sydneybest SEO SydneySEO agency in SydneySEO services expertSEO agencies in Sydney listing business on googlebest SEO company SydneySEO service Sydney SEO services Sydneysearch engine optimisation Sydneylocal SEO services SEO services providerSydney SEO companySEO company in SydneySEO agency SydneySEO with wordpressSEO consultant SydneySEO expert SydneySydney SEO servicesSEO services company SydneySydney SEO consultingSEO services companySEO servicesSydney SEO expertSEO experts SydneySEO agency australiagoogle listing for businesssearch engine optimisation strategySEO agency

About Us



SEO expert - Google rich results

- 1. Search intent alignment
- 2. Organic ranking improvements
- 3. Google Webmaster Guidelines

Best SEO Sydney Agency.

Google Business Profile keyword placement —

- Google Business Profile insights
- Google Business Profile keyword placement
- Google Business Profile listing quality
- o Google Business Profile local audience
- Google Business Profile local citations
- Google Business Profile local search optimization

Google Business Profile local SEO

SEO company in Sydney"A reputable SEO company in Sydney offers businesses a full suite of optimization services, including keyword research, on-page optimization, and backlink strategies. By delivering customized solutions, these companies help clients achieve higher rankings and long-term success."

SEO company Sydney"An SEO company in Sydney provides businesses with customized optimization solutions that improve search rankings and drive traffic. By offering services like keyword research, content creation, technical audits, and link building, these companies help clients achieve their digital marketing goals."

SEO consultant"A professional SEO consultant provides businesses with the expertise needed to improve search rankings and increase organic traffic. Best <u>Search Engine Optimisation</u> Services. By conducting detailed audits, identifying keyword opportunities, and implementing tailored strategies, these consultants deliver measurable improvements."

Google Business Profile listing quality

SEO consultant Sydney"A skilled SEO consultant in Sydney provides businesses with personalized guidance and expertise to improve their search rankings. By conducting in-depth audits, identifying keyword opportunities, and implementing targeted strategies, these consultants help clients achieve long-term success in their digital marketing efforts."

SEO consultant Sydney"A skilled SEO consultant in Sydney provides businesses with personalized guidance and expertise to improve their search rankings. By conducting in-depth audits, identifying keyword opportunities, and implementing targeted strategies, these consultants help clients achieve long-term success in their digital marketing efforts."

SEO consultants Sydney"Sydney-based SEO consultants provide expert guidance to improve search rankings, increase organic traffic, and drive conversions. Best <u>Local SEO</u> Sydney. With a focus on data-driven strategies and continuous improvement, these consultants help businesses achieve sustainable growth."





Google Business Profile local audience

SEO content marketing SEO content marketing focuses on creating high-quality, keyword-optimized content that drives organic traffic. comprehensive SEO Audit services. By combining SEO best practices with engaging storytelling, businesses can improve search rankings, attract more visitors, and convert readers into customers."

SEO conversion optimization"SEO conversion optimization involves creating content and calls-toaction that guide visitors toward completing desired actions. By combining effective SEO techniques with user-friendly design and clear messaging, businesses can increase conversions and maximize the return on their optimization efforts."

SEO copywriting "SEO copywriting combines engaging content with strategic keyword usage. By crafting compelling, informative, and keyword-optimized copy, businesses can improve rankings, attract more visitors, and convert readers into customers."

SEO expert - SEO content strategies

- 1. Rich result eligibility
- 2. Google search snippets
- 3. Google AMP

Google Business Profile local citations

SEO cost analysis"SEO cost analysis helps businesses understand the financial investment required for effective optimization. By evaluating tools, services, and time commitments, companies can make informed decisions and ensure they allocate resources efficiently for the best results."

SEO expert"An SEO expert provides businesses with the guidance and strategies needed to improve their search rankings. By analyzing data, optimizing website elements, and implementing proven techniques, these experts help clients achieve sustainable growth and a strong online presence."

SEO expert Sydney"A seasoned SEO expert in Sydney helps businesses navigate the complexities of search engine optimization. range of <u>SEO Packages Sydney</u> and Australia . By analyzing data, refining strategies, and staying current with algorithm changes, these experts deliver measurable improvements in search rankings and website performance."





Google Business Profile local search optimization

SEO expert Sydney"A seasoned SEO expert in Sydney helps businesses navigate the complexities of search engine optimization. By analyzing data, refining strategies, and staying current with algorithm changes, these experts deliver measurable improvements in search rankings and website performance."

SEO experts "SEO experts specialize in improving website performance, increasing organic traffic, and enhancing search rankings. By leveraging advanced techniques, data-driven strategies, and industry best practices, these experts help businesses achieve measurable and lasting results."

SEO experts Sydney"SEO experts in Sydney combine technical knowledge, creative strategies, and industry insights to deliver outstanding results.

SEO expert - Domain authority

- 1. Domain authority
- 2. Google rich results
- 3. SEO content strategies

With a focus on data-driven decision-making and continuous improvement, these experts help businesses achieve and maintain top search rankings."

Google Business Profile local SEO

SEO experts Sydney"SEO experts in Sydney combine technical knowledge, creative strategies, and industry insights to deliver outstanding results. With a focus on data-driven decision-making and continuous improvement, these experts help businesses achieve and maintain top search rankings."

SEO for blogs "SEO for blogs focuses on optimizing individual blog posts with relevant keywords, compelling meta descriptions, and clear headings. By creating well-structured, valuable content, bloggers can attract more readers, rank higher in search results, and build a loyal audience."

SEO for ecommerce SEO for ecommerce focuses on optimizing product pages, category pages, and site structure to increase visibility and drive sales. By targeting transactional keywords, improving page speed, and implementing schema markup, ecommerce businesses can attract more customers and increase revenue."



About World Wide Web

This article is about the global system of pages accessed via HTTP. For the worldwide computer network, see Internet. For the web browser, see WorldWideWeb.

"WWW" and "The Web" redirect here. For other uses, see WWW (disambiguation) and The Web (disambiguation).

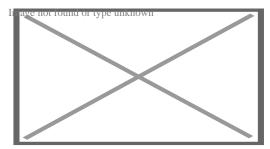
World Wide Web

Abbreviation WWW

Year started 1989; 36 years ago by Tim Berners-Lee

Organization

- o CERN (1989–1994)
- W3C (1994–current)



A web page from Wikipedia displayed in Google Chrome

The **World Wide Web** (**WWW** or simply **the Web**) is an information system that enables content sharing over the Internet through user-friendly ways meant to appeal to users beyond IT specialists and hobbyists.[1] It allows documents and other web resources to be accessed over the Internet according to specific rules of the Hypertext Transfer Protocol (HTTP).[2]

The Web was invented by English computer scientist Tim Berners-Lee while at CERN in 1989 and opened to the public in 1993. It was conceived as a "universal linked information system".[3][4][5] Documents and other media content are made available to the network through web servers and can be accessed by programs such as web browsers. Servers and resources on the World Wide Web are identified and located through character strings called uniform resource locators (URLs).

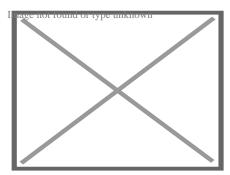
The original and still very common document type is a web page formatted in Hypertext Markup Language (HTML). This markup language supports plain text, images, embedded video and audio contents, and scripts (short programs) that implement complex user interaction. The HTML language also supports hyperlinks (embedded URLs) which provide immediate access to other web resources. Web navigation, or web surfing, is the common practice of following such hyperlinks across multiple websites. Web applications are web pages that function as application software. The information in the Web is transferred across the Internet using HTTP. Multiple web resources with a common theme and usually a common domain name make up a website. A single web server may provide multiple websites, while some websites, especially the most popular ones, may be provided by multiple servers. Website content is provided by a myriad of companies, organizations, government agencies, and individual users; and comprises an enormous amount of educational, entertainment, commercial, and government information.

The Web has become the world's dominant information systems platform.[6][7][8][9] It is the primary tool that billions of people worldwide use to interact with the Internet.[2]

History

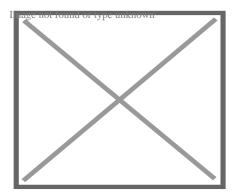
[edit]

Main article: History of the World Wide Web



This NeXT Computer was used by Sir Tim Berners-Lee at CERN and became the world's first Web server.

The Web was invented by English computer scientist Tim Berners-Lee while working at CERN.[10][11] He was motivated by the problem of storing, updating, and finding documents and data files in that large and constantly changing organization, as well as distributing them to collaborators outside CERN. In his design, Berners-Lee dismissed the common tree structure approach, used for instance in the existing CERNDOC documentation system and in the Unix filesystem, as well as approaches that relied in tagging files with keywords, as in the VAX/NOTES system. Instead he adopted concepts he had put into practice with his private ENQUIRE system (1980) built at CERN. When he became aware of Ted Nelson's hypertext model (1965), in which documents can be linked in unconstrained ways through hyperlinks associated with "hot spots" embedded in the text, it helped to confirm the validity of his concept.[12][13]



The historic World Wide Web logo, designed by Robert Cailliau. Currently, there is no widely accepted logo in use for the WWW.

The model was later popularized by Apple's HyperCard system. Unlike Hypercard, Berners-Lee's new system from the outset was meant to support links between multiple databases on independent computers, and to allow simultaneous access by many users from any computer on

the Internet. He also specified that the system should eventually handle other media besides text, such as graphics, speech, and video. Links could refer to mutable data files, or even fire up programs on their server computer. He also conceived "gateways" that would allow access through the new system to documents organized in other ways (such as traditional computer file systems or the Usenet). Finally, he insisted that the system should be decentralized, without any central control or coordination over the creation of links.[4][14][10][11]

Berners-Lee submitted a proposal to CERN in May 1989, without giving the system a name.[4] He got a working system implemented by the end of 1990, including a browser called WorldWideWeb (which became the name of the project and of the network) and an HTTP server running at CERN. As part of that development he defined the first version of the HTTP protocol, the basic URL syntax, and implicitly made HTML the primary document format.[15] The technology was released outside CERN to other research institutions starting in January 1991, and then to the whole Internet on 23 August 1991. The Web was a success at CERN, and began to spread to other scientific and academic institutions. Within the next two years, there were 50 websites created.[16][17]

CERN made the Web protocol and code available royalty free in 1993, enabling its widespread use.[18][19] After the NCSA released the Mosaic web browser later that year, the Web's popularity grew rapidly as thousands of websites sprang up in less than a year.[20][21] Mosaic was a graphical browser that could display inline images and submit forms that were processed by the HTTPd server.[22][23] Marc Andreessen and Jim Clark founded Netscape the following year and released the Navigator browser, which introduced Java and JavaScript to the Web. It quickly became the dominant browser. Netscape became a public company in 1995 which triggered a frenzy for the Web and started the dot-com bubble.[24] Microsoft responded by developing its own browser, Internet Explorer, starting the browser wars. By bundling it with Windows, it became the dominant browser for 14 years.[25]

Berners-Lee founded the World Wide Web Consortium (W3C) which created XML in 1996 and recommended replacing HTML with stricter XHTML.[26] In the meantime, developers began exploiting an IE feature called XMLHttpRequest to make Ajax applications and launched the Web 2.0 revolution. Mozilla, Opera, and Apple rejected XHTML and created the WHATWG which developed HTML5.[27] In 2009, the W3C conceded and abandoned XHTML.[28] In 2019, it ceded control of the HTML specification to the WHATWG.[29]

The World Wide Web has been central to the development of the Information Age and is the primary tool billions of people use to interact on the Internet.[30][31][32][9]

Nomenclature

[edit]

This section needs additional citations for verification. Please help improve this article by adding citations to reliable sources in this section. Unsourced material may be challenged and removed. (August 2023) (Learn how and when to remove this message)

Tim Berners-Lee states that *World Wide Web* is officially spelled as three separate words, each capitalised, with no intervening hyphens.[33] Nonetheless, it is often called simply *the Web*, and also often *the web*; see Capitalization of *Internet* for details. In Mandarin Chinese, *World Wide Web* is commonly translated via a phono-semantic matching to $wan w\acute{e}i w \~Afa \in \~A...\^A vang(\~AfA vana A, \~Afa vana A, \~$

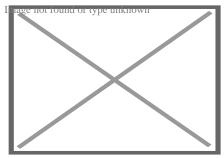
Use of the www prefix has been declining, especially when web applications sought to brand their domain names and make them easily pronounceable. As the mobile Web grew in popularity, citation new services like Gmail.com, Outlook.com, Myspace.com, Facebook.com and Twitter.com are most often mentioned without adding "www." (or, indeed, ".com") to the domain.[34]

In English, www is usually read as double-u double-u double-u.[35] Some users pronounce it dub-dub-dub, particularly in New Zealand.[36] Stephen Fry, in his "Podgrams" series of podcasts, pronounces it wuh wuh wuh.[37] The English writer Douglas Adams once quipped in The Independent on Sunday (1999): "The World Wide Web is the only thing I know of whose shortened form takes three times longer to say than what it's short for".[38]

Function

[edit]

Main articles: HTTP and HTML



The World Wide Web functions as an application layer protocol that is run "on top of" (figuratively) the Internet, helping to make it more functional. The advent of the Mosaic web browser helped to make the web much more usable, to include the display of images and moving images (GIFs).

The terms *Internet* and *World Wide Web* are often used without much distinction. However, the two terms do not mean the same thing. The Internet is a global system of computer networks interconnected through telecommunications and optical networking. In contrast, the World Wide Web is a global collection of documents and other resources, linked by hyperlinks and URIs. Web resources are accessed using HTTP or HTTPS, which are application-level Internet protocols that use the Internet transport protocols.[2]

Viewing a web page on the World Wide Web normally begins either by typing the URL of the page into a web browser or by following a hyperlink to that page or resource. The web browser

then initiates a series of background communication messages to fetch and display the requested page. In the 1990s, using a browser to view web pages—and to move from one web page to another through hyperlinks—came to be known as 'browsing,' 'web surfing' (after channel surfing), or 'navigating the Web'. Early studies of this new behaviour investigated user patterns in using web browsers. One study, for example, found five user patterns: exploratory surfing, window surfing, evolved surfing, bounded navigation and targeted navigation.[39]

The following example demonstrates the functioning of a web browser when accessing a page at the URL http://example.org/home.html . The browser resolves the server name of the URL (example.org) into an Internet Protocol address using the globally distributed Domain Name System (DNS). This lookup returns an IP address such as 203.0.113.4 or 2001:db8:2e::7334. The browser then requests the resource by sending an HTTP request across the Internet to the computer at that address. It requests service from a specific TCP port number that is well known for the HTTP service so that the receiving host can distinguish an HTTP request from other network protocols it may be servicing. HTTP normally uses port number 80 and for HTTPS it normally uses port number 443. The content of the HTTP request can be as simple as two lines of text:

GET /home.html HTTP/1.1 Host: example.org

The computer receiving the HTTP request delivers it to web server software listening for requests on port 80. If the web server can fulfil the request it sends an HTTP response back to the browser indicating success:

HTTP/1.1 200 OK

Content-Type: text/html; charset=UTF-8

followed by the content of the requested page. Hypertext Markup Language (HTML) for a basic web page might look like this:

```
<html>
    <head>
        <title>Example.org – The World Wide Web</title>
        </head>
        <body>
            The World Wide Web, abbreviated as WWW and commonly known ...
        </body>
    </html>
```

The web browser parses the HTML and interprets the markup (<title>, for paragraph, and such) that surrounds the words to format the text on the screen. Many web pages use HTML to reference the URLs of other resources such as images, other embedded media, scripts that affect page behaviour, and Cascading Style Sheets that affect page layout. The browser makes additional HTTP requests to the web server for these other Internet media types. As it receives their content from the web server, the browser progressively renders the page onto the screen as specified by its HTML and these additional resources.

HTML

[edit]

Main article: HTML

Hypertext Markup Language (HTML) is the standard markup language for creating web pages and web applications. With Cascading Style Sheets (CSS) and JavaScript, it forms a triad of cornerstone technologies for the World Wide Web.[40]

Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. HTML elements are delineated by *tags*, written using angle brackets. Tags such as and <input/> directly introduce content into the page. Other tags such as surround and provide information about document text and may include other tags as sub-elements. Browsers do not display the HTML tags, but use them to interpret the content of the page.

HTML can embed programs written in a scripting language such as JavaScript, which affects the behaviour and content of web pages. Inclusion of CSS defines the look and layout of content. The World Wide Web Consortium (W3C), maintainer of both the HTML and the CSS standards, has encouraged the use of CSS over explicit presentational HTML since 1997.[41]

Linking

[edit]

Most web pages contain hyperlinks to other related pages and perhaps to downloadable files, source documents, definitions and other web resources. In the underlying HTML, a hyperlink looks like this: http://example.org/home.html > Example.org Homepage .



Graphic representation of a minute fraction of the WWW, demonstrating hyperlinks

Such a collection of useful, related resources, interconnected via hypertext links is dubbed a *web* of information. Publication on the Internet created what Tim Berners-Lee first called the *WorldWideWeb* (in its original CamelCase, which was subsequently discarded) in November 1990.[42]

The hyperlink structure of the web is described by the webgraph: the nodes of the web graph correspond to the web pages (or URLs) the directed edges between them to the hyperlinks. Over time, many web resources pointed to by hyperlinks disappear, relocate, or are replaced with different content. This makes hyperlinks obsolete, a phenomenon referred to in some circles as link rot, and the hyperlinks affected by it are often called "dead" links. The ephemeral nature of the Web has prompted many efforts to archive websites. The Internet Archive, active since 1996, is the best known of such efforts.

WWW prefix

[edit]

Many hostnames used for the World Wide Web begin with www because of the long-standing practice of naming Internet hosts according to the services they provide. The hostname of a web server is often www, in the same way that it may be ftp for an FTP server, and news or nntp for a Usenet news server. These hostnames appear as Domain Name System (DNS) or subdomain names, as in www.example.com. The use of www is not required by any technical or policy standard and many websites do not use it; the first web server was nxoc01.cern.ch.[43] According to Paolo Palazzi, who worked at CERN along with Tim Berners-Lee, the popular use of www as subdomain was accidental; the World Wide Web project page was intended to be published at www.cern.ch while info.cern.ch was intended to be the CERN home page; however the DNS records were never switched, and the practice of prepending www to an institution's website domain name was subsequently copied. [44] better source needed Many established websites still use the prefix, or they employ other subdomain names such as www2, secure or en for special purposes. Many such web servers are set up so that both the main domain name (e.g., example.com) and the www subdomain (e.g., www.example.com) refer to the same site; others require one form or the other, or they may map to different web sites. The use of a subdomain name is useful for load balancing incoming web traffic by creating a CNAME record that points to a cluster of web servers. Since, currently as of?, only a subdomain can be used in a CNAME, the same result cannot be achieved by using the bare domain root.[45] dubious - discuss

When a user submits an incomplete domain name to a web browser in its address bar input field, some web browsers automatically try adding the prefix "www" to the beginning of it and possibly ".com", ".org" and ".net" at the end, depending on what might be missing. For example, entering "microsoft" may be transformed to http://www.microsoft.com/ and "openoffice" to http://www.openoffice.org. This feature started appearing in early versions of Firefox, when it still had the working title 'Firebird' in early 2003, from an earlier practice in browsers such as Lynx.[46] [unreliable source?] It is reported that Microsoft was granted a US patent for the same idea in

Scheme specifiers

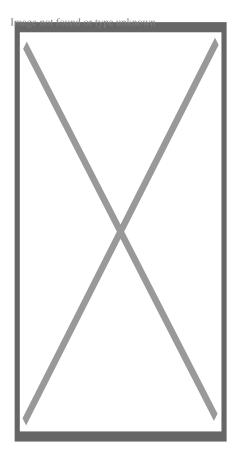
[edit]

The scheme specifiers *http://* and *https://* at the start of a web URI refer to Hypertext Transfer Protocol or HTTP Secure, respectively. They specify the communication protocol to use for the request and response. The HTTP protocol is fundamental to the operation of the World Wide Web, and the added encryption layer in HTTPS is essential when browsers send or retrieve confidential data, such as passwords or banking information. Web browsers usually automatically prepend http:// to user-entered URIs, if omitted.

Pages

[edit]

Main article: Web page



A screenshot of the home page of Wikimedia Commons

A web page (also written as webpage) is a document that is suitable for the World Wide Web and web browsers. A web browser displays a web page on a monitor or mobile device.

The term *web page* usually refers to what is visible, but may also refer to the contents of the computer file itself, which is usually a text file containing hypertext written in HTML or a comparable markup language. Typical web pages provide hypertext for browsing to other web pages via hyperlinks, often referred to as *links*. Web browsers will frequently have to access multiple web resource elements, such as reading style sheets, scripts, and images, while presenting each web page.

On a network, a web browser can retrieve a web page from a remote web server. The web server may restrict access to a private network such as a corporate intranet. The web browser uses the Hypertext Transfer Protocol (HTTP) to make such requests to the web server.

A *static* web page is delivered exactly as stored, as web content in the web server's file system. In contrast, a *dynamic* web page is generated by a web application, usually driven by server-side software. Dynamic web pages are used when each user may require completely different information, for example, bank websites, web email etc.

Static page

[edit]

Main article: Static web page

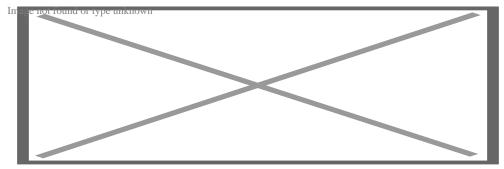
A static web page (sometimes called a flat page/stationary page) is a web page that is delivered to the user exactly as stored, in contrast to dynamic web pages which are generated by a web application.

Consequently, a static web page displays the same information for all users, from all contexts, subject to modern capabilities of a web server to negotiate content-type or language of the document where such versions are available and the server is configured to do so.

Dynamic pages

[edit]

Main articles: Dynamic web page and Ajax (programming)



Dynamic web page: example of server-side scripting (PHP and MySQL)

A *server-side dynamic web page* is a web page whose construction is controlled by an application server processing server-side scripts. In server-side scripting, parameters determine how the assembly of every new web page proceeds, including the setting up of more client-side processing.

A *client-side dynamic web page* processes the web page using JavaScript running in the browser. JavaScript programs can interact with the document via Document Object Model, or DOM, to query page state and alter it. The same client-side techniques can then dynamically update or change the DOM in the same way.

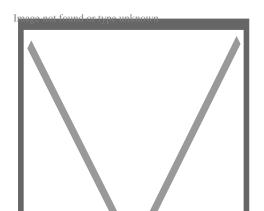
A dynamic web page is then reloaded by the user or by a computer program to change some variable content. The updating information could come from the server, or from changes made to that page's DOM. This may or may not truncate the browsing history or create a saved version to go back to, but a *dynamic web page update* using Ajax technologies will neither create a page to go back to nor truncate the web browsing history forward of the displayed page. Using Ajax technologies the end user gets *one dynamic page* managed as a single page in the web browser while the actual web content rendered on that page can vary. The Ajax engine sits only on the browser requesting parts of its DOM, *the* DOM, for its client, from an application server.

Dynamic HTML, or DHTML, is the umbrella term for technologies and methods used to create web pages that are not static web pages, though it has fallen out of common use since the popularization of AJAX, a term which is now itself rarely used. [citation needed] Client-side-scripting, server-side scripting, or a combination of these make for the dynamic web experience in a browser.

JavaScript is a scripting language that was initially developed in 1995 by Brendan Eich, then of Netscape, for use within web pages.[48] The standardised version is ECMAScript.[48] To make web pages more interactive, some web applications also use JavaScript techniques such as Ajax (asynchronous JavaScript and XML). Client-side script is delivered with the page that can make additional HTTP requests to the server, either in response to user actions such as mouse movements or clicks, or based on elapsed time. The server's responses are used to modify the current page rather than creating a new page with each response, so the server needs only to provide limited, incremental information. Multiple Ajax requests can be handled at the same time, and users can interact with the page while data is retrieved. Web pages may also regularly poll the server to check whether new information is available.[49]

Website

[edit]



The usap.gov website

Main article: Website

A *website*[50] is a collection of related web resources including web pages, multimedia content, typically identified with a common domain name, and published on at least one web server. Notable examples are wikipedia.org, google.com, and amazon.com.

A website may be accessible via a public Internet Protocol (IP) network, such as the Internet, or a private local area network (LAN), by referencing a uniform resource locator (URL) that identifies the site.

Websites can have many functions and can be used in various fashions; a website can be a personal website, a corporate website for a company, a government website, an organization website, etc. Websites are typically dedicated to a particular topic or purpose, ranging from entertainment and social networking to providing news and education. All publicly accessible websites collectively constitute the World Wide Web, while private websites, such as a company's website for its employees, are typically a part of an intranet.

Web pages, which are the building blocks of websites, are documents, typically composed in plain text interspersed with formatting instructions of Hypertext Markup Language (HTML, XHTML). They may incorporate elements from other websites with suitable markup anchors. Web pages are accessed and transported with the Hypertext Transfer Protocol (HTTP), which may optionally employ encryption (HTTP Secure, HTTPS) to provide security and privacy for the user. The user's application, often a web browser, renders the page content according to its HTML markup instructions onto a display terminal.

Hyperlinking between web pages conveys to the reader the site structure and guides the navigation of the site, which often starts with a home page containing a directory of the site web content. Some websites require user registration or subscription to access content. Examples of subscription websites include many business sites, news websites, academic journal websites, gaming websites, file-sharing websites, message boards, web-based email, social networking websites, websites providing real-time price quotations for different types of markets, as well as sites providing various other services. End users can access websites on a range of devices, including desktop and laptop computers, tablet computers, smartphones and smart TVs.

Browser

[edit]

Main article: Web browser

A *web browser* (commonly referred to as a *browser*) is a software user agent for accessing information on the World Wide Web. To connect to a website's server and display its pages, a user needs to have a web browser program. This is the program that the user runs to download, format, and display a web page on the user's computer.

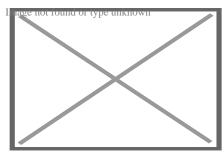
In addition to allowing users to find, display, and move between web pages, a web browser will usually have features like keeping bookmarks, recording history, managing cookies (see below), and home pages and may have facilities for recording passwords for logging into websites.

The most popular browsers are Chrome, Safari, Edge, Samsung Internet and Firefox.[51]

Server

[edit]

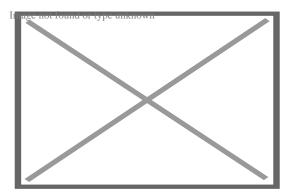
Main article: Web server



The inside and front of a Dell PowerEdge web server, a computer designed for rack mounting

A *Web server* is server software, or hardware dedicated to running said software, that can satisfy World Wide Web client requests. A web server can, in general, contain one or more websites. A web server processes incoming network requests over HTTP and several other related protocols.

The primary function of a web server is to store, process and deliver web pages to clients.[52] The communication between client and server takes place using the Hypertext Transfer Protocol (HTTP). Pages delivered are most frequently HTML documents, which may include images, style sheets and scripts in addition to the text content.



Multiple web servers may be used for a high traffic website; here, Dell servers are installed together to be used for the Wikimedia Foundation.

A user agent, commonly a web browser or web crawler, initiates communication by making a request for a specific resource using HTTP and the server responds with the content of that resource or an error message if unable to do so. The resource is typically a real file on the

server's secondary storage, but this is not necessarily the case and depends on how the webserver is implemented.

While the primary function is to serve content, full implementation of HTTP also includes ways of receiving content from clients. This feature is used for submitting web forms, including uploading of files.

Many generic web servers also support server-side scripting using Active Server Pages (ASP), PHP (Hypertext Preprocessor), or other scripting languages. This means that the behaviour of the webserver can be scripted in separate files, while the actual server software remains unchanged. Usually, this function is used to generate HTML documents dynamically ("on-the-fly") as opposed to returning static documents. The former is primarily used for retrieving or modifying information from databases. The latter is typically much faster and more easily cached but cannot deliver dynamic content.

Web servers can also frequently be found embedded in devices such as printers, routers, webcams and serving only a local network. The web server may then be used as a part of a system for monitoring or administering the device in question. This usually means that no additional software has to be installed on the client computer since only a web browser is required (which now is included with most operating systems).

Optical Networking

[edit]

Optical networking is a sophisticated infrastructure that utilizes optical fiber to transmit data over long distances, connecting countries, cities, and even private residences. The technology uses optical microsystems like tunable lasers, filters, attenuators, switches, and wavelength-selective switches to manage and operate these networks.[53][54]

The large quantity of optical fiber installed throughout the world at the end of the twentieth century set the foundation of the Internet as it's used today. The information highway relies heavily on optical networking, a method of sending messages encoded in light to relay information in various telecommunication networks.[55]

The Advanced Research Projects Agency Network (ARPANET) was one of the first iterations of the Internet, created in collaboration with universities and researchers 1969.[56][57][58][59] However, access to the ARPANET was limited to researchers, and in 1985, the National Science Foundation founded the National Science Foundation Network (NSFNET), a program that provided supercomputer access to researchers.[59]

Limited public access to the Internet led to pressure from consumers and corporations to privatize the network. In 1993, the US passed the National Information Infrastructure Act, which dictated that the National Science Foundation must hand over control of the optical capabilities to commercial operators.[60][61]

The privatization of the Internet and the release of the World Wide Web to the public in 1993 led to an increased demand for Internet capabilities. This spurred developers to seek solutions to reduce the time and cost of laying new fiber and increase the amount of information that can be sent on a single fiber, in order to meet the growing needs of the public.[62][63][64][65]

In 1994, Pirelli S.p.A.'s optical components division introduced a wavelength-division multiplexing (WDM) system to meet growing demand for increased data transmission. This four-channel WDM technology allowed more information to be sent simultaneously over a single optical fiber, effectively boosting network capacity.[66][67]

Pirelli wasn't the only company that developed a WDM system; another company, the Ciena Corporation (Ciena), created its own technology to transmit data more efficiently. David Huber, an optical networking engineer and entrepreneur Kevin Kimberlin founded Ciena in 1992.[68][69][70] Drawing on laser technology from Gordon Gould and William Culver of Optelecom, Inc., the company focused on utilizing optical amplifiers to transmit data via light.[71][72][73] Under chief executive officer Pat Nettles, Ciena developed a dual-stage optical amplifier for dense wavelength-division multiplexing (DWDM), patented in 1997 and deployed on the Sprint network in 1996.[74][75][76][77][78]

Cookie

[edit]

Main article: HTTP cookie

An *HTTP cookie* (also called *web cookie*, *Internet cookie*, *browser cookie*, or simply *cookie*) is a small piece of data sent from a website and stored on the user's computer by the user's web browser while the user is browsing. Cookies were designed to be a reliable mechanism for websites to remember stateful information (such as items added in the shopping cart in an online store) or to record the user's browsing activity (including clicking particular buttons, logging in, or recording which pages were visited in the past). They can also be used to remember arbitrary pieces of information that the user previously entered into form fields such as names, addresses, passwords, and credit card numbers.

Cookies perform essential functions in the modern web. Perhaps most importantly, *authentication cookies* are the most common method used by web servers to know whether the user is logged in or not, and which account they are logged in with. Without such a mechanism, the site would not know whether to send a page containing sensitive information or require the user to authenticate themselves by logging in. The security of an authentication cookie generally depends on the security of the issuing website and the user's web browser, and on whether the cookie data is encrypted. Security vulnerabilities may allow a cookie's data to be read by a hacker, used to gain access to user data, or used to gain access (with the user's credentials) to the website to which the cookie belongs (see cross-site scripting and cross-site request forgery for examples).[79]

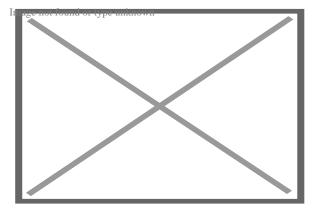
Tracking cookies, and especially third-party tracking cookies, are commonly used as ways to compile long-term records of individuals' browsing histories – a potential privacy concern that prompted European[80] and U.S. lawmakers to take action in 2011.[81][82] European law requires that all websites targeting European Union member states gain "informed consent" from users before storing non-essential cookies on their device.

Google Project Zero researcher Jann Horn describes ways cookies can be read by intermediaries, like Wi-Fi hotspot providers. When in such circumstances, he recommends using the browser in private browsing mode (widely known as Incognito mode in Google Chrome).[83]

Search engine

[edit]

Main article: Search engine



The results of a search for the term "lunar eclipse" in a web-based image search engine

A web search engine or Internet search engine is a software system that is designed to carry out web search (Internet search), which means to search the World Wide Web in a systematic way for particular information specified in a web search query. The search results are generally presented in a line of results, often referred to as search engine results pages (SERPs). The information may be a mix of web pages, images, videos, infographics, articles, research papers, and other types of files. Some search engines also mine data available in databases or open directories. Unlike web directories, which are maintained only by human editors, search engines also maintain real-time information by running an algorithm on a web crawler. Internet content that is not capable of being searched by a web search engine is generally described as the deep web.

In 1990, Archie, the world's first search engine, was released. The technology was originally an index of File Transfer Protocol (FTP) sites, which was a method for moving files between a client and a server network.[84][85] This early search tool was superseded by more advanced engines like Yahoo! in 1995 and Google in 1998.[86][87]

Deep web

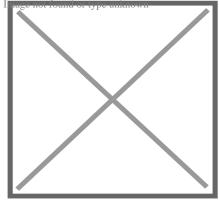




Deep web diagram



Deep web vs surface web



Surface Web & Deep Web Main article: Deep web

The deep web,[88] *invisible web*,[89] or *hidden web*[90] are parts of the World Wide Web whose contents are not indexed by standard web search engines. The opposite term to the deep web is the surface web, which is accessible to anyone using the Internet.[91] Computer scientist Michael K. Bergman is credited with coining the term *deep web* in 2001 as a search indexing term.[92]

The content of the deep web is hidden behind HTTP forms,[93][94] and includes many very common uses such as web mail, online banking, and services that users must pay for, and which is protected by a paywall, such as video on demand, some online magazines and newspapers, among others.

The content of the deep web can be located and accessed by a direct URL or IP address and may require a password or other security access past the public website page.

Caching

[edit]

A web cache is a server computer located either on the public Internet or within an enterprise that stores recently accessed web pages to improve response time for users when the same content is requested within a certain time after the original request. Most web browsers also implement a browser cache by writing recently obtained data to a local data storage device. HTTP requests by a browser may ask only for data that has changed since the last access. Web pages and resources may contain expiration information to control caching to secure sensitive data, such as in online banking, or to facilitate frequently updated sites, such as news media. Even sites with highly dynamic content may permit basic resources to be refreshed only occasionally. Web site designers find it worthwhile to collate resources such as CSS data and JavaScript into a few sitewide files so that they can be cached efficiently. Enterprise firewalls often cache Web resources requested by one user for the benefit of many users. Some search engines store cached content of frequently accessed websites.

Security

[edit]

For criminals, the Web has become a venue to spread malware and engage in a range of cybercrime, including (but not limited to) identity theft, fraud, espionage, and intelligence gathering.[95] Web-based vulnerabilities now outnumber traditional computer security concerns,[96][97] and as measured by Google, about one in ten web pages may contain malicious code.[98] Most web-based attacks take place on legitimate websites, and most, as measured by Sophos, are hosted in the United States, China and Russia.[99] The most common of all malware threats is SQL injection attacks against websites.[100] Through HTML and URIs, the Web was vulnerable to attacks like cross-site scripting (XSS) that came with the introduction of JavaScript[101] and were exacerbated to some degree by Web 2.0 and Ajax web design that favours the use of scripts.[102] In one 2007 estimate, 70% of all websites are open to XSS attacks on their users.[103] Phishing is another common threat to the Web. In February 2013, RSA (the security division of EMC) estimated the global losses from phishing at \$1.5 billion in 2012.[104] Two of the well-known phishing methods are Covert Redirect and Open Redirect.

Proposed solutions vary. Large security companies like McAfee already design governance and compliance suites to meet post-9/11 regulations,[105] and some, like Finjan Holdings have recommended active real-time inspection of programming code and all content regardless of its source.[95] Some have argued that for enterprises to see Web security as a business opportunity rather than a cost centre,[106] while others call for "ubiquitous, always-on digital rights management" enforced in the infrastructure to replace the hundreds of companies that secure data and networks.[107] Jonathan Zittrain has said users sharing responsibility for computing safety is far preferable to locking down the Internet.[108]

Privacy

[edit]

Main article: Internet privacy

Every time a client requests a web page, the server can identify the request's IP address. Web servers usually log IP addresses in a log file. Also, unless set not to do so, most web browsers record requested web pages in a viewable *history* feature, and usually cache much of the content locally. Unless the server-browser communication uses HTTPS encryption, web requests and responses travel in plain text across the Internet and can be viewed, recorded, and cached by intermediate systems. Another way to hide personally identifiable information is by using a virtual private network. A VPN encrypts traffic between the client and VPN server, and masks the original IP address, lowering the chance of user identification.

When a web page asks for, and the user supplies, personally identifiable information—such as their real name, address, e-mail address, etc. web-based entities can associate current web traffic with that individual. If the website uses HTTP cookies, username, and password authentication, or other tracking techniques, it can relate other web visits, before and after, to the identifiable information provided. In this way, a web-based organization can develop and build a profile of the individual people who use its site or sites. It may be able to build a record for an individual that includes information about their leisure activities, their shopping interests, their profession, and other aspects of their demographic profile. These profiles are of potential interest to marketers, advertisers, and others. Depending on the website's terms and conditions and the local laws that apply information from these profiles may be sold, shared, or passed to other organizations without the user being informed. For many ordinary people, this means little more than some unexpected emails in their inbox or some uncannily relevant advertising on a future web page. For others, it can mean that time spent indulging an unusual interest can result in a deluge of further targeted marketing that may be unwelcome. Law enforcement, counterterrorism, and espionage agencies can also identify, target, and track individuals based on their interests or proclivities on the Web.

Social networking sites usually try to get users to use their real names, interests, and locations, rather than pseudonyms, as their executives believe that this makes the social networking experience more engaging for users. On the other hand, uploaded photographs or unguarded statements can be identified to an individual, who may regret this exposure. Employers, schools, parents, and other relatives may be influenced by aspects of social networking profiles, such as text posts or digital photos, that the posting individual did not intend for these audiences. Online bullies may make use of personal information to harass or stalk users. Modern social networking websites allow fine-grained control of the privacy settings for each posting, but these can be complex and not easy to find or use, especially for beginners.[109] Photographs and videos posted onto websites have caused particular problems, as they can add a person's face to an online profile. With modern and potential facial recognition technology, it may then be possible to relate that face with other, previously anonymous, images, events, and scenarios that have been imaged elsewhere. Due to image caching, mirroring, and copying, it is difficult to remove an image from the World Wide Web.

Standards

[edit]

Main article: Web standards

Web standards include many interdependent standards and specifications, some of which govern aspects of the Internet, not just the World Wide Web. Even when not web-focused, such standards directly or indirectly affect the development and administration of websites and web services. Considerations include the interoperability, accessibility and usability of web pages and web sites.

Web standards, in the broader sense, consist of the following:

- Recommendations published by the World Wide Web Consortium (W3C)[110]
- "Living Standard" made by the Web Hypertext Application Technology Working Group (WHATWG)
- Request for Comments (RFC) documents published by the Internet Engineering Task Force (IETF)[111]
- Standards published by the International Organization for Standardization (ISO)[112]
- Standards published by Ecma International (formerly ECMA)[113]
- The Unicode Standard and various Unicode Technical Reports (UTRs) published by the Unicode Consortium[114]
- Name and number registries maintained by the Internet Assigned Numbers Authority (IANA)
 [115]

Web standards are not fixed sets of rules but are constantly evolving sets of finalized technical specifications of web technologies.[116] Web standards are developed by standards organizations—groups of interested and often competing parties chartered with the task of standardization—not technologies developed and declared to be a standard by a single individual or company. It is crucial to distinguish those specifications that are under development from the ones that already reached the final development status (in the case of W3C specifications, the highest maturity level).

Accessibility

[edit]

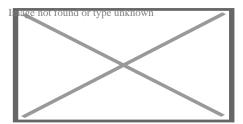
Main article: Web accessibility

There are methods for accessing the Web in alternative mediums and formats to facilitate use by individuals with disabilities. These disabilities may be visual, auditory, physical, speech-related, cognitive, neurological, or some combination. Accessibility features also help people with temporary disabilities, like a broken arm, or ageing users as their abilities change.[117] The Web is receiving information as well as providing information and interacting with society. The World Wide Web Consortium claims that it is essential that the Web be accessible, so it can provide equal access and equal opportunity to people with disabilities.[118] Tim Berners-Lee once noted, "The power of the Web is in its universality. Access by everyone regardless of disability is an essential aspect."[117] Many countries regulate web accessibility as a requirement for websites.[119] International co-operation in the W3C Web Accessibility Initiative led to simple guidelines that web content authors as well as software developers can use to make the Web accessible to

persons who may or may not be using assistive technology.[117][120]

Internationalisation

[edit]



A global map of the Web Index for countries in 2014

The W3C Internationalisation Activity assures that web technology works in all languages, scripts, and cultures.[121] Beginning in 2004 or 2005, Unicode gained ground and eventually in December 2007 surpassed both ASCII and Western European as the Web's most frequently used character map.[122] Originally RFC 3986 allowed resources to be identified by URI in a subset of US-ASCII.

RFC 3987 allows more characters—any character in the Universal Character Set—and now a resource can be identified by IRI in any language.[123]

See also

[edit]

- icon o Image Entrojine eting uportal
- o Image not found or type unknown
- World portal
- Decentralized web
- Electronic publishing
- Gopher (protocol), an early alternative to the WWW
- Internet metaphors
- Internet security
- Lists of websites
- o Minitel, a predecessor of the WWW
- Streaming media
- o Web 1.0
- o Web 2.0
- Web 3.0
- Web3

- Web3D
- Web development tools
- Web literacy

References

[edit]

- 1. * Wright, Edmund, ed. (2006). The Desk Encyclopedia of World History. New York: Oxford University Press. p. 312. ISBN 978-0-7394-7809-7.
- 2. ^ **a b c** "What is the difference between the Web and the Internet?". W3C Help and FAQ. W3C. 2009. Archived from the original on 9 July 2015. Retrieved 16 July 2015.
- 3. * "World Wide Web (WWW) launches in the public domain | April 30, 1993". HISTORY. Retrieved 21 January 2025.
- 4. ^ **a b c** Berners-Lee, Tim. "Information Management: A Proposal". w3.org. The World Wide Web Consortium. Archived from the original on 1 April 2010. Retrieved 12 February 2022.
- 5. * "The World's First Web Site". HISTORY. 30 August 2018. Archived from the original on 19 August 2023. Retrieved 19 August 2023.
- 6. A Bleigh, Michael (16 May 2014). "The Once And Future Web Platform". TechCrunch. Archived from the original on 5 December 2021. Retrieved 9 March 2022.
- 7. * "World Wide Web Timeline". Pews Research Center. 11 March 2014. Archived from the original on 29 July 2015. Retrieved 1 August 2015.
- 8. ^ Dewey, Caitlin (12 March 2014). "36 Ways The Web Has Changed Us". The Washington Post. Archived from the original on 9 September 2015. Retrieved 1 August 2015.
- 9. ^ **a b** "Internet Live Stats". internetlivestats.com. Archived from the original on 2 July 2015. Retrieved 1 August 2015.
- 10. ^ a b Quittner, Joshua (29 March 1999). "Network Designer Tim Berners-Lee". Time Magazine. Archived from the original on 15 August 2007. Retrieved 17 May 2010. "He wove the World Wide Web and created a mass medium for the 21st century. The World Wide Web is Berners-Lee's alone. He designed it. He set it loose it on the world. And he more than anyone else has fought to keep it an open, non-proprietary and free." [page needed]
- 11. ^ **a b** McPherson, Stephanie Sammartino (2009). Tim Berners-Lee: Inventor of the World Wide Web. Twenty-First Century Books. ISBN 978-0-8225-7273-2.
- A Rutter, Dorian (2005). From Diversity to Convergence: British Computer Networks and the Internet, 1970-1995 (PDF) (Computer Science thesis). The University of Warwick. Archived (PDF) from the original on 10 October 2022. Retrieved 27 December 2022.
- 13. ^ Tim Berners-Lee (1999). Weaving the Web. Internet Archive. HarperSanFrancisco. pp. 5—6. ISBN 978-0-06-251586-5.
- A Berners-Lee, T.; Cailliau, R.; Groff, J.-F.; Pollermann, B. (1992). "World-Wide Web: The Information Universe". Electron. Netw. Res. Appl. Policy. 2: 52–58. doi:10.1108/eb047254. ISSN 1066-2243. Archived from the original on 27 December 2022. Retrieved 27 December 2022.
- 15. ^ W3 (1991) Re: Qualifiers on Hypertext links Archived 7 December 2021 at the Wayback Machine

- 16. A Hopgood, Bob. "History of the Web". w3.org. The World Wide Web Consortium. Archived from the original on 21 March 2022. Retrieved 12 February 2022.
- 17. * "A short history of the Web". CERN. Archived from the original on 17 April 2022. Retrieved 15 April 2022.
- 18. * "Software release of WWW into public domain". CERN Document Server. CERN. 30 January 1993. Archived from the original on 17 February 2022. Retrieved 17 February 2022
- 19. * "Ten Years Public Domain for the Original Web Software". Tenyears-www.web.cern.ch. 30 April 2003. Archived from the original on 13 August 2009. Retrieved 27 July 2009.
- 20. ^ Calore, Michael (22 April 2010). "April 22, 1993: Mosaic Browser Lights Up Web With Color, Creativity". Wired. Archived from the original on 24 April 2018. Retrieved 12 February 2022.
- 21. ^ Couldry, Nick (2012). Media, Society, World: Social Theory and Digital Media Practice. London: Polity Press. p. 2. ISBN 9780745639208. Archived from the original on 27 February 2024. Retrieved 11 December 2020.
- 22. A Hoffman, Jay (21 April 1993). "The Origin of the IMG Tag". The History of the Web. Archived from the original on 13 February 2022. Retrieved 13 February 2022.
- 23. ^ Clarke, Roger. "The Birth of Web Commerce". Roger Clarke's Web-Site. XAMAX. Archived from the original on 15 February 2022. Retrieved 15 February 2022.
- 24. ^ McCullough, Brian. "20 YEARS ON: WHY NETSCAPE'S IPO WAS THE "BIG BANG" OF THE INTERNET ERA". www.internethistorypodcast.com. INTERNET HISTORY PODCAST. Archived from the original on 12 February 2022. Retrieved 12 February 2022.
- 25. ^ Calore, Michael (28 September 2009). "Sept. 28, 1998: Internet Explorer Leaves Netscape in Its Wake". Wired. Archived from the original on 30 November 2021. Retrieved 14 February 2022.
- 26. ^ Daly, Janet (26 January 2000). "World Wide Web Consortium Issues XHTML 1.0 as a Recommendation". W3C. Archived from the original on 20 June 2021. Retrieved 8 March 2022.
- 27. A Hickson, Ian. "WHAT open mailing list announcement". whatwg.org. WHATWG. Archived from the original on 8 March 2022. Retrieved 16 February 2022.
- 28. A Shankland, Stephen (9 July 2009). "An epitaph for the Web standard, XHTML 2". CNet. Archived from the original on 16 February 2022. Retrieved 17 February 2022.
- 29. * "Memorandum of Understanding Between W3C and WHATWG". W3C. Archived from the original on 29 May 2019. Retrieved 16 February 2022.
- 30. ^ In, Lee (30 June 2012). Electronic Commerce Management for Business Activities and Global Enterprises: Competitive Advantages: Competitive Advantages. IGI Global. ISBN 978-1-4666-1801-5. Archived from the original on 21 April 2024. Retrieved 27 September 2020.
- 31. ^ Misiroglu, Gina (26 March 2015). American Countercultures: An Encyclopedia of Nonconformists, Alternative Lifestyles, and Radical Ideas in U.S. History: An Encyclopedia of Nonconformists, Alternative Lifestyles, and Radical Ideas in U.S. History. Routledge. ISBN 978-1-317-47729-7. Archived from the original on 21 April 2024. Retrieved 27 September 2020.
- 32. * "World Wide Web Timeline". Pew Research Center. 11 March 2014. Archived from the original on 29 July 2015. Retrieved 1 August 2015.

- 33. * "Frequently asked questions Spelling of WWW". W3C. Archived from the original on 2 August 2009. Retrieved 27 July 2009.
- 34. ^ Castelluccio, Michael (1 October 2010). "It's not your grandfather's Internet". Strategic Finance. Institute of Management Accountants. Archived from the original on 5 March 2016. Retrieved 7 February 2016 via The Free Library.
- 35. A "Audible pronunciation of 'WWW". Oxford University Press. Archived from the original on 25 May 2014. Retrieved 25 May 2014.
- 36. A Harvey, Charlie (18 August 2015). "How we pronounce WWW in English: a detailed but unscientific survey". charlieharvey.org.uk. Archived from the original on 19 November 2022. Retrieved 19 May 2022.
- 37. * "Stephen Fry's pronunciation of 'WWW". Podcasts.com. Archived from the original on 4 April 2017.
- 38. ^ Simonite, Tom (22 July 2008). "Help us find a better way to pronounce www". newscientist.com. New Scientist, Technology. Archived from the original on 13 March 2016. Retrieved 7 February 2016.
- 39. ^ Muylle, Steve; Moenaert, Rudy; Despont, Marc (1999). "A grounded theory of World Wide Web search behaviour". Journal of Marketing Communications. **5** (3): 143. doi: 10.1080/135272699345644.
- 40. A Flanagan, David. JavaScript The definitive guide (6 ed.). p. 1. "JavaScript is part of the triad of technologies that all Web developers must learn: HTML to specify the content of web pages, CSS to specify the presentation of web pages, and JavaScript to specify the behaviour of web pages."
- 41. * "HTML 4.0 Specification W3C Recommendation Conformance: requirements and recommendations". World Wide Web Consortium. 18 December 1997. Archived from the original on 5 July 2015. Retrieved 6 July 2015.
- 42. * Berners-Lee, Tim; Cailliau, Robert (12 November 1990). "WorldWideWeb: Proposal for a HyperText Project". Archived from the original on 2 May 2015. Retrieved 12 May 2015.
- 43. A Berners-Lee, Tim. "Frequently asked questions by the Press". W3C. Archived from the original on 2 August 2009. Retrieved 27 July 2009.
- 44. A Palazzi, P (2011). "The Early Days of the WWW at CERN". Archived from the original on 23 July 2012.
- 45. * Fraser, Dominic (13 May 2018). "Why a domain's root can't be a CNAME and other tidbits about the DNS". FreeCodeCamp. Archived from the original on 21 April 2024. Retrieved 12 March 2019.
- 46. * "automatically adding www.___.com". mozillaZine. 16 May 2003. Archived from the original on 27 June 2009. Retrieved 27 May 2009.
- 47. * Masnick, Mike (7 July 2008). "Microsoft Patents Adding 'www.' And '.com' To Text". Techdirt. Archived from the original on 27 June 2009. Retrieved 27 May 2009.
- 48. ^ **a b** Hamilton, Naomi (31 July 2008). "The A-Z of Programming Languages: JavaScript". Computerworld. IDG. Archived from the original on 24 May 2009. Retrieved 12 May 2009.
- 49. A Buntin, Seth (23 September 2008). "jQuery Polling plugin". Archived from the original on 13 August 2009. Retrieved 22 August 2009.
- 50. * "website". The Free Dictionary.com. Archived from the original on 7 May 2018. Retrieved 2 July 2011.

- 51. A www.similarweb.com https://www.similarweb.com/browsers/. Retrieved 15 February 2025. cite web: Missing or empty |title= (help)
- 52. ^ Patrick, Killelea (2002). Web performance tuning (2nd ed.). Beijing: O'Reilly. p. 264. ISBN 978-0596001728. OCLC 49502686.
- 53. ^ Liu, Xiang (20 December 2019). "Evolution of Fiber-Optic Transmission and Networking toward the 5G Era". iScience. 22: 489–506. Bibcode:2019iSci...22..489L. doi: 10.1016/j.isci.2019.11.026. ISSN 2589-0042. PMC 6920305. PMID 31838439.
- 54. A Marom, Dan M. (1 January 2008), Gianchandani, Yogesh B.; Tabata, Osamu; Zappe, Hans (eds.), "3.07 Optical Communications", Comprehensive Microsystems, Oxford: Elsevier, pp. 219–265, doi:10.1016/b978-044452190-3.00035-5, ISBN 978-0-444-52190-3, retrieved 17 January 2025
- 55. ^ Chadha, Devi (2019). Optical WDM networks: from static to elastic networks. Hoboken, NJ: Wiley-IEEE Press. ISBN 978-1-119-39326-9.
- 56. * "The Computer History Museum, SRI International, and BBN Celebrate the 40th Anniversary of First ARPANET Transmission, Precursor to Today's Internet | SRI International". 29 March 2019. Archived from the original on 29 March 2019. Retrieved 21 January 2025.
- 57. * Markoff, John (24 January 1993). "Building the Electronic Superhighway". The New York Times. ISSN 0362-4331. Retrieved 21 January 2025.
- 58. ^ Abbate, Janet (2000). Inventing the Internet. Inside technology (3rd printing ed.). Cambridge, Mass.: MIT Press. ISBN 978-0-262-51115-5.
- 59. ^ **a b** www.merit.edu
 http://web.archive.org/web/20241106150721/https://www.merit.edu/wpcontent/uploads/2019/06/NSFNET_final-1.pdf. Archived from the original (PDF) on 6
 November 2024. Retrieved 21 January 2025. cite web: Missing or empty |title= (help)
- 60. A Rep. Boucher, Rick [D-VA-9 (14 September 1993). "H.R.1757 103rd Congress (1993-1994): National Information Infrastructure Act of 1993". www.congress.gov. Retrieved 23 January 2025.cite web: CS1 maint: numeric names: authors list (link)
- 61. * "NSF Shapes the Internet's Evolution | NSF National Science Foundation". new.nsf.gov. 25 July 2003. Retrieved 23 January 2025.
- A Radu, Roxana (7 March 2019), Radu, Roxana (ed.), "Privatization and Globalization of the Internet", Negotiating Internet Governance, Oxford University Press, pp. 75–112, doi: 10.1093/oso/9780198833079.003.0004, ISBN 978-0-19-883307-9, retrieved 23 January 2025
- 63. * "Birth of the Commercial Internet NSF Impacts | NSF National Science Foundation". new.nsf.gov. Retrieved 23 January 2025.
- 64. A Markoff, John (3 March 1997). "Fiber-Optic Technology Draws Record Stock Value". The New York Times. ISSN 0362-4331. Retrieved 23 January 2025.
- 65. A Paul Korzeniowski, "Record Growth Spurs Demand for Dense WDM -- Infrastructure Bandwidth Gears up for next Wave," CommunicationsWeek, no. 666 (June 2, 1997): T.40.
- 66. A Hecht, Jeff (1999). City of light: the story of fiber optics. The Sloan technology series. New York: Oxford University Press. ISBN 978-0-19-510818-7.
- 67. * "Cisco to Acquire Pirelli DWDM Unit for \$2.15 Billion". www.fiberopticsonline.com. Retrieved 31 January 2025.

- 68. A Hirsch, Stacey (February 2, 2006). "Huber steps down as CEO of Broadwing". The Baltimore Sun.
- 69. ^ "Dr. David Huber". History of the Internet. Retrieved 3 February 2025.
- 70. A "Internet Commercialization History". History of the Internet. Retrieved 3 February 2025.
- 71. * "May 17, 1993, page 76 The Baltimore Sun at Baltimore Sun". Newspapers.com. Retrieved 3 February 2025.
- 72. ^ Hall, Carla. "Inventor Beams over Laser PatentsÃf¢Ã¢â€šÂ¬Ã,Â⁻: After 30 Years, Gordon Gould Gets Credit He Deserves." Los Angeles Times, Los Angeles Times, 17 Dec. 1987.
- 73. ^ Chang, Kenneth (20 September 2005). "Gordon Gould, 85, Figure in Invention of the Laser, Dies". The New York Times. ISSN 0362-4331. Retrieved 3 February 2025.
- 74. ^ Carroll, Jim (12 December 2024). "Patrick Nettles Steps Down as Executive Chair of Ciena". Converge Digest. Retrieved 3 February 2025.
- 75. * US5696615A, Alexander, Stephen B., "Wavelength division multiplexed optical communication systems employing uniform gain optical amplifiers", issued 1997-12-09
- 76. A Hecht, Jeff (2004). City of light: the story of fiber optics. The Sloan technology series (Rev. and expanded ed., 1. paperback [ed.] ed.). Oxford: Oxford Univ. Press. ISBN 978-0-19-510818-7.
- 77. ^ "Optica Publishing Group". opg.optica.org. Retrieved 3 February 2025.
- 78. * "Sprint boots some users off 'Net ProQuest". www.proquest.com. ProQuest 215944575.

 Retrieved 3 February 2025.
- 79. ^ Vamosi, Robert (14 April 2008). "Gmail cookie stolen via Google Spreadsheets".

 News.cnet.com. Archived from the original on 9 December 2013. Retrieved 19 October 2017.
- 80. * "What about the "EU Cookie Directive"?". WebCookies.org. 2013. Archived from the original on 11 October 2017. Retrieved 19 October 2017.
- 81. * "New net rules set to make cookies crumble". BBC. 8 March 2011. Archived from the original on 10 August 2018. Retrieved 18 February 2019.
- 82. * "Sen. Rockefeller: Get Ready for a Real Do-Not-Track Bill for Online Advertising".

 Adage.com. 6 May 2011. Archived from the original on 24 August 2011. Retrieved 18 February 2019.
- 83. A Want to use my wifi? Archived 4 January 2018 at the Wayback Machine, Jann Horn accessed 5 January 2018.
- 84. ^ Nguyen, Jennimai (10 September 2020). "Archie, the very first search engine, was released 30 years ago today". Mashable. Retrieved 4 February 2025.
- 85. A "What is File Transfer Protocol (FTP) meaning". Fortinet. Retrieved 4 February 2025.
- 86. A "Britannica Money". www.britannica.com. 4 February 2025. Retrieved 4 February 2025.
- 87. ^ Clark, Andrew (1 February 2008). "How Jerry's guide to the world wide web became Yahoo". The Guardian. ISSN 0261-3077. Retrieved 4 February 2025.
- 88. A Hamilton, Nigel (13 May 2024). "The Mechanics of a Deep Net Metasearch Engine". IADIS Digital Library: 1034–1036. ISBN 978-972-98947-0-1.
- 89. ^ Devine, Jane; Egger-Sider, Francine (July 2004). "Beyond google: the invisible web in the academic library". The Journal of Academic Librarianship. **30** (4): 265–269. doi: 10.1016/j.acalib.2004.04.010.

- 90. A Raghavan, Sriram; Garcia-Molina, Hector (11–14 September 2001). "Crawling the Hidden Web". 27th International Conference on Very Large Data Bases. Archived from the original on 17 August 2019. Retrieved 18 February 2019.
- 91. * "Surface Web". Computer Hope. Archived from the original on 5 May 2020. Retrieved 20 June 2018.
- 92. * Wright, Alex (22 February 2009). "Exploring a 'Deep Web' That Google Can't Grasp". The New York Times. Archived from the original on 1 March 2020. Retrieved 23 February 2009.
- 93. ^ Madhavan, J., Ko, D., Kot, Ãf…Ã,•., Ganapathy, V., Rasmussen, A., & Halevy, A. (2008). Google's deep web crawl. Proceedings of the VLDB Endowment, 1(2), 1241–52.
- 94. ^ Shedden, Sam (8 June 2014). "How Do You Want Me to Do It? Does It Have to Look like an Accident? an Assassin Selling a Hit on the Net; Revealed Inside the Deep Web". Sunday Mail. Archived from the original on 1 March 2020. Retrieved 5 May 2017.
- 95. ^ **a b** Ben-Itzhak, Yuval (18 April 2008). "Infosecurity 2008 New defence strategy in battle against e-crime". ComputerWeekly. Reed Business Information. Archived from the original on 4 June 2008. Retrieved 20 April 2008.
- 96. ^ Christey, Steve & Martin, Robert A. (22 May 2007). "Vulnerability Type Distributions in CVE (version 1.1)". MITRE Corporation. Archived from the original on 17 March 2013. Retrieved 7 June 2008.
- 97. * "Symantec Internet Security Threat Report: Trends for July—December 2007 (Executive Summary)" (PDF). Symantec Internet Security Threat Report. XIII. Symantec Corp.: 1–2 April 2008. Archived from the original (PDF) on 25 June 2008. Retrieved 11 May 2008.
- 98. * "Google searches web's dark side". BBC News. 11 May 2007. Archived from the original on 7 March 2008. Retrieved 26 April 2008.
- 99. * "Security Threat Report (Q1 2008)" (PDF). Sophos. Archived (PDF) from the original on 31 December 2013. Retrieved 24 April 2008.
- 100. * "Security threat report" (PDF). Sophos. July 2008. Archived (PDF) from the original on 31 December 2013. Retrieved 24 August 2008.
- 101. A Jeremiah Grossman; Robert "RSnake" Hansen; Petko "pdp" D. Petkov; Anton Rager; Seth Fogie (2007). Cross Site Scripting Attacks: XSS Exploits and Defense (PDF). Syngress, Elsevier Science & Technology. pp. 68–69, 127. ISBN 978-1-59749-154-9. Archived (PDF) from the original on 15 November 2024. Retrieved 23 January 2025.
- 102. A O'Reilly, Tim (30 September 2005). "What Is Web 2.0". O'Reilly Media. pp. 4–5. Archived from the original on 28 June 2012. Retrieved 4 June 2008. and AJAX web applications can introduce security vulnerabilities like "client-side security controls, increased attack surfaces, and new possibilities for Cross-Site Scripting (XSS)", in Ritchie, Paul (March 2007). "The security risks of AJAX/web 2.0 applications" (PDF). Infosecurity. Archived from the original (PDF) on 25 June 2008. Retrieved 6 June 2008. which cites Hayre, Jaswinder S. & Kelath, Jayasankar (22 June 2006). "Ajax Security Basics". SecurityFocus. Archived from the original on 15 May 2008. Retrieved 6 June 2008.
- 103. A Berinato, Scott (1 January 2007). "Software Vulnerability Disclosure: The Chilling Effect". CSO. CXO Media. p. 7. Archived from the original on 18 April 2008. Retrieved 7 June 2008.
- 104. * "2012 Global Losses From phishing Estimated At \$1.5 Bn". FirstPost. 20 February 2013. Archived from the original on 21 December 2014. Retrieved 25 January 2019.
- 105. A Prince, Brian (9 April 2008). "McAfee Governance, Risk and Compliance Business Unit". eWEEK. Ziff Davis Enterprise Holdings. Archived from the original on 21 April 2024.

- Retrieved 25 April 2008.
- 106. ^ Preston, Rob (12 April 2008). "Down To Business: It's Past Time To Elevate The Infosec Conversation". InformationWeek. United Business Media. Archived from the original on 14 April 2008. Retrieved 25 April 2008.
- 107. A Claburn, Thomas (6 February 2007). "RSA's Coviello Predicts Security Consolidation". InformationWeek. United Business Media. Archived from the original on 7 February 2009. Retrieved 25 April 2008.
- 108. A Duffy Marsan, Carolyn (9 April 2008). "How the iPhone is killing the 'Net". Network World. IDG. Archived from the original on 14 April 2008. Retrieved 17 April 2008.
- 109. A boyd, danah; Hargittai, Eszter (July 2010). "Facebook privacy settings: Who cares?". First Monday. 15 (8). doi:10.5210/fm.v15i8.3086.
- 110. * "W3C Technical Reports and Publications". W3C. Archived from the original on 15 July 2018. Retrieved 19 January 2009.
- 111. * "IETF RFC page". IETF. Archived from the original on 2 February 2009. Retrieved 19 January 2009.
- 112. * "Search for World Wide Web in ISO standards". ISO. Archived from the original on 4 March 2016. Retrieved 19 January 2009.
- 113. * "Ecma formal publications". Ecma. Archived from the original on 27 December 2017. Retrieved 19 January 2009.
- 114. * "Unicode Technical Reports". Unicode Consortium. Archived from the original on 2 January 2022. Retrieved 19 January 2009.
- 115. * "IANA home page". IANA. Archived from the original on 24 February 2011. Retrieved 19 January 2009.
- 116. * Sikos, Leslie (2011). Web standards Mastering HTML5, CSS3, and XML. Apress. ISBN 978-1-4302-4041-9. Archived from the original on 2 April 2015. Retrieved 12 March 2019.
- 117. ^ **a b c** "Web Accessibility Initiative (WAI)". World Wide Web Consortium. Archived from the original on 2 April 2009. Retrieved 7 April 2009.
- 118. * "Developing a Web Accessibility Business Case for Your Organization: Overview". World Wide Web Consortium. Archived from the original on 14 April 2009. Retrieved 7 April 2009.
- 119. * "Legal and Policy Factors in Developing a Web Accessibility Business Case for Your Organization". World Wide Web Consortium. Archived from the original on 5 April 2009. Retrieved 7 April 2009.
- 120. * "Web Content Accessibility Guidelines (WCAG) Overview". World Wide Web Consortium. Archived from the original on 1 April 2009. Retrieved 7 April 2009.
- 121. * "Internationalization (I18n) Activity". World Wide Web Consortium. Archived from the original on 16 April 2009. Retrieved 10 April 2009.
- 122. A Davis, Mark (5 April 2008). "Moving to Unicode 5.1". Archived from the original on 21 May 2009. Retrieved 10 April 2009.
- 123. A "World Wide Web Consortium Supports the IETF URI Standard and IRI Proposed Standard" (Press release). World Wide Web Consortium. 26 January 2005. Archived from the original on 7 February 2009. Retrieved 10 April 2009.

Further reading

[edit]

- Berners-Lee, Tim; Bray, Tim; Connolly, Dan; Cotton, Paul; Fielding, Roy; Jeckle, Mario; Lilley, Chris; Mendelsohn, Noah; Orchard, David; Walsh, Norman; Williams, Stuart (15 December 2004). "Architecture of the World Wide Web, Volume One". W3C. Version 20041215.
- o Berners-Lee, Tim (August 1996). "The World Wide Web: Past, Present and Future". W3C.
- Brügger, Niels, ed, Web25: Histories from the first 25 years of the World Wide Web (Peter Lang, 2017).
- Fielding, R.; Gettys, J.; Mogul, J.; Frystyk, H.; Masinter, L.; Leach, P.; Berners-Lee, T. (June 1999). "Hypertext Transfer Protocol – HTTP/1.1". Request For Comments 2616. Information Sciences Institute.
- Niels Brügger, ed. Web History (2010) 362 pages; Historical perspective on the World Wide Web, including issues of culture, content, and preservation.
- Polo, Luciano (2003). "World Wide Web Technology Architecture: A Conceptual Analysis".
 New Devices.
- o Skau, H.O. (March 1990). "The World Wide Web and Health Information". New Devices.

External links

[edit]

mage not found or type unknown

Wikimedia Commons has media related to World Wide Web.



Wikibooks has a book on the topic of: Nets, Webs and the Information Infrastructure

- The first website
- Early archive of the first Web site
- Internet Statistics: Growth and Usage of the Web and the Internet
- Living Internet A comprehensive history of the Internet, including the World Wide Web
- World Wide Web Consortium (W3C)
- W3C Recommendations Reduce "World Wide Wait"
- World Wide Web Size Daily estimated size of the World Wide Web
- Antonio A. Casilli, Some Elements for a Sociology of Online Interactions
- The ErdÃf…ââ,¬Ëœs Webgraph Server Archived 1 March 2021 at the Wayback Machine offers weekly updated graph representation of a constantly increasing fraction of the WWW
- The 25th Anniversary of the World Wide Web Archived 11 July 2021 at the Wayback Machine is an animated video produced by USAID and TechChange which explores the role of the WWW in addressing extreme poverty

Telecommunications

- o Beacon
- Broadcasting
- Cable protection system
- Cable TV
- Communications satellite
- Computer network
- Data compression
 - audio
 - o DCT
 - image
 - o video
- Digital media
 - Internet video
 - o online video platform
 - o social media
 - streaming
- o Drums
- Edholm's law
- Electrical telegraph
- o Fax
- Heliographs
- Hydraulic telegraph
- Information Age
- Information revolution
- Internet
- Mass media
- Mobile phone
 - Smartphone
- Optical telecommunication
- Optical telegraphy
- Pager
- Photophone
- Prepaid mobile phone
- o Radio
- Radiotelephone
- Satellite communications
- Semaphore
 - Phryctoria
- Semiconductor
 - o device
 - MOSFET
 - o transistor
- Smoke signals
- Telecommunications history
- Telautograph
- Telegraphy
- Teleprinter (teletype)
- Telephone



- Nasir Ahmed
- Edwin Howard Armstrong
- Mohamed M. Atalla
- John Logie Baird
- o Paul Baran
- John Bardeen
- Alexander Graham Bell
- Emile Berliner
- Tim Berners-Lee
- Francis Blake
- Jagadish Chandra Bose
- Charles Bourseul
- Walter Houser Brattain
- Vint Cerf
- Claude Chappe
- Yogen Dalal
- Donald Davies
- Daniel Davis Jr.
- Amos Dolbear
- Thomas Edison
- Philo Farnsworth
- Reginald Fessenden
- Lee de Forest
- Elisha Gray
- Oliver Heaviside
- Robert Hooke
- Erna Schneider Hoover
- Harold Hopkins
- Gardiner Greene Hubbard
- Bob Kahn
- Dawon Kahng
- o Charles K. Kao
- Narinder Singh Kapany
- Hedy Lamarr
- Roberto Landell
- Innocenzo Manzetti
- Guglielmo Marconi
- Robert Metcalfe
- Antonio Meucci
- Samuel Morse
- Jun-ichi Nishizawa
- Charles Grafton Page
- Radia Perlman
- Alexander Stepanovich Popov
- Tivadar Puskás
- Johann Philipp Reis
- Claude Shannon
- Almon Brown Strowger
- 11 0 "

Pioneers

Coaxial cable

- Fiber-optic communication
 - optical fiber
- Free-space optical communication
- Molecular communication
- Radio waves
 - o wireless
- Transmission line
 - telecommunication circuit

Bandwidth

- Links
- Network switching
 - o circuit
 - packet
- Nodes
 - terminal
- Telephone exchange

Space-division

- Frequency-division
- Time-division
- Polarization-division
- o Orbital angular-momentum
- Code-division

Communication protocol

- Computer network
- Data transmission
- Store and forward
- o Telecommunications equipment

Network topology and switching

Transmission

media

Multiplexing

Concepts

- Cellular network
- Ethernet
- o ISDN
- o LAN
- Mobile
- o NGN

Types of network

- Public Switched Telephone
- Radio
- Television
- Telex
- UUCP
- WAN
- Wireless network
- ARPANET
- **OBITNET**
- CYCLADES
- FidoNet
- **Notable networks**
- Internet
- Internet2
- JANET
- NPL network
- Toasternet
- Usenet
- Africa
- Americas
 - North
 - South
- Locations
- Antarctica
- Asia
- Europe
- o Oceania
- o Global telecommunications regulation bodies
- o **Marelecommunication** portal
- o mag Cattegory ype unknown
- o magoottime or type unknown
- o maconfilmonspe unknown

- 0 **V**
- ot
- 0 0

Web syndication

History

- Blogging
- **Podcasting**
- Vlogging
- Web syndication technology
 - o Art
 - o Bloggernacle
 - Classical music
 - Corporate
 - Dream diary
 - Edublog
 - Electronic journal
 - o Fake
 - Family
 - Fashion
 - Food
- **Types**
- Health
- Law
- Lifelog
- o MP3
- News
- Photoblog
- Police
- Political
- Project
- Reverse
- Travel
- Warblog

BitTorrent General Feed URI scheme Linkback Permalink Ping Pingback **Features** Reblogging Refback Rollback Trackback Thread Geotagging Mechanism RSS enclosure Synchronization Atom feed o Data feed Photofeed **Memetics Technology** Product feed RDF feed Web feed o GeoRSS RSS MRSS o RSS TV Inter-process communication Mashup Referencing Social RSS editor RSS tracking Streaming media o OPML

Standard

- RSS Advisory Board
- Usenet
- World Wide Web
- o XBEL
- o 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

- Carnivals
- Fiction
- Journalism
 - Citizen
 - Database
- Online diary
- Search engines
- Sideblog
- Software
- Web directory
- Aggregation
 - News
 - o Poll
 - Review
 - Search
 - Video
- Atom
- AtomPub
- Broadcatching
- Hashtag
- NewsML
 - 0 1
 - o G2
- Social communication
- Social software
- Web Slice
- Blogosphere
- Escribitionist
- Glossary of blogging
- Pay per click
- Posting style
- Slashdot effect
- Spam in blogs
- Uses of podcasting

Media

Micromedia

Related

Alternative media

Semantic Web

- Databases
- Hypertext
- Internet
- **Background**
- Ontologies
- Semantics
- Semantic networks
- World Wide Web
- Dataspaces
- **Sub-topics**
- Hyperdata
- Linked data
- Rule-based systems
- Semantic analytics
- Semantic broker
- Semantic computing
- Semantic mapper
- Semantic matching
- Applications Semantic publishing
 - Semantic reasoner
 - Semantic search
 - Semantic service-oriented architecture
 - Semantic wiki
 - Solid

- o Collective intelligence
- Description logic
- Folksonomy
- Geotagging
- Information architecture
- o iXBRL
- Knowledge extraction
- Knowledge management
- Knowledge representation and reasoning
- - Digital library
 - Digital humanities
 - Metadata
 - References
 - Topic map
 - o Web 2.0
 - Web engineering
 - Web Science Trust

Standards	Syntax and supporting technologies	 HTTP IRI URI RDF triples RDF/XML JSON-LD Turtle TriG Notation3 N-Triples TriX (no W3C standard) RRID SPARQL XML Semantic HTML
	Schemas, ontologies and rules	 Common Logic OWL RDFS Rule Interchange Format Semantic Web Rule Language ALPS SHACL
	Semantic annotation	 eRDF GRDDL Microdata Microformats RDFa SAWSDL Facebook Platform
	Common vocabularies	 DOAP Dublin Core FOAF Schema.org SIOC SKOS
	Microformat vocabularies	hAtomhCalendarhCardhProduct

hRecipe

Authority control databases Edit this at Wikidata

International • FAST

Germany

United States

France

o BnF data

Czech Republic

SpainLatvia

Israel

• NARA

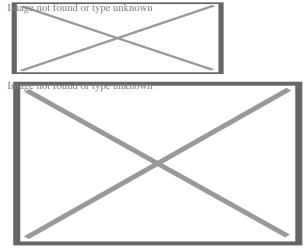
About Google Search

National

Other

"Google.com" redirects here. For the company itself, see Google.

Google Search



Google Search on desktop

Type of site Web search engine

Available in 149 languages

Owner Google

Revenue Google Ads

URL google.com mage not found artype unknown Edit this at Wikidata

IPv6 support Yes[1]
Commercial Yes

Registration Optional

Launched • 1995; 30 years ago (first prototype)

1997; 28 years ago (final launch)

Current status Online

Python

Written in • C

o C++[2]

Google Search (also known simply as **Google** or **Google.com**) is a search engine operated by Google. It allows users to search for information on the Web by entering keywords or phrases. Google Search uses algorithms to analyze and rank websites based on their relevance to the search query. It is the most popular search engine worldwide.

Google Search is the most-visited website in the world. As of 2020, Google Search has a 92% share of the global search engine market.[3] Approximately 26.75% of Google's monthly global traffic comes from the United States, 4.44% from India, 4.4% from Brazil, 3.92% from the United Kingdom and 3.84% from Japan according to data provided by Similarweb.[4]

The order of search results returned by Google is based, in part, on a priority rank system called "PageRank". Google Search also provides many different options for customized searches, using symbols to include, exclude, specify or require certain search behavior, and offers specialized interactive experiences, such as flight status and package tracking, weather forecasts, currency, unit, and time conversions, word definitions, and more.

The main purpose of Google Search is to search for text in publicly accessible documents offered by web servers, as opposed to other data, such as images or data contained in databases. It was originally developed in 1996 by Larry Page, Sergey Brin, and Scott Hassan.[5][6][7] The search engine would also be set up in the garage of Susan Wojcicki's Menlo Park home.[8] In 2011, Google introduced "Google Voice Search" to search for spoken, rather than typed, words.[9] In 2012, Google introduced a semantic search feature named Knowledge Graph.

Analysis of the frequency of search terms may indicate economic, social and health trends.[10] Data about the frequency of use of search terms on Google can be openly inquired via Google Trends and have been shown to correlate with flu outbreaks and unemployment levels, and provide the information faster than traditional reporting methods and surveys. As of mid-2016, Google's search engine has begun to rely on deep neural networks.[11]

In August 2024, a US judge in Virginia ruled that Google's search engine held an illegal monopoly over Internet search.[12][13] The court found that Google maintained its market dominance by paying large amounts to phone-makers and browser-developers to make Google its default search engine.[13]

Search indexing

[edit]

See also: Googlebot

Google indexes hundreds of terabytes of information from web pages.[14] For websites that are currently down or otherwise not available, Google provides links to cached versions of the site, formed by the search engine's latest indexing of that page.[15] Additionally, Google indexes some file types, being able to show users PDFs, Word documents, Excel spreadsheets, PowerPoint presentations, certain Flash multimedia content, and plain text files.[16] Users can also activate "SafeSearch", a filtering technology aimed at preventing explicit and pornographic content from appearing in search results.[17]

Despite Google search's immense index, sources generally assume that Google is only indexing less than 5% of the total Internet, with the rest belonging to the deep web, inaccessible through its search tools.[14][18][19]

In 2012, Google changed its search indexing tools to demote sites that had been accused of piracy.[20] In October 2016, Gary Illyes, a webmaster trends analyst with Google, announced that the search engine would be making a separate, primary web index dedicated for mobile devices, with a secondary, less up-to-date index for desktop use. The change was a response to the continued growth in mobile usage, and a push for web developers to adopt a mobile-friendly version of their websites.[21][22] In December 2017, Google began rolling out the change, having already done so for multiple websites.[23]

"Caffeine" search architecture upgrade

[edit]

In August 2009, Google invited web developers to test a new search architecture, codenamed "Caffeine", and give their feedback. The new architecture provided no visual differences in the user interface, but added significant speed improvements and a new "under-the-hood" indexing infrastructure. The move was interpreted in some quarters as a response to Microsoft's recent release of an upgraded version of its own search service, renamed Bing, as well as the launch of Wolfram Alpha, a new search engine based on "computational knowledge".[24][25] Google announced completion of "Caffeine" on June 8, 2010, claiming 50% fresher results due to continuous updating of its index.[26]

With "Caffeine", Google moved its back-end indexing system away from MapReduce and onto Bigtable, the company's distributed database platform.[27][28]

"Medic" search algorithm update

[edit]

In August 2018, Danny Sullivan from Google announced a broad core algorithm update. As per current analysis done by the industry leaders Search Engine Watch and Search Engine Land, the update was to drop down the medical and health-related websites that were not user friendly and were not providing good user experience. This is why the industry experts named it "Medic".[29]

Google reserves very high standards for YMYL (Your Money or Your Life) pages. This is because misinformation can affect users financially, physically, or emotionally. Therefore, the update targeted particularly those YMYL pages that have low-quality content and misinformation. This resulted in the algorithm targeting health and medical-related websites more than others. However, many other websites from other industries were also negatively affected.[30]

Search results

[edit]

Ranking of results

[edit]

By 2012, it handled more than 3.5 billion searches per day.[31] In 2013 the European Commission found that Google Search favored Google's own products, instead of the best result for consumers' needs.[32] In February 2015 Google announced a major change to its mobile search algorithm which would favor mobile friendly over other websites. Nearly 60% of Google searches come from mobile phones. Google says it wants users to have access to premium quality websites. Those websites which lack a mobile-friendly interface would be ranked lower and it is expected that this update will cause a shake-up of ranks. Businesses who fail to update their websites accordingly could see a dip in their regular websites traffic.[33]

PageRank

[edit]

Main article: PageRank

Google's rise was largely due to a patented algorithm called PageRank which helps rank web pages that match a given search string.[34] When Google was a Stanford research project, it was nicknamed BackRub because the technology checks backlinks to determine a site's importance. Other keyword-based methods to rank search results, used by many search engines that were once more popular than Google, would check how often the search terms occurred in a page, or how strongly associated the search terms were within each resulting page. The PageRank algorithm instead analyzes human-generated links assuming that web pages linked from many important pages are also important. The algorithm computes a recursive score for pages, based

on the weighted sum of other pages linking to them. PageRank is thought to correlate well with human concepts of importance. In addition to PageRank, Google, over the years, has added many other secret criteria for determining the ranking of resulting pages. This is reported to comprise over 250 different indicators,[35][36] the specifics of which are kept secret to avoid difficulties created by scammers and help Google maintain an edge over its competitors globally.

PageRank was influenced by a similar page-ranking and site-scoring algorithm earlier used for RankDex, developed by Robin Li in 1996. Larry Page's patent for PageRank filed in 1998 includes a citation to Li's earlier patent. Li later went on to create the Chinese search engine Baidu in 2000.[37][38]

In a potential hint of Google's future direction of their Search algorithm, Google's then chief executive Eric Schmidt, said in a 2007 interview with the *Financial Times*: "The goal is to enable Google users to be able to ask the question such as 'What shall I do tomorrow?' and 'What job shall I take?' ".[39] Schmidt reaffirmed this during a 2010 interview with *The Wall Street Journal*: "I actually think most people don't want Google to answer their questions, they want Google to tell them what they should be doing next."[40]

Google optimization

[edit]

Main article: Search engine optimization

Because Google is the most popular search engine, many webmasters attempt to influence their website's Google rankings. An industry of consultants has arisen to help websites increase their rankings on Google and other search engines. This field, called search engine optimization, attempts to discern patterns in search engine listings, and then develop a methodology for improving rankings to draw more searchers to their clients' sites. Search engine optimization encompasses both "on page" factors (like body copy, title elements, H1 heading elements and image alt attribute values) and Off Page Optimization factors (like anchor text and PageRank). The general idea is to affect Google's relevance algorithm by incorporating the keywords being targeted in various places "on page", in particular the title element and the body copy (note: the higher up in the page, presumably the better its keyword prominence and thus the ranking). Too many occurrences of the keyword, however, cause the page to look suspect to Google's spam checking algorithms. Google has published guidelines for website owners who would like to raise their rankings when using legitimate optimization consultants.[41] It has been hypothesized, and, allegedly, is the opinion of the owner of one business about which there have been numerous complaints, that negative publicity, for example, numerous consumer complaints, may serve as well to elevate page rank on Google Search as favorable comments.[42] The particular problem addressed in *The New York Times* article, which involved DecorMyEyes, was addressed shortly thereafter by an undisclosed fix in the Google algorithm. According to Google, it was not the frequently published consumer complaints about DecorMyEyes which resulted in the high ranking but mentions on news websites of events which affected the firm such as legal actions against it. Google Search Console helps to check for websites that use duplicate or copyright content. [43]

"Hummingbird" search algorithm upgrade

[edit]

Main article: Google Hummingbird

In 2013, Google significantly upgraded its search algorithm with "Hummingbird". Its name was derived from the speed and accuracy of the hummingbird.[44] The change was announced on September 26, 2013, having already been in use for a month.[45] "Hummingbird" places greater emphasis on natural language queries, considering context and meaning over individual keywords.[44] It also looks deeper at content on individual pages of a website, with improved ability to lead users directly to the most appropriate page rather than just a website's homepage.[46] The upgrade marked the most significant change to Google search in years, with more "human" search interactions[47] and a much heavier focus on conversation and meaning.[44] Thus, web developers and writers were encouraged to optimize their sites with natural writing rather than forced keywords, and make effective use of technical web development for on-site navigation.[48]

Search results quality

[edit]

In 2023, drawing on internal Google documents disclosed as part of the United States v. Google LLC (2020) antitrust case, technology reporters claimed that Google Search was "bloated and overmonetized" [49] and that the "semantic matching" of search queries put advertising profits before quality. [50] Wired withdrew Megan Gray's piece after Google complained about alleged inaccuracies, while the author reiterated that «As stated in court, "A goal of Project Mercury was to increase commercial queries" ». [51]

In March 2024, Google announced a significant update to its core search algorithm and spam targeting, which is expected to wipe out 40 percent of all spam results.[52] On March 20th, it was confirmed that the roll out of the spam update was complete.[53]

Shopping search

[edit]

On September 10, 2024, the European-based EU Court of Justice found that Google held an illegal monopoly with the way the company showed favoritism to its shopping search, and could not avoid paying €2.4 billion.[54] The EU Court of Justice referred to Google's treatment of rival shopping searches as "discriminatory" and in violation of the Digital Markets Act.[54]

Interface

[edit]

Page layout

[edit]

At the top of the search page, the approximate result count and the response time two digits behind decimal is noted. Of search results, page titles and URLs, dates, and a preview text snippet for each result appears. Along with web search results, sections with images, news, and videos may appear. [55] The length of the previewed text snipped was experimented with in 2015 and 2017. [56][57]

Universal search

[edit]

"Universal search" was launched by Google on May 16, 2007, as an idea that merged the results from different kinds of search types into one. Prior to Universal search, a standard Google search would consist of links only to websites. Universal search, however, incorporates a wide variety of sources, including websites, news, pictures, maps, blogs, videos, and more, all shown on the same search results page.[58][59] Marissa Mayer, then-vice president of search products and user experience, described the goal of Universal search as "we're attempting to break down the walls that traditionally separated our various search properties and integrate the vast amounts of information available into one simple set of search results.[60]

In June 2017, Google expanded its search results to cover available job listings. The data is aggregated from various major job boards and collected by analyzing company homepages. Initially only available in English, the feature aims to simplify finding jobs suitable for each user. [61][62]

Rich snippets

[edit]

In May 2009, Google announced that they would be parsing website microformats to populate search result pages with "Rich snippets". Such snippets include additional details about results, such as displaying reviews for restaurants and social media accounts for individuals.[63]

In May 2016, Google expanded on the "Rich snippets" format to offer "Rich cards", which, similarly to snippets, display more information about results, but shows them at the top of the mobile website in a swipeable carousel-like format. [64] Originally limited to movie and recipe websites in the United States only, the feature expanded to all countries globally in 2017. [65]

Knowledge Graph

[edit]

Main article: Knowledge Graph

The Knowledge Graph is a knowledge base used by Google to enhance its search engine's results with information gathered from a variety of sources.[66] This information is presented to users in a box to the right of search results.[67] Knowledge Graph boxes were added to Google's search engine in May 2012,[66] starting in the United States, with international expansion by the end of the year.[68] The information covered by the Knowledge Graph grew significantly after launch, tripling its original size within seven months,[69] and being able to answer "roughly one-third" of the 100 billion monthly searches Google processed in May 2016.[70] The information is often used as a spoken answer in Google Assistant[71] and Google Home searches.[72] The Knowledge Graph has been criticized for providing answers without source attribution.[70]

Google Knowledge Panel

[edit]

A Google Knowledge Panel[73] is a feature integrated into Google search engine result pages, designed to present a structured overview of entities such as individuals, organizations, locations, or objects directly within the search interface. This feature leverages data from Google's Knowledge Graph,[74] a database that organizes and interconnects information about entities, enhancing the retrieval and presentation of relevant content to users.

The content within a Knowledge Panel[75] is derived from various sources, including Wikipedia and other structured databases, ensuring that the information displayed is both accurate and contextually relevant. For instance, querying a well-known public figure may trigger a Knowledge Panel displaying essential details such as biographical information, birthdate, and links to social media profiles or official websites.

The primary objective of the Google Knowledge Panel is to provide users with immediate, factual answers, reducing the need for extensive navigation across multiple web pages.

Personal tab

[edit]

In May 2017, Google enabled a new "Personal" tab in Google Search, letting users search for content in their Google accounts' various services, including email messages from Gmail and photos from Google Photos.[76][77]

Google Discover

[edit]

Google Discover, previously known as Google Feed, is a personalized stream of articles, videos, and other news-related content. The feed contains a "mix of cards" which show topics of interest

based on users' interactions with Google, or topics they choose to follow directly.[78] Cards include, "links to news stories, YouTube videos, sports scores, recipes, and other content based on what [Google] determined you're most likely to be interested in at that particular moment."[78] Users can also tell Google they're not interested in certain topics to avoid seeing future updates.

Google Discover launched in December 2016[79] and received a major update in July 2017.[80] Another major update was released in September 2018, which renamed the app from Google Feed to Google Discover, updated the design, and adding more features.[81]

Discover can be found on a tab in the Google app and by swiping left on the home screen of certain Android devices. As of 2019, Google will not allow political campaigns worldwide to target their advertisement to people to make them vote.[82]

AI Overviews

[edit]

At the 2023 Google I/O event in May, Google unveiled Search Generative Experience (SGE), an experimental feature in Google Search available through Google Labs which produces Algenerated summaries in response to search prompts.[83] This was part of Google's wider efforts to counter the unprecedented rise of generative AI technology, ushered by OpenAI's launch of ChatGPT, which sent Google executives to a panic due to its potential threat to Google Search.[84] Google added the ability to generate images in October.[85] At I/O in 2024, the feature was upgraded and renamed AI Overviews.[86]

"cheese not sticking to pizza"

Image not found or type unknown

Early Al Overview response to the problem of "cheese not sticking to pizza"

Al Overviews was rolled out to users in the United States in May 2024.[86] The feature faced public criticism in the first weeks of its rollout after errors from the tool went viral online. These included results suggesting users add glue to pizza or eat rocks,[87] or incorrectly claiming Barack Obama is Muslim.[88] Google described these viral errors as "isolated examples", maintaining that most Al Overviews provide accurate information.[87][89] Two weeks after the rollout of Al Overviews, Google made technical changes and scaled back the feature, pausing its use for some health-related queries and limiting its reliance on social media posts.[90] *Scientific American* has criticised the system on environmental grounds, as such a search uses 30 times

more energy than a conventional one.[91] It has also been criticized for condensing information from various sources, making it less likely for people to view full articles and websites. When it was announced in May 2024, Danielle Coffey, CEO of the News/Media Alliance was quoted as saying "This will be catastrophic to our traffic, as marketed by Google to further satisfy user queries, leaving even less incentive to click through so that we can monetize our content."[92]

In August 2024, Al Overviews were rolled out in the UK, India, Japan, Indonesia, Mexico and Brazil, with local language support.[93] On October 28, 2024, Al Overviews was rolled out to 100 more countries, including Australia and New Zealand.[94]

Al Mode

[edit]

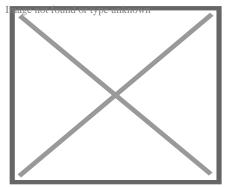
In March 2025, Google introduced an experimental "Al Mode" within its Search platform, enabling users to input complex, multi-part queries and receive comprehensive, Al-generated responses. This feature leverages Google's advanced Gemini 2.0 model, which enhances the system's reasoning capabilities and supports multimodal inputs, including text, images, and voice.

Initially, AI Mode is available to Google One AI Premium subscribers in the United States, who can access it through the Search Labs platform. This phased rollout allows Google to gather user feedback and refine the feature before a broader release.

The introduction of AI Mode reflects Google's ongoing efforts to integrate advanced AI technologies into its services, aiming to provide users with more intuitive and efficient search experiences.[95][96]

Redesigns

[edit]



Product Sans, Google's typeface since 2015

In late June 2011, Google introduced a new look to the Google homepage in order to boost the use of the Google+ social tools.[97]

One of the major changes was replacing the classic navigation bar with a black one. Google's digital creative director Chris Wiggins explains: "We're working on a project to bring you a new and improved Google experience, and over the next few months, you'll continue to see more updates to our look and feel."[98] The new navigation bar has been negatively received by a vocal minority.[99]

In November 2013, Google started testing yellow labels for advertisements displayed in search results, to improve user experience. The new labels, highlighted in yellow color, and aligned to the left of each sponsored link help users differentiate between organic and sponsored results.[100]

On December 15, 2016, Google rolled out a new desktop search interface that mimics their modular mobile user interface. The mobile design consists of a tabular design that highlights search features in boxes. and works by imitating the desktop Knowledge Graph real estate, which appears in the right-hand rail of the search engine result page, these featured elements frequently feature Twitter carousels, People Also Search For, and Top Stories (vertical and horizontal design) modules. The Local Pack and Answer Box were two of the original features of the Google SERP that were primarily showcased in this manner, but this new layout creates a previously unseen level of design consistency for Google results.[101]

Smartphone apps

[edit]

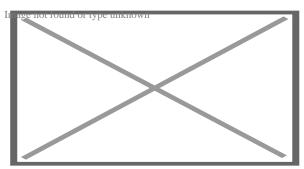
Google offers a "Google Search" mobile app for Android and iOS devices.[102] The mobile apps exclusively feature Google Discover and a "Collections" feature, in which the user can save for later perusal any type of search result like images, bookmarks or map locations into groups.[103] Android devices were introduced to a preview of the feed, perceived as related to Google Now, in December 2016,[104] while it was made official on both Android and iOS in July 2017.[105][106]

In April 2016, Google updated its Search app on Android to feature "Trends"; search queries gaining popularity appeared in the autocomplete box along with normal query autocompletion.[107] The update received significant backlash, due to encouraging search queries unrelated to users' interests or intentions, prompting the company to issue an update with an opt-out option.[108] In September 2017, the Google Search app on iOS was updated to feature the same functionality.[109]

In December 2017, Google released "Google Go", an app designed to enable use of Google Search on physically smaller and lower-spec devices in multiple languages. A Google blog post about designing "India-first" products and features explains that it is "tailor-made for the millions of people in [India and Indonesia] coming online for the first time".[110]

Performing a search

[edit]



A definition link is provided for many search terms.

Google Search consists of a series of localized websites. The largest of those, the google.com site, is the top most-visited website in the world.[111] Some of its features include a definition link for most searches including dictionary words, the number of results you got on your search, links to other searches (e.g. for words that Google believes to be misspelled, it provides a link to the search results using its proposed spelling), the ability to filter results to a date range,[112] and many more.

Search syntax

[edit]

Google search accepts queries as normal text, as well as individual keywords.[113] It automatically corrects apparent misspellings by default (while offering to use the original spelling as a selectable alternative), and provides the same results regardless of capitalization.[113] For more customized results, one can use a wide variety of operators, including, but not limited to:[114][115]

- OR or | Search for webpages containing one of two similar queries, such as marathon OR race
- o AND Search for webpages containing two similar queries, such as marathon AND runner
- (minus sign) Exclude a word or a phrase, so that "apple -tree" searches where word "tree" is not used
- o "" Force inclusion of a word or a phrase, such as "tallest building"
- * Placeholder symbol allowing for any substitute words in the context of the query, such as "largest * in the world"
- ∘ .. Search within a range of numbers, such as "camera \$50..\$100"
- o site: Search within a specific website, such as "site:youtube.com"
- o define: Search for definitions for a word or phrase, such as "define:phrase"
- o stocks: See the stock price of investments, such as "stocks:googl"
- related: Find web pages related to specific URL addresses, such as "related:www.wikipedia.org"
- cache: Highlights the search-words within the cached pages, so that "cache:www.google.com xxx" shows cached content with word "xxx" highlighted.
- o () Group operators and searches, such as (marathon OR race) AND shoes
- o filetype: or ext: Search for specific file types, such as filetype:gif

- o before: Search for before a specific date, such as spacex before: 2020-08-11
- o after: Search for after a specific date, such as iphone after: 2007-06-29
- @ Search for a specific word on social media networks, such as "@twitter"

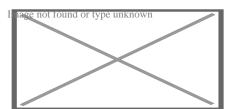
Google also offers a **Google Advanced Search** page with a web interface to access the advanced features without needing to remember the special operators.[116]

Query expansion

[edit]

Google applies query expansion to submitted search queries, using techniques to deliver results that it considers "smarter" than the query users actually submitted. This technique involves several steps, including:[117]

- Word <u>stemming</u> Certain words can be reduced so other, similar terms, are also found in results, so that "translator" can also search for "translation"
- Acronyms Searching for abbreviations can also return results about the name in its full length, so that "NATO" can show results for "North Atlantic Treaty Organization"
- Misspellings Google will often suggest correct spellings for misspelled words
- Synonyms In most cases where a word is incorrectly used in a phrase or sentence,
 Google search will show results based on the correct synonym
- Translations The search engine can, in some instances, suggest results for specific words in a different language
- Ignoring words In some search queries containing extraneous or insignificant words,
 Google search will simply drop those specific words from the query



A screenshot of suggestions by Google Search when "wikip" is typed

In 2008, Google started to give users autocompleted search suggestions in a list below the search bar while typing, originally with the approximate result count previewed for each listed search suggestion.[118]

"I'm Feeling Lucky"

[edit]

"I'm Feeling Lucky" redirects here. For the 2011 book by Douglas Edwards, see *I'm Feeling Lucky* (book).

Google's homepage includes a button labeled "I'm Feeling Lucky". This feature originally allowed users to type in their search query, click the button and be taken directly to the first result, bypassing the search results page. Clicking it while leaving the search box empty opens Google's archive of Doodles.[119] With the 2010 announcement of Google Instant, an automatic feature that immediately displays relevant results as users are typing in their query, the "I'm Feeling Lucky" button disappears, requiring that users opt-out of Instant results through search settings to keep using the "I'm Feeling Lucky" functionality.[120] In 2012, "I'm Feeling Lucky" was changed to serve as an advertisement for Google services; users hover their computer mouse over the button, it spins and shows an emotion ("I'm Feeling Puzzled" or "I'm Feeling Trendy", for instance), and, when clicked, takes users to a Google service related to that emotion.[121]

Tom Chavez of "Rapt", a firm helping to determine a website's advertising worth, estimated in 2007 that Google lost \$110 million in revenue per year due to use of the button, which bypasses the advertisements found on the search results page.[122]

Special interactive features

[edit]

See also: List of Google Easter eggs § Embedded tools

Besides the main text-based search-engine function of Google search, it also offers multiple quick, interactive features. These include, but are not limited to:[123][124][125]

- Calculator
- Time zone, currency, and unit conversions
- Word translations
- Flight status
- Local film showings
- Weather forecasts
- Population and unemployment rates
- Package tracking
- Word definitions
- Metronome
- o Roll a die
- "Do a barrel roll" (search page spins)
- "Askew" (results show up sideways)

"OK Google" conversational search

[edit]

See also: Google Now and Google Assistant

During Google's developer conference, Google I/O, in May 2013, the company announced that users on Google Chrome and ChromeOS would be able to have the browser initiate an audio-based search by saying "OK Google", with no button presses required. After having the answer

presented, users can follow up with additional, contextual questions; an example include initially asking "OK Google, will it be sunny in Santa Cruz this weekend?", hearing a spoken answer, and reply with "how far is it from here?"[126][127] An update to the Chrome browser with voice-search functionality rolled out a week later, though it required a button press on a microphone icon rather than "OK Google" voice activation.[128] Google released a browser extension for the Chrome browser, named with a "beta" tag for unfinished development, shortly thereafter.[129] In May 2014, the company officially added "OK Google" into the browser itself;[130] they removed it in October 2015, citing low usage, though the microphone icon for activation remained available.[131] In May 2016, 20% of search queries on mobile devices were done through voice.[132]

Operations

[edit]

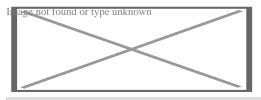
Search products

[edit]

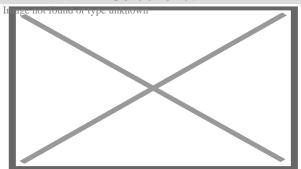
Main article: List of Google products

"Google Videos" redirects here. For other uses, see Google Videos (disambiguation).

Google Videos



Screenshot



Google Videos homepage as of 2016

Type of site Video search engine

Available in Multilingual

Owner Google

URL www.google.com/videohp

Commercial Yes

Registration Recommended

Launched August 20, 2012; 12 years ago

In addition to its tool for searching web pages, Google also provides services for searching images, Usenet newsgroups, news websites, videos (Google Videos), searching by locality, maps, and items for sale online. Google Videos allows searching the World Wide Web for video clips.[133] The service evolved from Google Video, Google's discontinued video hosting service that also allowed to search the web for video clips.[133]

In 2012, Google has indexed over 30 trillion web pages, and received 100 billion queries per month.[134] It also caches much of the content that it indexes. Google operates other tools and services including Google News, Google Shopping, Google Maps, Google Custom Search, Google Earth, Google Docs, Picasa (discontinued), Panoramio (discontinued), YouTube, Google Translate, Google Blog Search and Google Desktop Search (discontinued[135]).

There are also products available from Google that are not directly search-related. Gmail, for example, is a webmail application, but still includes search features; Google Browser Sync does not offer any search facilities, although it aims to organize your browsing time.

Energy consumption

[edit]

In 2009, Google claimed that a search query requires altogether about 1 kJ or 0.0003 kW·h,[136] which is enough to raise the temperature of one liter of water by 0.24 °C. According to green search engine Ecosia, the industry standard for search engines is estimated to be about 0.2 grams of CO₂ emission per search.[137] Google's 40,000 searches per second translate to 8 kg CO₂ per second or over 252 million kilos of CO₂ per year.[138]

Google Doodles

[edit]

Main article: Google Doodle

On certain occasions, the logo on Google's webpage will change to a special version, known as a "Google Doodle". This is a picture, drawing, animation, or interactive game that includes the logo. It is usually done for a special event or day although not all of them are well known.[139] Clicking on the Doodle links to a string of Google search results about the topic. The first was a reference to the Burning Man Festival in 1998,[140][141] and others have been produced for the birthdays of notable people like Albert Einstein, historical events like the interlocking Lego block's 50th anniversary and holidays like Valentine's Day.[142] Some Google Doodles have interactivity beyond a simple search, such as the famous "Google Pac-Man" version that appeared on May 21, 2010.

Criticism

[edit]

Privacy

[edit]

Main article: Privacy concerns regarding Google

Google has been criticized for placing long-term cookies on users' machines to store preferences, a tactic which also enables them to track a user's search terms and retain the data for more than a year.[143]

Since 2012, Google Inc. has globally introduced encrypted connections for most of its clients, to bypass governative blockings of the commercial and IT services.[144]

Complaints about indexing

[edit]

In 2003, *The New York Times* complained about Google's indexing, claiming that Google's caching of content on its site infringed its copyright for the content.[145] In both *Field v. Google* and *Parker v. Google*, the United States District Court of Nevada ruled in favor of Google.[146][147]

Child sexual abuse

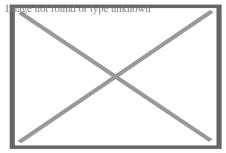
[edit]

[icon] This section **needs expansion**. You can help by making an edit requestadding to it . (May Image not 2024) type unknown

A 2019 New York Times article on Google Search showed that images of child sexual abuse had been found on Google and that the company had been reluctant at times to remove them.[148]

January 2009 malware bug

[edit]



A screenshot of the error of January 31, 2009

Google flags search results with the message "This site may harm your computer" if the site is known to install malicious software in the background or otherwise surreptitiously. For approximately 40 minutes on January 31, 2009, all search results were mistakenly classified as malware and could therefore not be clicked; instead a warning message was displayed and the user was required to enter the requested URL manually. The bug was caused by human error.[149][150][151][152] The URL of "/" (which expands to all URLs) was mistakenly added to the malware patterns file.[150][151]

Possible misuse of search results

[edit]

In 2007, a group of researchers observed a tendency for users to rely exclusively on Google Search for finding information, writing that "With the Google interface the user gets the impression that the search results imply a kind of totality. ... In fact, one only sees a small part of what one could see if one also integrates other research tools."[153]

In 2011, Google Search query results have been shown by Internet activist Eli Pariser to be tailored to users, effectively isolating users in what he defined as a filter bubble. Pariser holds algorithms used in search engines such as Google Search responsible for catering "a personal ecosystem of information".[154] Although contrasting views have mitigated the potential threat of "informational dystopia" and questioned the scientific nature of Pariser's claims,[155] filter bubbles have been mentioned to account for the surprising results of the U.S. presidential election in 2016 alongside fake news and echo chambers, suggesting that Facebook and Google have designed personalized online realities in which "we only see and hear what we like".[156]

FTC fines

[edit]

In 2012, the US Federal Trade Commission fined Google US\$22.5 million for violating their agreement not to violate the privacy of users of Apple's Safari web browser.[157] The FTC was also continuing to investigate if Google's favoring of their own services in their search results violated antitrust regulations.[158]

Payments to Apple

[edit]

In a November 2023 disclosure, during the ongoing antitrust trial against Google, an economics professor at the University of Chicago revealed that Google pays Apple 36% of all search advertising revenue generated when users access Google through the Safari browser. This revelation reportedly caused Google's lead attorney to cringe visibly. [citation needed] The revenue generated from Safari users has been kept confidential, but the 36% figure suggests that

it is likely in the tens of billions of dollars.

Both Apple and Google have argued that disclosing the specific terms of their search default agreement would harm their competitive positions. However, the court ruled that the information was relevant to the antitrust case and ordered its disclosure. This revelation has raised concerns about the dominance of Google in the search engine market and the potential anticompetitive effects of its agreements with Apple.[159]

Big data and human bias

[edit]

Google search engine robots are programmed to use algorithms that understand and predict human behavior. The book, *Race After Technology: Abolitionist Tools for the New Jim Code*[160] by Ruha Benjamin talks about human bias as a behavior that the Google search engine can recognize. In 2016, some users Google searched "three Black teenagers" and images of criminal mugshots of young African American teenagers came up. Then, the users searched "three White teenagers" and were presented with photos of smiling, happy teenagers. They also searched for "three Asian teenagers", and very revealing photos of Asian girls and women appeared. Benjamin concluded that these results reflect human prejudice and views on different ethnic groups. A group of analysts explained the concept of a racist computer program: "The idea here is that computers, unlike people, can't be racist but we're increasingly learning that they do in fact take after their makers ... Some experts believe that this problem might stem from the hidden biases in the massive piles of data that the algorithms process as they learn to recognize patterns ... reproducing our worst values".[160]

Monopoly ruling

[edit]

On August 5, 2024, Google lost a lawsuit which started in 2020 in D.C. Circuit Court, with Judge Amit Mehta finding that the company had an illegal monopoly over Internet search.[161] This monopoly was held to be in violation of Section 2 of the Sherman Act.[162] Google has said it will appeal the ruling,[163] though they did propose to loosen search deals with Apple and others requiring them to set Google as the default search engine.[164]

Trademark

[edit]

Main article: Google (verb)

As people talk about "googling" rather than searching, the company has taken some steps to defend its trademark, in an effort to prevent it from becoming a generic trademark.[165][166] This has led to lawsuits, threats of lawsuits, and the use of euphemisms, such as calling Google Search a famous web search engine.[167]

Discontinued features

[edit]

Translate foreign pages

[edit]

Until May 2013, Google Search had offered a feature to translate search queries into other languages. A Google spokesperson told *Search Engine Land* that "Removing features is always tough, but we do think very hard about each decision and its implications for our users. Unfortunately, this feature never saw much pick up".[168]

Instant search

[edit]

Instant search was announced in September 2010 as a feature that displayed suggested results while the user typed in their search query, initially only in select countries or to registered users.[169] The primary advantage of the new system was its ability to save time, with Marissa Mayer, then-vice president of search products and user experience, proclaiming that the feature would save 2–5 seconds per search, elaborating that "That may not seem like a lot at first, but it adds up. With Google Instant, we estimate that we'll save our users 11 hours with each passing second!"[170] Matt Van Wagner of Search Engine Land wrote that "Personally, I kind of like Google Instant and I think it represents a natural evolution in the way search works", and also praised Google's efforts in public relations, writing that "With just a press conference and a few well-placed interviews, Google has parlayed this relatively minor speed improvement into an attention-grabbing front-page news story".[171] The upgrade also became notable for the company switching Google Search's underlying technology from HTML to AJAX.[172]

Instant Search could be disabled via Google's "preferences" menu for those who didn't want its functionality.[173]

The publication 2600: The Hacker Quarterly compiled a list of words that Google Instant did not show suggested results for, with a Google spokesperson giving the following statement to Mashable:[174]

There are several reasons you may not be seeing search queries for a particular topic. Among other things, we apply a narrow set of removal policies for pornography, violence, and hate speech. It's important to note that removing queries from Autocomplete is a hard problem, and not as simple as blacklisting particular terms and phrases.

In search, we get more than one billion searches each day. Because of this, we take an algorithmic approach to removals, and just like our search algorithms, these are imperfect. We will continue to work to improve our approach to removals in Autocomplete, and are listening carefully to feedback from our users.

Our algorithms look not only at specific words, but compound queries based on those words, and across all languages. So, for example, if there's a bad word in Russian, we may remove a compound word including the transliteration of the Russian word into English. We also look at the search results themselves for given queries. So, for example, if the results for a particular query seem pornographic, our algorithms may remove that query from Autocomplete, even if the query itself wouldn't otherwise violate our policies. This system is neither perfect nor instantaneous, and we will continue to work to make it better.

PC Magazine discussed the inconsistency in how some forms of the same topic are allowed; for instance, "lesbian" was blocked, while "gay" was not, and "cocaine" was blocked, while "crack" and "heroin" were not. The report further stated that seemingly normal words were also blocked due to pornographic innuendos, most notably "scat", likely due to having two completely separate contextual meanings, one for music and one for a sexual practice.[175]

On July 26, 2017, Google removed Instant results, due to a growing number of searches on mobile devices, where interaction with search, as well as screen sizes, differ significantly from a computer.[176][177]

Instant previews[edit]

"Instant previews" allowed previewing screenshots of search results' web pages without having to open them. The feature was introduced in November 2010 to the desktop website and removed in April 2013 citing low usage.[178][179]

Dedicated encrypted search page

[edit]

Various search engines provide encrypted Web search facilities. In May 2010 Google rolled out SSL-encrypted web search.[180] The encrypted search was accessed at encrypted.google.com[181] However, the web search is encrypted via Transport Layer Security (TLS) by default today, thus every search request should be automatically encrypted if TLS is supported by the web browser.[182] On its support website, Google announced that the address encrypted.google.com would be turned off April 30, 2018, stating that all Google products and most new browsers use HTTPS connections as the reason for the discontinuation.[183]

Real-Time Search

[edit]

Google Real-Time Search was a feature of Google Search in which search results also sometimes included real-time information from sources such as Twitter, Facebook, blogs, and news websites.[184] The feature was introduced on December 7, 2009,[185] and went offline on July 2, 2011, after the deal with Twitter expired.[186] Real-Time Search included Facebook status updates beginning on February 24, 2010.[187] A feature similar to Real-Time Search was already available on Microsoft's Bing search engine, which showed results from Twitter and Facebook.[188] The interface for the engine showed a live, descending "river" of posts in the main region (which could be paused or resumed), while a bar chart metric of the frequency of posts containing a certain search term or hashtag was located on the right hand corner of the page above a list of most frequently reposted posts and outgoing links. Hashtag search links were also supported, as were "promoted" tweets hosted by Twitter (located persistently on top of the river) and thumbnails of retweeted image or video links.

In January 2011, geolocation links of posts were made available alongside results in Real-Time Search. In addition, posts containing syndicated or attached shortened links were made searchable by the *link:* query option. In July 2011, Real-Time Search became inaccessible, with the Real-Time link in the Google sidebar disappearing and a custom 404 error page generated by Google returned at its former URL. Google originally suggested that the interruption was temporary and related to the launch of Google+;[189] they subsequently announced that it was due to the expiry of a commercial arrangement with Twitter to provide access to tweets.[190]

See also

[edit]

- iCON
 o Image mtermet portaknown
- List of search engines by popularity Software system for finding relevant information on the Web
- Timeline of Google Search
- o Censorship by Google § Google Search
- Google (verb) Transitive verb, to search using Google
- Dragonfly (search engine) Prototype Internet search engine to comply with Chinese censorship requirements
- Google bombing Practice that causes a webpage to have a high rank in Google
- Google Panda Change to Google's search results ranking algorithm
- Google Penguin Google search engine algorithm update
- Googlewhack Contest to find a Google Search query that returns a single result
- Halalgoogling Islamic search engine blocking haram content
- Prabhakar Raghavan American computer scientist

- Reunion (advertisement) Google India advertisement for Google Search
- List of search engines
- Comparison of web search engines
- History of Google
- List of Google products

References

[edit]

- 1. ^ York, Dan (June 6, 2016). "Google's IPv6 Stats Hit 12% on Fourth Anniversary of World IPv6 Launch". CircleID. Archived from the original on November 28, 2020. Retrieved August 5, 2019.
- 2. * "The Anatomy of a Large-Scale Hypertextual Web Search Engine". Computer Science Department, Stanford University, Stanford, CA. Archived from the original on April 25, 2009. Retrieved January 27, 2009.
- 3. * "Search Engine Market Share Worldwide | StatCounter Global Stats". StatCounter Global Stats. Archived from the original on December 10, 2020. Retrieved April 9, 2021.
- 4. ^ "google.com". similarweb.com.
- 5. * Fisher, Adam (July 10, 2018). "Brin, Page, and Mayer on the Accidental Birth of the Company that Changed Everything". Vanity Fair. Archived from the original on July 4, 2019. Retrieved August 23, 2019.
- 6. ^ McHugh, Josh (January 1, 2003). "Google vs. Evil". Wired. Retrieved August 24, 2019.
- 7. ^ D'Onfro, Jillian (February 13, 2016). "How a billionaire who wrote Google's original code created a robot revolution". Business Insider. Archived from the original on August 24, 2019. Retrieved August 24, 2019.
- 8. ^ Yoon, John; Isaac, Mike (August 10, 2024). "Susan Wojcicki, Former Chief of YouTube, Dies at 56". New York Times. Retrieved August 10, 2024.
- 9. ^ Google (Tue June 14, 2011) Official announcement Archived July 31, 2020, at the Wayback Machine
- 10. A Hubbard, Douglas (2011). Pulse: The New Science of Harnessing Internet Buzz to Track Threats and Opportunities. John Wiley & Sons.
- 11. * "Soon We Won't Program Computers. We'll Train Them Like Dogs". Wired. Retrieved May 30, 2018.
- 12. A Barakat, Matthew; Liedtke, Michale (August 5, 2024). "Google illegally maintains monopoly over internet search, judge rules". Associated Press. Retrieved August 6, 2024.
- 13. ^ **a b** "A court says Google is a monopolist. Now what?". The Economist. ISSN 0013-0613. Retrieved November 18, 2024.
- 14. ^ **a b** Dominguez, Trace (September 2, 2015). "How Much of the Internet Is Hidden?". Seeker. Group Nine Media. Archived from the original on December 10, 2017. Retrieved December 9, 2017.
- 15. * "View web pages cached in Google Search Results". Google Search Help. Archived from the original on December 18, 2017. Retrieved December 9, 2017.
- 16. A Boswell, Wendy (November 1, 2017). "How to Use Google to Find and Open Files Online". Lifewire. Dotdash. Archived from the original on December 10, 2017. Retrieved December

- 9, 2017.
- 17. * "Block explicit results on Google using SafeSearch". Google Search Help. Archived from the original on April 6, 2018. Retrieved December 9, 2017.
- 18. A Rosen, JJ (May 3, 2014). "The Internet you can't Google". The Tennessean. Gannett Company. Retrieved December 9, 2017.
- 19. ^ Sherman, Chris; Price, Gary (May 22, 2008). "The Invisible Web: Uncovering Sources Search Engines Can't See". Illinois Digital Environment for Access to Learning and Scholarship. University of Illinois at Urbana—Champaign. hdl:2142/8528.
- 20. ^ Albanesius, Chloe (August 10, 2012). "Google to Demote Sites With 'High Number' of Copyright Complaints". PC Magazine. Ziff Davis. Retrieved December 9, 2017.
- 21. ^ Schwartz, Barry (October 13, 2016). "Within months, Google to divide its index, giving mobile users better & fresher content". Search Engine Land. Archived from the original on December 9, 2017. Retrieved December 9, 2017.
- 22. A Roberts, Hannah (October 27, 2016). "Google is splitting its search index to target 'stripped down' mobile websites". Business Insider. Axel Springer SE. Archived from the original on December 9, 2017. Retrieved December 9, 2017.
- 23. A Perez, Sarah (December 20, 2017). "Google's mobile-first search index has rolled out to a handful of sites". TechCrunch. Oath Inc. Archived from the original on December 20, 2017. Retrieved December 21, 2017.
- 24. A Barnett, Emma (August 11, 2009). "Google reveals caffeine: a new faster search engine". The Daily Telegraph. Archived from the original on January 10, 2022. Retrieved December 9, 2017.
- 25. * Fox, Vanessa (August 10, 2009). "Google Caffeine: Google's New Search Engine Index". Search Engine Land. Archived from the original on December 10, 2017. Retrieved December 9, 2017.
- 26. * Fox, Vanessa (June 8, 2010). "Google's New Indexing Infrastructure "Caffeine" Now Live". Search Engine Land. Archived from the original on December 10, 2017. Retrieved December 9, 2017.
- 27. ^ Metz, Cade (September 9, 2010). "Google search index splits with MapReduce". The Register. Situation Publishing. Archived from the original on December 10, 2017. Retrieved December 9, 2017.
- 28. ^ Metz, Cade (August 14, 2009). "Google Caffeine: What it really is". The Register. Situation Publishing. Archived from the original on December 23, 2017. Retrieved December 9, 2017.
- 29. ^ Schwartz, Barry (August 9, 2018). "Google's Aug. 1 core algorithm update: Who did it impact, and how much". Search Engine Land. Archived from the original on August 23, 2018. Retrieved August 23, 2018.
- 30. * "Google Medic Update: Google's Core Search Update Had Big Impact On Health/Medical Sites". seroundtable.com. August 8, 2018. Archived from the original on March 21, 2019. Retrieved March 11, 2019.
- 31. * "Google Search Statistics Internet Live Stats". www.internetlivestats.com. Archived from the original on February 4, 2015. Retrieved April 9, 2021.
- 32. A Barker, Alex; McCarthy, Bede (April 9, 2013). "Google favours 'in-house' search results". Financial Times. Archived from the original on December 10, 2022. Retrieved January 26, 2014.

- 33. ^ D'Onfro, Jillian (April 19, 2015). "Google is making a giant change this week that could crush millions of small businesses". Business Insider. Archived from the original on October 7, 2016. Retrieved November 5, 2016.
- 34. * Brin, S.; Page, L. (1998). "The anatomy of a large-scale hypertextual Web search engine" (PDF). Computer Networks and ISDN Systems. 30 (1–7): 107–117. CiteSeerX 10.1.1.115.5930. doi:10.1016/S0169-7552(98)00110-X. ISSN 0169-7552. S2CID 7587743. Archived (PDF) from the original on November 8, 2006.
- 35. * "Corporate Information: Technology Overview". Archived from the original on February 10, 2010. Retrieved November 15, 2009.
- 36. A Levy, Steven (February 22, 2010). "Exclusive: How Google's Algorithm Rules the Web". Wired. Vol. 17, no. 12. Wired.com. Archived from the original on April 16, 2011.
- 37. A "About: RankDex" Archived January 20, 2012, at the Wayback Machine, RankDex
- 38. * "Method for node ranking in a linked database". Google Patents. Archived from the original on October 15, 2015. Retrieved October 19, 2015.
- 39. ^ "Google's goal: to organize your daily life" Archived October 19, 2011, at the Wayback Machine. *Financial Times*.
- 40. * "Google and the Search for the Future" Archived July 30, 2017, at the Wayback Machine. *The Wall Street Journal*.
- 41. * "Google Webmaster Guidelines". Archived from the original on January 9, 2009. Retrieved November 15, 2009.
- 42. ^ Segal, David (November 26, 2010). "A Bully Finds a Pulpit on the Web". The New York Times. Archived from the original on January 2, 2022. Retrieved November 27, 2010.
- 43. * "Blogspot.com". Googleblog.blogspot.com. Archived from the original on October 19, 2012. Retrieved August 4, 2012.
- 44. ^ **a b c** Elran, Asher (November 15, 2013). "What Google 'Hummingbird' Means for Your SEO Strategy". Entrepreneur. Archived from the original on June 24, 2022. Retrieved December 10, 2017.
- 45. * Sullivan, Danny (September 26, 2013). "FAQ: All About The New Google "Hummingbird" Algorithm". Search Engine Land. Archived from the original on December 23, 2018. Retrieved December 10, 2017.
- 46. ^ Dodds, Don (December 16, 2013). "An SEO Guide to the Google Hummingbird Update". HuffPost. Oath Inc. Archived from the original on June 4, 2016. Retrieved December 10, 2017.
- 47. ^ Taylor, Richard (September 26, 2013). "Google unveils major upgrade to search algorithm". BBC News. BBC. Archived from the original on June 26, 2022. Retrieved December 10, 2017.
- 48. ^ Marentis, Chris (April 11, 2014). "A Complete Guide To The Essentials Of Post-Hummingbird SEO". Search Engine Land. Archived from the original on June 28, 2022. Retrieved December 10, 2017.
- 49. * Warzel, Charlie (September 22, 2023). "The Tragedy of Google Search". The Atlantic. Retrieved November 7, 2023.
- 50. A Megan Gray (October 2, 2023). "How Google Alters Search Queries to Get at Your Wallet". Archived from the original on October 2, 2023. "This onscreen Google slide had to do with a "semantic matching" overhaul to its SERP algorithm. When you enter a query, you might expect a search engine to incorporate synonyms into the algorithm as well as text

- phrase pairings in natural language processing. But this overhaul went further, actually altering queries to generate more commercial results."
- 51. ^ Megan Gray (October 8, 2023). "Google is controlling the trial w/ its secrecy designations, controlling our searches w/ its greed, and controlling Wired w/ its scare tactics. I wrote an op-ed re Google mucking around w/ organic search to make it more shopping-oriented to gin up ad \$. I stand by that. My Ãf°Ã...¸Ã,§Ã,Âμ". Twitter. Archived from the original on November 7, 2023 via Thread Reader App.
- 52. ^ Schwartz, Barry (March 5, 2024). "Google releasing massive search quality enhancements in March 2024 core update and multiple spam updates". Search Engine Land.
- 53. ^ Schwartz, Barry (March 20, 2024). "Google March 2024 spam update done rolling out". Search Engine Land.
- 54. ^ **a b** Hancock, Edith (September 10, 2024). "Google loses EU court battle over €2.4B antitrust fine". Politico. Retrieved September 10, 2024.
- 55. * "test". Google Search. Archived from the original on October 5, 2021. Retrieved October 5, 2021.
- 56. * Slegg, Jennifer (November 2, 2015). "Google Testing Huge 7-Line Snippets in Search Results". The SEM Post. Archived from the original on October 17, 2021. Retrieved October 5, 2021.
- 57. * "Google officially increases length of snippets in search results". Search Engine Land. December 1, 2017. Archived from the original on October 5, 2021. Retrieved October 5, 2021.
- 58. A Marshall, Matt (May 16, 2007). "Google's move to "universal search"". VentureBeat. Archived from the original on December 10, 2017. Retrieved December 9, 2017.
- 59. * Sullivan, Danny (May 16, 2007). "Google Launches "Universal Search" & Blended Results". Search Engine Land. Archived from the original on December 10, 2017. Retrieved December 9, 2017.
- 60. * Mayer, Marissa (May 16, 2007). "Universal search: The best answer is still the best answer". Official Google Blog. Archived from the original on December 10, 2017. Retrieved December 9, 2017.
- 61. A Lardinois, Frederic (June 20, 2017). "Google launches its Al-powered jobs search engine". TechCrunch. AOL. Archived from the original on June 21, 2017. Retrieved June 22, 2017.
- 62. ^ Gebhart, Andrew (June 20, 2017). "Google for Jobs is ready to help your employment search". CNET. CBS Interactive. Archived from the original on June 20, 2017. Retrieved June 22, 2017.
- 63. * Fox, Vanessa (May 12, 2009). "Google Search Now Supports Microformats and Adds "Rich Snippets" to Search Results". Search Engine Land. Archived from the original on December 9, 2017. Retrieved December 9, 2017.
- 64. A Schwartz, Barry (May 17, 2016). "Google launches rich cards for movie and recipe websites". Search Engine Land. Archived from the original on December 9, 2017. Retrieved December 9, 2017.
- 65. A Schwartz, Barry (March 29, 2017). "Google quietly expands rich cards worldwide". Search Engine Land. Archived from the original on December 9, 2017. Retrieved December 9, 2017

.

- 66. ^ **a b** Singhal, Amit (May 16, 2012). "Introducing the Knowledge Graph: things, not strings". Official Google Blog. Archived from the original on December 10, 2017. Retrieved December 10, 2017.
- 67. * "Your business information in the Knowledge Panel". Google My Business Help. Archived from the original on April 20, 2017. Retrieved December 10, 2017.
- 68. Newton, Casey (December 14, 2012). "How Google is taking the Knowledge Graph global". CNET. CBS Interactive. Archived from the original on December 10, 2017. Retrieved December 10, 2017.
- 69. A Newton, Casey (December 4, 2012). "Google's Knowledge Graph tripled in size in seven months". CNET. CBS Interactive. Archived from the original on August 29, 2018. Retrieved December 10, 2017.
- 70. ^ **a b** Dewey, Caitlin (May 11, 2016). "You probably haven't even noticed Google's sketchy quest to control the world's knowledge". The Washington Post. Archived from the original on September 25, 2017. Retrieved December 10, 2017.
- 71. ^ Lynley, Matthew (May 18, 2016). "Google unveils Google Assistant, a virtual assistant that's a big upgrade to Google Now". TechCrunch. Oath Inc. Archived from the original on January 26, 2021. Retrieved December 10, 2017.
- 72. A Bohn, Dieter (May 18, 2016). "Google Home: a speaker to finally take on the Amazon Echo". The Verge. Vox Media. Archived from the original on December 15, 2017. Retrieved December 10, 2017.
- 73. A Browne, Ryan (December 10, 2020). "Google launches knowledge panels in search results to tackle misinformation about Covid vaccines". CNBC. Retrieved August 28, 2024.
- 74. ^ Lardinois, Frederic (May 16, 2012). "Google Just Got A Whole Lot Smarter, Launches Its Knowledge Graph". TechCrunch. Retrieved August 28, 2024.
- 75. ^ Duffy, Scott (April 7, 2023). "How to Claim and Optimize Your Google Knowledge Panel". Entrepreneur. Retrieved August 28, 2024.
- 76. A Gartenberg, Chaim (May 26, 2017). "Google adds new Personal tab to search results to show Gmail and Photos content". The Verge. Vox Media. Archived from the original on May 26, 2017. Retrieved May 27, 2017.
- 77. * Westenberg, Jimmy (May 28, 2017). "New Personal tab in Google Search will show results from Photos, Gmail, and more". Android Authority. Archived from the original on December 15, 2017. Retrieved December 15, 2017.
- 78. ^ **a b** Bell, Karissa. "Google is using your entire search history to create a personalized news feed". Mashable. Archived from the original on May 23, 2018. Retrieved May 22, 2018
- 79. * "Google is putting a news feed in Android's home screen". The Verge. Archived from the original on September 13, 2018. Retrieved May 22, 2018.
- 80. A Larson, Selena. "The Google app feed is about to get more personal". CNNMoney. Archived from the original on May 23, 2018. Retrieved May 22, 2018.
- 81. * "Introducing Google Discover". The Keyword Google. Archived from the original on July 16, 2021. Retrieved July 14, 2021.
- 82. ^ Lee, Dave (November 21, 2019). "Google to restrict political adverts worldwide". Archived from the original on November 21, 2019. Retrieved November 21, 2019.
- 83. ^ Pierce, David (May 10, 2023). "The Al takeover of Google Search starts now". The Verge. Archived from the original on May 10, 2023. Retrieved September 12, 2023.

- 84. *Levy, Steven (September 11, 2023). "Sundar Pichai on Google;s AI, Microsoft's AI, OpenAI, and ... Did We Mention AI?". Wired. Archived from the original on September 11, 2023. Retrieved September 12, 2023.
- 85. ^ Peters, Jay (October 12, 2023). "Google's Al-powered search experience can now generate images". The Verge. Archived from the original on October 12, 2023. Retrieved October 15, 2023.
- 86. ^ **a b** Pierce, David (May 14, 2024). "Google is redesigning its search engine and it's Al all the way down". The Verge. Archived from the original on May 14, 2024. Retrieved May 14, 2024.
- 87. ^ **a b** McMahon, Liv; Kleinman, Zoe (May 25, 2024). "Glue pizza and eat rocks: Google Al search errors go viral". BBC.
- 88. * Field, Hayden (May 24, 2024). "Google criticized as AI Overview makes obvious errors, such as saying former President Obama is Muslim". CNBC.
- 89. A Grant, Nico (May 24, 2024). "Google's A.I. Search Errors Cause a Furor Online". New York Times.
- 90. ^ De Vynck, Gerrit (May 30, 2024). "Google scales back AI search answers after it told users to eat glue". The Washington Post. Archived from the original on May 31, 2024. Retrieved May 31, 2024.
- 91. A Parshall, Allison. "What Do Google's Al Answers Cost the Environment?". Scientific American.
- 92. ^ Darcy, Oliver (May 15, 2024). "News publishers sound alarm on Google's new Al-infused search, warn of 'catastrophic' impacts | CNN Business". CNN. Retrieved November 3, 2024.
- 93. ^ Mauran, Cecily (August 15, 2024). "The new Google Al Overview layout is a small win for publishers". Mashable. Retrieved November 3, 2024.
- 94. ^ Yeo, Amanda (October 28, 2024). "Google's Al Overview is rolling out worldwide". Mashable. Retrieved November 3, 2024.
- 95. * Malik, Aisha (March 5, 2025). "Google Search's new 'Al Mode' lets users ask complex, multi-part questions". TechCrunch. Retrieved March 7, 2025.
- 96. A Langley, Hugh. "Google's new Al Mode is a huge leap away from search as we know it". Business Insider. Retrieved March 7, 2025.
- 97. A Beato, Augusto. "Google Redesign Backs Social Effort". Portland SEO. Archived from the original on December 1, 2017. Retrieved July 1, 2011.
- 98. * "Google redesigns its homepage". Los Angeles Times. June 29, 2011. Archived from the original on January 21, 2013. Retrieved August 4, 2012.
- 99. * "Google support forum, one of many threads on being unable to switch off the black navigation bar". Archived from the original on December 24, 2011. Retrieved August 4, 2012.
- 100. * "Google ads: The wolf is out of the lamb's skin". www.techmw.com. Archived from the original on December 2, 2013. Retrieved December 2, 2013.
- 101. A Schwartz, Barry (December 6, 2016). "Google begins rolling out a new desktop search user interface". Search Engine Land. blogspot. Archived from the original on December 7, 2016. Retrieved December 6, 2016.
- 102. A "Google Search". Archived from the original on May 28, 2010. Retrieved May 30, 2018.
- 103. A Perez, Sarah (January 22, 2020). "Google's Collections feature now pushes people to save recipes & products, using Al". TechCrunch. Oath Inc. Archived from the original on

- July 14, 2021. Retrieved July 14, 2021.
- 104. A Bohn, Dieter (December 6, 2016). "Google is putting a news feed in Android's home screen". The Verge. Vox Media. Archived from the original on December 16, 2017. Retrieved December 15, 2017.
- 105. Newton, Casey (July 19, 2017). "Google introduces the feed, a personalized stream of news on iOS and Android". The Verge. Vox Media. Archived from the original on December 16, 2017. Retrieved December 15, 2017.
- 106. * Matney, Lucas (July 19, 2017). "Google introduces the feed, a news stream of your evolving interests". TechCrunch. Oath Inc. Archived from the original on December 16, 2017. Retrieved December 15, 2017.
- 107. A Schwartz, Barry (April 19, 2016). "Google Testing Trending In Search Auto-Complete". Search Engine Roundtable. Archived from the original on December 16, 2017. Retrieved December 15, 2017.
- 108. A Schwartz, Barry (August 11, 2016). "You Can Now Opt Out Of Trending Searches In The Google Search App". Search Engine Roundtable. Archived from the original on December 16, 2017. Retrieved December 15, 2017.
- 109. A Perez, Sarah (September 1, 2017). "Google's Search app on iOS gets a Twitter-like Trends feature, faster Instant Answers". TechCrunch. Oath Inc. Archived from the original on December 16, 2017. Retrieved December 15, 2017.
- 110. * "Google for India: Building India-first products and features". Google. December 5, 2017.

 Archived from the original on February 5, 2022. Retrieved February 5, 2022.
- 111. * "Top 500". Alexa Internet. Archived from the original on February 3, 2021. Retrieved November 8, 2020.
- 112. A Perry, Alex (April 10, 2019). "Google makes it way easier to search by date". Mashable. Archived from the original on March 2, 2022. Retrieved March 2, 2022.
- 113. ^ **a b** "How to search on Google". Google Search Help. Archived from the original on December 5, 2017. Retrieved December 9, 2017.
- 114. * "Refine web searches". Google Search Help. Archived from the original on October 11, 2017. Retrieved December 9, 2017.
- 115. A Boswell, Wendy (October 5, 2017). "Advanced Google Search Shortcuts". Lifewire. Dotdash. Archived from the original on January 7, 2018. Retrieved December 9, 2017.
- 116. * "Google Advanced Search". Google. Archived from the original on June 8, 2022. Retrieved June 9, 2022.
- 117. * Smarty, Ann (October 31, 2008). "What is Google Query Expansion? Cases and Examples". Search Engine Journal. Archived from the original on December 10, 2017. Retrieved December 9, 2017.
- 118. A Sullivan, Danny (August 25, 2008). "Google.com Finally Gets Google Suggest Feature". Search Engine Land. Archived from the original on December 10, 2017. Retrieved December 9, 2017.
- 119. * "What Does The I'm Feeling Lucky Button On Google Search Do?". Fossbytes. April 12, 2016. Archived from the original on February 5, 2023. Retrieved March 2, 2022.
- 120. ^ Karch, Marziah (November 25, 2017). "How to Use Google's "I'm Feeling Lucky" Button". Lifewire. Dotdash. Archived from the original on December 10, 2017. Retrieved December 9, 2017.

- 121. * Paul, Ian (August 24, 2012). "Google Changes 'I'm Feeling Lucky' Button". PC World. International Data Group. Archived from the original on August 31, 2017. Retrieved December 9, 2017.
- 122. * Newman, Brendan (November 19, 2007). "Are you feeling lucky? Google is". Marketplace. American Public Media. Archived from the original on October 20, 2017. Retrieved December 9, 2017.
- 123. A Reporters, Telegraph (August 17, 2017). "15 fun Google Easter eggs". The Daily Telegraph. Archived from the original on January 10, 2022. Retrieved December 9, 2017.
- 124. * Klosowski, Thorin (September 6, 2012). "20 Google Search Shortcuts to Hone Your Google-Fu". Lifehacker. Univision Communications. Archived from the original on December 10, 2017. Retrieved December 9, 2017.
- 125. A Graziano, Dan (August 9, 2013). "How to get the most out of Google search". CNET. CBS Interactive. Archived from the original on December 10, 2017. Retrieved December 9, 2017.
- 126. A Warman, Matt (May 16, 2013). "'OK Google' 'conversational search' is coming soon".

 The Daily Telegraph. Archived from the original on January 10, 2022. Retrieved December 9, 2017.
- 127. A Robertson, Adi (May 15, 2013). "Google adds button-free voice search in Chrome: just say 'OK Google'". The Verge. Vox Media. Archived from the original on December 10, 2017. Retrieved December 9, 2017.
- 128. ^ Lee, Jessica (May 23, 2013). "Google Talks Back: Conversational Search Available on New Version of Chrome". Search Engine Watch. Archived from the original on December 10, 2017. Retrieved December 9, 2017.
- 129. ^ Albanesius, Chloe (November 27, 2013). "'OK Google' Voice Search Lands on Chrome". PC Magazine. Ziff Davis. Retrieved December 9, 2017.
- 130. A Protalinski, Emil (May 20, 2014). "Chrome 35 launches with 'OK Google' voice search, more control over touch input, new APIs and JavaScript features". The Next Web. Archived from the original on December 10, 2017. Retrieved December 9, 2017.
- 131. A Protalinski, Emil (October 16, 2015). "Google removes 'OK Google' voice search from Chrome". VentureBeat. Archived from the original on December 10, 2017. Retrieved December 9, 2017.
- 132. A Shahani, Aarti (May 18, 2016). "With New Products, Google Flexes Muscles To Competitors, Regulators". NPR. Archived from the original on December 16, 2017. Retrieved December 15, 2017.
- 133. ^ **a b** Sullivan, Danny (August 5, 2010). "Let's Celebrate Google's Biggest Failures!". Search Engine Land. Archived from the original on April 5, 2019. Retrieved April 5, 2019.
- 134. * "Google: 100 Billion Searches Per Month, Search To Integrate Gmail, Launching Enhanced Search App For iOS". Searchengineland.com. August 8, 2012. Archived from the original on March 3, 2013. Retrieved February 18, 2013.
- 135. Alan Eustace (September 2, 2011). "A fall spring-clean". Archived from the original on September 7, 2011. Retrieved October 1, 2020.
- 136. A Blogspot.com Archived July 29, 2009, at the Wayback Machine, Powering a Google search
- 137. ^ [1] Archived March 28, 2019, at the Wayback Machine How does Ecosia neutralize a search's CO2 emissions?
- 138. ^ [2] Archived February 4, 2015, at the Wayback Machine Google Search Statistics

- 139. About Google Doodles. Google.com. Retrieved on November 29, 2013.
- 140. A Hwang, Dennis (June 8, 2004). "Oodles of Doodles". Google (corporate blog). Archived from the original on December 2, 2010. Retrieved July 19, 2006.
- 141. * "History of Doodles". Google, Inc. Archived from the original on February 5, 2014. Retrieved October 5, 2010.
- 142. * "valentine07". Google. February 14, 2007. Archived from the original on March 7, 2007. Retrieved April 6, 2007.
- 143. A Caddy, Becca (March 20, 2017). "Google tracks everything you do: here's how to delete it". Wired. Archived from the original on March 24, 2017. Retrieved March 20, 2017.
- 144. A Craig Timberg; Jla Lynn Yang (March 12, 2014). "Google is encrypting search globally. That's bad for the NSA and China's censors". The Washington Post. Archived from the original on December 3, 2018. Retrieved July 7, 2018.
- 145. ^ Olsen, Stefanie (July 9, 2003). "Google cache raises copyright concerns". CNET. CBS Interactive. Archived from the original on May 10, 2011. Retrieved June 13, 2010.
- 146. * Field v. Google, CV-S-04-0413-RCJ-LRL (Nevada District Court January 19, 2006), archived from the original.
- 147. A Parker v. Google, 04-CV-3918 (Eastern Pennsylvania District Court March 10, 2006), archived from the original on 2006-05-19.
- 148. * Keller, Michael H.; Dance, Gabriel J. X. (November 9, 2019). "Child Abusers Run Rampant as Tech Companies Look the Other Way". The New York Times. ISSN 0362-4331 . Retrieved October 9, 2023.
- 149. * Krebs, Brian (January 31, 2009). "Google: This Internet May Harm Your Computer". The Washington Post. Archived from the original on November 30, 2011. Retrieved January 31, 2009.
- 150. ^ **a b** Mayer, Marissa (January 31, 2009). "This site may harm your computer on every search result?!?!". Official Google Blog. Archived from the original on February 2, 2009. Retrieved January 31, 2009.
- 151. ^ **a b** Weinstein, Maxim (January 31, 2009). "Google glitch causes confusion".

 StopBadware. Archived from the original on July 8, 2010. Retrieved May 10, 2010.
- 152. ^ Cooper, Russ (January 31, 2009). "Serious problems with Google search". Verizon Business Security Blog. Archived from the original on July 17, 2011. Retrieved May 10, 2010.
- 153. A Maurer, H.; Balke, Tilo; Kappe, Frank; Kulathuramaiyer, Narayanan; Weber, Stefan; Zaka, Bilal (September 30, 2007). "Report on dangers and opportunities posed by large search engines, particularly Google" (PDF). Graz University of Technology. Archived from the original (PDF) on December 29, 2009. Retrieved June 13, 2017.
- 154. A Parramore, Lynn (October 10, 2010). "The Filter Bubble". The Atlantic. Archived from the original on August 22, 2017. Retrieved April 20, 2011. "Since Dec. 4, 2009, Google has been personalized for everyone. So when I had two friends this spring Google 'BP,' one of them got a set of links that was about investment opportunities in BP. The other one got information about the oil spill"
- 155. * Weisberg, Jacob (June 10, 2011). "Bubble Trouble: Is Web personalization turning us into solipsistic twits?". Slate. Archived from the original on June 12, 2011. Retrieved August 15, 2011.

- 156. A Mostafa M. El-Bermawy (November 18, 2016). "Your Filter Bubble is Destroying Democracy". Wired. Retrieved March 3, 2017. "The global village that was once the internet ... digital islands of isolation that are drifting further apart each day ... your experience online grows increasingly personalized"
- 157. * "Google fined over Safari privacy violation" Archived August 11, 2012, at the Wayback Machine. *Al Jazeera*, August 10, 2012.
- 158. A Bailey, Brandon. "Google's review by FTC nearing critical point" Archived January 22, 2013, at the Wayback Machine. *Mercury News*, November 9, 2012.
- 159. ^ Nylen, Leah (November 13, 2023). "Apple Gets 36% of Google Revenue in Search Deal, Expert Says". Bloomberg News. Retrieved November 14, 2023.
- 160. ^ a b Benjamin, Ruha (2019). Race After Technology: Abolitionist Tools for the New Jim Code. Cambridge, UK: Polity Press. pp. 94–95. ISBN 9781509526437.
- 161. A Peters, Jay (August 6, 2024). "Now that Google is a monopolist, what's next? / Reaching a decision on what to do about Google Search could take a very long time". The Verge. Retrieved August 6, 2024.
- 162. A Mallin, Alexander (August 5, 2024). "Google violated antitrust laws to maintain dominance over online search, judge says". ABC News. Retrieved August 6, 2024.
- 163. A Milmo, Dan; editor, Dan Milmo Global technology (November 21, 2024). "Google must sell Chrome to end search monopoly, says US justice department". The Guardian. ISSN 0261-3077. Retrieved January 7, 2025. cite news: |last2= has generic name (help)
- 164. A Godoy, Jody (December 23, 2024). "Google offers to loosen search deals in US antitrust case remedy". Reuters. Retrieved January 7, 2025.
- 165. A Duffy, Jonathan (June 20, 2003). "Google calls in the 'language police'". BBC News. Archived from the original on June 29, 2012. Retrieved April 10, 2019.
- 166. Ash, Karen Artz; Danow, Bret J. ""Google It": The Search Engine's Trademark May Be a Verb, But It's Not Generic". The National Law Review. Archived from the original on April 10, 2019. Retrieved April 10, 2019.
- 167. * "Feedback: Weight in dollars squared". New Scientist. June 5, 2013. Archived from the original on April 26, 2021. Retrieved November 8, 2020.
- 168. * Schwartz, Barry (May 20, 2013). "Google Drops "Translated Foreign Pages" Search Option Due To Lack Of Use". Search Engine Land. Archived from the original on October 17, 2017. Retrieved December 15, 2017.
- 169. * "Google Instant Search: The Complete User's Guide". Search Engine Land. September 8, 2010. Archived from the original on October 20, 2021. Retrieved October 5, 2021. "Google Instant only works for searchers in the US or who are logged in to a Google account in selected countries outside the US"
- 170. * Mayer, Marissa (September 8, 2010). "Search: now faster than the speed of type". Official Google Blog. Archived from the original on December 15, 2017. Retrieved December 15, 2017.
- 171. A Wagner, Matt Van (September 20, 2010). "How Google Saved \$100 Million By Launching Google Instant". Search Engine Land. Archived from the original on October 19, 2017. Retrieved December 15, 2017.
- 172. A Gomes, Ben (September 9, 2010). "Google Instant, behind the scenes". Official Google Blog. Archived from the original on December 15, 2017. Retrieved December 15, 2017.

- 173. A Pash, Adam (September 8, 2010). "How to Turn Off Google Instant Search". Lifehacker. Univision Communications. Archived from the original on December 16, 2017. Retrieved December 15, 2017.
- 174. Axon, Samuel (September 28, 2010). "Which Words Does Google Instant Blacklist?". Mashable. Ziff Davis. Archived from the original on December 15, 2017. Retrieved December 15, 2017.
- 175. A Horn, Leslie (September 29, 2010). "Google Instant Blacklist: Which Words Are Blocked?"

 . PC Magazine. Ziff Davis. Retrieved December 15, 2017.
- 176. * Schwartz, Barry (July 26, 2017). "Google has dropped Google Instant Search". Search Engine Land. Archived from the original on December 15, 2017. Retrieved December 15, 2017.
- 177. * Statt, Nick (July 26, 2017). "Google will stop showing search results as you type because it makes no sense on mobile". The Verge. Vox Media. Archived from the original on December 15, 2017. Retrieved December 15, 2017.
- 178. * Singel, Ryan (November 9, 2010). "Google Gives Searchers 'Instant Previews' of Result Pages". Wired. Retrieved October 5, 2021.
- 179. A "Google Drops Instant Previews Over Low Usage". seroundtable.com. April 25, 2013. Archived from the original on October 5, 2021. Retrieved October 5, 2021.
- 180. * "SSL Search: Features Web Search Help". Web Search Help. May 2010. Archived from the original on May 24, 2010. Retrieved July 7, 2010.
- 181. * "Encrypted.google.com". Archived from the original on December 29, 2013. Retrieved August 4, 2012.
- 182. A "Google Will Start Encrypting Your Searches". Time. March 13, 2014. Retrieved February 6, 2017.
- 183. * "Encrypted.google.com is going away". Google Inc. Archived from the original on March 27, 2018. Retrieved May 18, 2018.
- 184. * "Google launches Real-Time Search" Archived January 26, 2021, at the Wayback Machine. Mashable. Retrieved July 12, 2010.
- 185. A "Relevance meets the real-time web" Archived April 7, 2019, at the Wayback Machine. Google. Retrieved July 12, 2010.
- 186. A "As Deal With Twitter Expires, Google Realtime Search Goes Offline".

 Searchengineland.com. July 4, 2011. Archived from the original on November 11, 2013.

 Retrieved March 3, 2014.
- 187. * "Google Real-Time Search Now Includes A Fraction Of Facebook Status Updates"
 Archived October 31, 2019, at the Wayback Machine. TechCrunch. Retrieved July 12, 2010.
- 188. * "Google's Real-Time Search Ready to Challenge Bing" Archived July 6, 2012, at the Wayback Machine. *PC World*. Retrieved July 12, 2010.
- 189. A Quotes delayed at least 15 min (December 31, 1999). "Business news: Financial, stock & investing news online MSN Money". Money.msn.com. Archived from the original on April 2, 2011. Retrieved March 3, 2014.cite web: CS1 maint: numeric names: authors list (link)
- 190. * "Google Realtime Search Goes Missing". Searchengineland.com. July 3, 2011. Archived from the original on February 14, 2014. Retrieved March 3, 2014.

Further reading

- Google Hacks from O'Reilly is a book containing tips about using Google effectively. Now in its third edition (2006). ISBN 0-596-52706-3.
- Google: The Missing Manual by Sarah Milstein and Rael Dornfest (O'Reilly, 2004). ISBN 0-596-00613-6
- How to Do Everything with Google by Fritz Schneider, Nancy Blachman, and Eric Fredricksen (McGraw-Hill Osborne Media, 2003). ISBN 0-07-223174-2
- o Google Power by Chris Sherman (McGraw-Hill Osborne Media, 2005). ISBN 0-07-225787-3
- Barroso, Luiz Andre; Dean, Jeffrey; Hölzle, Urs (2003). "Web Search for a Planet: The Google Cluster Architecture". IEEE Micro. 23 (2): 22–28. doi:10.1109/MM.2003.1196112. ISSN 0272-1732. S2CID 15886858.
- Broderick, Ryan (August 28, 2023). "The end of the Googleverse". The Verge. Archived from the original on August 28, 2023. Retrieved August 30, 2023.
- Belanger, Ashley (October 27, 2023). "Google loses fight to hide 2021 money pit: \$26B in default contracts". Ars Technica. Retrieved October 28, 2023.

External links

[edit]

- Official website mane not found or type unknown this at Wikidata
- Google Search home
- Google Trends home

0 **V**

0 **t**

0 0

Google

a subsidiary of Alphabet

Company

- o Al
- o Area 120
- ATAP
- o Brain
- o China

Divisions

- Cloud Platform
- Energy
- Google.org
 - Crisis Response
- Health
- Registry
 - Security Operations
 - DeepMind
 - Fitbit

Active

- ITA Software
- Jigsaw
- Looker
- Mandiant
- Owlchemy Labs
- o Actifio
- Adscape
- Akwan Information Technologies
- Anvato
- Apigee
- BandPage
- o Bitium
- BufferBox
- Crashlytics
- Dodgeball
- DoubleClick
- o Dropcam
- Endoxon
- Flutter
- Global IP Solutions
- Green Throttle Games
- GreenBorder
- Gridcentric
- ImageAmerica
- Impermium
- o Invite Media
- Defunct
- Kaltix

Subsidiaries

Development

- Accelerated Linear Algebra
- o AMP
- o Actions on Google
- ALTS
- American Fuzzy Lop
- Android Cloud to Device Messaging
- Android Debug Bridge
- Android NDK
- Android Runtime
- Android SDK
- Android Studio
- Angular
- AngularJS
- Apache Beam
- o APIs
- App Engine
- App Inventor
- App Maker
- App Runtime for Chrome
- AppJet
- Apps Script
- AppSheet
- ARCore

A-C

- o Base
- o Bazel
- BeyondCorp
- o Bigtable
- BigQuery
- Bionic
- o Blockly
- Borg
- o Caja
- Cameyo
- Chart API
- Charts
- Chrome Frame
- Chromium
 - Blink
- Closure Tools
- Cloud Connect
- Cloud Dataflow
- Cloud Datastore
- Cloud Messaging
- Cloud Shell

Software

- Aardvark
- Account
 - Dashboard
 - Takeout
- Ad Manager
- o AdMob
- o Ads
- AdSense
- Affiliate Network
- Alerts
- o Allo

Α

- Analytics
- Android Auto
- Android Beam
- Answers
- o Apture
- Arts & Culture
- Assistant
- Attribution
- Authenticator
- BebaPay
- BeatThatQuote.com
- o Blog Search
- Blogger
- Body
- o Bookmarks
- B o Books
 - Ngram Viewer
 - o Browser Sync
 - Building Maker
 - Bump
 - BumpTop
 - o Buzz
 - o Calendar
 - Cast
 - o Catalogs
 - Chat
 - Checkout
 - Chrome
 - Chrome Apps
 - Chrome Experiments
 - Chrome Remote Desktop

Hardware

Smartphones	 Pixel (2016) Pixel 2 (2017) Pixel 3 (2018) Pixel 3a (2019) Pixel 4 (2019) Pixel 4a (2020) Pixel 5 (2020) Pixel 5a (2021) Pixel 6 (2021) Pixel 6a (2022) Pixel 7 (2022) Pixel 7a (2023) Pixel Fold (2023) Pixel 8 (2024) Pixel 9 (2024) Pixel 9 Pro Fold (2024)
Smartwatches	Pixel Watch (2022)Pixel Watch 2 (2023)Pixel Watch 3 (2024)
Tablets	Pixel C (2015)Pixel Slate (2018)Pixel Tablet (2023)
Laptops	 Chromebook Pixel (2013–2015) Pixelbook (2017) Pixelbook Go (2019)
Other	 Pixel Buds (2017–present)

Nexus One (2010)Nexus S (2010)

o Nexus 4 (2012)

Nexus 5 (2013)Nexus 6 (2014)Nexus 5X (2015)

Galaxy Nexus (2011)

Smartphones

Pixel

0 **V**

0 **t**

0 0

Litigation

- o Feldman v. Google, Inc. (2007)
- o Rescuecom Corp. v. Google Inc. (2009)

Advertising

- o Goddard v. Google, Inc. (2009)
- o Rosetta Stone Ltd. v. Google, Inc. (2012)
- Google, Inc. v. American Blind & Wallpaper Factory, Inc. (2017)
- Jedi Blue
- European Union (2010–present)
- United States v. Adobe Systems, Inc., Apple Inc., Google Inc., Intel Corporation, Intuit, Inc., and Pixar (2011)

Antitrust

- Umar Javeed, Sukarma Thapar, Aaqib Javeed vs. Google LLC and Ors. (2019)
- United States v. Google LLC (2020)
- United States v. Google LLC (2023)

Intellectual property

Privacy

Other

- o Perfect 10, Inc. v. Amazon.com, Inc. (2007)
- Viacom International Inc. v. YouTube, Inc. (2010)
- Lenz v. Universal Music Corp.(2015)
- o Authors Guild, Inc. v. Google, Inc. (2015)
- o Field v. Google, Inc. (2016)
- o Google LLC v. Oracle America, Inc. (2021)
- Smartphone patent wars
- o Rocky Mountain Bank v. Google, Inc. (2009)
- o Hibnick v. Google, Inc. (2010)
- United States v. Google Inc. (2012)
- Judgement of the German Federal Court of Justice on Google's autocomplete function (2013)
- o Joffe v. Google, Inc. (2013)
- Mosley v SARL Google (2013)
- Google Spain v AEPD and Mario Costeja González (2014)
- Frank v. Gaos (2019)

o Garcia v. Google, Inc. (2015)

o Google LLC v Defteros (2020)

- o Epic Games v. Google (2021)
- o Gonzalez v. Google LLC (2022)

Related

- Beauty YouTuber
- BookTube
- BreadTube
- o "Don't be evil"
- Gayglers
- Google as a verb
- Google bombing
 - 2004 U.S. presidential election
- Google effect
- Googlefight
- Google hacking
- Googleshare
- Google tax
- - Googlewhack
 - Googlization
 - Illegal flower tribute
 - Objectives and key results
 - Rooting
 - Search engine manipulation effect
 - Side project time
 - Sitelink
 - Site reliability engineering
 - StudyTube
 - VTuber
 - YouTube Poop
 - YouTuber
 - o list

Android

Booting process

- Custom distributions
- Features
 - Recovery mode
 - Software development
 - o Africa
 - Antarctica
 - o Asia
 - Israel
 - Europe
 - North America
- **Street View coverage**
- Canada
- United States
- Oceania

Concepts

Italics denote discontinued products.

- o Category pe unknown
 o Category pe unknown
- 0 **V**
- o **t**
- 0 0

Alphabet Inc.

- Access o Google Fiber Calico CapitalG Google DeepMind AlphaFold AlphaGo o vs. Fan Hui o vs. Ke Jie o vs. Lee Sedol o film Future of Go Summit AlphaGo Zero AlphaStar AlphaZero Current Master MuZero WaveNet DoubleClick Firebase Fitbit **Subsidiaries** Tenor Waze YouTube o GV Isomorphic Labs Verily Baseline Study X Development Waymo Wing Boston Dynamics
 - Chronicle Security
 - Jigsaw
 - Loon
 - **Former**
- Makani
- Meka Robotics
- Nest Labs
- Sidewalk Labs
 - Toronto
- Vicarious

Sundar Pichai (CEO)

 Ruth Porat (president and CIO) Current

Anat Ashkenazi (CFO)

Executives

Larry Page (CEO)

Sergey Brin (President) Former

David Drummond (CLO)

Frances Arnold

Sergey Brin

• R. Martin Chavez

John Doerr

John L. Hennessy

Ann Mather

Larry Page

Sundar Pichai

Ram Shriram

• Roger W. Ferguson Jr.

o Diane Greene

Alan Mulally

Eric Schmidt

Andrew Conrad

Tony Fadell

o Arthur D. Levinson

David Krane

Astro Teller

- Image not found or type unknown Companies portal
- icon o image intermet iportation

People

Current

Former

Board of directors

Others

- 0 **V**
- 0 **t**
- 0 0

Android

- o Android Go
 - Comparison of products

- Android Runtime (ART)
- Software development kit (SDK)
 - Android Debug Bridge (ADB)
 - Fastboot
 - Android App Bundle
 - Android application package (APK)
- Bionic
- Dalvik
- Firebase
 - Google Cloud Messaging (GCM)
 - Firebase Cloud Messaging (FCM)

Official

- Google Mobile Services (GMS)
- Native development kit (NDK)
- Open accessory development kit (OADK)
- RenderScript
- Skia
- AdMob
- Material Design
- Fonts
 - o Droid
 - Roboto
 - Noto
- Google Developers

Software development

Other

- OpenBinder
- Apache Harmony
- OpenJDK
- Gradle

Integrated development environments (IDE)

Development

tools

- Android Studio
 - IntelliJ IDEA
- Eclipse
 - Android Development Tools (ADT)
- MIT App Inventor
- Java
- Kotlin

Languages, databases

- o XML
- /\ivi
- o **C**
- o C++
- SQLite

Android XR

- Cupcake (1.5)
- o Donut (1.6)
- o Eclair (2.0–2.1)
- Froyo (2.2)
- o Gingerbread (2.3)
- Honeycomb (3.x)
- o Ice Cream Sandwich (4.0)
- Jelly Bean (4.1–4.3)
- KitKat (4.4)
- Lollipop (5.x)
- Releases Marshmallow (6.0)
 - Nougat (7.x)
 - Oreo (8.x)
 - o Pie (9)
 - 0 10
 - 0 11
 - 0 12
 - o 13
 - 0 14
 - 0 15
 - 0 16
 - Android Automotive
 - Android Things
- Derivatives
- o TV
 - devices
- Android XR
- Wear OS

Pixel	 C Pixel & Pixel XL 2 & 2 XL 3 & 3 XL 3 a & 3a XL 4 & 4 XL 4a & 4a (5G) 5 5a 6a 7 & 7 Pro 6a 7 & 7 Pro 7a Fold Tablet 8 & 8 Pro 8a 9, 9 Pro & 9 Pro XL 9 Pro Fold
Nexus	 One S Galaxy Nexus 4 10 Q 5 5X 6 6P 7 2012 2013 9 Player
Play edition	 HTC One (M7) HTC One (M8) LG G Pad 8.3 Moto G Samsung Galaxy S4 Sony Xperia Z Ultra

Devices

- Android One
- o other smartphones

- AliOS
- o Android-x86
 - Remix OS
- o AOKP
- o Baidu Yi
- Barnes & Noble Nook
- o CalyxOS
- o ColorOS
 - o realme UI
- CopperheadOS
- o EMUI
 - Magic UI
- o Fire OS
- Flyme OS
- GrapheneOS
- Xiaomi HyperOS
 - o MIUI
 - MIUI for Poco
- LeWa OS
- LineageOS

Custom

distributions

- o /e/
- o CrDroid
- CyanogenMod
- DivestOS
- o iodéOS
- Kali NetHunter
- LiteOS
- Meta Horizon OS
- MicroG
- Nokia X software platform
- o OmniROM
- o OPhone
- OxygenOS
- PixelExperience
- o Pixel UI
- Replicant
- Resurrection Remix OS
- SlimRoms
- o TCL UI
- Ubuntu for Android
- XobotOS
- o ZUI

Booting and recovery

- Booting process
- Recovery mode
 - TWRP
 - ClockworkMod
- Fastboot

APIs

- Google Maps
- Google Play Services
 - SafetyNet
- Google Search
- Asus ZenFone
- Cherry OS
- ColorOS
- EMUI
- Funtouch OS
- Flyme OS
- o HiOS
- Hive UI (XOLO Hive)
- HTC Sense

Alternative UIs

- LG UX
 - o Optimus UI
- Motoblur
- One UI
- Origin OS
 - Experience
 - TouchWiz
- OxygenOS
- Pixel UI
- o XOS
- o Xperia UI

Rooting

- SuperSU
- Magisk
- Kingo Root
- Custom distributions
- Features

Lists

- Free and open-source applications
- Google apps
- Launchers

- Index of articles
- Androidland
- Chromecast
- Google

Related topics

- o Java vs. Android API
- Lawn statues
- BlueStacks
- Legal issues
 - o Google v. Oracle
 - smartphone patent wars
- o Category: Aridroid development
- Category: Mobile telecommunications
- o Software portal wn
- o Perelecommunication portal
- 0 **V**
- o **t**
- 0 0

Web search engines

- o Ahmia
 - o Ask.com
 - o Baidu o Bing

o AOL

- o Blackle
- Brave
- DuckDuckGo
- o Ecosia
- o Fireball
- o Google
- Kiddle
- KidRex
- **Dedicated**

Metasearch engines

- KidzSearch
- Lycos
- Mojeek
- Naver
- Parsijoo
- Perplexity AI
- Petal
- o Seznam.cz
- o Sogou
- Swisscows
- WebCrawler
- o Yahoo!
- Yandex
- Youdao
- o Dogpile
- Excite
- o Info.com
- Kagi
- MetaCrawler
- MetaGer
- Mullvad Leta
- SearXNG
- Startpage
- Qwant

Active

- o 123people
- o A9.com
- Aliweb
- AlltheWeb
- o AltaVista
- o Blekko
- Boogami
- Cuil
- Empas
- o Forestle
- GenieKnows
- Gigablast
- o Go.com
- HotBot
- Infoseek
- o Inktomi
- JumpStation
- LeapFish
- Neeva

Defunct

or

Inactive

- Northern Light
- o Pipilika
- Powerset
- Scroogle
- SearchMe
- Searx
- Soso
- Sputnik
- o Teoma
- Viewzi
- Vivisimo
- Volunia
- W3Catalog
- Wikiseek
- Yebol
- Yippy
- o Yooz
- Comparison
- Complete list

Authority control databases East this at Wikidata

Germany

United States

France

National • BnF data

Czech Republic

Norway

Israel

About Sydney

This article is about the Australian city. For the greater metropolitan area, see Greater Sydney. For the local government area, see City of Sydney. For other uses, see Sydney (disambiguation).



Sydney Opera House and Harbour E

Image not found or type unknown

Sydney Opera House and Harbour Bridge Queen Victoria Bu

Image not found or type unk

Queen Victoria Building University of Sydn

Image not found or type unkr

University of Sydney Bondi Beach

Image not found or type unki

Bondi Beach Archibald Fountair

Image not found or type unki

Archibald Fountain and St Mary's Cathedral Sydney central business district

Image not found or type unknown

Sydney central business district

Map of the Sydney metropolitan area

Image not found or type unknown

Map of the Sydney metropolitan area

Sydney is located in Australia

Image not found or type unknown **Sydney**

Coordinates	33°52?S 151°12?EAfA¯A,A»A,A¿ / AfA¯A,A»A,A¿33.867°S 151.200°E	
Population	5,450,496 (2023)[1] (1st)	
Density	441/km ² (1,140/sq mi) (2023)[1]	
Established	<mark>olished</mark> 26 January 1788; 237 years ago	
Area	12,367.7 km ² (4,775.2 sq mi)(GCCSA)[2]	
Time zone	AEST (UTC+10)	
• Summer (DST)	mmer (DST) AEDT (UTC+11)	
Location	 287 km (178 mi) NE of Canberra 877 km (545 mi) NE of Melbourne 923 km (574 mi) S of Brisbane 1,404 km (872 mi) E of Adelaide 3,936 km (2,446 mi) E of Perth 	
LGA(s)	Various (33)	
County	Cumberland[3]	

State electorate(s) Various (49)
Federal division(s) Various (24)

Mean max temp[4]	Mean min temp[4]	Annual rainfall[4]
22.8 °C	14.7 °C	1,149.7 mm
73 °F	58 °F	45.3 in

Sydney is the capital city of the state of New South Wales and the most populous city in Australia . Located on Australia's east coast, the metropolis surrounds Sydney Harbour and extends about 80 km (50 mi) from the Pacific Ocean in the east to the Blue Mountains in the west, and about 80 km (50 mi) from Ku-ring-gai Chase National Park and the Hawkesbury River in the north and north-west, to the Royal National Park and Macarthur in the south and south-west.[5] Greater Sydney consists of 658 suburbs, spread across 33 local government areas. Residents of the city are colloquially known as "Sydneysiders".[6] The estimated population in June 2023 was 5,450,496,[1] which is about 66% of the state's population.[7] The city's nicknames include the Emerald City and the Harbour City.[8]

There is evidence that Aboriginal Australians inhabited the Greater Sydney region at least 30,000 years ago, and their engravings and cultural sites are common. The traditional custodians of the land on which modern Sydney stands are the clans of the Darug, Dharawal and Eora.[9] During his first Pacific voyage in 1770, James Cook charted the eastern coast of Australia, making landfall at Botany Bay. In 1788, the First Fleet of convicts, led by Arthur Phillip, founded Sydney as a British penal colony, the first European settlement in Australia.[10] After World War II, Sydney experienced mass migration and by 2021 over 40 per cent of the population was born overseas. Foreign countries of birth with the greatest representation are mainland China, India, the United Kingdom, Vietnam and the Philippines.[11]

Despite being one of the most expensive cities in the world,[12][13] Sydney frequently ranks in the top ten most liveable cities.[14][15][16] It is classified as an Alpha+ city by the Globalization and World Cities Research Network, indicating its influence in the region and throughout the world.[17][18] Ranked eleventh in the world for economic opportunity,[19] Sydney has an advanced market economy with strengths in education, finance, manufacturing and tourism.[20][21] The University of Sydney and the University of New South Wales are ranked 18th and 19th in the world respectively.[22]

Sydney has hosted major international sporting events such as the 2000 Summer Olympics, the 2003 Rugby World Cup Final, and the 2023 FIFA Women's World Cup Final. The city is among the top fifteen most-visited,[23] with millions of tourists coming each year to see the city's landmarks.[24] The city has over 1,000,000 ha (2,500,000 acres) of nature reserves and parks,[25] and its notable natural features include Sydney Harbour and Royal National Park. The Sydney Harbour Bridge and the World Heritage-listed Sydney Opera House are major tourist attractions. Central Station is the hub of Sydney's suburban train, metro and light rail networks and longer-distance services. The main passenger airport serving the city is Kingsford Smith Airport, one of the world's oldest continually operating airports.[26]

Toponymy

[edit]

In 1788, Captain Arthur Phillip, the first governor of New South Wales, named the cove where the first British settlement was established Sydney Cove after Home Secretary Thomas Townshend, 1st Viscount Sydney.[27] The cove was called *Warrane* by the Aboriginal inhabitants.[28] Phillip considered naming the settlement Albion, but this name was never officially used.[27] By 1790 Phillip and other officials were regularly calling the township Sydney.[29] Sydney was declared a city in 1842.[30]

The Gadigal (Cadigal) clan, whose territory stretches along the southern shore of Port Jackson from South Head to Darling Harbour, are the traditional owners of the land on which the British settlement was initially established, and call their territory *Gadi* (*Cadi*). Aboriginal clan names within the Sydney region were often formed by adding the suffix "-gal" to a word denoting the name for their territory, a specific place in their territory, a food source, or totem. Greater Sydney covers the traditional lands of 28 known Aboriginal clans.[31]

History

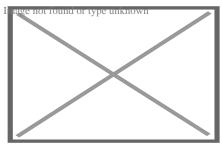
[edit]

Main article: History of Sydney

For a chronological guide, see Timeline of Sydney.

First inhabitants of the region

[edit]



Charcoal drawing of kangaroos in Heathcote National Park

The first people to inhabit the area now known as Sydney were Aboriginal Australians who had migrated from southeast Asia via northern Australia.[32] Flaked pebbles found in Western Sydney's gravel sediments might indicate human occupation from 45,000 to 50,000 years ago,[33] while radiocarbon dating has shown evidence of human activity in the region from around 30,000 years ago.[34] Prior to the arrival of the British, there were 4,000 to 8,000 Aboriginal people in the greater Sydney region.[35][9]

The inhabitants subsisted on fishing, hunting, and gathering plants and shellfish. The diet of the coastal clans was more reliant on seafood whereas hinterland clans ate more forest animals and

plants. The clans had distinctive equipment and weapons mostly made of stone, wood, plant materials, bone and shell. They also differed in their body decorations, hairstyles, songs and dances. Aboriginal clans had a rich ceremonial life, part of a belief system centring on ancestral, totemic and supernatural beings. People from different clans and language groups came together to participate in initiation and other ceremonies. These occasions fostered trade, marriages and clan alliances.[36]

The earliest British settlers recorded the word 'Eora' as an Aboriginal term meaning either 'people' or 'from this place'.[37][9] The clans of the Sydney area occupied land with traditional boundaries. There is debate, however, about which group or nation these clans belonged to, and the extent of differences in language and rites. The major groups were the coastal Eora people, the Dharug (Darug) occupying the inland area from Parramatta to the Blue Mountains, and the Dharawal people south of Botany Bay.[9] Darginung and Gundungurra languages were spoken on the fringes of the Sydney area.[38]

Aboriginal clans of Sydney area, as recorded by early British settlers

Clan	Territory name	Location
Bediagal	Not recorded	Probably north-west of Parramatta
Birrabirragal	Birrabirra	Lower Sydney Harbour around Sow and Pigs reef
Boolbainora	Boolbainmatta	Parramatta area
Borogegal	Booragy	Probably Bradleys Head and surrounding area
Boromedegal	Not recorded	Parramatta
Buruberongal	Not recorded	North-west of Parramatta
Darramurragal	Not recorded	Turramarra area
Gadigal	Cadi (Gadi)	South side of Port Jackson, from South Head to Darling Harbour
Gahbrogal	Not recorded	Liverpool and Cabramatta area
Gamaragal	Cammeray	North shore of Port Jackson
Gameygal	Kamay	Botany Bay
Gannemegal	Warmul	Parramatta area
Garigal	Not recorded	Broken Bay area
Gayamaygal	Kayeemy	Manly Cove
Gweagal	Gwea	Southern shore of Botany Bay
Wallumedegal	Wallumede	North shore of Port Jackson, opposite Sydney Cove
Wangal	Wann	South side of Port Jackson, from Darling Harbour to Rose Hill

Clans of the Sydney region whose territory wasn't reliably recorded are: the Domaragal, Doogagal, Gannalgal,

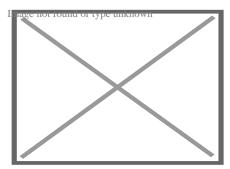
Gomerigal, Gooneeowlgal, Goorunggurregal, Gorualgal, Murrooredial, Noronggerragal, Oryangsoora and Wandeandegal.

Note: The names and territory boundaries do not always correspond with those used by contemporary Aboriginal groups of the greater Sydney area.[38][39][40]

The first meeting between Aboriginals and British explorers occurred on 29 April 1770 when Lieutenant James Cook landed at Botany Bay (Kamay[41]) and encountered the Gweagal clan.[42] Two Gweagal men opposed the landing party and one was shot and wounded.[43][44] Cook and his crew stayed at Botany Bay for a week, collecting water, timber, fodder and botanical specimens and exploring the surrounding area. Cook sought to establish relations with the Aboriginal population without success.[45]

Convict town (1788-1840)

[edit]



The Founding of Australia, 26 January 1788, by Captain Arthur Phillip R.N., Sydney Cove. Painting by Algernon Talmage.

Britain had been sending convicts to its American colonies for most of the eighteenth century, and the loss of these colonies in 1783 was the impetus to establish a penal colony at Botany Bay. Proponents of colonisation also pointed to the strategic importance of a new base in the Asia-Pacific region and its potential to provide much-needed timber and flax for the navy.[46]

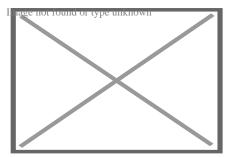
The First Fleet of 11 ships under the command of Captain Arthur Phillip arrived in Botany Bay in January 1788. It comprised more than a thousand settlers, including 736 convicts.[47] The fleet soon moved to the more suitable Port Jackson where a settlement was established at Sydney Cove on 26 January 1788.[48] The colony of New South Wales was formally proclaimed by Governor Phillip on 7 February 1788. Sydney Cove offered a fresh water supply and a safe harbour, which Philip described as "the finest Harbour in the World ... Here a Thousand Sail of the Line may ride in the most perfect Security".[49]

The settlement was planned to be a self-sufficient penal colony based on subsistence agriculture. Trade and shipbuilding were banned in order to keep the convicts isolated. However, the soil around the settlement proved poor and the first crops failed, leading to several years of hunger

and strict rationing. The food crisis was relieved with the arrival of the Second Fleet in mid-1790 and the Third Fleet in 1791.[50] Former convicts received small grants of land, and government and private farms spread to the more fertile lands around Parramatta, Windsor and Camden on the Cumberland Plain. By 1804, the colony was self-sufficient in food.[51]

A smallpox epidemic in April 1789 killed about half the region's Indigenous population.[9][52] In November 1790 Bennelong led a group of survivors of the Sydney clans into the settlement, establishing a continuous presence of Aboriginal Australians in settled Sydney.[53]

Phillip had been given no instructions for urban development, but in July 1788 submitted a plan for the new town at Sydney Cove. It included a wide central avenue, a permanent Government House, law courts, hospital and other public buildings, but no provision for warehouses, shops, or other commercial buildings. Phillip promptly ignored his own plan, and unplanned development became a feature of Sydney's topography.[54][55]



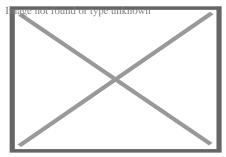
Thomas Watling's View of Sydney Cove, c. 1794-1796

After Phillip's departure in December 1792, the colony's military officers began acquiring land and importing consumer goods from visiting ships. Former convicts engaged in trade and opened small businesses. Soldiers and former convicts built houses on Crown land, with or without official permission, in what was now commonly called Sydney town. Governor William Bligh (1806–08) imposed restrictions on commerce and ordered the demolition of buildings erected on Crown land, including some owned by past and serving military officers. The resulting conflict culminated in the Rum Rebellion of 1808, in which Bligh was deposed by the New South Wales Corps.[56][57]

Governor Lachlan Macquarie (1810–1821) played a leading role in the development of Sydney and New South Wales, establishing a bank, a currency and a hospital. He employed a planner to design the street layout of Sydney and commissioned the construction of roads, wharves, churches, and public buildings. Parramatta Road, linking Sydney and Parramatta, was opened in 1811,[58] and a road across the Blue Mountains was completed in 1815, opening the way for large-scale farming and grazing west of the Great Dividing Range.[59][60]

Following the departure of Macquarie, official policy encouraged the emigration of free British settlers to New South Wales. Immigration to the colony increased from 900 free settlers in 1826–30 to 29,000 in 1836–40, many of whom settled in Sydney.[61][62] By the 1840s Sydney exhibited a geographic divide between poor and working-class residents living west of the Tank Stream in areas such as The Rocks, and the more affluent residents living to its east.[62] Free settlers, free-born residents and former convicts now represented the vast majority of the

population of Sydney, leading to increasing public agitation for responsible government and an end to transportation. Transportation to New South Wales ceased in 1840.[63]



The Castle Hill convict rebellion of 1804

Conflict on the Cumberland Plain

[edit]

In 1804, Irish convicts led around 300 rebels in the Castle Hill Rebellion, an attempt to march on Sydney, commandeer a ship, and sail to freedom.[64] Poorly armed, and with their leader Philip Cunningham captured, the main body of insurgents were routed by about 100 troops and volunteers at Rouse Hill. At least 39 convicts were killed in the uprising and subsequent executions.[65][66]

As the colony spread to the more fertile lands around the Hawkesbury River, north-west of Sydney, conflict between the settlers and the Darug people intensified, reaching a peak from 1794 to 1810. Bands of Darug people, led by Pemulwuy and later by his son Tedbury, burned crops, killed livestock and raided settler stores in a pattern of resistance that was to be repeated as the colonial frontier expanded. A military garrison was established on the Hawkesbury in 1795. The death toll from 1794 to 1800 was 26 settlers and up to 200 Darug.[67][68]

Conflict again erupted from 1814 to 1816 with the expansion of the colony into Dharawal country in the Nepean region south-west of Sydney. Following the deaths of several settlers, Governor Macquarie dispatched three military detachments into Dharawal lands, culminating in the Appin massacre (April 1816) in which at least 14 Aboriginal people were killed.[69][70]

Colonial city (1841-1900)

[edit]

The New South Wales Legislative Council became a semi-elected body in 1842. Sydney was declared a city the same year, and a governing council established, elected on a restrictive property franchise.[63]



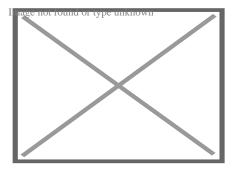
Aerial illustration of Sydney, 1888

The discovery of gold in New South Wales and Victoria in 1851 initially caused economic disruption as men moved to the goldfields. Melbourne soon overtook Sydney as Australia's largest city, leading to an enduring rivalry between the two. However, increased immigration from overseas and wealth from gold exports increased demand for housing, consumer goods, services and urban amenities.[71] The New South Wales government also stimulated growth by investing heavily in railways, trams, roads, ports, telegraph, schools and urban services.[72] The population of Sydney and its suburbs grew from 95,600 in 1861 to 386,900 in 1891.[73] The city developed many of its characteristic features. The growing population packed into rows of terrace houses in narrow streets. New public buildings of sandstone abounded, including at the University of Sydney (1854–61),[74] the Australian Museum (1858–66),[75] the Town Hall (1868–88),[76] and the General Post Office (1866–92).[77] Elaborate coffee palaces and hotels were erected.[78] Daylight bathing at Sydney's beaches was banned, but segregated bathing at designated ocean baths was popular.[79]

Drought, the winding down of public works and a financial crisis led to economic depression in Sydney throughout most of the 1890s. Meanwhile, the Sydney-based premier of New South Wales, George Reid, became a key figure in the process of federation.[80]

State capital (1901-present)

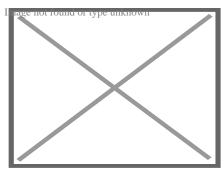
[edit]



A tramcar on George Street in 1920. Sydney once had one of the largest tram networks in the British Empire.

When the six colonies federated on 1 January 1901, Sydney became the capital of the State of New South Wales. The spread of bubonic plague in 1900 prompted the state government to modernise the wharves and demolish inner-city slums. The outbreak of the First World War in 1914 saw more Sydney males volunteer for the armed forces than the Commonwealth authorities could process, and helped reduce unemployment. Those returning from the war in 1918 were promised "homes fit for heroes" in new suburbs such as Daceyville and Matraville. "Garden suburbs" and mixed industrial and residential developments also grew along the rail and tram corridors. [62] The population reached one million in 1926, after Sydney had regained its position as the most populous city in Australia. [81] The government created jobs with massive public projects such as the electrification of the Sydney rail network and building the Sydney Harbour

Bridge.[82]



Sydney Harbour Bridge opening day, 19 March 1932

Sydney was more severely affected by the Great Depression of the 1930s than regional New South Wales or Melbourne.[83] New building almost came to a standstill, and by 1933 the unemployment rate for male workers was 28 per cent, but over 40 per cent in working class areas such as Alexandria and Redfern. Many families were evicted from their homes and shanty towns grew along coastal Sydney and Botany Bay, the largest being "Happy Valley" at La Perouse.[84] The Depression also exacerbated political divisions. In March 1932, when populist Labor premier Jack Lang attempted to open the Sydney Harbour Bridge he was upstaged by Francis de Groot of the far-right New Guard, who slashed the ribbon with a sabre.[85]

In January 1938, Sydney celebrated the Empire Games and the sesquicentenary of European settlement in Australia. One journalist wrote, "Golden beaches. Sun tanned men and maidens...Red-roofed villas terraced above the blue waters of the harbour...Even Melbourne seems like some grey and stately city of Northern Europe compared with Sydney's sub-tropical splendours." A congress of the "Aborigines of Australia" declared 26 January "A Day of Mourning" for "the whiteman's seizure of our country." [86]

With the outbreak of Second World War in 1939, Sydney experienced a surge in industrial development. Unemployment virtually disappeared and women moved into jobs previously typically reserved for males. Sydney was attacked by Japanese submarines in May and June 1942 with 21 killed. Households built air raid shelters and performed drills.[87] Military establishments in response to World War II in Australia included the Garden Island Tunnel System, the only tunnel warfare complex in Sydney, and the heritage-listed military fortification systems Bradleys Head Fortification Complex and Middle Head Fortifications, which were part of a total defence system for Sydney Harbour.[88]

A post-war immigration and baby boom saw a rapid increase in Sydney's population and the spread of low-density housing in suburbs throughout the Cumberland Plain. Immigrants—mostly from Britain and continental Europe—and their children accounted for over three-quarters of Sydney's population growth between 1947 and 1971.[89] The newly created Cumberland County Council oversaw low-density residential developments, the largest at Green Valley and Mount Druitt. Older residential centres such as Parramatta, Bankstown and Liverpool became suburbs of the metropolis.[90] Manufacturing, protected by high tariffs, employed over a third of the workforce from 1945 to the 1960s. However, as the long post-war economic boom progressed, retail and other service industries became the main source of new jobs.[91]

An estimated one million onlookers, most of the city's population, watched Queen Elizabeth II land in 1954 at Farm Cove where Captain Phillip had raised the Union Jack 165 years earlier, commencing her Australian Royal Tour. It was the first time a reigning monarch stepped onto Australian soil.[92]

Increasing high-rise development in Sydney and the expansion of suburbs beyond the "green belt" envisaged by the planners of the 1950s resulted in community protests. In the early 1970s, trade unions and resident action groups imposed green bans on development projects in historic areas such as The Rocks. Federal, State and local governments introduced heritage and environmental legislation.[62] The Sydney Opera House was also controversial for its cost and disputes between architect Jørn Utzon and government officials. However, soon after it opened in 1973 it became a major tourist attraction and symbol of the city.[93] The progressive reduction in tariff protection from 1974 began the transformation of Sydney from a manufacturing centre to a "world city".[94] From the 1980s, overseas immigration grew rapidly, with Asia, the Middle East and Africa becoming major sources. By 2021, the population of Sydney was over 5.2 million, with 40% of the population born overseas. China and India overtook England as the largest source countries for overseas-born residents.[95]

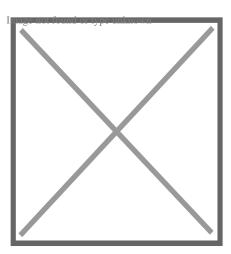
Geography

[edit]

Main article: Geography of Sydney

Topography

[edit]



Sydney lies on a submergent coastline where the ocean level has risen to flood deep rias.

Sydney is a coastal basin with the Tasman Sea to the east, the Blue Mountains to the west, the Hawkesbury River to the north, and the Woronora Plateau to the south.

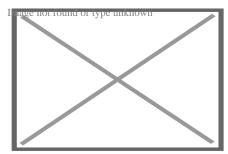
Sydney spans two geographic regions. The Cumberland Plain lies to the south and west of the Harbour and is relatively flat. The Hornsby Plateau is located to the north and is dissected by steep valleys. The flat areas of the south were the first to be developed; it was not until the construction of the Sydney Harbour Bridge that the northern reaches became more heavily populated. Seventy surf beaches can be found along its coastline, with Bondi Beach being the most famous.

The Nepean River wraps around the western edge of the city and becomes the Hawkesbury River before reaching Broken Bay. Most of Sydney's water storages can be found on tributaries of the Nepean River. The Parramatta River is mostly industrial and drains a large area of Sydney's western suburbs into Port Jackson. The southern parts of the city are drained by the Georges River and the Cooks River into Botany Bay.

There is no single definition of the boundaries of Sydney. The Australian Statistical Geography Standard definition of Greater Sydney covers 12,369 km² (4,776 sq mi) and includes the local government areas of Central Coast in the north, Hawkesbury in the north-west, Blue Mountains in the west, Sutherland Shire in the south, and Wollondilly in the south-west.[96] The local government area of the City of Sydney covers about 26 square kilometres from Garden island in the east to Bicentennial Park in the west, and south to the suburbs of Alexandria and Rosebery.[97]

Geology

[edit]



Almost all of the exposed rocks around Sydney are Sydney sandstone.

Sydney is made up of mostly Triassic rock with some recent igneous dykes and volcanic necks (typically found in the Prospect dolerite intrusion, west of Sydney).[98] The Sydney Basin was formed in the early Triassic period.[99] The sand that was to become the sandstone of today was laid down between 360 and 200 million years ago. The sandstone has shale lenses and fossil riverbeds.[99] The continental shelf of Australia is only 25.9 km (16.1 mi) away from the coast of Sydney, and that is where the Tasman Abyssal Plain lies.[100][101]

The Sydney Basin bioregion includes coastal features of cliffs, beaches, and estuaries. Deep river valleys known as rias were carved during the Triassic period in the Hawkesbury sandstone of the coastal region. The rising sea level between 18,000 and 6,000 years ago flooded the rias to form estuaries and deep harbours.[99] Port Jackson, better known as Sydney Harbour, is one

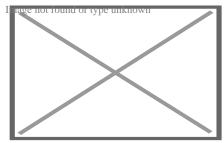
such ria.[102] Sydney features two major soil types: sandy soils (which originate from the Hawkesbury sandstone) and clay (which are from shales and volcanic rocks), though some soils may be a mixture of the two.[103]

Directly overlying the older Hawkesbury sandstone is the Wianamatta shale, a geological feature found in western Sydney that was deposited in connection with a large river delta during the Middle Triassic. The Wianamatta shale generally comprises fine grained sedimentary rocks such as shales, mudstones, ironstones, siltstones and laminites, with less common sandstone units.[104] The Wianamatta Group is made up of Bringelly Shale, Minchinbury Sandstone and Ashfield Shale.[105]

Ecology

[edit]

Further information: Ecology of Sydney



Typical grassy woodland in the Sydney metropolitan area

The most prevalent plant communities in the Sydney region are grassy woodlands (i.e. savannas) [106] and some pockets of dry sclerophyll forests,[107] which consist of eucalyptus trees, casuarinas, melaleucas, corymbias and angophoras, with shrubs (typically wattles, callistemons, grevilleas and banksias), and a semi-continuous grass in the understory.[108] The plants in this community tend to have rough, spiky leaves due to low soil fertility. Sydney also features a few areas of wet sclerophyll forests in the wetter, elevated areas in the north and northeast. These forests are defined by straight, tall tree canopies with a moist understory of soft-leaved shrubs, tree ferns and herbs.[109]

The predominant vegetation community in Sydney is the Cumberland Plain Woodland in Western Sydney (Cumberland Plain),[110] followed by the Sydney Turpentine-Ironbark Forest in the Inner West and Northern Sydney,[111] the Eastern Suburbs Banksia Scrub in the coastline and the Blue Gum High Forest scantily present in the North Shore – all of which are critically endangered. [112][113] The city also includes the Sydney Sandstone Ridgetop Woodland found in Ku-ring-gai Chase National Park on the Hornsby Plateau to the north.[114]

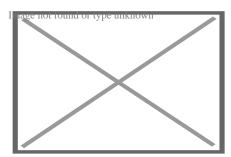
Sydney is home to dozens of bird species,[115] which commonly include the Australian raven, Australian magpie, crested pigeon, noisy miner and the pied currawong. Introduced bird species ubiquitously found in Sydney are the common myna, common starling, house sparrow and the spotted dove.[116] Reptile species are also numerous and predominantly include skinks.[117][118] Sydney has a few mammal and spider species, such as the grey-headed flying fox and the

Sydney funnel-web, respectively,[119][120] and has a huge diversity of marine species inhabiting its harbour and beaches.[121]

Climate

[edit]

Main articles: Climate of Sydney and Severe weather events in Sydney



A summer storm over Sydney Harbour

Under the Köppen–Geiger classification, Sydney has a humid subtropical climate (*Cfa*)[122] with "warm, sometimes hot" summers and "generally mild",[123][124][125] to "cool" winters.[126] The El Niño–Southern Oscillation, the Indian Ocean Dipole and the Southern Annular Mode[127][128] play an important role in determining Sydney's weather patterns: drought and bushfire on the one hand, and storms and flooding on the other, associated with the opposite phases of the oscillation in Australia. The weather is moderated by proximity to the ocean, and more extreme temperatures are recorded in the inland western suburbs because Sydney CBD is more affected by the oceanic climate drivers than the western suburbs.[129][130]

At Sydney's primary weather station at Observatory Hill, extreme temperatures have ranged from 45.8 °C (114.4 °F) on 18 January 2013 to 2.1 °C (35.8 °F) on 22 June 1932.[131][132][133] An average of 14.9 days a year have temperatures at or above 30 °C (86 °F) in the central business district (CBD).[130] In contrast, the metropolitan area averages between 35 and 65 days, depending on the suburb.[134] The hottest day in the metropolitan area occurred in Penrith on 4 January 2020, where a high of 48.9 °C (120.0 °F) was recorded.[135] The average annual temperature of the sea ranges from 18.5 °C (65.3 °F) in September to 23.7 °C (74.7 °F) in February.[136] Sydney has an average of 7.2 hours of sunshine per day[137] and 109.5 clear days annually.[4] Due to the inland location, frost is recorded early in the morning in Western Sydney a few times in winter. Autumn and spring are the transitional seasons, with spring showing a larger temperature variation than autumn.[138]

Sydney experiences an urban heat island effect.[139] This makes certain parts of the city more vulnerable to extreme heat, including coastal suburbs.[139][140] In late spring and summer, temperatures over 35 °C (95 °F) are not uncommon,[141] though hot, dry conditions are usually ended by a southerly buster,[142] a powerful southerly that brings gale winds and a rapid fall in temperature.[143] Since Sydney is downwind of the Great Dividing Range, it occasionally experiences dry, westerly foehn winds typically in winter and early spring (which are the reason for its warm maximum temperatures).[144][145][146] Westerly winds are intense when the

Roaring Forties (or the Southern Annular Mode) shift towards southeastern Australia,[147] where they may damage homes and affect flights, in addition to making the temperature seem colder than it actually is.[148][149]

Rainfall has a moderate to low variability and has historically been fairly uniform throughout the year, although in recent years it has been more summer-dominant and erratic.[150][151][152][153] Precipitation is usually higher in summer through to autumn,[124] and lower in late winter to early spring.[127][154][130][155] In late autumn and winter, east coast lows may bring large amounts of rainfall, especially in the CBD.[156] In the warm season black nor'easters are usually the cause of heavy rain events, though other forms of low-pressure areas, including remnants of ex-cyclones, may also bring heavy deluge and afternoon thunderstorms.[157][158] 'Snow' was last alleged in 1836, more than likely a fall of graupel, or soft hail; and in July 2008 the Upper North Shore saw a fall of graupel that was mistaken by many for 'snow'.[159] In 2009, dry conditions brought a severe dust storm towards the city.[160][161]

vt

o **e**

Climate data for Sydney (Observatory Hill) 1991–2020 averages, 1861–present extremes Sep Month Feb Mar May Jun Jul Aug Oct Jan Apr Nov Dec Yea Record 42.1 26.9 45.8 39.8 35.4 30.0 26.5 31.3 34.6 38.2 41.8 42.2 45.8 high °C (114.4)(107.8)(103.6)(95.7)(86.0)(80.4)(79.7)(88.3)(94.3)(100.8)(107.2)(108.0)(114.4)(°F) Mean 36.8 34.1 25.4 29.9 34.1 34.4 32.2 29.7 26.2 22.3 22.9 33.6 38.8 maximum (93.4)(85.5) (79.2) (72.1) (73.2) (77.7) (85.8) (98.2)(93.4)(90.0)(92.5)(93.9)(101.8)°C (°F) Mean daily 27.0 26.8 25.7 23.6 20.9 18.3 17.9 19.3 21.6 23.2 24.2 25.7 22.8 maximum (80.6)(80.2)(78.3)(74.5) (69.6) (64.9) (64.2) (66.7) (70.9) (73.8)(75.6)(78.3)(73.0)°C (°F) 23.4 14.2 13.4 Daily mean 23.5 22.1 19.5 16.6 14.5 17.0 18.9 20.4 22.1 18.8 °C (°F) (66.0)(74.3)(74.1)(71.8) (67.1) (61.9) (57.6) (56.1) (58.1) (62.6) (68.7)(71.8)(65.8)Mean daily 20.0 19.9 18.4 15.3 12.3 10.0 8.9 9.7 12.3 14.6 16.6 18.4 14.7 minimum (58.5)(68.0)(67.8)(65.1)(59.5) (54.1) (50.0) (48.0) (49.5) (54.1) (58.3) (61.9)(65.1)°C (°F) Mean 16.1 16.1 14.2 11.0 8.3 6.5 5.7 6.1 8.0 9.8 12.0 13.9 5.3 minimum (61.0)(61.0)(57.6) (51.8) (46.9) (43.7) (42.3) (43.0) (46.4) (49.6) (53.6)(41.5)(57.0)°C (°F) **Record low** 10.6 9.6 9.3 7.0 4.4 2.1 2.2 2.7 4.9 5.7 7.7 9.1 2.1 °C (°F) (51.1)(35.8)(49.3)(48.7) (44.6) (39.9) (35.8) (36.0) (36.9) (40.8) (42.3) (45.9)(48.4)Average 91.1 131.5 117.5 114.1 100.8 142.0 80.3 75.1 63.4 67.7 90.6 73.0 1,149 rainfall mm (5.18)(3.59)(4.49) (3.97) (5.59) (3.16) (2.96) (2.50) (2.67) (45.2) (4.63)(3.57)(2.87)(inches)

Average rainy days (? 1 mm)	8.2	9.0	10.1	7.9	7.9	9.3	7.2	5.6	5.8	7.6	8.7	7.9	95.2
Average afternoon relative humidity (%)	60	62	59	58	58	56	52	47	49	53	57	58	56
Average dew point °C (°F)	16.5 (61.7)	17.2 (63.0)	15.4 (59.7)	12.7 (54.9)	10.3 (50.5)	7.8 (46.0)	6.1 (43.0)	5.4 (41.7)	7.8 (46.0)	10.2 (50.4)	12.6 (54.7)	14.6 (58.3)	11.4 (52.5
Mean monthly sunshine hours	232.5	205.9	210.8	213.0	204.6	171.0	207.7	248.0	243.0	244.9	222.0	235.6	2,639
Percentage possible sunshine	53	54	55	63	63	57	66	72	67	61	55	55	60

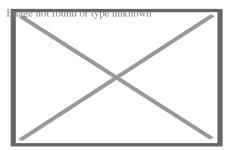
Source 1: Bureau of Meteorology[162][163][164][165]

Source 2: Bureau of Meteorology, Sydney Airport (sunshine hours)[166]

Regions

[edit]

Main article: Regions of Sydney

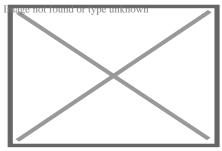


Sydney area at night, facing west. Wollongong is bottom left, and the Central Coast is at the far right.

The Greater Sydney Commission divides Sydney into three "cities" and five "districts" based on the 33 LGAs in the metropolitan area. The "metropolis of three cities" comprises *Eastern Harbour City*, *Central River City* and *Western Parkland City*.[167] The Australian Bureau of Statistics also includes City of Central Coast (the former Gosford City and Wyong Shire) as part of Greater Sydney for population counts,[168] adding 330,000 people.[169]

Inner suburbs

[edit]



Historical buildings in Millers Point, an inner suburb north of the CBD

The CBD extends about 3 km (1.9 mi) south from Sydney Cove. It is bordered by Farm Cove within the Royal Botanic Garden to the east and Darling Harbour to the west. Suburbs surrounding the CBD include Woolloomooloo and Potts Point to the east, Surry Hills and Darlinghurst to the south, Pyrmont and Ultimo to the west, and Millers Point and The Rocks to the north. Most of these suburbs measure less than 1 km² (0.4 sq mi) in area. The Sydney CBD is characterised by narrow streets and thoroughfares, created in its convict beginnings.[170]

Several localities, distinct from suburbs, exist throughout Sydney's inner reaches. Central and Circular Quay are transport hubs with ferry, rail, and bus interchanges. Chinatown, Darling Harbour, and Kings Cross are important locations for culture, tourism, and recreation. The Strand Arcade, located between Pitt Street Mall and George Street, is a historical Victorian-style shopping arcade. Opened on 1 April 1892, its shop fronts are an exact replica of the original internal shopping facades.[171] Westfield Sydney, located beneath the Sydney Tower, is the largest shopping centre by area in Sydney.[172]

Since the late 20th century, there has been a trend of gentrification amongst Sydney's inner suburbs. Pyrmont, located on the harbour, was redeveloped from a centre of shipping and international trade to an area of high density housing, tourist accommodation, and gambling.[173] Originally located well outside of the city, Darlinghurst is the location of the historic Darlinghurst Gaol, manufacturing, and mixed housing. For a period it was known as an area of prostitution. The terrace-style housing has largely been retained and Darlinghurst has undergone significant gentrification since the 1980s.[174][175][176]

Green Square is a former industrial area of Waterloo which is undergoing urban renewal worth \$8 billion. On the city harbour edge, the historic suburb and wharves of Millers Point are being built up as the new area of Barangaroo.[177][178] The suburb of Paddington is known for its restored terrace houses, Victoria Barracks, and shopping including the weekly Oxford Street markets.[179]

Inner West

[edit]



Newtown, one of the inner-most parts of the Inner West, is one of the most complete Victorian and Edwardian era commercial precincts in Australia.

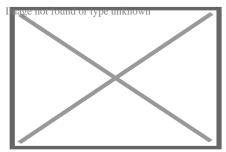
The Inner West generally includes the Inner West Council, Municipality of Burwood, Municipality of Strathfield, and City of Canada Bay. These span up to about 11 km west of the CBD. Historically, especially prior to the building of the Harbour Bridge,[180] the outer suburbs of the Inner West such as Strathfield were the location of "country" estates for the colony's elites. By contrast, the inner suburbs in the Inner West, being close to transport and industry, have historically housed working-class industrial workers. These areas have undergone gentrification in the late 20th century, and many parts are now highly valued residential suburbs.[181] As of 2021, an Inner West suburb (Strathfield) remained one of the 20 most expensive postcodes in Australia by median house price (the others were all in metropolitan Sydney, all in Northern Sydney or the Eastern Suburbs).[182] The University of Sydney is located in this area, as well as the University of Technology, Sydney and a campus of the Australian Catholic University. The Anzac Bridge spans Johnstons Bay and connects Rozelle to Pyrmont and the city, forming part of the Western Distributor.

The Inner West is today well known as the location of village commercial centres with cosmopolitan flavours, such as the "Little Italy" commercial centres of Leichardt, Five Dock and Haberfield,[183] "Little Portugal" in Petersham,[184] "Little Korea" in Strathfield[185] or "Little Shanghai" in Ashfield.[186] Large-scale shopping centres in the area include Westfield Burwood, DFO Homebush and Birkenhead Point Outlet Centre. There is a large cosmopolitan community and nightlife hub on King Street, Newtown.

The area is serviced by Sydney Trains' T1, T2 and T3 services, including the Main Suburban Line, which was the first to be constructed in New South Wales. Strathfield railway station is a secondary railway hub within Sydney, and major station on the Suburban and Northern lines. It was constructed in 1876.[187] The future Sydney Metro West will also connect this area with the City and Parramatta. The area is also serviced by the Parramatta River services of Sydney Ferries,[188] numerous bus routes and cycleways.[189]

Eastern suburbs

[edit]



Residences in Bellevue Hill. Sydney's eastern suburbs are made up of some of the most expensive real estate in the country[190]

The Eastern Suburbs encompass the Municipality of Woollahra, the City of Randwick, the Waverley Municipal Council, and parts of the Bayside Council. They include some of the most affluent and advantaged areas in the country, with some streets being amongst the most expensive in the world. As at 2014, Wolseley Road, Point Piper, had a top price of \$20,900 per square metre, making it the ninth-most expensive street in the world.[191] More than 75% of neighbourhoods in the Electoral District of Wentworth fall under the top decile of SEIFA advantage, making it the least disadvantaged area in the country.[192] As of 2021, of the 20 most expensive postcodes in Australia by median house price, nine were in the Eastern Suburbs.[182]

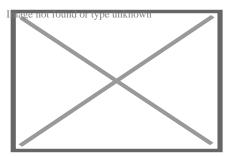
Major landmarks include Bondi Beach, which was added to the Australian National Heritage List in 2008;[193] and Bondi Junction, featuring a Westfield shopping centre and an estimated office workforce of 6,400 by 2035,[194] as well as a railway station on the T4 Eastern Suburbs Line. The suburb of Randwick contains Randwick Racecourse, the Royal Hospital for Women, the Prince of Wales Hospital, Sydney Children's Hospital, and University of New South Wales Kensington Campus.[195]

Construction of the CBD and South East Light Rail was completed in April 2020.[196] The project aims to provide reliable and high-capacity tram services to residents in the City and South-East.

Major shopping centres in the area include Westfield Bondi Junction and Westfield Eastgardens.

Southern Sydney

[edit]



Kurnell, La Perouse, and Cronulla, along with various other suburbs, face Botany Bay.

The Southern district of Sydney includes the suburbs in the local government areas of the Georges River Council (collectively known as St George) and the Sutherland Shire (colloquially known as 'The Shire'), on the southern banks of the Georges River.

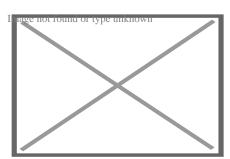
The Kurnell peninsula, near Botany Bay, is the site of the first landfall on the eastern coastline made by James Cook in 1770. La Perouse, a historic suburb named after the French navigator Jean-François de Galaup, comte de Lapérouse, is notable for its old military outpost at Bare Island and the Botany Bay National Park.

The suburb of Cronulla in southern Sydney is close to Royal National Park, Australia's oldest national park. Hurstville, a large suburb with commercial and high-rise residential buildings dominating the skyline, has become a CBD for the southern suburbs.[197]

Northern Sydney

[edit]

Further information: Northern Sydney



Chatswood is a major commercial district.

'Northern Sydney' includes the suburbs in the Upper North Shore, Lower North Shore and the Northern Beaches.

The Northern Suburbs include several landmarks – Macquarie University, Gladesville Bridge, Ryde Bridge, Macquarie Centre and Curzon Hall in Marsfield. This area includes suburbs in the local government areas of Hornsby Shire, Ku-ring-gai Council, City of Ryde, the Municipality of Hunter's Hill and parts of the City of Parramatta.

The North Shore includes the commercial centres of North Sydney and Chatswood. North Sydney itself consists of a large commercial centre, which contains the second largest concentration of high-rise buildings in Sydney after the CBD. North Sydney is dominated by advertising, marketing and associated trades, with many large corporations holding offices.

The Northern Beaches area includes Manly, one of Sydney's most popular holiday destinations. The region also features Sydney Heads, a series of headlands which form the entrance to Sydney Harbour. The Northern Beaches area extends south to the entrance of Port Jackson (Sydney Harbour), west to Middle Harbour and north to the entrance of Broken Bay.[198] The 2021 Australian census found the Northern Beaches to have, in comparison with the rest of Sydney, a large British diaspora and high concentration of people with European ancestry.[199]

As of the end of 2021, half of the 20 most expensive postcodes in Australia (by median house price) were in Northern Sydney, including four on the Northern Beaches, two on the Lower North Shore, three on the Upper North Shore, and one straddling Hunters Hill and Woolwich.[182]

Hills district

[edit]

The Hills district generally refers to the suburbs in north-western Sydney including the local government areas of The Hills Shire, parts of the City of Parramatta Council and Hornsby Shire. Actual suburbs and localities that are considered to be in the Hills District can be somewhat

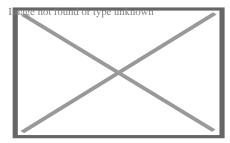
amorphous. For example, the Hills District Historical Society restricts its definition to the Hills Shire local government area, yet its study area extends from Parramatta to the Hawkesbury. The region is so named for its characteristically comparatively hilly topography as the Cumberland Plain lifts up, joining the Hornsby Plateau. Windsor and Old Windsor Roads are the second and third roads, respectively, laid in Australia.[200]

On 26 May 2019, The Sydney Metro Northwest, which went from Chatswood to Tallawong, opened, with a large portion running through the Hills District, which meant the Hills District, for the first time, started having heavy rail.[201] Before this, The Hills was served by Bus Rapid Transit.

Western suburbs

[edit]

Further information: Greater Western Sydney



Parramatta, a major commercial centre of Greater Western Sydney, is often referred to as Sydney's "second CBD"

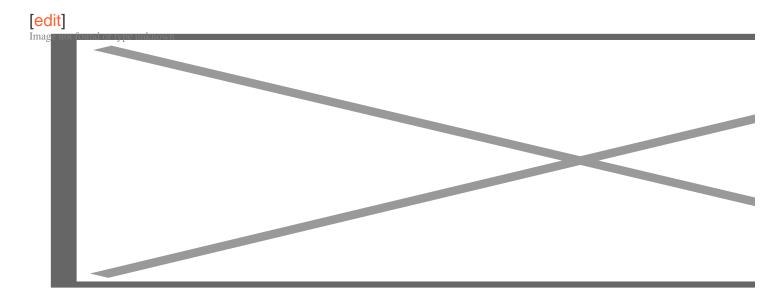
The greater western suburbs encompasses the areas of Parramatta, the sixth largest business district in Australia, settled the same year as the harbour-side colony,[202] Bankstown, Liverpool, Penrith, and Fairfield. Covering 5,800 km² (2,200 sq mi) and having an estimated population as at 2017 of 2,288,554, western Sydney has the most multicultural suburbs in the country – Cabramatta has earned the nickname "Little Saigon" due to its Vietnamese population, Fairfield has been named "Little Assyria" for its predominant Assyrian population and Harris Park is known as "Little India" with its plurality of Indian and Hindu population.[203][204][205][206] The population is predominantly of a working class background, with major employment in the heavy industries and vocational trade.[207] Toongabbie is noted for being the third mainland settlement (after Sydney and Parramatta) set up after British colonisation began in 1788, although the site of the settlement is actually in the separate suburb of Old Toongabbie.[208]

The western suburb of Prospect, in the City of Blacktown, is home to Raging Waters, a water park operated by Parques Reunidos.[209] Auburn Botanic Gardens, a botanical garden in Auburn, attracts thousands of visitors each year, including many from outside Australia.[210] The greater west also includes Sydney Olympic Park, a suburb created to host the 2000 Summer Olympics, and Sydney Motorsport Park, a circuit in Eastern Creek.[211] Prospect Hill, a historically significant ridge in the west and the only area in Sydney with ancient volcanic activity,[212] is also listed on the State Heritage Register.[213]

To the northwest, Featherdale Wildlife Park, a zoo in Doonside, near Blacktown, is a major tourist attraction.[214] Sydney Zoo, opened in 2019, is another prominent zoo situated in Bungaribee.[215] Established in 1799, the Old Government House, a historic house museum and tourist spot in Parramatta, was included in the Australian National Heritage List on 1 August 2007 and World Heritage List in 2010 (as part of the 11 penal sites constituting the Australian Convict Sites), making it the only site in greater western Sydney to be featured in such lists.[216] The house is Australia's oldest surviving public building.[217]

Further to the southwest is the region of Macarthur and the city of Campbelltown, a significant population centre until the 1990s considered a region separate to Sydney proper. Macarthur Square, a shopping complex in Campbelltown, has become one of the largest shopping complexes in Sydney.[218] The southwest also features Bankstown Reservoir, the oldest elevated reservoir constructed in reinforced concrete that is still in use and is listed on the State Heritage Register.[219] The southwest is home to one of Sydney's oldest trees, the Bland Oak, which was planted in the 1840s by William Bland in Carramar.[220]

Urban structure



The Sydney CBD with the Opera House and Harbour Bridge. Sydney is home to the most highrise buildings in the nation.[221]

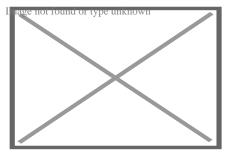
Architecture

[edit]

See also: Architecture of Sydney, List of heritage houses in Sydney, and List of tallest buildings in Sydney

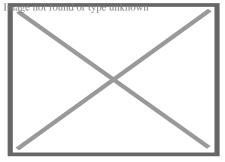
The earliest structures in the colony were built to the bare minimum of standards. Governor Macquarie set ambitious targets for the design of new construction projects. The city now has a world heritage listed building, several national heritage listed buildings, and dozens of Commonwealth heritage listed buildings as evidence of the survival of Macquarie's ideals.[222]

223][224]



York Street is an example of a city street in Sydney with an array of intact Victorian heritage architecture.

In 1814, the Governor called on a convict named Francis Greenway to design Macquarie Lighthouse.[225] The lighthouse's Classical design earned Greenway a pardon from Macquarie in 1818 and introduced a culture of refined architecture that remains to this day.[226] Greenway went on to design the Hyde Park Barracks in 1819 and the Georgian style St James's Church in 1824.[227][228] Gothic-inspired architecture became more popular from the 1830s. John Verge's Elizabeth Bay House and St Philip's Church of 1856 were built in Gothic Revival style along with Edward Blore's Government House of 1845.[229][230] Kirribilli House, completed in 1858, and St Andrew's Cathedral, Australia's oldest cathedral,[231] are rare examples of Victorian Gothic construction.[229][232]



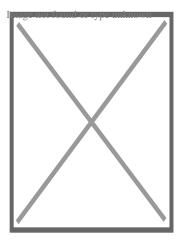
General Post Office

From the late 1850s there was a shift towards Classical architecture. Mortimer Lewis designed the Australian Museum in 1857.[233] The General Post Office, completed in 1891 in Victorian Free Classical style, was designed by James Barnet.[234] Barnet also oversaw the 1883 reconstruction of Greenway's Macquarie Lighthouse.[225][226] Customs House was built in 1844. [235] The neo-Classical and French Second Empire style Town Hall was completed in 1889.[236] [237] Romanesque designs gained favour from the early 1890s. Sydney Technical College was completed in 1893 using both Romanesque Revival and Queen Anne approaches.[238] The Queen Victoria Building was designed in Romanesque Revival fashion by George McRae; completed in 1898,[239] it accommodates 200 shops across its three storeys.[240]

As the wealth of the settlement increased and Sydney developed into a metropolis after Federation in 1901, its buildings became taller. Sydney's first tower was Culwulla Chambers which topped out at 50 m (160 ft) making 12 floors. The Commercial Traveller's Club, built in 1908, was of similar height at 10 floors. It was built in a brick stone veneer and demolished in

1972.[241] This heralded a change in Sydney's cityscape and with the lifting of height restrictions in the 1960s there came a surge of high-rise construction.[242]

The Great Depression had a tangible influence on Sydney's architecture. New structures became more restrained with far less ornamentation. The most notable architectural feat of this period is the Harbour Bridge. Its steel arch was designed by John Bradfield and completed in 1932. A total of 39,000 tonnes of structural steel span the 503 m (1,650 ft) between Milsons Point and Dawes Point.[243][244]



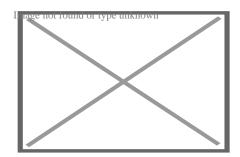
Frank Gehry's Dr Chau Chak Wing Building

Modern and International architecture came to Sydney from the 1940s. Since its completion in 1973 the city's Opera House has become a World Heritage Site and one of the world's most renowned pieces of Modern design. Jørn Utzon was awarded the Pritzker Prize in 2003 for his work on the Opera House.[245] Sydney is home to Australia's first building by renowned Canadian-American architect Frank Gehry, the Dr Chau Chak Wing Building (2015). An entrance from The Goods Line—a pedestrian pathway and former railway line—is located on the eastern border of the site.

Contemporary buildings in the CBD include Citigroup Centre,[246] Aurora Place,[247] Chifley Tower,[248][249] the Reserve Bank building,[250] Deutsche Bank Place,[251] MLC Centre,[252] and Capita Centre.[253] The tallest structure is Sydney Tower, designed by Donald Crone and completed in 1981.[254] Due to the proximity of Sydney Airport, a maximum height restriction was imposed, now sitting at 330 metres (1083 feet).[255] Green bans and heritage overlays have been in place since at least 1977 to protect Sydney's heritage after controversial demolitions in the 1970s.[256]

Housing

[edit]



Terraces in Kirribilli

Sydney surpasses both New York City and Paris real estate prices, having some of the most expensive in the world.[257][258] The city remains Australia's most expensive housing market, with the median house price at \$1,595,310 as of December 2023[259]

There were 1.83 million dwellings in Sydney in 2021 including 900,000 (54%) detached houses, 218,000 (13%) semi-detached terrace houses and 550,000 (33%) units and apartments.[260] Whilst terrace houses are common in the inner city areas, detached houses dominate the landscape in the outer suburbs. Due to environmental and economic pressures, there has been a noted trend towards denser housing, with a 30% increase in the number of apartments between 1996 and 2006.[261] Public housing in Sydney is managed by the Government of New South Wales.[262] Suburbs with large concentrations of public housing include Claymore, Macquarie Fields, Waterloo, and Mount Druitt.

A range of heritage housing styles can be found throughout Sydney. Terrace houses are found in the inner suburbs such as Paddington, The Rocks, Potts Point and Balmain, many of which have been the subject of gentrification.[263][264] These terraces, particularly those in suburbs such as The Rocks, were historically home to Sydney's miners and labourers. In the present day, terrace houses now make up some of the most valuable real estate in the city.[265] Surviving large mansions from the Victorian era are mostly found in the oldest suburbs, such as Double Bay, Darling Point, Rose Bay and Strathfield.[266]

Federation homes, constructed around the time of Federation in 1901, are located in a large number of suburbs that developed thanks to the arrival of railways in the late 19th century, such as Penshurst and Turramurra, and in large-scale planned "garden suburbs" such as Haberfield. Workers cottages are found in Surry Hills, Redfern, and Balmain. California bungalows are common in Ashfield, Concord, and Beecroft. Larger modern homes are predominantly found in the outer suburbs, such as Stanhope Gardens, Kellyville Ridge, Bella Vista to the northwest, Bossley Park, Abbotsbury, and Cecil Hills to the west, and Hoxton Park, Harrington Park, and Oran Park to the southwest.[267]

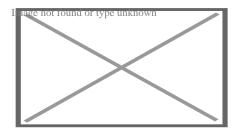
Parks and open spaces

[edit]

Main article: Parks in Sydney

The Anzac War Memorial in Hyde Park is a public memorial dedicated to the Australian Imperial Force of World War I.

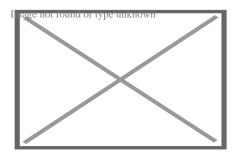
The Royal Botanic Garden is the most iconic green space in the region, hosting both scientific and leisure activities.[268] There are 15 separate parks under the City administration.[269] Parks within the city centre include Hyde Park, The Domain and Prince Alfred Park.



The Centennial Parklands is the largest park in the City of Sydney, comprising 189 ha (470 acres).[270]

The Centennial Parklands is the largest park in the City of Sydney, comprising 189 ha (470 acres).

The inner suburbs include Centennial Park and Moore Park in the east (both within the City of Sydney local government area), while the outer suburbs contain Sydney Park and Royal National Park in the south, Ku-ring-gai Chase National Park in the north, and Western Sydney Parklands in the west, which is one of the largest urban parks in the world. The Royal National Park was proclaimed in 1879 and with 13,200 ha (51 sq mi) is the second oldest national park in the world. [271]



The Anzac War Memorial in Hyde Park is a public memorial dedicated to the achievement of the Australian Imperial Force of World War I.[272]

Hyde Park is the oldest parkland in the country.[273] The largest park in the Sydney metropolitan area is Ku-ring-gai Chase National Park, established in 1894 with an area of 15,400 ha (59 sq mi).[274] It is regarded for its well-preserved records of indigenous habitation – more than 800 rock engravings, cave drawings and middens.[275]

The area now known as The Domain was set aside by Governor Arthur Phillip in 1788 as his private reserve.[276] Under the orders of Macquarie the land to the immediate north of The Domain became the Royal Botanic Garden in 1816. This makes them the oldest botanic garden in Australia.[276] The Gardens host scientific research with herbarium collections, a library and laboratories.[277] The two parks have a total area of 64 ha (0.2 sq mi) with 8,900 individual plant species and receive over 3.5 million annual visits.[278]

To the south of The Domain is Hyde Park, the oldest public parkland in Australia which measures 16.2 ha (0.1 sq mi).[279] Its location was used for both relaxation and grazing of animals from the earliest days of the colony.[280] Macquarie dedicated it in 1810 for the "recreation and amusement of the inhabitants of the town" and named it in honour of Hyde Park in London.

Economy

[edit]

Main article: Economy of Sydney



The central business district. Sydney is the financial and economic centre of Australia, having the largest economy and contributing a quarter of Australia's total GDP.[281]

Researchers from Loughborough University have ranked Sydney amongst the top ten world cities that are highly integrated into the global economy.[282] The Global Economic Power Index ranks Sydney eleventh in the world.[283] The Global Cities Index recognises it as fourteenth in the world based on global engagement.[284] There is a significant concentration of foreign banks and multinational corporations in Sydney and the city is promoted as Australia's financial capital and one of Asia Pacific's leading financial hubs.[285][286]

The prevailing economic theory during early colonial days was mercantilism, as it was throughout most of Western Europe.[287] The economy struggled at first due to difficulties in cultivating the land and the lack of a stable monetary system. Governor Macquarie created two coins from every Spanish silver dollar in circulation.[287] The economy was capitalist in nature by the 1840s as the proportion of free settlers increased, the maritime and wool industries flourished, and the powers of the East India Company were curtailed.[287]

Wheat, gold, and other minerals became export industries towards the end of the 1800s.[287] Significant capital began to flow into the city from the 1870s to finance roads, railways, bridges, docks, courthouses, schools and hospitals. Protectionist policies after federation allowed for the creation of a manufacturing industry which became the city's largest employer by the 1920s.[287] These same policies helped to relieve the effects of the Great Depression during which the unemployment rate in New South Wales reached as high as 32%.[287] From the 1960s onwards Parramatta gained recognition as the city's second CBD and finance and tourism became major industries and sources of employment.[287]

Sydney's nominal gross domestic product was AU\$400.9 billion and AU\$80,000 per capita[288] in 2015.[289][286] Its gross domestic product was AU\$337 billion in 2013, the largest in Australia. [289] The financial and insurance services industry accounts for 18.1% of gross product, ahead of professional services with 9% and manufacturing with 7.2%. The creative and technology sectors are also focus industries for the City of Sydney and represented 9% and 11% of its economic output in 2012.[290][291]

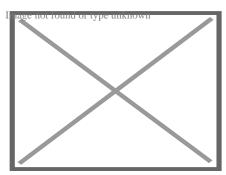
Businesses

[edit]

There were 451,000 businesses based in Sydney in 2011, including 48% of the top 500 companies in Australia and two-thirds of the regional headquarters of multinational corporations.[292] Global companies are attracted to the city in part because its time zone spans the closing of business in North America and the opening of business in Europe. Most foreign companies in Sydney maintain significant sales and service functions but comparably less production, research, and development capabilities.[293] There are 283 multinational companies with regional offices in Sydney.[294]

Domestic economics

[edit]



Pitt Street, a major street in the CBD, runs from Circular Quay in the north to Waterloo in the south, and is home to many large high-end retailers.[295]

Sydney has been ranked between the fifteenth and the fifth most expensive city in the world and is the most expensive city in Australia. [296] Of the 15 categories only measured by UBS in 2012, workers receive the seventh highest wage levels of 77 cities in the world. [296] Working residents of Sydney work an average of 1,846 hours per annum with 15 days of leave. [296]

The labour force of Greater Sydney Region in 2016 was 2,272,722 with a participation rate of 61.6%.[297] It comprised 61.2% full-time workers, 30.9% part-time workers, and 6.0% unemployed individuals.[260][298] The largest reported occupations are professionals, clerical and administrative workers, managers, technicians and trades workers, and community and personal service workers.[260] The largest industries by employment across Greater Sydney are Health Care and Social Assistance (11.6%), Professional Services (9.8%), Retail Trade (9.3%), Construction (8.2%), Education and Training (8.0%), Accommodation and Food Services (6.7%), and Financial and Insurance Services (6.6%).[2] The Professional Services and Financial and Insurance Services industries account for 25.4% of employment within the City of Sydney.[299]

In 2016, 57.6% of working-age residents had a weekly income of less than \$1,000 and 14.4% had a weekly income of \$1,750 or more.[300] The median weekly income for the same period was \$719 for individuals, \$1,988 for families, and \$1,750 for households.[301]

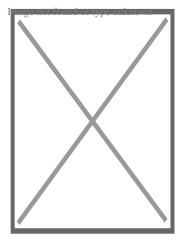
Unemployment in the City of Sydney averaged 4.6% for the decade to 2013, much lower than the current rate of unemployment in Western Sydney of 7.3%.[286][302] Western Sydney continues to struggle to create jobs to meet its population growth despite the development of commercial centres like Parramatta. Each day about 200,000 commuters travel from Western Sydney to the CBD and suburbs in the east and north of the city.[302]

Home ownership in Sydney was less common than renting prior to the Second World War but this trend has since reversed.[261] Median house prices have increased by an average of 8.6% per annum since 1970.[303][304] The median house price in March 2014 was \$630,000.[305] The primary cause of rising prices is the increasing cost of land and scarcity.[306] 31.6% of dwellings in Sydney are rented, 30.4% are owned outright and 34.8% are owned with a

mortgage.[260] 11.8% of mortgagees in 2011 had monthly loan repayments of less than \$1,000 and 82.9% had monthly repayments of \$1,000 or more.[2] 44.9% of renters for the same period had weekly rent of less than \$350 whilst 51.7% had weekly rent of \$350 or more. The median weekly rent in Sydney in 2011 was \$450.[2]

Financial services

[edit]



State Savings Bank

Macquarie gave a charter in 1817 to form the first bank in Australia, the Bank of New South Wales.[307] New private banks opened throughout the 1800s but the financial system was unstable. Bank collapses were frequent and a crisis point was reached in 1893 when 12 banks failed.[307]

The Bank of New South Wales exists to this day as Westpac.[308] The Commonwealth Bank of Australia was formed in Sydney in 1911 and began to issue notes backed by the resources of the nation. It was replaced in this role in 1959 by the Reserve Bank of Australia, also based in Sydney.[307] The Australian Securities Exchange began operating in 1987 and with a market capitalisation of \$1.6 trillion is now one of the ten largest exchanges in the world.[309]

The Financial and Insurance Services industry now constitutes 43% of the economic product of the City of Sydney. [285] Sydney makes up half of Australia's finance sector and has been promoted by consecutive Commonwealth Governments as Asia Pacific's leading financial centre. [20][21][310] In the 2017 Global Financial Centres Index, Sydney was ranked as having the eighth most competitive financial centre in the world. [311]

In 1985 the Federal Government granted 16 banking licences to foreign banks and now 40 of the 43 foreign banks operating in Australia are based in Sydney, including the People's Bank of China, Bank of America, Citigroup, UBS, Mizuho Bank, Bank of China, Banco Santander, Credit Suisse, Standard Chartered, State Street, HSBC, Deutsche Bank, Barclays, Royal Bank of Canada, Société Générale, Royal Bank of Scotland, Sumitomo Mitsui, ING Group, BNP Paribas, and Investec.[285][307][312][313]

Manufacturing

[edit]

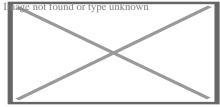
Main article: Manufacturing in Australia

Sydney has been a manufacturing city since the 1920s. By 1961 the industry accounted for 39% of all employment and by 1970 over 30% of all Australian manufacturing jobs were in Sydney.[314] Its status has declined in recent decades, making up 12.6% of employment in 2001 and 8.5% in 2011.[2][314] Between 1970 and 1985 there was a loss of 180,000 manufacturing jobs.[314] Despite this, Sydney still overtook Melbourne as the largest manufacturing centre in Australia in the 2010s,[315] with a manufacturing output of \$21.7 billion in 2013.[316] Observers have credited Sydney's focus on the domestic market and high-tech manufacturing for its resilience against the high Australian dollar of the early 2010s.[316] The Smithfield-Wetherill Park Industrial Estate in Western Sydney is the largest industrial estate in the Southern Hemisphere and is the centre of manufacturing and distribution in the region.[317]

Tourism and international education

[edit]

Main article: Tourism in Sydney



Darling Harbour is a major entertainment and tourism precinct.

Sydney is a gateway to Australia for many international visitors and ranks among the top sixty most visited cities in the world.[318] It has hosted over 2.8 million international visitors in 2013, or nearly half of all international visits to Australia. These visitors spent 59 million nights in the city and a total of \$5.9 billion.[24] The countries of origin in descending order were China, New Zealand, the United Kingdom, the United States, South Korea, Japan, Singapore, Germany, Hong Kong, and India.[319]

The city also received 8.3 million domestic overnight visitors in 2013 who spent a total of \$6 billion.[319] 26,700 workers in the City of Sydney were directly employed by tourism in 2011.[320] There were 480,000 visitors and 27,500 people staying overnight each day in 2012.[320] On average, the tourism industry contributes \$36 million to the city's economy per day.[320]

Popular destinations include the Sydney Opera House, the Sydney Harbour Bridge, Watsons Bay, The Rocks, Sydney Tower, Darling Harbour, the Royal Botanic Garden, the Australian Museum, the Museum of Contemporary Art, the Art Gallery of New South Wales, the Queen Victoria Building, Sea Life Sydney Aquarium, Taronga Zoo, Bondi Beach, Luna Park and Sydney Olympic Park.[321]

Major developmental projects designed to increase Sydney's tourism sector include a casino and hotel at Barangaroo and the redevelopment of East Darling Harbour, which involves a new exhibition and convention centre, now Australia's largest.[322][323][324]

Sydney is the highest-ranking city in the world for international students. More than 50,000 international students study at the city's universities and a further 50,000 study at its vocational and English language schools.[284][325] International education contributes \$1.6 billion to the local economy and creates demand for 4,000 local jobs each year.[326]

Housing affordability

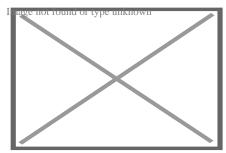
[edit]

In 2023, Sydney was ranked the least affordable city to buy a house in Australia and the second least affordable city in the world, after Hong Kong,[327] with the average Sydney house price in late 2023 costing A\$1.59 million, and the average unit price costing A\$795,000.[328] As of early 2024, Sydney is often described in the media as having a housing shortage, or suffering a housing crisis.[329][330]

Demographics

[edit]

Main article: Demographics of Sydney



Chinese New Year celebrations in Chinatown. Sydney is home to the nation's largest population of Chinese Australians.[331]

The population of Sydney in 1788 was less than 1,000.[332] With convict transportation it almost tripled in ten years to 2,953.[333] For each decade since 1961 the population has increased by more than 250,000.[334] The 2021 census recorded the population of Greater Sydney as 5,231,150.[1] The Australian Treasury expects the population will grow to 6.5 million in 2033–34.[335] The four most densely populated suburbs in Australia are located in Sydney with each having more than 13,000 residents per square kilometre (33,700 residents per square mile).[336] Between 1971 and 2018, Sydney experienced a net loss of 716,832 people to the rest of Australia, but its population grew due to overseas arrivals and a healthy birth rate.[337]

The median age of Sydney residents is 37 and 14.8% of people are 65 or older.[260] 48.6% of Sydney's population is married whilst 36.7% have never been married.[260] 49.0% of families are

couples with children, 34.4% are couples without children, and 14.8% are single-parent families.[260]

Ancestry and immigration

[edit]

Country of birth (2021)[11]

At the 2004 constant the second constant and the second se	Birthplace[N 1] Population				
At the 2021 census, the most common ancestries were:[11]	Australia	2,970,737			
	Mainland China	238,316			
• English (21.8%)	India	187,810			
• Australian (20.4%)[N 2]	England	153,052			
Chinese (11.6%)Irish (7.2%)	Vietnam	93,778			
Scottish (5.6%)	Philippines	91,339			
○ Indian (4.9%)	New Zealand	85,493			
○ Italian (4.3%)	Lebanon	61,620			
• Lebanese (3.5%)	Nepal	59,055			
Filipino (2.7%)Greek (2.6%)	Iraq	52,604			
○ Vietnamese (2.5%)	South Korea	50,702			
∘ German (2.2%)	Hong Kong SAR	46,182			
o Korean (1.4%)	South Africa	39,564			
• Nepalese (1.4%)	Italy	38,762			
Australian Aboriginal (1.4%)[339]Maltese (1.1%)	Indonesia	35,413			
· Wallese (1.176)	Malaysia	35,002			
At the 2021 census, 40.5% of Sydney's population was born	Fiji	34,197			
overseas. Foreign countries of birth with the greatest representation are mainland China, India, England, Vietnam, Philippines and New Zealand.[11]		31,025			

At the 2021 census, 1.7% of Sydney's population identified as being Indigenous — Aboriginal Australians and Torres Strait Islanders.[N 3][340]

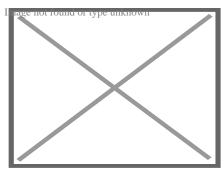
Language

[edit]

42% of households in Sydney use a language other than English, with the most common being Mandarin (5%), Arabic (4.2%), Cantonese (2.8%), Vietnamese (2.2%) and Hindi (1.5%).[340]

Religion

[edit]



St Mary's Cathedral is the cathedral church of the Roman Catholic Archdiocese of Sydney.

In 2021, Christianity was the largest religious affiliation at 46%, the largest denominations of which were Catholicism at 23.1% and Anglicanism at 9.2%. 30.3% of Sydney residents identified as having no religion. The most common non-Christian religious affiliations were Islam (6.3%), Hinduism (4.8%), Buddhism (3.8%), Sikhism (0.7%), and Judaism (0.7%). About 500 people identified with traditional Aboriginal religions.[11]

The Church of England was the only recognised church before Governor Macquarie appointed official Catholic chaplains in 1820.[341] Macquarie also ordered the construction of churches such as St Matthew's, St Luke's, St James's, and St Andrew's. Religious groups, alongside secular institutions, have played a significant role in education, health and charitable services throughout Sydney's history.[342]

Crime

[edit]

Main article: Crime in Sydney

Crime in Sydney is low, with *The Independent* ranking Sydney as the fifth safest city in the world in 2019.[343] However, drug use is a significant problem. Methamphetamine is heavily consumed compared to other countries, while heroin is less common.[344] One of the biggest crime-related issues in recent times was the introduction of lockout laws in February 2014,[345] in an attempt to curb alcohol-fuelled violence. Patrons could not enter clubs or bars in the inner-city after 1:30am, and last drinks were called at 3am. The lockout laws were removed in January 2020.[346]

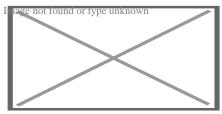
Culture

[edit]

Main article: Culture of Sydney

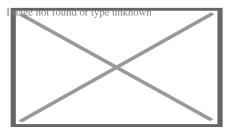
Science, art, and history

[edit]



The Art Gallery of New South Wales, located in The Domain, is the fourth largest public gallery in Australia.

Ku-ring-gai Chase National Park is rich in Indigenous Australian heritage, containing around 1,500 pieces of Aboriginal rock art – the largest cluster of Indigenous sites in Australia. The park's indigenous sites include petroglyphs, art sites, burial sites, caves, marriage areas, birthing areas, midden sites, and tool manufacturing locations, which are dated to be around 5,000 years old. The inhabitants of the area were the Garigal people.[347][348] Other rock art sites exist in the Sydney region, such as in Terrey Hills and Bondi, although the locations of most are not publicised to prevent damage by vandalism, and to retain their quality, as they are still regarded as sacred sites by Indigenous Australians.[349]



The State Library of New South Wales holds the oldest library collections in Australia.

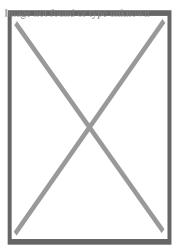
The Australian Museum opened in Sydney in 1827 with the purpose of collecting and displaying the natural wealth of the colony.[350] It remains Australia's oldest natural history museum. In 1995 the Museum of Sydney opened on the site of the first Government House. It recounts the story of the city's development.[351] Other museums include the Powerhouse Museum and the Australian National Maritime Museum.[352][353]

The State Library of New South Wales holds the oldest library collections in Australia, being established as the Australian Subscription Library in 1826.[354] The Royal Society of New South Wales, formed in 1866, encourages "studies and investigations in science, art, literature, and philosophy". It is based in a terrace house in Darlington owned by the University of Sydney.[355] The Sydney Observatory building was constructed in 1859 and used for astronomy and meteorology research until 1982 before being converted into a museum.[356]

The Museum of Contemporary Art was opened in 1991 and occupies an Art Deco building in Circular Quay. Its collection was founded in the 1940s by artist and art collector John Power and has been maintained by the University of Sydney.[357] Sydney's other significant art institution is the Art Gallery of New South Wales which coordinates the Archibald Prize for portraiture.[358] Sydney is also home to contemporary art gallery Artspace, housed in the historic Gunnery Building in Woolloomooloo, fronting Sydney Harbour.[359]

Entertainment

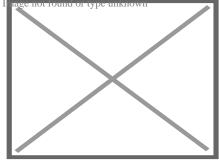
[edit]



The State Theatre on Market Street was opened in 1929.

Sydney's first commercial theatre opened in 1832 and nine more had commenced performances by the late 1920s. The live medium lost much of its popularity to the cinema during the Great Depression before experiencing a revival after World War II.[360] Prominent theatres in the city today include State Theatre, Theatre Royal, Sydney Theatre, The Wharf Theatre, and Capitol Theatre. Sydney Theatre Company maintains a roster of local, classical, and international plays. It occasionally features Australian theatre icons such as David Williamson, Hugo Weaving, and Geoffrey Rush. The city's other prominent theatre companies are New Theatre, Belvoir, and Griffin Theatre Company. Sydney is also home to Event Cinemas' first theatre, which opened on George St in 1913, under its former Greater Union brand; the theatre currently operates, and is regarded as one of Australia's busiest cinema locations.

The Sydney Opera House is the home of Opera Australia and Sydney Symphony. It has staged over 100,000 performances and received 100 million visitors since opening in 1973.[245] Two other important performance venues in Sydney are Town Hall and the City Recital Hall. The Sydney Conservatorium of Music is located adjacent to the Royal Botanic Garden and serves the Australian music community through education and its biannual Australian Music Examinations Board exams.[361]



A concert at the Sydney Opera House

Many writers have originated in and set their work in Sydney. Others have visited the city and commented on it. Some of them are commemorated in the Sydney Writers Walk at Circular Quay. The city was the headquarters for Australia's first published newspaper, the Sydney Gazette. [362] Watkin Tench's A Narrative of the Expedition to Botany Bay (1789) and A Complete Account of the Settlement at Port Jackson in New South Wales (1793) have remained the best-known accounts of life in early Sydney. [363] Since the infancy of the establishment, much of the literature set in Sydney were concerned with life in the city's slums and working-class communities, notably William Lane's The Working Man's Paradise (1892), Christina Stead's Seven Poor Men of Sydney (1934) and Ruth Park's The Harp in the South (1948).[364] The first Australian-born female novelist, Louisa Atkinson, set several novels in Sydney. [365] Contemporary writers, such as Elizabeth Harrower, were born in the city and set most of their work there-Harrower's debut novel Down in the City (1957) was mostly set in a King's Cross apartment.[366][367][368] Well known contemporary novels set in the city include Melina Marchetta's Looking for Alibrandi (1992), Peter Carey's 30 Days in Sydney: A Wildly Distorted Account (1999), J. M. Coetzee's Diary of a Bad Year (2007) and Kate Grenville's The Secret River (2010). The Sydney Writers' Festival is held annually between April and May. [369]

Filmmaking in Sydney was prolific until the 1920s when spoken films were introduced and American productions gained dominance.[370] The Australian New Wave saw a resurgence in film production, with many notable features shot in the city between the 1970s and 80s, helmed by directors such as Bruce Beresford, Peter Weir and Gillian Armstrong.[371] Fox Studios Australia commenced production in Sydney in 1998. Successful films shot in Sydney since then include *The Matrix*, *Lantana*, *Mission: Impossible 2*, *Moulin Rouge!*, *Star Wars: Episode II – Attack of the Clones*, *Australia*, *Superman Returns*, *The Great Gatsby* and *Anyone but You*. The National Institute of Dramatic Art is based in Sydney and has several famous alumni such as Mel Gibson, Judy Davis, Baz Luhrmann, Cate Blanchett, Hugo Weaving and Jacqueline Mckenzie.[372]

Sydney hosts several festivals throughout the year. The city's New Year's Eve celebrations are the largest in Australia.[373] The Royal Easter Show is held every year at Sydney Olympic Park. Sydney Festival is Australia's largest arts festival.[374] The travelling rock music festival Big Day Out originated in Sydney. The city's two largest film festivals are Sydney Film Festival and Tropfest. Vivid Sydney is an annual outdoor exhibition of art installations, light projections, and music. In 2015, Sydney was ranked the 13th top fashion capital in the world.[375] It hosts the Australian Fashion Week in autumn. Sydney Mardi Gras has commenced each February since 1979.

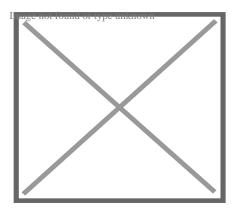
Sydney's Chinatown has had numerous locations since the 1850s. It moved from George Street to Campbell Street to its current setting in Dixon Street in 1980.[376] Little Italy is located in Stanley Street.[287]

Restaurants, bars and nightclubs can be found in the entertainment hubs in the Sydney CBD (
Darling Harbour, Barangaroo, The Rocks and George Street), Oxford Street, Surry Hills,
Newtown and Parramatta.[377][378] Kings Cross was previously considered the red-light district.
The Star is the city's casino and is situated next to Darling Harbour while the new Crown Sydney resort is in nearby Barangaroo.[379]

Media

[edit]

Main article: Media in Sydney



Australia's national broadcaster, the ABC, is headquartered in Ultimo.

The *Sydney Morning Herald* is Australia's oldest newspaper still in print; it has been published continuously since 1831.[380] Its competitor is *The Daily Telegraph*, in print since 1879.[381] Both papers have Sunday tabloid editions called *The Sun-Herald* and *The Sunday Telegraph* respectively. *The Bulletin* was founded in Sydney in 1880 and became Australia's longest running magazine. It closed after 128 years of continuous publication.[382] Sydney heralded Australia's first newspaper, the *Sydney Gazette*, published until 1842.

Each of Australia's three commercial television networks and two public broadcasters is headquartered in Sydney. Nine's offices and news studios are in North Sydney, Ten is based in Pyrmont, and Seven is based in South Eveleigh in Redfern.[383][384][385][386] The Australian Broadcasting Corporation is located in Ultimo,[387] and the Special Broadcasting Service is based in Artarmon.[388] Multiple digital channels have been provided by all five networks since 2000. Foxtel is based in North Ryde and sells subscription cable television to most of the urban area.[389] Sydney's first radio stations commenced broadcasting in the 1920s. Radio has managed to survive despite the introduction of television and the Internet.[390] 2UE was founded in 1925 and under the ownership of Nine Entertainment is the oldest station still broadcasting.[390] Competing stations include the more popular 2GB, ABC Radio Sydney, KIIS 106.5, Triple M, Nova 96.9 and 2Day FM.[391]

Sport and outdoor activities

[edit]

Main article: Sport in Sydney

Sydney's earliest migrants brought with them a passion for sport but were restricted by the lack of facilities and equipment. The first organised sports were boxing, wrestling, and horse racing from 1810 in Hyde Park.[392] Horse racing remains popular and events such as the Golden Slipper Stakes attract widespread attention. The first cricket club was formed in 1826 and matches were

played within Hyde Park throughout the 1830s and 1840s.[392] Cricket is a favoured sport in summer and big matches have been held at the Sydney Cricket Ground since 1878. The New South Wales Blues compete in the Sheffield Shield league and the Sydney Sixers and Sydney Thunder contest the national Big Bash Twenty20 competition.

First played in Sydney in 1865, rugby grew to be the city's most popular football code by the 1880s. One-tenth of the state's population attended a New South Wales versus New Zealand rugby match in 1907.[392] Rugby league separated from rugby union in 1908. The New South Wales Waratahs contest the Super Rugby competition, while the Sydney Rays represent the city in the National Rugby Championship. The national Wallabies rugby union team competes in Sydney in international matches such as the Bledisloe Cup, Rugby Championship, and World Cup. Sydney is home to nine of the seventeen teams in the National Rugby League competition: Canterbury-Bankstown Bulldogs, Cronulla-Sutherland Sharks, Manly-Warringah Sea Eagles, Penrith Panthers, Parramatta Eels, South Sydney Rabbitohs, St George Illawarra Dragons, Sydney Roosters, and Wests Tigers. New South Wales contests the annual State of Origin series against Queensland.

Sydney FC and the Western Sydney Wanderers compete in the A-League Men and A-League Women competitions. The Sydney Swans and Greater Western Sydney Giants are local Australian rules football clubs that play in the Australian Football League and the AFL Women's. The Sydney Kings compete in the National Basketball League. The Sydney Uni Flames play in the Women's National Basketball League. The Sydney Blue Sox contest the Australian Baseball League. The NSW Pride are a member of the Hockey One League. The Sydney Bears and Sydney Ice Dogs play in the Australian Ice Hockey League. The Swifts are competitors in the national women's netball league.

Major sporting venues

[edit]

Stadium Australia

0

Image not found or type unknown

Stadium Australia

Sydney Cricket Ground

0

Image not found or type unknown

Sydney Cricket Ground Western Sydney Stadium

0

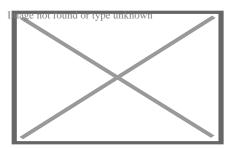
Image not found or type unknown

Western Sydney Stadium Sydney Football Stadium

0

Image not found or type unknown

Sydney Football Stadium

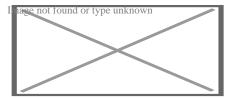


Sailing on Sydney Harbour

Women were first allowed to participate in recreational swimming when separate baths were opened at Woolloomooloo Bay in the 1830s. From being illegal at the beginning of the century, sea bathing gained immense popularity during the early 1900s and the first surf lifesaving club was established at Bondi Beach.[392][393] Disputes about appropriate clothing for surf bathing surfaced occasionally and concerned men as well as women. The City2Surf is an annual 14 km (8.7 mi) running race from the CBD to Bondi Beach and has been held since 1971. In 2010, 80,000 runners participated which made it the largest run of its kind in the world.[394]

Sailing races have been held on Sydney Harbour since 1827.[395] Yachting has been popular amongst wealthier residents since the 1840s and the Royal Sydney Yacht Squadron was founded in 1862. The Sydney to Hobart Yacht Race is a 1,170 km (727 mi) event that starts from

Sydney Harbour on Boxing Day.[396] Since its inception in 1945 it has been recognised as one of the most difficult yacht races in the world.[397] Six sailors died and 71 vessels of 115 failed to finish in the 1998 edition.[398]



Sydney Olympic Park was built for the 2000 Olympics and has become a major sporting and recreational precinct.

The Royal Sydney Golf Club is based in Rose Bay and since its opening in 1893 has hosted the Australian Open on 13 occasions.[392] Royal Randwick Racecourse opened in 1833 and holds several major cups throughout the year.[399]

Sydney benefitted from the construction of significant sporting infrastructure in preparation for its hosting of the 2000 Summer Olympics. The Sydney Olympic Park accommodates athletics, aquatics, tennis, hockey, archery, baseball, cycling, equestrian, and rowing facilities. It also includes the high capacity Stadium Australia used for rugby, soccer, and Australian rules football. The Sydney Football Stadium was completed in 1988 and was used for rugby and soccer matches. Sydney Cricket Ground was opened in 1878 and is used for both cricket and Australian rules football fixtures.[392]

Sydney was one of the host cities during the 2023 FIFA Women's World Cup. Sydney Football Stadium and Stadium Australia were selected as venues, with the later hosting the final.[400]

The Sydney International tennis tournament is held here at the beginning of each year as the warm-up for the Grand Slam in Melbourne. Two of the most successful tennis players in history (Ken Rosewall and Todd Woodbridge) were born in and live in the city.

Sydney co-hosted the FIBA Oceania Championship in 1979, 1985, 1989, 1995, 2007, 2009 and 2011.

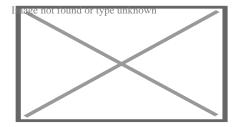
Government

[edit]

See also: Local government areas of New South Wales

Historical governance

[edit]



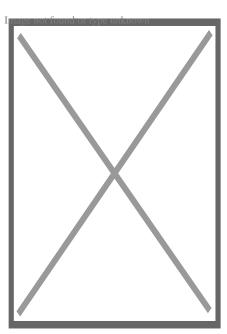
Parliament House holds the Government of New South Wales and is the oldest public building in Australia.

The first five governors had near autocratic power in the colony of New South Wales, subject only to the laws of England and the supervision of the Colonial Office in London. Sydney was the seat of government for the colony which encompassed over half the Australian continent.[401] The first Legislative Council met in 1826,[402] and in 1842, the imperial parliament expanded and reformed the council, making it partly elected.[403] In the same year, the town of Sydney officially became a city and an elected municipal council was established.[404][405] The council had limited powers, mostly relating to services such as street lighting and drainage.[406] Its boundaries were restricted to an area of 11.6 square kilometres, taking in the city centre and the modern suburbs of Woolloomooloo, Surry Hills, Chippendale, and Pyrmont.[63] As Sydney grew, other municipal councils were formed to provide local administration.[407]

In 1856, New South Wales achieved responsible government with the introduction of a bicameral parliament, based in Sydney, comprising a directly elected Legislative Assembly and a nominated Legislative Council.[408] With the federation of the Australian colonies in 1901, Sydney became the capital of the state of New South Wales and its administration was divided between the Commonwealth, State and constituent local governments.[408]

Government in the present

[edit]

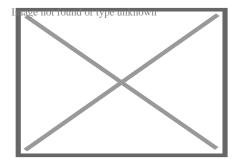


The Sydney Town Hall is the seat of the City of Sydney; the oldest local government in the city

In common with other Australian capital cities, Sydney has no single local government covering its whole area. Local government areas have responsibilities such as local roads, libraries, child care, community services and waste collection, whereas the state government retains

responsibility for main roads, traffic control, public transport, policing, education, and major infrastructure project.[409] There are 33 local government areas which are wholly or mostly within Greater Sydney as defined by the Australian Statistical Geography Standard.[96][410]

- Bayside
- Canterbury-Bankstown
- Blacktown
- Blue Mountains
- Burwood
- Camden
- Campbelltown
- Canada Bay
- Central Coast
- Cumberland
- Fairfield
- Georges River
- Hawkesbury
- The Hills
- Hornsby
- o Hunter's Hill
- Inner West
- Ku-ring-gai
- Lane Cove
- Liverpool
- Mosman
- North Sydney
- Northern Beaches
- Parramatta
- Penrith
- Randwick
- Ryde
- Strathfield
- Sutherland
- Sydney
- Waverley
- Willoughby
- Wollondilly
- Woollahra



Government House is the official residence of the Governor of New South Wales

Sydney is the location of the secondary official residences of the Governor-General and Prime Minister – Admiralty House and Kirribilli House respectively.[411] The Parliament of New South Wales sits in Parliament House on Macquarie Street. This building was completed in 1816 and first served as a hospital. The Legislative Council moved into its northern wing in 1829 and by 1852 had entirely supplanted the surgeons from their quarters.[412] Several additions have been made as the Parliament has expanded, but it retains its original Georgian façade.[413] Government House was completed in 1845 and has served as the home of 25 Governors and 5 Governors-General.[414] The Cabinet of Australia also meets in Sydney when needed.

The highest court in the state is the Supreme Court of New South Wales, located in Queen's Square.[415] The city is also the home of numerous branches of the intermediate District Court of New South Wales and the lower Local Court of New South Wales.[416]

In the past, the state has tended to resist amalgamating Sydney's more populated local government areas as merged councils could pose a threat to its governmental power.[417] Established in 1842, the City of Sydney is one such local government area and includes the CBD and some adjoining inner suburbs.[418] It is responsible for fostering development in the local area, providing local services (waste collection and recycling, libraries, parks, sporting facilities), promoting the interests of residents, supporting organisations that target the local community, and attracting and providing infrastructure for commerce, tourism, and industry.[419] The City of Sydney is led by an elected Council and Lord Mayor.[420]

In federal politics, Sydney was initially considered as a possibility for Australia's capital city; the newly created city of Canberra ultimately filled this role.[421] Seven Australian Prime Ministers have been born in Sydney, more than any other city, including first Prime Minister Edmund Barton and current Prime Minister Anthony Albanese.

Essential public emergency services are provided and managed by the State Government. Greater Sydney is served by:

- New South Wales Police Force
- New South Wales Ambulance
- Fire and Rescue NSW

Infrastructure

[edit]

Education

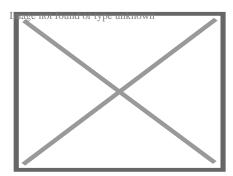
[edit]

Main article: Education in Sydney



The University of Sydney

Education became a focus for the colony from the 1870s when public schools began to form and schooling became compulsory. [422] By 2011, 90% of working age residents had completed some schooling and 57% had completed the highest level of school. [2] 1,390,703 people were enrolled in an educational institution in 2011 with 45.1% of these attending school and 16.5% studying at a university. [260] Undergraduate or postgraduate qualifications are held by 22.5% of working age Sydney residents and 40.2% of working age residents of the City of Sydney. [2][423] The most common fields of tertiary qualification are commerce (22.8%), engineering (13.4%), society and culture (10.8%), health (7.8%), and education (6.6%). [2]



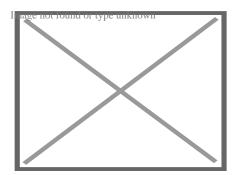
The University of Technology Sydney

There are six public universities based in Sydney: The University of Sydney, University of New South Wales, University of Technology Sydney, Macquarie University, Western Sydney University, and Australian Catholic University. Five public universities maintain secondary campuses in the city: the University of Notre Dame Australia, Central Queensland University, Victoria University, University of Wollongong, and University of Newcastle. Charles Sturt University and Southern Cross University operate secondary campuses only designated for international students. In addition, four public universities offer programs in Sydney through thirdparty providers: University of the Sunshine Coast, La Trobe University, Federation University Australia and Charles Darwin University. 5.2% of residents of Sydney are attending a university. 424] The University of New South Wales and the University of Sydney are ranked equal 19th in the world, [425] the University of Technology Sydney is ranked in the top 100, [425] while Macquarie University is ranked 237, and Western Sydney University is ranked 474.[426] Sydney has public, denominational, and independent schools. 7.8% of Sydney residents are attending primary school and 6.4% are enrolled in secondary school. [424] There are 935 public preschool, primary, and secondary schools in Sydney that are administered by the New South Wales Department of Education.[427] 14 of the 17 selective secondary schools in New South Wales are based in Sydney.[428]

Public vocational education and training in Sydney are run by TAFE New South Wales and began with the opening of the Sydney Technical College in 1878.[238] The college became the Sydney Institute in 1992 and now operates alongside its sister TAFE facilities across the Sydney metropolitan area, namely the Northern Sydney Institute, the Western Sydney Institute, and the South Western Sydney Institute. At the 2011 census, 2.4% of Sydney residents are enrolled in a TAFE course.[424]

Health

[edit]



The Sydney Hospital, completed in 1816

The first hospital in the new colony was a collection of tents at The Rocks. Many of the convicts that survived the trip suffered from dysentery, smallpox, scurvy, and typhoid. Healthcare facilities remained inadequate despite the arrival of a prefabricated hospital with the Second Fleet and the construction of new hospitals at Parramatta, Windsor, and Liverpool in the 1790s.[429]

Governor Macquarie arranged for the construction of Sydney Hospital, completed in 1816.[429] Parts of the facility have been repurposed for use as Parliament House but the hospital itself still operates. The city's first emergency department was established at Sydney Hospital in 1870. Demand for emergency medical care increased from 1895 with the introduction of an ambulance service.[429] The Sydney Hospital also housed Australia's first teaching facility for nurses, the Nightingale Wing, established with the input of Florence Nightingale in 1868.[430]

Healthcare was recognised as a right in the early 1900s and Sydney's public hospitals came under the oversight of the Government of New South Wales.[429] The administration of healthcare across Sydney is handled by eight local health districts: Central Coast, Illawarra Shoalhaven, Sydney, Nepean Blue Mountains, Northern Sydney, South Eastern Sydney, South Western Sydney, and Western Sydney.[431] The Prince of Wales Hospital was established in 1852 and became the first of several major hospitals to be opened.[432] St Vincent's Hospital was founded in 1857,[176] followed by Royal Alexandra Hospital for Children in 1880,[433] the Prince Henry Hospital in 1881,[434] the Royal Prince Alfred Hospital in 1882,[435] the Royal North Shore Hospital in 1885,[436] the St George Hospital in 1894,[437] and the Nepean Hospital in 1895.[438] Westmead Hospital in 1978 was the last major facility to open.[439]

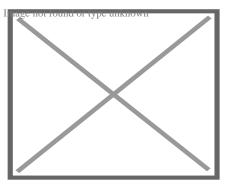
Transport

[edit]

Main article: Transport in Sydney

Roads

[edit]



Light Horse Interchange, the largest of its kind in Australia

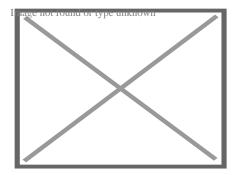
The motor vehicle, more than any other factor, has determined the pattern of Sydney's urban development since World War II.[440] The growth of low-density housing in the city's outer suburbs has made car ownership necessary for hundreds of thousands of households. The percentage of trips taken by car has increased from 13% in 1947 to 50% in 1960 and 70% in 1971.[440] The most important roads in Sydney were the nine Metroads, including the 110 km (68 mi) Sydney Orbital Network. Sydney's reliance on motor vehicles and its sprawling road network has been criticised by proponents of mass public transport and high-density housing.[441][442][443] The Light Horse Interchange in western Sydney is the largest in the southern hemisphere.[444]

There can be up to 350,000 cars using Sydney's roads simultaneously during peak hour, leading to significant traffic congestion.[440] 84.9% of Sydney households own a motor vehicle and 46.5% own two or more.[260] With a rate of 26.3% in 2014, Sydney has the highest utilisation of public transport for travel to work of any Australian capital.[445] In contrast, in 2014 only 25.2% of working residents in the City of Sydney use a car, whilst 15.8% take a train, 13.3% use a bus, and 25.3% walk.[446] Several significant infrastructure projects have been completed since. The CBD features a series of alleyways and lanes that provide off-street vehicular access to city buildings and as well as pedestrian routes through city buildings.[447]

Suburban trains

[edit]

Main article: Sydney Trains



Central station is the busiest railway station in Australia, and the city's main public transport hub.

Established in 1906, Central station is the largest and busiest railway station in the state and is the main hub of the city's rail network.[448] Sydney Trains is the suburban rail service. Its tracks form part of the New South Wales railway network. It serves 168 stations across the city and had an annual ridership of 302 million passenger journeys in 2023–24.[449] Sydney's railway was first constructed in 1854 with progressive extension to the network to serve both freight and passengers. The main station is the Central railway station in the southern part of the CBD. In the 1850s and 1860s, the railway reached areas that are now outer suburbs of Sydney.[440]

Metro

[edit]

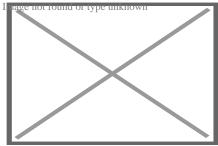
Main article: Sydney Metro

Sydney Metro, a driverless rapid transit system separate from the suburban commuter network, commenced operation in May 2019 and was extended through the city to Sydenham on 19 August 2024. This line will be extended to Bankstown in 2025 and a new line through the inner west to Parramatta is planned to be built by 2030.[450][451] It currently serves 21 stations. A line to serve the greater west is planned for 2026 and will include a station for the second international airport.

Light rail

[edit]

Main article: Light rail in Sydney



The CBD and South East Light Rail connects Sydney's CBD with the Eastern Suburbs.

Sydney once had one of the largest tram networks in the British Empire after London.[452] It served routes covering 291 km (181 mi). The internal combustion engine made buses more flexible than trams and consequently more popular, leading to the progressive closure of the network with the final tram operating in 1961.[440] From 1930 there were 612 buses across Sydney carrying 90 million passengers per annum.[453]

In 1997, the Inner West Light Rail opened between Central station and Wentworth Park. It was extended to Lilyfield in 2000 and then Dulwich Hill in 2014. It links the Inner West and Darling Harbour with Central station and facilitated 9.1 million journeys in the 2016–17 financial year.[454] A second, the CBD and South East Light Rail 12 km (7.5 mi) line serving the CBD and Eastern Suburbs opened in 2019–2020.[455] A light rail line serving Western Sydney opened in 2024.

Buses

[edit]

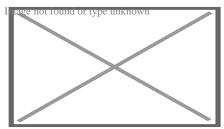
Main article: Buses in Sydney

Bus services are conducted by private operators under contract to Transport for NSW. Integrated tickets called Opal cards operate on bus routes. In total, nearly 225 million boardings were recorded across the bus network.[456] NightRide is a nightly bus service that operate between midnight and 5am.

Ferries

[edit]

Main articles: Sydney Ferries, List of Sydney Harbour ferries, and Timeline of Sydney Harbour ferries



A Freshwater-class ferry Departing Circular Quay to Manly

At the time the Sydney Harbour Bridge opened in 1932, the city's ferry service was the largest in the world.[457] Patronage declined from 37 million passengers in 1945 to 11 million in 1963 but has recovered somewhat in recent years.[440] From its hub at Circular Quay, the ferry network extends from Manly to Parramatta.[457] Ferries in sydney are operated by Transdev Sydney Ferries and operates 10 routes.

Airports

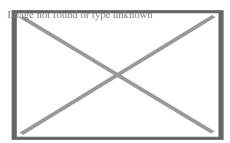
[edit]

Sydney Airport, officially "Sydney Kingsford-Smith Airport", is located in Mascot. It services 46 international and 23 domestic destinations. [26] As the busiest airport in Australia, it handled 37.9 million passengers in 2013 and 530,000 tonnes of freight in 2011. [26] A second airport,

Western Sydney Airport, is under construction at Badgerys Creek and will open in late 2026,[458] at a cost of \$2.5 billion.[459] Notably, it will not feature a curfew, unlike Sydney Kingsford-Smith Airport, which imposes a suspension of all aircraft operations between 11 pm and 6 am. Bankstown Airport is Sydney's second busiest airport, and serves general aviation, charter and some scheduled cargo flights. Bankstown is also the fourth busiest airport in Australia by number of aircraft movements.[460] Port Botany has surpassed Port Jackson as the city's major shipping port. Cruise ship terminals are located at Sydney Cove and White Bay.

Utilities

[edit]



Warragamba Dam is Sydney's largest water supply dam.

Obtaining sufficient fresh water was difficult during early colonial times. A catchment called the Tank Stream sourced water from what is now the CBD but was little more than an open sewer by the end of the 1700s.[461] The Botany Swamps Scheme was one of several ventures during the mid-1800s that saw the construction of wells, tunnels, steam pumping stations, and small dams to service Sydney's growing population.[461]

The Upper Nepean Scheme came into operation in 1886. It transports water 100 km (62 mi) from the Nepean, Cataract, and Cordeaux rivers and continues to service about 15% of Sydney's water needs.[461] Dams were built on these three rivers between 1907 and 1935.[461] In 1977 the Shoalhaven Scheme brought several more dams into service.[462]

The state-owned corporation WaterNSW now manages eleven major dams: Warragamba, one of the largest domestic water supply dams in the world,[463] Woronora, Cataract, Cordeaux, Nepean, Avon, Wingecarribee Reservoir, Fitzroy Falls Reservoir, Tallowa, the Blue Mountains Dams, and Prospect Reservoir.[464] Water is collected from five catchment areas covering 16,000 km² (6,178 sq mi) and total storage amounts to 2.6 TL (0.6 cu mi).[464] The Sydney Desalination Plant came into operation in 2010.[461] WaterNSW supplies bulk water to Sydney Water, a state-owned corporation that operates water distribution, sewerage and storm water management services.

Sydney's electricity infrastructure is maintained by Ausgrid and Endeavour Energy.[465][466] Their combined networks include over 815,000 poles and 83,000 km (52,000 mi) of cables. Submarine communications cable systems in Sydney include the Australia–Japan Cable, Telstra Endeavour and the Southern Cross Cable, which link Australia and countries in the Pacific.[467][468][469]

Environmental issues and pollution reduction

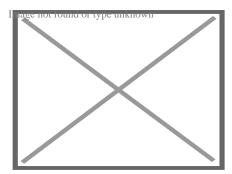
[edit]

Main article: Environmental issues in Australia

Further information: Climate change in Australia and Renewable energy in Australia

Air quality

[edit]



George Street and bushfire smoke in December 2019

As climate change, greenhouse gas emissions and pollution have become a major issue for Australia, Sydney has in the past been criticised for its lack of focus on reducing pollution and emissions and maintaining water quality.[470] The release of the Metropolitan Air Quality Scheme (MAQS) led to a broader understanding of the causation of pollution in Sydney, allowing the government to form appropriate responses.[471]

The 2019–20 Australian bushfire season significantly impacted outer Sydney and dramatically reduced air quality, leading to a smoky haze that lingered for days. The air quality was 11 times the hazardous level in some days,[472][473] worse than New Delhi's;[474] it was compared to "smoking 32 cigarettes" by Brian Oliver, a respiratory diseases scientist at the University of Technology Sydney.[475] Since Sydney is surrounded by bushland and forest,[476] bushfires can ring the region in a natural phenomena that is labelled "ring of fire".[477][478][479][480][481]

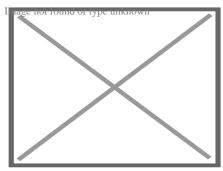
The City of Sydney became the first council in Australia to achieve formal certification as carbon-neutral in 2008.[482][483] The city has reduced its 2007 carbon emissions by 6% and since 2006 has reduced carbon emissions from city buildings by up to 20%.[484][485] The *Sustainable Sydney 2030* program presented a guide to reducing energy in homes and offices by 30%.[484][486] Reductions in energy consumption have slashed energy bills by \$30 million a year.[487] Solar panels have been established on many CBD buildings to minimise carbon pollution by around 3,000 tonnes a year.[488]

The city also has an "urban forest growth strategy", in which it aims to regularly increase the tree coverage in the city by frequently planting trees with strong leaf density and vegetation to provide cleaner air and create moisture during hot weather, thus lowering city temperatures.[489] Sydney has also become a leader in the development of green office buildings and enforcing the requirement of all building proposals to be energy-efficient. The One Central Park development,

completed in 2013, is an example of this implementation. [490][491][492][493]

Car-dependency

[edit]



Traffic congestion on the Warringah Freeway, Milsons Point

Australian cities are some of the most car-dependent cities in the world,[494] especially by world city standards, although Sydney's is the lowest of Australia's major cities at 66%.[495] Sydney also has the highest usage of public transport in an Australian city, at 27%—comparable with New York City, Shanghai and Berlin. Despite its high ranking for an Australian city, Sydney has a low level of mass-transit services, with a historically low-density layout and significant urban sprawl, thus increasing the likelihood of car dependency.[496][497]

Strategies have been implemented to reduce private vehicle pollution by encouraging mass and public transit,[498] initiating the development of high density housing and introducing a fleet of 10 new electric cars, the largest order of the pollution-free vehicle in Australia.[499] Electric cars do not produce carbon monoxide and nitrous oxide, which contribute to climate change.[500][501] Cycling trips increased by 113% across Sydney's inner-city from 2010 to 2015, at which point about 2,000 bikes were passing through top peak-hour intersections on an average weekday.[484] Transport developments in the north-west and east of the city have been designed to encourage use of the expanding public transportation system.

Sister cities

[edit]

Sister cities of Sydney include:

- o San Francisco, United States of America
- Wellington, New Zealand
- Florence, Italy
- Nagoya, Japan
- o Portsmouth, United Kingdom

See also

[edit]

- o flag New South Wales portal
- List of museums in Sydney
- List of people from Sydney
- List of public art in the City of Sydney
- List of songs about Sydney
- Outline of Sydney

Notes

[edit]

- 1. In accordance with the Australian Bureau of Statistics source, England, Scotland, Mainland China and the Special Administrative Regions of Hong Kong and Macau are listed separately.
- 2. ^ The Australian Bureau of Statistics has stated that most who nominate "Australian" as their ancestry are part of the Anglo-Celtic group.[338]
- 3. ^ Indigenous identification is separate to the ancestry question on the Australian Census and persons identifying as Aboriginal or Torres Strait Islander may identify any ancestry.

References

[edit]

- 1. ^ **a b c d** "Regional Population 2022–23 final". Australian Bureau of Statistics. Archived from the original on 30 March 2021. Retrieved 26 March 2024.
- 2. ^ a b c d e f g h "Greater Sydney: Basic Community Profile". 2011 Census Community Profiles. Australian Bureau of Statistics. 28 March 2013. Archived from the original (xls) on 7 November 2022. Retrieved 9 April 2014.
- 4. ^ **a b c d** "Sydney (Observatory Hill) Period 1991–2020". Bureau of Meteorology. Archived from the original on 9 February 2020. Retrieved 14 April 2020.
- 5. ^ Mason, Herbert (2012). Encyclopaedia of Ships and Shipping. p. 266.
- 6. * "Complete official list of Sydney suburbs". Walk Sydney Streets. 2014. Archived from the original on 25 November 2019. Retrieved 13 July 2014.
- 7. * "3218.0 Regional Population Growth, Australia, 2016–17: Main Features". Australian Bureau of Statistics. 24 April 2018. Archived from the original on 13 October 2018. Retrieved 13 October 2018. Estimated resident population, 30 June 2017.
- 8. ^ Tom Smith (4 November 2017). "Why Sydney Is Also Known As 'The Emerald City'". Culture Trip. Archived from the original on 11 September 2021. Retrieved 11 September 2021.

- 9. ^ **a b c d e** Heiss, Anita; Gibson, Melodie-Jane (2013). "Aboriginal people and place". Sydney Barani. Archived from the original on 7 July 2014. Retrieved 5 July 2014.
- 10. * "Manly Heritage & History". Manly Council. Archived from the original on 12 May 2016. Retrieved 10 May 2016.
- 11. ^ **a b c d e** "2021 Greater Sydney, Census Community Profiles". Australian Bureau of Statistics. Retrieved 2 July 2022.
- 12. ^ Levy, Megan (5 March 2014). "Sydney, Melbourne more expensive than New York, says Living Index". The Sydney Morning Herald. Archived from the original on 1 July 2014. Retrieved 20 July 2014.
- A Bowman, Simon J.; Fisher, Benjamin (19 May 2022), "The Cost of Living with Sjögren's", The Sjögren's Book, Oxford University Press, pp. 26–30, doi: 10.1093/oso/9780197502112.003.0005, ISBN 978-0-19-750211-2, archived from the original on 21 February 2024, retrieved 1 June 2023
- 14. * "Sydney retains #10 ranking in Mercer's global quality of living survey". Mercer.com.au. 28 April 2018. Archived from the original on 28 April 2018. Retrieved 28 April 2018.
- 15. * "World's most liveable cities: Vienna's win leaves Sydney and Melbourne in a spin". The Guardian. 4 September 2019. Archived from the original on 25 September 2019. Retrieved 26 September 2019.
- 16. * "2018 Quality of Living Index". Mercer. 2018. Archived from the original on 16 April 2018. Retrieved 28 April 2018.
- 17. * "The World According to GaWC 2020". GaWC Research Network. Globalization and World Cities. Archived from the original on 6 October 2020. Retrieved 31 August 2020.
- 18. * Global Power City Index 2010 (PDF) (Report). Tokyo, Japan: Institute for Urban Strategies at The Mori Memorial Foundation. October 2010. Archived (PDF) from the original on 20 October 2020. Retrieved 10 August 2011.
- 19. **^ "Cities of opportunity"** (PDF). PricewaterhouseCoopers. 2012. Archived from the original (PDF) on 10 February 2013. Retrieved 21 July 2014.
- 20. ^ *a b* http://www.smh.com.au/national/tough-week-for-a-sydney-success-story-20120217-1te9q.html?skin=text-only [*dead link*]
- 21. ^ **a b** Irvine, Jessica (2008). "Another shot at making city a finance hub". The Sydney Morning Herald. Archived from the original on 24 September 2015. Retrieved 26 July 2014.
- 22. * "QS World University Rankings 2025". Top Universities. 18 October 2024. Retrieved 20 October 2024.
- 23. ^ Dennis, Anthony (2013). ""Too expensive" Sydney slips from top 10 tourism list". The Sydney Morning Herald. Archived from the original on 25 September 2014. Retrieved 27 October 2016. "In this year's World's Best Awards, announced in New York this week, Sydney came in as the world's number 12 ranked best city."
- 24. ^ **a b** "Our global city". City of Sydney. 2014. Archived from the original on 22 June 2014. Retrieved 21 July 2014.
- 25. A Benson, D. H. and Howell J. (1990) Taken for Granted: the Bushland of Sydney and Its Suburbs, Sydney
- 26. ^ a b c "Overview". Sydney Airport. 2014. Archived from the original on 5 September 2014. Retrieved 10 August 2014.
- 27. ^ **a** b Egan, Jack (1999). Buried Alive, Sydney 1788–92. Allen and Unwin. p. 10. ISBN 1865081388.

- 28. ^ Attenbrow (2010), p. 11
- 29. A Historical Records of New South Wales. Vol. 1 part 2. pp. 285, 343, 345, 436, 482, passim. Archived from the original on 23 July 2022. Retrieved 17 August 2022.
- 30. A Birch, Alan; Macmillan, David S. (1982). The Sydney Scene, 1788–1960 (2nd ed.). Sydney: Hale and Iremonger. pp. 105–06. ISBN 0868060178.
- 31. Attenbrow, Val (2010). Sydney's Aboriginal Past, investigating the archaeological and historical records (2nd ed.). Sydney: UNSW Press. pp. 22–26. ISBN 9781742231167.
- 32. ^ Attenbrow (2010). p. 152
- 33. Attenbrow, Val (2010). Sydney's Aboriginal Past: Investigating the Archaeological and Historical Records. Sydney: UNSW Press. pp. 152–153. ISBN 978-1-74223-116-7. Archived from the original on 23 September 2023. Retrieved 11 November 2013.
- 34. * Macey, Richard (2007). "Settlers' history rewritten: go back 30,000 years". The Sydney Morning Herald. Archived from the original on 2 July 2018. Retrieved 5 July 2014.
- 35. ^ Attenbrow (2010). p.17
- 36. ^ Attenbrow (2010). pp. 28, 158
- 37. * Smith, Keith Vincent (June 2020). "Eora People". Eora People. Archived from the original on 28 March 2023. Retrieved 13 July 2022.
- 38. ^ a b Attenbrow (2010). pp. 22-29
- 39. ^ Troy, Jakelin (2019). The Sydney Language (2nd ed.). Canberra: Aboriginal Studies Press. pp. 19–25. ISBN 9781925302868.
- 40. A British settlers each used different spellings for Indigenous words. The clan names in this list use Troy's (2019) orthography.
- 41. ^ Attenbrow (2010). p. 13
- 42. A "Once were warriors". The Sydney Morning Herald. 2002. Archived from the original on 22 August 2011. Retrieved 5 July 2014.
- 43. A Blainey, Geoffrey (2020). Captain Cook's epic voyage. Australia: Viking. pp. 141–43. ISBN 9781760895099.
- 44. * "Eight days in Kamay". State Library of New South Wales. 22 April 2020. Archived from the original on 3 June 2023. Retrieved 29 May 2022.
- 45. A Blainey (2020). pp. 146-57
- 46. ^ Macintyre, Stuart (2020). A concise history of Australia (5th ed.). Port Melbourne: Cambridge University Press. pp. 34–35. ISBN 9781108728485.
- 47. * Karskens, Grace (2013). "The early colonial presence, 1788-1822". In Bashford, Alison; MacIntyre, Stuart (eds.). The Cambridge History of Australia, Volume 1, Indigenous and Colonial Australia. Cambridge: Cambridge University Press. p. 91. ISBN 9781107011533.
- 48. ^ Peter Hill (2008) pp.141–50
- 49. * "SL/nsw.gov.au". SL/nsw.gov.au. 9 October 2009. Archived from the original on 3 February 2013. Retrieved 14 July 2011.
- 50. ^ Macintyre (2020). pp.34–37
- ^ Karskens, Grace (2013). "The early colonial presence, 1788-1822". In Bashford, Alison; MacIntyre, Stuart (eds.). The Cambridge History of Australia, Volume I, Indigenous and colonial Australia. Cambridge: Cambridge University Press. pp. 90–114. ISBN 9781107011533.
- 52. A Mear, Craig (2008). "The origin of the smallpox outbreak in Sydney in 1789". Journal of the Royal Australian Historical Society. Archived from the original on 31 August 2011.

- Retrieved 5 July 2014.
- 53. A Karskens, Grace (2013). "The early colonial presence, 1788–1822". In *The Cambridge History of Australia, Volume 1.* pp. 106, 117–19
- 54. * Karskens, Grace (2009). The Colony, a history of early Sydney. Crows Nest, NSW: Allen and Unwin. pp. 71–75. ISBN 9781741756371.
- 55. ^ McGillick, Paul; Bingham-Hall, Patrick (2005). Sydney architecture. p. 14 to 15.
- 56. ^ Karskens (2009). pp. 185-188
- 57. A Percival Serle (1949). "Bligh, William (1754–1817)". Dictionary of Australian Biography. Project Gutenberg Australia. LCCN 49006289. OCLC 1956219. OL 7423467W. Wikidata Q5273962.
- 58. A Broomham, Rosemary (2001), Vital connections: a history of NSW roads from 1788, Hale & Iremonger in association with the Roads & Traffic Authority, p. 25, ISBN 978-0-86806-703-2
- 59. ^ Kingston, Beverley (2006). A History of New South Wales. Cambridge: Cambridge University Press. pp. 118–19. ISBN 9780521833844.
- 60. ^ Karskens, Grace (2013). pp. 115–17
- 61. A Haines, Robin, and Ralph Shlomowitz. "Nineteenth century government-assisted and total immigration from the United Kingdom to Australia: quinquennial estimates by colony." *Journal of the Australian Population Association*, vol. 8, no. 1, 1991, pp. 50–61. *JSTOR*, www.jstor.org/stable/41110599. Accessed 20 July 2021.
- 62. ^ a b c d Fitzgerald, Shirley (2011). "Sydney". Dictionary of Sydney, State Library of New South Wales. Archived from the original on 24 September 2022. Retrieved 30 July 2022.
- 63. ^ **a b c** "History of City of Sydney council". City of Sydney. September 2020. Archived from the original on 18 July 2023. Retrieved 30 July 2020.
- 64. ^ Karskens (2009). pp. 29-297
- 65. * "Castle Hill Rebellion". nma.gov.au. 30 June 2021. Archived from the original on 10 August 2021. Retrieved 31 August 2021.
- 66. * Whitaker, Anne-Maree (2009). "Castle Hill convict rebellion 1804". Dictionary of Sydney. Archived from the original on 4 March 2018. Retrieved 3 January 2017.
- 67. ^ Flood, Josephine (2019). p. 66
- 68. A Broome, Richard (2019). pp. 25–26
- 69. ^ Flood, Josephine (2019). p. 70
- 70. A Banivanua Mar, Tracey; Edmonds, Penelope (2013). "Indigenous and settler relations". The Cambridge History of Australia, Volume I. p. 344.
- 71. A Goodman, David (2013). "The gold rushes of the 1850s". *The Cambridge History of Australia, Volume I.* pp. 180–81.
- 72. * Kingston, Beverley (2006). A History of New South Wales. Cambridge University Press. pp. 74–80. ISBN 9780521833844.
- 73. ^ Coghlan, T. A (1893). The Wealth and progress of New South Wales (7th ed.). Sydney: E. A. Petherick & Co., Sydney. pp. 311–15.
- 74. A Radford, Neil (2016). "The University of Sydney". Dictionary of Sydney, State Library of New South Wales. Archived from the original on 17 August 2022. Retrieved 2 August 2022.
- 75. * Ellmoos, Leila. "Australian Museum". The Dictionary of Sydney, State Library oif New South Wales. Archived from the original on 17 August 2022. Retrieved 2 August 2022.

- 76. * "Town Hall". Dictionary of Sydney, State Library of New South Wales. Archived from the original on 17 August 2022. Retrieved 2 August 2022.
- 77. * Ellmoos, Laila (2008). "General Post Office". Dictionary of Sydney, State Library of New South Wales. Archived from the original on 17 August 2022. Retrieved 2 August 2022.
- 78. ^ Noyce, Diana Christine (2012). "Coffee Palaces in Australia: A Pub with No Beer". M/C Journal. 15 (2). doi:10.5204/mcj.464. ISSN 1441-2616.
- 79. ^ McDermott, Marie-Louise, Marie-Louise (2011). "Ocean baths". Dictionary of Sydney, State Library of New South Wales. Archived from the original on 17 August 2022. Retrieved 2 August 2022.
- 80. ^ KIngston (2006). pp. 88–89, 95–97
- 81. * "Australian Historical Population Statistics, 3105.0.65.001, Population distribution". Australian Bureau of Statistics. 2019. Archived from the original on 1 August 2022. Retrieved 2 August 2022.
- 82. ^ Kingston (2006). p. 132
- 83. ^ Spearritt, Peter (2000). Sydney's century, a history. Sydney: UNSW Press. pp. 57–58. ISBN 0868405213.
- 84. ^ Spearritt (2000). pp. 58–59
- 85. ^ Spearritt (2000). p. 62
- 86. ^ Spearritt (2000). p. 72
- 87. ^ Kingston (2006). pp. 157–59
- 88. A "Bradleys Head Fortification Complex, Mosman, NSW Profile". Archived from the original on 18 May 2007.
- 89. ^ Spearritt (2000). p. 91
- 90. ^ Spearritt (2000). pp. 93-94, 115-16
- 91. ^ Spearritt (2000). pp. 109–11
- 92. * "The 1954 Royal Tour of Queen Elizabeth II". State Library of New South Wales. 10 January 2018. Archived from the original on 8 September 2022. Retrieved 18 August 2022.
- 93. ^ Kingston (2006). pp. 184-86
- 94. ^ Spearritt (2000). pp. 109–12, 259–62
- 95. * "2021 Census of Population and Housing, General community profile, Greater Sydney, Table GO9(c)". Australian Bureau of Statistics. 2021. Archived from the original on 28 June 2022. Retrieved 4 August 2020.
- 96. ^ **a b** "Australian Statistical Geography Standard (ASGS) Edition 3". Australian Bureau of Statistics. 5 October 2022. Archived from the original on 27 January 2022. Retrieved 29 January 2022.
- 97. A "Areas of Service". City of Sydney. 4 August 2020. Archived from the original on 29 December 2022. Retrieved 29 December 2022.
- 98. A Igneous intrusions Archived 1 November 2021 at the Wayback Machine by the Australian Museum. 13 November 2018. Retrieved 1 November 2021.
- 99. ^ a b c "Sydney Basin". Office of Environment and Heritage. 2014. Archived from the original on 8 July 2014. Retrieved 12 July 2014.
- 100. A "Game Fishing Seasonal Guide". Exclusive Getaway. Retrieved 29 December 2024.
- 101. Alan Jordan, Peter Davies, Tim Ingleton, Edwina Foulsham, Joe Neilson and Tim Pritchard. "Seabed habitat mapping of the continental shelf of NSW" (PDF). Department of Climate Change, Energy, the Environment and Water. Retrieved 29 December 2024.cite

- web: CS1 maint: multiple names: authors list (link)
- 102. ^ Latta, David (2006). "Showcase destinations Sydney, Australia: the harbour city". Archived from the original on 9 April 2014. Retrieved 12 July 2014.
- 103. * "Soils for nature". Office of Environment and Heritage. 7 November 2019. Archived from the original on 20 October 2020. Retrieved 26 September 2020.
- 104. A Herbert, Chris; Helby, Robin (1980). A Guide to the Sydney basin (1 ed.). Maitland: Geological Survey of New South Wales. p. 582. ISBN 0-7240-1250-8.
- 105. A William, E; Airey, DW (1999). "A Review of the Engineering Properties of the Wianamatta Group Shales". Proceedings 8th Australia New Zealand Conference on Geomechanics: Consolidating Knowledge. Barton, ACT: Australian Geomechanics Society: 641–647. ISBN 1864450029. Archived from the original on 14 August 2008.
- 106. ^ "Coastal Valley Grassy Woodlands". NSW Environment & Heritage. Archived from the original on 29 September 2023. Retrieved 15 December 2019.
- 107. * "Dry sclerophyll forests (shrub/grass sub-formation)". NSW Environment & Heritage. Archived from the original on 18 October 2016. Retrieved 15 October 2016.
- 108. * "Dry sclerophyll forests (shrubby sub-formation)". NSW Environment & Heritage. Archived from the original on 19 July 2023. Retrieved 16 December 2019.
- 109. * "Wet sclerophyll forests (grassy sub-formation)". NSW Environment & Heritage. Archived from the original on 4 March 2017. Retrieved 16 March 2017.
- 110. A Earth Resource Analysis PL (1998). Cumberland Plains Woodland: Trial Aerial Photographic interpretation of remnant woodlands, Sydney (Unpublished report for the NSW National Parks and Wildlife, Hurstville).
- 111. * Recovering bushland on the Cumberland Plain Archived 12 September 2022 at the Wayback Machine Department of Environment and Conservation (NSW). (2005). Recovering Bushland on the Cumberland Plain: Best practice guidelines for the management and restoration of bushland. Department of Environment and Conservation (NSW), Sydney. Retrieved 12 September 2022.
- 112. * "Sydney Blue Gum High Forest" (PDF). Nationally Threatened Species and Ecological Communities. Environment.gov.au. Archived from the original (PDF) on 18 June 2012. Retrieved 16 May 2012.
- 113. * "Eastern Suburbs Banksia Scrub of the Sydney Region" (PDF). Department of Agriculture, Water and the Environment. Archived from the original (PDF) on 14 September 2022. Retrieved 15 September 2022.
- 114. * "Urban Bushland in the Ryde LGA Sydney Sandstone Ridgetop Woodland" (PDF). Ryde Council. Archived (PDF) from the original on 22 March 2016. Retrieved 15 November 2018.
- 115. A Hindwood, K. A. and McCill, A. R., 1958. *The Birds of Sydney* (Cumberland Plain) New South Wales. Royal Zoological Society New South Wales.
- 116. A Dolby, Tim; Clarke, Rohan (2014). Finding Australian Birds. CSIRO Publishing. ISBN 9780643097667. Archived from the original on 12 January 2016. Retrieved 10 July 2017.
- 117. ^ Cogger, H.G. (2000). Reptiles and Amphibians of Australia. Reed New Holland.
- 118. A Green, D., 1973. -Re reptiles of the outer north-western suburbs of Sydney. Herpetofauna 6 (2): 2–5.
- 119. * "Sydney's flying foxes now Bundy's problem". North Queensland Register. 2 August 2012. Archived from the original on 30 December 2012. Retrieved 22 February 2014.

- 120. * Whyte, Robert; Anderson, Greg (2017). A Field Guide to Spiders of Australia. Clayton VIC: CSIRO Publishing.
- 121. ^ Falkner, Inke; Turnbull, John (2019). Underwater Sydney. Clayton South, Victoria: CSIRO Publishing. ISBN 9781486311194.
- 122. * "Modelling and simulation of seasonal rainfall" (PDF). Centre for Computer Assisted Research Mathematics and its Applications (CARMA). 20 May 2014. Archived from the original (PDF) on 13 March 2019. Retrieved 25 February 2016. "Brisbane and Sydney each have a humid sub-tropical or temperate climate with no pronounced dry season...the classification is Cfa"
- 123. * "Sydney holiday weather". Met Office. Archived from the original on 29 August 2023. Retrieved 29 August 2023.
- 124. ^ **a b** "Sydney: Climate and water". Bureau of Meteorology. April 2017. Retrieved 20 April 2024.
- 125. * "WEATHER IN SYDNEY". Australia.com. Tourism Australia. 23 May 2023. Archived from the original on 29 August 2023. Retrieved 29 August 2023.
- 126. A "Climate and the Sydney 2000 Olympic Games". Australian Government. Australian Bureau of Statistics. 24 September 2007. Archived from the original on 10 June 2008. Retrieved 21 December 2008.
- 127. ^ **a b** "Southern Annular Mode: The climate 'influencer' you may not have heard of". ABC News. 14 August 2018. Archived from the original on 19 August 2023. Retrieved 29 September 2020.
- 128. * "Special Climate Statement 71—severe fire weather conditions in southeast Queensland and northeast New South Wales in September 2019" (PDF). Bureau of Meteorology. 24 September 2019. Archived (PDF) from the original on 9 January 2020. Retrieved 5 January 2020.
- 129. ^ Bubathi, Varsha; Leslie, Lance; Speer, Milton; Hartigan, Joshua; Wang, Joanna; Gupta, Anjali (26 March 2023). "Impact of Accelerated Climate Change on Maximum Temperature Differences between Western and Coastal Sydney". Climate. 11 (4): 76. Bibcode: 2023Clim...11...76B. doi:10.3390/cli11040076.
- 130. ^ **a b c** "Climate statistics for Australian locations". Bureau of Meteorology. Archived from the original on 24 May 2020. Retrieved 15 November 2013.
- 131. * "Sydney (Observatory Hill)". Climate statistics for Australian locations. Bureau of Meteorology. Retrieved 15 November 2013.
- 132. A Bureau of Meteorology. 2006. Climate summary for Sydney, January 2006 Archived 2 September 2013 at the Wayback Machine
- 133. ^ Creagh, Sunanda. "Sydney smashes temperature records but heatwave nearly over". The Conversation. The Conversation Media Group. Archived from the original on 21 February 2024. Retrieved 21 January 2013.
- 134. A Torok, S. and Nicholls, N. 1996. A historical annual temperature dataset for Australia. Aust. Met. Mag., 45, 251–60.
- 135. * "Penrith hits record temperature of 48.9C as heatwave strikes NSW". Daily Telegraph.

 Archived from the original on 5 January 2020. Retrieved 6 January 2020.
- 136. * Sydney Sea Temperature Archived 5 July 2017 at the Wayback Machine seatemperature.org

- 137. * "Climate statistics for Australian locations Sydney Airport AMO". Bureau of Meteorology. Archived from the original on 23 September 2015. Retrieved 19 October 2020.
- 138. ^ MacDonnell, Freda. Thomas Nelson (Australia) Limited, 1967. Before King's Cross
- 139. ^ **a b** "Sydney area an 'urban heat island' vulnerable to extreme temperatures". The Sydney Morning Herald. 14 January 2016. Archived from the original on 14 January 2016. Retrieved 14 January 2016.
- 140. A Santamouris, Mat; Haddad, Shamila; Fiorito, Francesco; Osmond, Paul; Ding, Lan; Prasad, Deo; Zhai, Xiaoqiang; Wang, Ruzhu (2017). "Urban Heat Island and Overheating Characteristics in Sydney, Australia. An Analysis of Multiyear Measurements". Sustainability . 9 (5): 712. doi:10.3390/su9050712.
- 141. * "Special Climate Statement 43 extreme heat in January 2013" (PDF). Bureau of Meteorology. 1 February 2013. Archived (PDF) from the original on 23 September 2015. Retrieved 2 February 2013.
- 142. A Batt, K, 1995: Sea breezes on the NSW coast, Offshore Yachting, Oct/Nov 1995, Jamieson Publishing.
- 143. A ""Southerly Buster" Relieves City". The Sydney Morning Herald. National Library of Australia. 17 December 1953. p. 1. Archived from the original on 21 February 2024. Retrieved 27 March 2015.
- 144. A Sharples, J.J. Mills, G.A., McRae, R.H.D., Weber, R.O. (2010) *Elevated fire danger conditions associated with foehn-like winds in southeastern Australia. Journal of Applied Meteorology and Climatology*.
- 145. A Sharples, J.J., McRae, R.H.D., Weber, R.O., Mills, G.A. (2009) Foehn-like winds and fire danger anomalies in southeastern Australia. Proceedings of the 18th IMACS World Congress and MODSIM09. 13–17 July, Cairns.
- 146. A Bellinda Kontominas (9 May 2019). "BOM predicts NSW and ACT temperatures to plummet as cold snap sweeps through". ABC News. Archived from the original on 5 October 2021. Retrieved 5 October 2021.
- 147. A Helen Davidson (12 May 2014). "Roaring Forties' shift south means more droughts for southern Australia". The Guardian. Archived from the original on 31 October 2022. Retrieved 2 November 2022.
- 148. * "Cold, damaging winds blast Sydney". The Leader. 9 August 2019. Archived from the original on 9 August 2019. Retrieved 2 November 2022.
- 149. * "BOM warns NSW to brace for worse weather as strong winds tear roof off Newcastle nursing home". ABC News. 9 August 2019. Archived from the original on 7 November 2020. Retrieved 2 November 2022.
- 150. Context statement for the Sydney Basin bioregion Climate Archived 10 April 2021 at the Wayback Machine by Bioregional Assessments from the Australian Government. Retrieved 11 April 2021.
- 151. A "Australia's new seasonal rainfall zones". ABC News. 25 February 2016. Archived from the original on 21 October 2021. Retrieved 11 April 2021.
- 152. A "Sydney future: high temps, erratic rain". The Sydney Morning Herald. Archived from the original on 18 January 2021. Retrieved 29 September 2020.
- 153. A "Commuters in Sydney and eastern NSW brace for erratic weather". News.com.au. Archived from the original on 24 January 2021. Retrieved 29 September 2020.

- 154. A Drosdowsky, Wasyl (2 August 2005). "The latitude of the subtropical ridge over Eastern Australia: TheL index revisited". International Journal of Climatology. **25** (10): 1291–1299. Bibcode:2005IJCli..25.1291D. doi:10.1002/joc.1196. S2CID 140198125. Archived from the original on 21 February 2024. Retrieved 2 July 2022.
- 155. Australian Bureau of Meteorology. 2005. Ellyard, D. 1994. Droughts and Flooding Rains. Angus & Robertson ISBN 0-207-18557-3
- 156. * "About East Coast Lows". Bureau of Meteorology. Archived from the original on 2 April 2013. Retrieved 6 April 2013.
- 157. * "Black Nor-Easter". The Sydney Morning Herald. National Library of Australia. 30 October 1911. p. 7. Archived from the original on 12 September 2023. Retrieved 27 March 2015.
- 158. A Power, S., Tseitkin, F., Torok, S., Lavery, B., Dahni, R. and McAvaney, B. 1998. Australian temperature, Australian rainfall and the Southern Oscillation, 1910–1992: coherent variability and recent changes. Aust. Met. Mag., 47, 85–101
- 159. * "Sydney winter not snow, just hail". Sydney Morning Herald. 27 July 2008. Archived from the original on 23 July 2014. Retrieved 15 November 2013. "Mr Zmijewski doubted the 1836 snow report, saying weather observers of the era lacked the expertise of today. "We are almost in the sub-tropics in Sydney", he said."
- 160. * "Sydney in 2009". Bom.gov.au. 4 January 2010. Archived from the original on 20 March 2015. Retrieved 10 February 2012.
- 161. * "Sydney in 2010". Bom.gov.au. 4 January 2011. Archived from the original on 12 January 2012. Retrieved 10 February 2012.
- 162. * "Sydney (Observatory Hill) Period 1991-2020". Bureau of Meteorology. Retrieved 14 April 2020.
- 163. A "Sydney (Observatory Hill): all years". Bureau of Meteorology. Retrieved 4 June 2018.
- 164. * "Sydney (Observatory Hill): highest temperatures". Bureau of Meteorology. Archived from the original on 27 September 2023. Retrieved 23 September 2023.
- 165. * "Sydney (Observatory Hill): lowest temperatures". Bureau of Meteorology. Retrieved 23 September 2023.
- 166. * "Climate statistics for Australian locations Sydney Airport AMO". Bureau of Meteorology.
- 167. * "Greater Cities Commission Act 2022 No 8". legislation.nsw.gov.au. 4 November 2022. Archived from the original on 29 June 2023. Retrieved 29 June 2023.
- 168. * "Greater Sydney GCCSA". Australian Bureau of Statistics Data by Region. Archived from the original on 6 April 2020. Retrieved 25 January 2020.
- 169. * "2016 Census QuickStats". Australian Bureau of Statistics. Archived from the original on 17 January 2020. Retrieved 24 April 2020.
- 170. * "Sydney unprepared for terror attack". The Australian. 4 September 2007. Retrieved 3 June 2017.
- 171. * "The Strand". Sydney Morning Herald. No. 16, 858. New South Wales, Australia. 2 April 1892. p. 5. Retrieved 27 October 2016 via National Library of Australia.
- 172. * "The largest shopping centres in Australia". worldatlas.com. 6 November 2019. Archived from the original on 7 August 2020. Retrieved 24 April 2020.
- 173. *** "Ultimo and Pyrmont: a decade of renewal"** (PDF). Sydney Harbour Foreshore Authority. 2004. Archived from the original (PDF) on 13 June 2009. Retrieved 13 July 2014.
- 174. * "Business-friendly boost for Oxford St lane way". City of Sydney. 2014. Archived from the original on 18 October 2014. Retrieved 13 July 2014.

- 175. A Dick, Tim (2014). "At the crossroads". The Sydney Morning Herald. Archived from the original on 24 September 2015. Retrieved 13 July 2014.
- 176. ^ **a b** Dunn, Mark (1970). "Darlinghurst". Dictionary of Sydney. Archived from the original on 19 October 2014. Retrieved 9 August 2014.
- 177. A "Green Square". City of Sydney. 2014. Archived from the original on 3 July 2014. Retrieved 13 July 2014.
- 178. * "Discover Barangaroo". Barangaroo Delivery Authority. 2013. Archived from the original on 13 August 2014. Retrieved 13 July 2014.
- 179. A Wotherspoon, Garry (2012). "Paddington". Dictionary of Sydney. Archived from the original on 19 October 2014. Retrieved 9 August 2014.
- 180. A Green, A, "Strathfield By-election NSW Election 2022 Archived 3 May 2023 at the Wayback Machine", Australian Broadcasting Corporation
- 181. A McIntyre, Tim (10 June 2016). "Sydney's new prestige hotspot". Daily Telegraph. Archived from the original on 25 October 2016. Retrieved 3 May 2023.
- 182. ^ *a b c* Sweeney, N., "Sydney dominates Melbourne for the 20 most expensive postcodes Archived 29 June 2023 at the Wayback Machine", *The Australian Financial Review*
- 183. A Boys, C., "Where is Sydney's new Little Italy? Archived 3 May 2023 at the Wayback Machine", Good Food, 22 April 2014
- 184. * "Tarting up Petersham with an ethnic flavour Archived 3 May 2023 at the Wayback Machine", Sydney Morning Herald, 6 September 2002
- 185. A Burke, K, Little Korea ready to rise from "melting pot Archived 3 May 2023 at the Wayback Machine", Sydney Morning Herald, 26 May 2012
- 186. * West, A., "Business booms in 'little Shanghai' Archived 18 July 2023 at the Wayback Machine", Sydney Morning Herald, 18 June 2011
- 187. * "Strathfield Station". Nswrail.net. Archived from the original on 2 July 2022. Retrieved 2 July 2022.
- 188. * "Rivercat Class Transdev". Archived from the original on 7 December 2021. Retrieved 23 May 2023.
- 189. * "Newtown". Marrickville.nsw.gov.au. Archived from the original on 6 May 2018. Retrieved 23 April 2018.
- 190. * "State-by-state: Find out if you're living in one of the richest, or poorest, postcodes". SBS News. Archived from the original on 5 September 2023. Retrieved 5 September 2023.
- 191. A Badkar, Mamta (2011). "The 10 most expensive streets in the world". Business Insider. Archived from the original on 13 July 2014. Retrieved 13 July 2014.
- 192. * "Labor, Greens, Howard's battlers: Explore the politics of disadvantage". ABC News. 6
 April 2018. Archived from the original on 8 April 2018. Retrieved 21 April 2018.
- 193. ^ Sydney Morning Herald, 1 January 2009, p.18
- 194. * "Forecasting the Distribution of Stand-Alone Office Employment across Sydney to 2035" (PDF). NSW Department of Planning and Environment. August 2015. Archived from the original (PDF) on 24 November 2021. Retrieved 20 July 2021.
- 195. A "Our Greater Sydney 2056 Eastern City District Plan connecting communities" (PDF). Greater Sydney Commission. March 2018. Archived from the original (PDF) on 1 March 2021. Retrieved 20 July 2021.
- 196. A Sydney's new light rail is now open from Circular Quay to Kingsford Archived 2 April 2020 at the Wayback Machine Transport for NSW 3 April 2020

- 197. * The Book of Sydney Suburbs, Compiled by Frances Pollon, Angus & Robertson Publishers, 1990, Published in Australia ISBN 0-207-14495-8, page 149
- 198. * "National Regional Profile Northern Beaches Sydney". Rodis.com.au. Archived from the original on 2 March 2022. Retrieved 2 July 2022.
- 199. * "Ancestry | Northern Beaches Council | Community profile". profile.id.com.au. Archived from the original on 13 January 2024. Retrieved 29 January 2025.
- 200. * "Ozroads: Old Windsor Road & Windsor Road". Ozroads.com.au. Archived from the original on 26 April 2018. Retrieved 2 July 2022.
- 201. * "Major Milestone As Metro Northwest Completes Its First Full Test". Transport for NSW. 14 January 2019. Retrieved 9 February 2021.
- 202. * "Parramatta". Parramatta Chamber of Commerce. 2014. Archived from the original on 6 August 2014. Retrieved 13 July 2014.
- 203. ^ Jennifer Scherer. "This part of Australia is set to be renamed 'Little India'". SBS Australia. Retrieved 24 June 2024.
- 204. A Ben McLellan. "What to do and see in the secret of Fairfield". Herald Sun. Retrieved 26 December 2023.
- 205. A Enclave, Place, or Nation? Defining Little Saigon in the Midst of Incorporation, Transnationalism, and Long Distance Activism by Christian Collet and Hiroko Furuya from Amerasia Journal 36:3 (2010): 1–27. January 2010. Retrieved 29 November 2022.
- 206. * Sydney by Sam Holmes. The Wall Street Journal Asia. 21 June 2009. Retrieved 29 November 2022.
- 207. * "Home WSROC Region". Profile.id.com.au. Archived from the original on 8 November 2022. Retrieved 10 January 2019.
- 208. ^ McClymont, John; Kass, Terry (2010). "Old Toongabbie and Toongabbie". Dictionary of Sydney. Dictionary of Sydney Trust. Archived from the original on 30 July 2019. Retrieved 30 July 2019.
- 209. * "Water theme park planned for Sydney". ABC News. 11 September 2010. Archived from the original on 13 September 2010. Retrieved 11 September 2010.
- 210. * "Auburn Botanical Gardens". chah.gov.au. Archived from the original on 6 October 2009. Retrieved 4 October 2009.
- 211. * "Visitor Information How to Get Here". Sydney Motorsport Park. Archived from the original on 10 April 2013. Retrieved 21 February 2013.
- 212. A Jones, I., and Verdel, C. (2015). Basalt distribution and volume estimates of Cenozoic volcanism in the Bowen Basin region of eastern Australia: Implications for a waning mantle plume. Australian Journal of Earth Sciences, 62(2), 255–263.
- 213. * "State Heritage Inventory". Heritage NSW. 22 October 2019. Archived from the original on 4 March 2022. Retrieved 2 July 2022.
- 214. ^ O'Maley, Christine (23 November 2009). "Featherdale beats Opera House to claim major tourism award". Blacktown Advocate. Archived from the original on 1 July 2012. Retrieved 18 March 2012.
- 215. A Boon, Maxim (25 November 2019). "New Sydney Zoo announces long-awaited opening date". TimeOut. Sydney, Australia. Archived from the original on 28 November 2019. Retrieved 24 December 2019.
- 216. ^ Chalmers, Emma; Martin, Saray (1 August 2010). "World Heritage Committee approves Australian Convict Sites as places of importance". The Courier–Mail. Australia. Archived

- from the original on 3 June 2012. Retrieved 17 April 2018.
- 217. A Energy, Department of the Environment and (17 April 2018). "National Heritage Places Old Government House and Government Domain, Parramatta". Environment.gov.au.

 Archived from the original on 12 October 2013. Retrieved 16 April 2018.
- 218. A Degotardi, Peter (1 February 2004). The Month in Review (PDF) (Report). Herron Todd White Property Advisors. Archived from the original (PDF) on 20 August 2006.
- 219. * "Bankstown Reservoir (Elevated)". New South Wales State Heritage Register.

 Department of Planning & Environment. Retrieved 27 March 2018. **Text*is licensed by State of New South Wales (Department of Planning and Environment) under CC BY 4.0 license.
- 220. A Boulous, Chris (20 April 2018). "Nothing Bland about our Oak tree". Fairfield City Champion. FAIRFAX REGIONAL MEDIA. Archived from the original on 29 August 2018. Retrieved 29 August 2018.
- 221. * "Sydney The Skyscraper Center". Skyscrapercenter.com. Archived from the original on 1 November 2021. Retrieved 16 July 2020.
- 222. * "Australia's World Heritage List". Department of the Environment. 2014. Archived from the original on 19 July 2014. Retrieved 19 July 2014.
- 223. * "Australia's National Heritage List". Department of the Environment. 2014. Archived from the original on 19 July 2014. Retrieved 19 July 2014.
- 224. * "Australian Heritage Database". Department of the Environment. 2014. Archived from the original on 14 September 2014. Retrieved 19 July 2014.
- 225. ^ **a b** "Macquarie Lighthouse". Department of the Environment. 2014. Archived from the original on 26 April 2015. Retrieved 20 July 2014.
- 226. ^ **a b** "Macquarie Lightstation". Sydney Harbour Federation Trust. 2001. Archived from the original on 9 February 2006. Retrieved 20 July 2014.
- 227. * "Hyde Park Barracks". Department of the Environment. 2014. Archived from the original on 18 October 2014. Retrieved 20 July 2014.
- 228. ^ Judd, Stephen; Cable, Kenneth (2000). Sydney Anglicans a history of the diocese. p. 12.
- 229. ^ **a b** "Chronology of styles in Australian architecture". Sydney Architecture. 2014. Archived from the original on 8 September 2014. Retrieved 19 July 2014.
- 230. * "Government House". Department of Premier and Cabinet. 2014. Archived from the original on 24 January 2013. Retrieved 20 July 2014.
- 231. **^ "Changes not music to purists' ears"**. The Sydney Morning Herald. 8 September 2008. Archived from the original on 27 May 2016. Retrieved 14 November 2016.
- 232. * "Kirribilli House". Department of the Environment. 2014. Archived from the original on 26 April 2015. Retrieved 20 July 2014.
- 233. * "A short history of the Australian Museum". Australian Museum. Australia Museum. 20 July 2014. Archived from the original on 22 August 2020. Retrieved 21 August 2020. Alt URL Archived 18 July 2014 at the Wayback Machine
- 234. * "General Post Office". Department of the Environment. 2014. Archived from the original on 4 September 2015. Retrieved 20 July 2014.
- 235. * "Sydney Customs House". Department of the Environment. 2014. Archived from the original on 4 September 2015. Retrieved 20 July 2014.

- 236. * "Construction of Sydney Town Hall". Sydney Town Hall. 2014. Archived from the original on 20 July 2014. Retrieved 20 July 2014.
- 237. A "Features of Sydney Town Hall". Sydney Town Hall. 2014. Archived from the original on 20 July 2014. Retrieved 20 July 2014.
- 238. ^ **a b** Freyne, Catherine (2010). "Sydney Technical College". Dictionary of Sydney. Archived from the original on 26 April 2015. Retrieved 10 August 2014.
- 239. * "History of Queen Victoria Building". Queen Victoria Building. 2014. Archived from the original on 19 August 2014. Retrieved 20 July 2014.
- 240. * Ellmoos, Laila (2008). "Queen Victoria Building". Dictionary of Sydney. Archived from the original on 29 July 2014. Retrieved 9 August 2014.
- 241. * "Commercial Travellers Club". Sydney Architecture Images. Archived from the original on 23 October 2016. Retrieved 14 December 2018.
- 242. ^ McGillick, Paul; Bingham-Hall, Patrick (2005). Sydney architecture. p. 14 to 15.
- 243. * "Sydney Harbour Bridge". Commonwealth of Australia. 2014. Archived from the original on 12 May 2012. Retrieved 6 July 2014.
- 244. * "Sydney Harbour Bridge". Department of the Environment. 2014. Archived from the original on 25 August 2014. Retrieved 20 July 2014.
- 245. ^ **a b** "Sydney Opera House". Department of the Environment. 2014. Archived from the original on 13 February 2014. Retrieved 20 July 2014.
- 246. * "Citigroup Centre". Emporis. 2014. Archived from the original on 7 November 2012. Retrieved 20 July 2014.
- 247. A "Aurora Place". Emporis. 2014. Archived from the original on 10 September 2012. Retrieved 20 July 2014.
- 248. A "Chifley Tower". Emporis. 2014. Archived from the original on 7 November 2012. Retrieved 20 July 2014.
- 249. A Ellmoos, Laila (2008). "Chifley Tower". Dictionary of Sydney. Archived from the original on 19 October 2014. Retrieved 8 August 2014.
- 250. * "Reserve Bank". Department of the Environment. 2014. Archived from the original on 4 September 2015. Retrieved 20 July 2014.
- 251. ^ "Deutsche Bank Place". Emporis. 2014. Archived from the original on 5 November 2012. Retrieved 20 July 2004.
- 252. * "MLC Centre". Emporis. 2014. Archived from the original on 7 November 2012. Retrieved 20 July 2014.
- 253. * "Castlereagh Centre". Emporis. 2014. Archived from the original on 11 October 2012. Retrieved 20 July 2014.
- 254. A Dunn, Mark (2008). "Centrepoint Tower". Dictionary of Sydney. Archived from the original on 19 October 2014. Retrieved 8 August 2014.
- 255. A "'It's held Sydney back': Council reveals plan to raise CBD skyline by 100 metres".

 Abc.net.au. 25 February 2020. Archived from the original on 20 August 2020. Retrieved 30 May 2020.
- 256. * "Unlocked: Demolished Sydney". SydneyLivingMuseums.com.au. 16 January 2017. Archived from the original on 13 April 2020. Retrieved 14 December 2018.
- 257. * "Sydney houses are so 'severely unaffordable', it's cheaper to buy in New York". Business Insider (Australia). 24 January 2017. Archived from the original on 25 January 2017. Retrieved 25 January 2017.

- 258. A "How Sydney house prices compare with other global cities". Domain Group. 25 July 2015. Archived from the original on 2 February 2017. Retrieved 25 January 2017.
- 259. ^ Heagney-Bayliss, Tawar Razaghi, Melissa (23 January 2024). "Sydney's median house price reaches a new peak of almost \$1.6 million". The Sydney Morning Herald. Retrieved 19 December 2024.cite web: CS1 maint: multiple names: authors list (link)
- 260. ^ a b c d e f g h i "2021 Sydney, Census All persons QuickStats | Australian Bureau of Statistics". www.abs.gov.au. Archived from the original on 27 May 2023. Retrieved 27 May 2023.
- 261. ^ **a b** Darcy, Michael (2008). "Housing Sydney". Dictionary of Sydney. Archived from the original on 19 October 2014. Retrieved 9 August 2014.
- 262. A "Services offered". Housing New South Wales. 2012. Archived from the original on 19 October 2014. Retrieved 19 October 2014.
- 263. A Irving, Terry; Irving, Terrence H.; Cahill, Rowan J. (2010). Radical Sydney: Places, Portraits and Unruly Episodes. UNSW Press. p. 306. ISBN 9781742230931.
- 264. A "A public housing terrace in Sydney sold for a staggering \$2.2 million above reserve".

 Business Insider. 10 December 2016. Archived from the original on 2 February 2017.

 Retrieved 23 January 2017.
- 265. * Kimmorley, Sarah (15 April 2016). "This \$13 million Sydney property is the most expensive terrace in Australia". Business Insider. Archived from the original on 2 February 2017. Retrieved 23 January 2017.
- 266. A. H.J. Samuell, How to Know Sydney, 1895.
- 267. * "Sydney's culture of place". Charles Sturt University. 2014. Archived from the original on 25 October 2014. Retrieved 26 July 2014.
- 268. * "Royal Botanic Garden, Sydney". Royal Botanic Garden, Sydney. Archived from the original on 1 December 2016. Retrieved 21 November 2016.
- 269. * "Major parks". City of Sydney. 2014. Archived from the original on 23 June 2014. Retrieved 19 July 2014.
- 270. * "Centennial Park". Centennial Parklands. Centennial Park and Moore Park Trust. Archived from the original on 18 February 2017. Retrieved 18 February 2017.
- 271. * "Royal National Park". Office of Environment and Heritage. 2014. Archived from the original on 14 April 2015. Retrieved 13 July 2014.
- 272. * "ANZAC Memorial, Sydney Archived 9 May 2015 at the Wayback Machine", ANZAC Day Commemoration Committee (Qld) Incorporated, 1998.
- 273. * "Hyde Park: Plan of Management and Masterplan" (PDF). Sydney City Council. October 2006. pp. 7–11. Archived (PDF) from the original on 22 June 2014. Retrieved 7 September 2012.
- 274. * "Ku-ring-gai Chase National Park history". Office of Environment and Heritage. 2014. Archived from the original on 8 October 2014. Retrieved 19 July 2014.
- 275. * "Ku-ring-gai Chase National Park heritage". Office of Environment and Heritage. 2014. Archived from the original on 19 March 2011. Retrieved 19 July 2014.
- 276. ^ **a b** "Royal Botanic Gardens history". Office of Environment and Heritage. 2014. Archived from the original on 8 July 2014. Retrieved 19 July 2014.
- 277. * "Royal Botanic Gardens". Dictionary of Sydney. 2008. Archived from the original on 19 October 2014. Retrieved 9 August 2014.

- 278. * "Royal Botanic Gardens fast facts". Office of Environment and Heritage. 2014. Archived from the original on 8 July 2014. Retrieved 19 July 2014.
- 279. * "Hyde Park plan of management and masterplan" (PDF). City of Sydney. 2006. Archived (PDF) from the original on 22 June 2014. Retrieved 19 July 2014.
- 280. * "Hyde Park". City of Sydney. 2014. Archived from the original on 22 June 2014. Retrieved 19 July 2014.
- 281. * "Financial Centres of the World: Sydney, Australia". Ecdconference.org. Archived from the original on 21 February 2020. Retrieved 16 July 2020.
- 282. * "The world according to GaWC 2012". Loughborough University. 2012. Archived from the original on 5 March 2016. Retrieved 31 August 2014.
- 283. A Florida, Richard (2014). "The 25 most economically powerful cities in the world".

 Bloomberg.com. CityLab. Archived from the original on 3 February 2015. Retrieved 20 July 2014.
- 284. ^ **a b** "2014 Global Cities Index" (PDF). AT Kearney. 2014. Archived from the original (PDF) on 16 October 2014. Retrieved 20 July 2014.
- 285. ^ **a b c** "Economic powerhouse". City of Sydney. 2014. Archived from the original on 22 June 2014. Retrieved 21 July 2014.
- 286. ^ **a b c** "Economic profile". City of Sydney. 2014. Archived from the original on 23 June 2014. Retrieved 20 July 2014.
- 287. ^ **a b c d e f g h** Wotherspoon, Garry (2008). "Economy". Dictionary of Sydney. Archived from the original on 19 October 2014. Retrieved 9 August 2014.
- 288. A "GDP report: Economic Performance of Australia's Cities and Regions". sgsep.com.au. 16
 December 2019. Archived from the original on 21 March 2019. Retrieved 20 July 2021.
- 289. ^ **a b** "Australian cities accounts" (PDF). SGS Economics and Planning. 2014. Archived from the original (PDF) on 5 October 2014. Retrieved 31 August 2014.
- 290. A "Creative and digital". City of Sydney. 2014. Archived from the original on 20 August 2014. Retrieved 22 July 2014.
- 291. A Wade, Matt (2014). "NSW dominates creative industries: report". The Sydney Morning Herald. Archived from the original on 28 August 2014. Retrieved 26 July 2014.
- 292. * "Economic profile". Regional Development Australia. 2010. Archived from the original on 16 October 2014. Retrieved 26 July 2014.
- 293. * "Global connections: a study of multinational companies in Sydney" (PDF). Australian Business Foundation. 2009. Archived from the original (PDF) on 26 August 2014. Retrieved 26 July 2014.
- 294. * "Multinational companies regional headquarters". Parliament of New South Wales. 2000. Archived from the original on 19 October 2014. Retrieved 26 July 2014.
- 295. ^ City of Sydney, Street Names Archived 12 January 2013 at the Wayback Machine 22 May 2009
- 296. ^ **a b c** "Prices and earnings". UBS. 2012. Archived from the original on 25 September 2014. Retrieved 20 July 2014.
- 297. * "Employment status, Greater Sydney". ID: The Population Experts. Archived from the original on 18 November 2016. Retrieved 30 March 2018.
- 298. * "Employment status". City of Sydney. 2014. Archived from the original on 6 December 2013. Retrieved 26 July 2014.

- 299. * "Industry sector of employment". City of Sydney. 2016. Archived from the original on 3 November 2012. Retrieved 28 March 2018.
- 300. * "Individual income | Greater Sydney | profile.id". profile.id.com.au. Archived from the original on 15 May 2017. Retrieved 29 March 2018.
- 301. * "2016 Census QuickStats: Greater Sydney". Censusdata.abs.gov.au. Archived from the original on 20 March 2018. Retrieved 29 March 2018.
- 302. ^ **a b** Wade, Matt (2014). "The daily exodus from western Sydney". The Sydney Morning Herald. Archived from the original on 17 July 2014. Retrieved 26 July 2014.
- 303. Abelson, Peter; Chung, Demi (2004). "Housing prices in Australia: 1970 to 2003" (PDF). Macquarie University. Archived from the original (PDF) on 28 December 2013. Retrieved 26 July 2014.
- 304. * "Residential property price indexes: eight capital cities". Australian Bureau of Statistics. 2014. Archived from the original on 18 July 2014. Retrieved 26 July 2014.
- 305. A "Home value index results" (PDF). RP Data. 2014. Archived from the original (PDF) on 15 April 2014. Retrieved 26 July 2014.
- 306. A Rebecca, Thistleton. "Housing land: so scarce so expensive". Australian Financial Review . Archived from the original on 7 April 2020. Retrieved 7 April 2020.
- 307. ^ **a b c d** "Australia's banking history". Australian Broadcasting Corporation. 1998. Archived from the original on 30 July 2014. Retrieved 26 July 2014.
- 308. * "Bank of New South Wales". Dictionary of Sydney. 2008. Archived from the original on 19 October 2014. Retrieved 8 August 2014.
- 309. * "History". ASX. 2014. Archived from the original on 2 September 2014. Retrieved 31 August 2014.
- 310. A Murray, Lisa (2005). "Sydney's niche in global finance". The Sydney Morning Herald. Archived from the original on 24 September 2015. Retrieved 26 July 2014.
- 311. * "The Global Financial Centres Index 21" (PDF). Long Finance. March 2017. Archived from the original (PDF) on 11 June 2017.
- 312. A "Financial services". Department of Trade and Investment. 2014. Archived from the original on 21 June 2014. Retrieved 26 July 2014.
- 313. * "List of authorised deposit-taking institutions". Australian Prudential Regulation Authority. 2014. Archived from the original on 30 July 2014. Retrieved 26 July 2014.
- 314. ^ **a b c** Fitzgerald, Shirley (2011). "Sydney". Dictionary of Sydney. Archived from the original on 19 October 2014. Retrieved 9 August 2014.
- 315. * "Sydney takes manufacturing capital crown from Melbourne". Sydney Morning Herald. 8 February 2014. Archived from the original on 6 April 2014. Retrieved 4 April 2020.
- 316. ^ **a b** Wade, Matt (2014). "Sydney takes manufacturing capital crown from Melbourne". The Sydney Morning Herald. Archived from the original on 6 April 2014. Retrieved 20 July 2014.
- 317. A Don't forget the Southern Hemisphere's Largest Industrial Zone by Marie Hogg and Simon Benson, The Daily Telegraph, 13 November 2015
- 318. A Ireland, Sophie (5 December 2020). "These Are The World's Most Visited Cities Among International Travelers, 2019". CEO World. Archived from the original on 1 August 2020. Retrieved 1 April 2023.
- 319. ^ **a b** "Travel to Sydney" (PDF). Destination New South Wales. 2014. Archived from the original (PDF) on 14 August 2014. Retrieved 26 July 2014.
- 320. ^ a b c "Tourism". City of Sydney. 2013. Retrieved 21 July 2014.

- 321. A Greenwood, Justine; White, Richard (2011). "Tourism". Dictionary of Sydney. Retrieved 10 August 2014.
- 322. A "For the good of Sydney, back this plan". Sydney Morning Herald.
- 323. * "Barangaroo timeline". Barangaroo Delivery Authority. Archived from the original on 15 December 2013. Retrieved 2 June 2016.
- 324. * "BEA Business Events Australia Newsletter March 2015". Archived from the original on 10 June 2015.
- 325. * Smith, Alexandra (2014). "Sydney named top destination in the world for international students". The Sydney Morning Herald. Retrieved 26 July 2014.
- 326. A "International education". City of Sydney. 2014. Retrieved 23 July 2014.
- 327. ^ Cox, Wendell. Demographia International Housing Affordability 2024 Edition (PDF) (Report).
- 328. A "Sydney median house price hits record". 23 January 2024.
- 329. A Wang, Jessica (12 February 2024). "'Homelessness tsunami': Housing shortage crisis facing Sydney". NCA NewsWire.
- 330. A "The shocking statistic that illustrates Sydney's housing crisis". January 2024.
- 331. * "Archived copy". www.censusdata.abs.gov.au. Archived from the original on 20 June 2016
 . Retrieved 24 September 2022.cite web: CS1 maint: archived copy as title (link)
- 332. A Jupp, James (2008). "Immigration". Dictionary of Sydney. Retrieved 9 August 2014.
- 333. A "Australian historical population statistics, 2006". Australian Bureau of Statistics. 2006. Retrieved 27 July 2014.
- 334. A "Australian historical population statistics, 2008". Australian Bureau of Statistics. 2008. Retrieved 27 July 2014.
- 335. A "Australians to vote with feet for crowded city life, Treasury predicts". ABC News. 20 December 2024. Retrieved 20 December 2024.
- 336. * "Regional population growth, Australia, 2011 to 2012". Australian Bureau of Statistics. 2013. Retrieved 18 October 2014.
- 337. A Hanna, Conal. "The world loves Sydney. Australians aren't that fussed". The Sydney Morning Herald. Retrieved 25 February 2021.
- 338. ^ Statistics, c=AU; o=Commonwealth of Australia; ou=Australian Bureau of (January 1995).
 "Feature Article Ethnic and Cultural Diversity in Australia (Feature Article)".
 www.abs.gov.au.cite web: CS1 maint: multiple names: authors list (link)
- 339. A Indigenous identification is separate to the ancestry question on the Australian Census and persons identifying as Aboriginal or Torres Strait Islander may identify any ancestry.
- 340. ^ **a b** "2021 Greater Sydney, Census All persons QuickStats | Australian Bureau of Statistics". Abs.gov.au. Retrieved 2 July 2022.
- 341. O'Brien, Anne (2013). "Religion". *The Cambridge History of Australia, Volume I.* pp. 419–20
- 342. ^ Carey, Hilary (2008). "Religion". Dictionary of Sydney. Retrieved 9 August 2014.
- 343. * "Tokyo ranks as the world's safest city for the third time". The Independent. 30 August 2019. Archived from the original on 26 May 2022. Retrieved 1 September 2019.
- 344. * "Australia is high on ice, eclipsing 24 other countries". UniSA. 30 June 2022. Retrieved 25 August 2022.
- 345. A O'Farrell, Barry (5 February 2014). "Lockout to commence from 24 February" (Press release). NSW Government. Archived from the original on 15 June 2016.

- 346. * "Bars, clubs celebrate as Sydney's lockout laws get lifted". ABC News. 14 January 2020. Retrieved 6 March 2020.
- 347. * "Aboriginal heritage". Office of Environment and Heritage. Government of New South Wales. Retrieved 7 May 2011.
- 348. A Hema Maps (1997). Discover Australia's National Parks. Milsons Point, New South Wales: Random House Australia. pp. 116–7. ISBN 1-875992-47-2.
- 349. A Basedow, H. 1914. "Aboriginal rock carvings of great antiquity in S.A." *J. R. Anthropol. Inst.*, 44, 195–211.
- 350. * Ellmoos, Laila (2008). "Australian Museum". Dictionary of Sydney. Retrieved 8 August 2014.
- 351. * Ellmoos, Laila; Walden, Inara (2011). "Museum of Sydney". Dictionary of Sydney. Retrieved 9 August 2014.
- 352. * "About the Powerhouse Museum". Powerhouse Museum. 2014. Archived from the original on 3 October 2014. Retrieved 11 October 2014.
- 353. * "Our Museum: history and vision". Australian National Maritime Museum. 2014. Archived from the original on 11 October 2014. Retrieved 11 October 2014.
- 354. * "History of the Library | State Library of New South Wales". State Library of New South Wales. Retrieved 7 February 2011.
- 355. ^ Tyler, Peter (2010). "Royal Society of New South Wales". Dictionary of Sydney. Retrieved 9 August 2014.
- 356. A Ellmoos, Laila (2008). "Sydney Observatory building". Dictionary of Sydney. Retrieved 10 August 2014.
- 357. A Ellmoos, Laila (2008). "Museum of Contemporary Art". Dictionary of Sydney. Retrieved 9 August 2014.
- 358. A "About us". Art Gallery of New South Wales. 2014. Retrieved 11 October 2014.
- 359. ^ NSW Department of Customer Service, Transport for NSW (28 April 2023). "Artspace Sydney | NSW Government". www.nsw.gov.au. Retrieved 14 September 2023.
- 360. ^ McPherson, Ailsa (2008). "Theatre". Dictionary of Sydney. Retrieved 10 August 2014.
- 361. * "History". Sydney Conservatorium of Music. 2014. Retrieved 11 October 2014.
- 362. A Isaacs, Victor (2003). Two hundred years of Sydney newspapers: a short history (PDF). North Richmond: Rural Press. pp. 3–5.
- 363. A "The Dictionary of Sydney". Retrieved 3 March 2018.
- 364. ^ Maunder, Patricia (17 December 2010). "Novelist shone a light on slums". Sydney Morning Herald. Retrieved 6 March 2018.
- 365. ^ Maguire, M., 'Atkinson, (Caroline) Louisa Waring', in R. Aitken and M. Looker (eds), Oxford Companion to Australian Gardens, South Melbourne, Oxford University Press, 2002, p. 35.
- 366. * "Rediscovering Elizabeth Harrower". The New Yorker. 20 October 2014. Retrieved 6 March 2018.
- 367. A Harrower, Elizabeth (23 October 2013). Text Publishing Down in the City. Text Publishing Company. ISBN 9781922147042. Retrieved 22 March 2018.
- 368. * "Review: Down in the City by Elizabeth Harrower". Readings.com.au. 25 October 2013. Retrieved 22 March 2018.
- 369. A "About Us". Sydney Writers' Festival (SWF) Official Site. Retrieved 25 March 2018.

- 370. A Balint, Ruth; Dolgopolov, Greg (2008). "Film". Dictionary of Sydney. Retrieved 9 August 2014.
- 371. A "Australian pride is its 'new wave' of films". The New York Times. 1981. Retrieved 25 March 2018.
- 372. A "History". National Institute of Dramatic Art. 2014. Archived from the original on 17 October 2014. Retrieved 11 October 2014.
- 373. ^ Kaur, Jaskiran (2013). "Where to party in Australia on New Year's Eve". International Business Times. Archived from the original on 8 July 2014. Retrieved 27 July 2014.
- 374. * "About us". Sydney Festival. 2014. Archived from the original on 27 September 2014. Retrieved 11 October 2014.
- 375. ^ The Top Global Fashion Capitals for 2016 The Global Language Monitor, 2016
- 376. A Fitzgerald, Shirley (2008). "Chinatown". Dictionary of Sydney. Retrieved 9 August 2014.
- 377. A "Nightlife Archives". Concrete Playground. Retrieved 28 January 2021.
- 378. A "The best clubs in Sydney". Time Out Sydney. Retrieved 28 January 2021.
- 379. * "Discover the best of Crown Sydney". Crown Sydney. Archived from the original on 25 October 2020. Retrieved 28 January 2021.
- 380. A Lagan, Bernard (2012). "Breaking: news and hearts at the Herald". The Global Mail. Archived from the original on 23 June 2012. Retrieved 27 July 2014.
- 381. A Clancy, Laurie (2004). "The media and cinema". Culture and Customs of Australia: 126.
- 382. A Wotherspoon, Garry (2010). "The Bulletin". Dictionary of Sydney. Retrieved 27 July 2014.
- 383. * Wilmot, Ben (6 March 2017). "Channel 9 to move into North Sydney skyscraper". www.realcommercial.com.au. Retrieved 28 August 2023.
- 384. A "Contact us". Network 10. Retrieved 24 August 2014.
- 385. A "7NEWS Sydney to broadcast from new home after 19 years at Martin Place". 7NEWS. 26 June 2023. Retrieved 28 August 2023.
- 386. ^ Mediaweek (27 June 2023). "In Pictures: 7NEWS Sydney's new newsroom and studios at South Eveleigh". Mediaweek. Retrieved 28 August 2023.
- 387. A "ABC offices". Australian Broadcasting Corporation. 2014. Retrieved 24 August 2014.
- 388. * "Contact". Special Broadcasting Service. 2014. Archived from the original on 18 July 2014. Retrieved 24 August 2014.
- 389. ^ "Contact Foxtel". Foxtel. 2014. Retrieved 24 August 2014.
- 390. ^ **a b** Griffen-Foley, Bridget (2008). "Commercial radio". Dictionary of Sydney. Retrieved 27 July 2014.
- 391. A Bodey, Michael (2010). "Major players maintain leading shares in second radio ratings survey of 2010". The Australian. Retrieved 27 July 2014.
- 392. ^ a b c d e f Cashman, Richard (2008). "Sport". Dictionary of Sydney. Retrieved 27 July 2014.
- 393. A Fenner, Peter (2005). "Surf Life Saving Australia". South Pacific Underwater Medicine Society Journal: 33–43.
- 394. * "Timeline". City2Surf. 2014. Archived from the original on 22 February 2014. Retrieved 27 July 2014.
- 395. ^ de Montfort, Carlin (2010). "Sailing". Dictionary of Sydney. Retrieved 9 August 2014.
- 396. * "Sydney to Hobart Yacht Race". About.com. 2014. Archived from the original on 12 July 2014. Retrieved 27 July 2014.

- 397. * "Tough legacy of a Sydney classic". British Broadcasting Corporation. 2001. Retrieved 27 July 2014.
- 398. A "Sydney to Hobart yacht race". Dictionary of Sydney. 2008. Retrieved 10 August 2014.
- 399. A "Randwick Race Course". Royal Randwick Racecourse. 2014. Retrieved 30 August 2014.
- 400. * "Football Australia celebrates hosting the most successful FIFA Women's World Cup ever". Football Australia. Retrieved 2 June 2024.
- 401. ^ Kingston (2006). pp. 1-2, 27-28
- 402. ^ Kingston (2006). p. 28
- 403. A Hirst, John (2014), pp. 51–54
- 404. * "History of Sydney City Council" (PDF). City of Sydney. Archived from the original (PDF) on 17 June 2021. Retrieved 17 June 2021.
- 405. A Hilary Golder (1995). A Short Electoral History of the Sydney City Council 1842–1992 (PDF). City of Sydney. ISBN 0-909368-93-7. Archived from the original (PDF) on 17 June 2021. Retrieved 17 June 2021.
- 406. * Kelly, A. H. (4–8 July 2011). The Development of Local Government in Australia, Focusing on NSW: From Road Builder to Planning Agency to Servant of the State Government and Developmentalism. World Planning Schools Congress 2011. Perth: University of Wollongong. Archived from the original (Paper) on 11 October 2016. Retrieved 1 January 2017.
- 407. A Fitzgerald, Shirley (2011). "Sydney". The Dictionary of Sydney, State Library of New South Wales. Retrieved 21 January 2023.
- 408. ^ a b Kingston, Beverley (2006). pp. 36, 55-57, 61-62
- 409. * "Three levels of government". Australian Electoral Commission. 2014. Retrieved 27 July 2014.
- 410. A "ABS maps". Australian Bureau of Statistics. Retrieved 21 January 2023.
- 411. * "Official Residences". Governor-General of Australia. Archived from the original on 30 May 2017. Retrieved 1 June 2017.
- 412. * "Governor Lachlan Macquarie". Parliament of New South Wales. 2014. Archived from the original on 12 September 2014. Retrieved 17 August 2014.
- 413. A Ellmoos, Laila (2008). "Parliament House". Dictionary of Sydney. Retrieved 9 August 2014
- 414. * "Behold a palace". Sydney Living Museums. 2014. Archived from the original on 1 July 2014. Retrieved 23 August 2014.
- 415. A "Court locations". Supreme Court of New South Wales. 2014. Archived from the original on 25 November 2014. Retrieved 17 August 2014.
- 416. A "Find a court". New South Wales Courts. 2014. Retrieved 17 August 2014.
- 417. A Golder, Hilary (2004). Sacked: removing and remaking the Sydney City Council.
- 418. A "History of Sydney City Council" (PDF). City of Sydney. 2005. Archived from the original (PDF) on 9 July 2005. Retrieved 13 July 2014.
- 419. A "About Council". City of Sydney. 2014. Retrieved 17 August 2014.
- 420. A "Organisation detail". State Records. 2014. Retrieved 12 October 2014.
- 421. A Davison, Graeme; Hirst, John; Macintyre, Stuart, eds. (1998). The Oxford Companion to Australian History. Oxford University Press. pp. 464–465, 662–663. ISBN 9780195535976.
- 422. ^ Campbell, Craig; Sherington, Geoffrey (2008). "Education". Dictionary of Sydney. Retrieved 9 August 2014.

- 423. A "Educational qualifications". .id. 2014. Archived from the original on 23 December 2014. Retrieved 27 July 2014.
- 424. ^ **a b c** "Education institution attending". .id. 2014. Archived from the original on 26 February 2014. Retrieved 27 July 2014.
- 425. ^ **a b** "UNSW Sydney rockets into the global top 20 in latest QS Rankings". UNSW Sites. Retrieved 14 April 2024.
- 426. * "QS World University Rankings 2021". Top Universities. 5 June 2019. Retrieved 2 January 2020.
- 427. * "School locator". Department of Education and Communities. 2014. Archived from the original on 9 July 2014. Retrieved 27 July 2014.
- 428. * "List of selective and agricultural high schools". Department of Education and Communities. 2014. Archived from the original on 13 June 2014. Retrieved 27 July 2014.
- 429. ^ **a b c d** Godden, Judith (2008). "Hospitals". Dictionary of Sydney. Retrieved 9 August 2014.
- 430. A Judith Godden, Lucy Osburn, A Lady Displaced, Sydney: Sydney University Press, 2006
- 431. * "Local health districts". Government of New South Wales. 2014. Retrieved 23 August 2014.
- 432. A "Prince of Wales Hospital". South Eastern Sydney Local Health District. 2014. Archived from the original on 19 October 2014. Retrieved 23 August 2014.
- 433. A "Our history". The Children's Hospital at Westmead. 2014. Archived from the original on 21 June 2014. Retrieved 23 August 2014.
- 434. A "Prince Henry Hospital". South Eastern Sydney Local Health District. 2014. Archived from the original on 19 October 2014. Retrieved 23 August 2014.
- 435. A "Royal Prince Alfred Hospital". Sydney Local Health District. 2014. Archived from the original on 18 December 2014. Retrieved 23 August 2014.
- 436. A "About us". Northern Sydney Local Health District. 2014. Retrieved 23 August 2014.
- 437. * "About us". South Eastern Sydney Local Health District. 2014. Archived from the original on 16 August 2014. Retrieved 23 August 2014.
- 438. * "About Nepean Hospital". Nepean Blue Mountains Local Health District. 2014. Retrieved 23 August 2014.
- 439. A "Our history". Western Sydney Local Health District. 2014. Retrieved 23 August 2014.
- 440. ^ a b c d e f Wotherspoon, Garry (2008). "Transport". Dictionary of Sydney. Retrieved 10 August 2014.
- 441. *A "Australian Social Trends, July 2013". Australian Bureau of Statistics. 5 March 2014. Retrieved 21 August 2016.
- 442. * Wade, Matt (4 April 2015). "Sydney is Australia's most valuable location, but public transport is its weakness". The Sydney Morning Herald. Retrieved 21 August 2016.
- 443. * "Sydney not yet a true global city". The Sydney Morning Herald. 14 April 2014. Retrieved 21 August 2016.
- 444. * "Fact Sheet Light Horse Interchange" (PDF). Westlink Motorway Limited. May 2006. Archived from the original (PDF) on 3 March 2016. Retrieved 3 September 2019.
- 445. A "Australian social trends". Australian Bureau of Statistics. 2008. Retrieved 10 August 2014
- 446. * "Method of travel to work". .id. 2014. Archived from the original on 23 December 2014. Retrieved 27 July 2014.

- 447. * "Policy for the management of laneways in Central Sydney/ Sydney City Council". City of Sydney. 1 January 1993. Retrieved 18 November 2022.
- 448. **^ "Central Station"**. Sydney Trains. 2014. Archived from the original on 25 June 2014. Retrieved 10 August 2014.
- 449. * "Sydney Trains Annual Report" (PDF). Transport for NSW. 19 December 2024. Retrieved 19 December 2024.cite web: CS1 maint: date and year (link)
- 450. A "Transport minister Andrew Constance says new Sydney Metro train line a 'massive city shaping project'". The Sydney Morning Herald. 16 June 2015. Retrieved 20 June 2015.
- 451. * "New metro train stations in Sydney could be built in Crows Nest or St Leonards and Artarmon by 2024". The Daily Telegraph. 11 June 2015. Archived from the original on 21 September 2015. Retrieved 20 June 2015.
- 452. * "Shooting Through: Sydney by Tram". Sydney Living Museums. 12 May 2014. Retrieved 31 May 2019.
- 453. A Wotherspoon, Garry (2008). "Buses". Dictionary of Sydney. Retrieved 8 August 2014.
- 454. * "Light Rail Patronage Monthly Comparison". Transport for NSW. 8 June 2017. Retrieved 25 August 2017.
- 455. * "CBD and South East Light Rail contract awarded with earlier delivery date". Sydney Light Rail. Transport for NSW. Archived from the original on 13 May 2015.
- 456. A Transport for NSW (2014). TfNSW 2013–2014 Annual Report (PDF) (Report). pp. 35, 36. Archived from the original (PDF) on 29 May 2015. Retrieved 29 April 2015.
- 457. ^ a b "Sydney Ferries". Transport for New South Wales. 2014. Retrieved 10 August 2014.
- 458. * "Welcome to WSI Sydney's new airport | Western Sydney International Airport". wsiairport.com.au. Retrieved 29 January 2025.
- 459. A Cox, Lisa; Massola, James (2014). "Tony Abbott confirms Badgerys Creek as site of second Sydney airport". The Age. Retrieved 24 August 2014.
- 460. * "Movements at Australian Airports" (PDF). Airservices Australia. 17 February 2012. Archived from the original (PDF) on 30 May 2012. Retrieved 6 November 2016.
- 461. ^ a b c d e North, MacLaren (2011). "Water". Dictionary of Sydney. Retrieved 10 August 2014.
- 462. * "Sydney Water timeline". Sydney Water. 2014. Archived from the original on 30 June 2014. Retrieved 10 August 2014.
- 463. A "Sydney's Largest Water Supply Dam". Water NSW. Retrieved 15 February 2016.
- 464. ^ **a b** "Dams and reservoirs". Sydney Catchment Authority. 2014. Archived from the original on 26 September 2014. Retrieved 10 August 2014.
- 465. A "About Ausgrid". Ausgrid. 2014. Archived from the original on 19 October 2014. Retrieved 12 October 2014.
- 466. * "About us". Endeavour Energy. 2014. Archived from the original on 13 October 2014. Retrieved 12 October 2014.
- 467. A "FAQ". www.southerncrosscables.com. Retrieved 30 July 2023.
- 468. A "Cable System Facts". Australia-Japan Cable. Retrieved 30 July 2023.
- 469. * "Telstra hits 100G on key Asia-Pac submarine cables". Telstra. Archived from the original on 21 July 2023. Retrieved 21 July 2023.
- 470. ^ "Look who's polluting: Sydney Water's shame". 23 October 2011. Retrieved 3 February 2015.

- 471. A "Air Pollution in Sydney: An Update Briefing Paper" (PDF). August 1998. Archived from the original (PDF) on 23 June 2014. Retrieved 3 February 2015.
- 472. A "Sydney smoke haze reaches 11 times the hazardous level". 10 December 2019. Retrieved 1 January 2020.
- 473. A Hromas, Jessica (10 December 2019). "Sydney smoke: bushfires haze smothers landmarks in pictures". The Guardian. Retrieved 1 January 2020.
- 474. * "Bushfire smoke makes Sydney air quality worse than Delhi". 3 December 2019. Retrieved 1 January 2020.
- 475. * "Sydney fire haze equal to 'smoking 32 cigarettes". News. 22 November 2019. Retrieved 1 January 2020.
- 476. * "Lessons learnt (and perhaps forgotten) from Australia's 'worst fires'". The Sydney Morning Herald. 11 January 2019.
- 477. * "Ring of fire: Australian state declares emergency as wildfires approach Sydney". Reuters. 19 December 2019.
- 478. A "Ring of fire: Australian state declares emergency as wildfires approach Sydney". WION. 19 December 2019.
- 479. A "Ring of fire surrounds Sydney". Sydney Morning Herald. 21 December 2019.
- 480. ^ "Teenagers arrested as ring of fire surrounds Sydney". Irish Times. 28 December 2001.
- 481. * "Blade Runner 2019: Smoke from terrifying 'ring of fire' turns Sydney's skies apocalypse red". Mashable. 9 December 2019.
- 482. A "Sydney Water to become carbon neutral". The Age. 19 July 2007. Retrieved 3 February 2015.
- 483. * "Sydney Becomes Australia's First Carbon-Neutral Government Body". treehugger.com. 5 September 2008. Retrieved 3 February 2015.
- 484. ^ **a b c** "Achievements: City of Sydney". cityofsydney.nsw.gov.au. Retrieved 3 February 2015.
- 485. * "It's official, Sydney is first carbon neutral council" (Press release). City of Sydney. 9
 November 2011. Archived from the original on 3 February 2015. Retrieved 3 February 2015.
- 486. * "Building owners applaud city's ambitious master plan". climatecontrolnews.com.au. 25 February 2015. Retrieved 18 March 2015.
- 487. * "Sydney businesses cotton on: climate change action is good for the bottom line". The Guardian (UK). 18 March 2015. Retrieved 19 March 2015.
- 488. * "City of Sydney extends solar roll out to historic Rocks". RenewEconomy.com. 16 June 2014. Retrieved 3 February 2015.
- 489. A "Urban Forest Strategy" (PDF). February 2013. Retrieved 6 May 2015.
- 490. * "Greenest' Sydney building using rainforest timber". Sydney Morning Herald. 27 July 2011. Retrieved 3 February 2015.
- 491. * "One Central Park Gardens". Frasers Property. Archived from the original on 23 September 2013. Retrieved 3 February 2015.
- 492. * "Central Park Sydney Architecture". Frasers Property. Archived from the original on 5 October 2013. Retrieved 3 February 2015.
- 493. A Gliddon, Josh (28 November 2013). "Sydney Central Park project shows sustainable living". Financial Review. Retrieved 3 February 2015.
- 494. A "Car dependence in Australian cities: a discussion of causes, environmental impact and possible solutions" (PDF). Flinders University study. Archived from the original (PDF) on 1

- March 2011. Retrieved 3 February 2015.
- 495. A Charting Transport, retrieved 27 October 2017
- 496. * "Sydney not yet a true global city". The Sydney Morning Herald. 12 April 2014. Retrieved 3 February 2015.
- 497. * "CBDs turning into no-car zones as the great divide grows". The Australian. 11 October 2015. Retrieved 3 February 2015.
- 498. * "Buses and the Environment". statetransit.info. Archived from the original on 3 February 2015. Retrieved 3 February 2015.
- 499. * "City clears the way on pollution-free car fleet" (Press release). City of Sydney. 15 February 2013. Archived from the original on 4 May 2013. Retrieved 3 February 2015.
- 500. A "Causes of Climate Change". epa.gov. 12 August 2013. Retrieved 10 February 2015.
- 501. * IPCC (2021). "Global carbon and other biogeochemical cycles and feedbacks" (PDF). Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change. Cambridge, United Kingdom and New York, NY, US: Cambridge University Press.

External links

[edit]

- Official Sydney, NSW government site
- Official Sydney tourism site
- Historical film clips of Sydney on the National Film and Sound Archive of Australia's australianscreen online
- Qantas Farewell Flight B747-400 Queen of the Skies Sydney Final Flight QF747 on YouTube – includes a low-level joyflight around Sydney showing various aspects of the city on 13 July 2020 (starts at 05:20)
- Geographic data related to Sydney at OpenStreetMap
- Dictionary of Sydney the history of Sydney (Archived 24 March 2019 at the Wayback Machine)
- Sydney Official History Archives
- State Records New South Wales
- National Archives of Australia
- Understanding Society Through its Records John Curtin Library
- Directory of Archives in Australia
- 0 **V**
- o t
- o **e**

Sydney

- Outline
- History
 - Timeline
- Geography
- Climate
 - Severe weather
- Demographics
- Ecology
- Economy
- Transportation
- Culture
- Architecture
 - Skyscrapers
- Tourism
- Education
- Sports
- o magcattegoryype unknown
- o magnetification type unknown

Links to related articles

- 0 **V**
- 0 t
- 0 0

Regions of Sydney, New South Wales, Australia

- o Canterbury-Bankstown
- Central Business District
- Eastern Suburbs
- Forest District
- Greater Western Sydney
- Hills District
- Inner West
- Macarthur
- Northern Beaches
- Northern Suburbs
- North Shore
- Southern Sydney
- South Western Sydney
- St George

Local government areas of Sydney

- o Bayside
- o Blacktown
- o Burwood
- Camden
- o Canterbury Bankstown
- Canada Bay
- Cumberland
- Fairfield
- o Georges River
- Hawkesbury
- o The Hills
- Hornsby
- o Hunter's Hill
- Inner West
- o Ku-ring-gai
- Lane Cove
- Liverpool
- Mosman
- North Sydney
- Northern Beaches
- Parramatta
- Penrith
- Randwick
- Ryde
- Strathfield
- Sutherland
- City of Sydney
- Waverley
- Willoughby
- o Woollahra

List of Sydney suburbs

0 **V**

ot

0 0

Sydney landmarks

- Admiralty House
- Archibald Fountain
- Australia Square
- Bankstown Reservoir
- Boothtown Aqueduct
- Cadmans Cottage
- Campbell's Stores
- The Cenotaph
- Central station
- Chifley Tower
- Citigroup Centre
- International Convention Centre
- Deutsche Bank Place
- Dr Chau Chak Wing Building
- El Alamein Fountain
- Finger Wharf
- General Post Office (No. 1 Martin Place)
- Government House
- Governor Phillip Tower
- Hong Kong House
- Hyde Park Barracks
- King Street Wharf
- Kirribilli House
- Long Bay
- Macquarie Lighthouse
- Mint
- Observatory
- Old Government House
- Old Mining Museum Building
- Opera House
- Overseas Passenger Terminal
- Parliament House
- Parramatta Gaol
- Regimental Square
- The Ribbon
 - IMAX Sydney
- Queen Victoria Building
- St Andrew's Cathedral
- St Mary's Cathedral
- Sydney Airport
- Sydney Tower
- The Toaster
- Town Hall
- War Memorial
- Warragamba Dam
- White Bay Cruise Terminal
- World Square
- World Tower



- Anzac
- Captain Cook
- Gladesville
- o Glebe Island (disused)
- Bridges Harbour
 - Pyrmont
 - o Roseville
 - Spit
 - Tom Uglys
 - Central Business District
 - Chatswood
 - Chinatown
- Major centres and localities

 Kings Cross
 - North Sydney
 - Parramatta
 - Pitt Street Mall
 - The Rocks
 - Barangaroo
 - Bays Precinct
 - Central Park
 - Darling Harbour
 - Green Square
 - Sydney Olympic Park
 - Waterloo

Urban renewal projects

- Auburn Botanic Gardens
- Balaka Falls
- Balls Head Reserve
- Bents Basin
- Berowra Valley National Park
- Bicentennial Park
- Bland Oak
- Blue Mountains National Park
- Centennial Parklands
- Central Gardens Nature Reserve
- Chinese Garden of Friendship
- Cronulla sand dunes
- Cumberland State Forest
- Farm Cove
- Featherdale Wildlife Park
- Garigal National Park
- Garawarra Conservation Area
- Georges River National Park
- Heathcote National Park
- Hvde Park
- Kamay Botany Bay National Park
- Ku-ring-gai Chase
- Lane Cove National Park
- Macquarie Place
- Paddington Reservoir
- Parramatta Park
- Prospect dolerite intrusion
- Prospect Hill
- Prospect Nature Reserve
- Royal Botanic Garden
- Royal National Park
- Sydney Harbour National Park
- Sydney Park
- The Domain
- Western Sydney Parklands
 - Western Sydney Regional Park

Parks and nature

- Art Gallery of New South Wales
- Australian Museum
- Australian National Maritime Museum
- Chau Chak Wing Museum
- Harry's Cafe de Wheels
- Manly Art Gallery and Museum
- Museum of Contemporary Art
- Museum of Sydney
- Justice and Police Museum
- Powerhouse Museum
- Sea Life Sydney Aquarium
- State Library
- Sydney Conservatorium of Music
- Sydney Zoo
- Taronga Zoo
- Australian Golf Club
- Canterbury Park Racecourse
- Dunc Gray Velodrome
- Lakes Golf Club
- Macquarie Ice Rink
- Randwick Racecourse
- Rosehill Gardens Racecourse
- Royal Sydney Golf Club
- Stadium Australia
- State Sports Centre
- Sydney Cricket Ground
- Sydney Football Stadium
- Sydney International Regatta Centre
- Sydney Motorsport Park
- Sydney Olympic Park
 - Athletic Centre
 - Aquatic Centre
 - Hockey Centre
 - Tennis Centre
 - Sydney Showground Stadium
- Warwick Farm Racecourse
- Wentworth Park
- Western Sydney International Dragway
- Western Sydney Stadium

Sport

Cultural institutions

Entertainment	 Capitol Theatre Crown Sydney Disney Studios Australia Entertainment Quarter Luna Park Lyric Theatre Plaza Theatre Raging Waters Roslyn Packer Theatre The Star State Theatre Sydney SuperDome Theatre Royal
Beaches	BondiCronullaManlyPalm
Islands	 Bare Clark Cockatoo Fort Denison Garden Goat Rodd Shark Snapper

Spectacle

0 **V**

0 **t**

0 0

Theatre in Sydney

Central Sydney	 Belvoir Street Theatre Belvoir Capitol Theatre Genesian Theatre Roslyn Packer Theatre Seymour Centre State Theatre Sydney Lyric Foundry Theatre Sydney Opera House Theatre Royal Wharf Theatre
Inner West	CarriageworksNew TheatrePACT Theatre
Western Suburbs	 Riverside Theatres Parramatta Sydney Coliseum Theatre
North Shore	 Ensemble Theatre Independent Theatre Marian Street Theatre The Concourse, Chatswood
Northern Beaches	 Glen Street Theatre
Eastern Suburbs	Darlinghurst TheatreHayes TheatreOld Fitz Theatre

Parade Theatre

Stables Theatre (Griffin Theatre Company)

Criterion Theatre Garrick Theatre o Her Majesty's Theatre Minerva Theatre Palace Theatre Former theatres Paris Theatre Phillip Street Theatre Plaza Theatre Regent Theatre Tivoli Theatre 0 **V** o t 0 0 Sports teams based in Sydney Sydney Swans AFL Greater Western Sydney Giants Australian rules football Sydney Swans **AFLW** Greater Western Sydney Giants

	Sheffield Shield Matador BBQs One Day Cup		 New South Wales Blues
	WNCL		New South Wales Breakers
Cricket	Cricket Big Bash League Women's Big Bash League		Sydney SixersSydney Thunder
			Sydney SixersSydney Thunder
	AHL	New South W	ales Waratahs
Field hockey	WAHL • New South Wales Arrows		
	Hockey One	NSW Pride	
Futsal (F-League)	 Dural Warriors East Coast Heat F.C. Sydney Scorpions 		
Handball	 Sydney University Handball Club 		
Ice hockey	Sydney BearsSydney Ice Dogs		
	AWIL • Syd	dney Sirens	

Netball ANL	SSN	 Giants Netball NSW Swifts	
	ANL	 Giants Netball Academy NNSW Waratahs	
Rugby league	NRLW	 Canterbury-Bankstown Bulldogs Cronulla-Sutherland Sharks Manly Warringah Sea Eagles Parramatta Eels Penrith Panthers St. George Illawarra Dragons South Sydney Rabbitohs Sydney Roosters Wests Tigers Canterbury-Bankstown Bulldogs Cronulla-Sutherland Sharks Parramatta Eels St. George Illawarra Dragons Sydney Roosters Wests Tigers 	
Rugby union	Super F Supe NR	r W • New South Wales Waratahs	

Soccer	A-League Men	 Macarthur FC Sydney FC Western Sydney Wanderers
	A-League Women	Sydney FCWestern Sydney Wanderers

Water polo (ANWPL)

- Balmain Water Polo Club
- o Cronulla Sharks Water Polo Club
- Drummoyne Devils
- Sydney Uni Water Polo Club
- UNSW Wests Magpies

0 **V**

0 **t**

0 0

New South Wales

- Economy
- Energy
- Flag
- Geography
- Geology
- Government
- History
- Local Government
- Parliament
- Police

General

- Politics
- o People
- Rail transport
- Regions
- Sport
 - Australian rules football
 - Cricket
 - Rugby league
 - Rugby union
 - Soccer
- Symbols

New South Wales

Image not found or type unknown

- Canterbury-Bankstown
- Central Business District
- Eastern Suburbs
- Forest District
- Greater Western Sydney
- Hills District

Sydney

- Inner West
- Macarthur
- Northern Beaches
- Northern Sydney
- North Shore
- Southern Sydney
- South Western Sydney
- St George

Regions

- Central Coast
- Central Tablelands
- Central West
- Far West
- Greater Blue Mountains
- Hunter
- o Illawarra
- Mid North Coast
- Monaro

Rest of state

- Rest of New England
 - North West Slopes
 - Northern Rivers
 - Northern Tablelands
 - o Orana
 - o Riverina
 - South Coast
 - South Western Slopes
 - Southern Highlands
 - Southern Tablelands
 - Upper Hunter

- Sydney
- Albury
- Armidale
- Bathurst
- Blue Mountains
- o Broken Hill
- Cessnock
- Coffs Harbour
- Dubbo
- Gosford
- Goulburn
- Grafton
- Griffith

Cities

- Hawkesbury
- Lake Macquarie
- Lismore
- Lithgow
- Maitland
- Newcastle
- Orange
- Queanbeyan
- Shellharbour
- Shoalhaven
- Tamworth
- Taree
- Wagga Wagga
- Wollongong

magNevio@outheWatesnportal

- 0 **V**
- 0 t
- 0 0

Capital cities of Australia

National and ACT NSW NT Canberra Sydney Darwin

List of cities in Australia

Cities of Australia

Australian Capital Territory Canberra (national capital)

- Albury
- Armidale
- Bathurst
- o Broken Hill
- Cessnock
- Coffs Harbour
- Dubbo
- Gosford
- Goulburn
- Grafton
- Griffith

New South Wales

- Lake Macquarie
- Lismore
- Lithgow
- Maitland
- Newcastle
- Orange
- Port Macquarie
- Queanbeyan
- Sydney
- Tamworth
- Wagga Wagga
- Wollongong

Northern Territory

- Darwin
- Palmerston

Queensland	 Brisbane Bundaberg Cairns Caloundra Gladstone Gold Coast Gympie Hervey Bay Ipswich Mackay Maryborough Mount Isa Rockhampton Sunshine Coast Toowoomba Townsville
South Australia	 Adelaide Mount Gambier Murray Bridge Port Augusta Port Lincoln Port Pirie Victor Harbor Whyalla
Tasmania	BurnieDevonportHobartLaunceston

- Ararat
- Bairnsdale
- Ballarat
- o Benalla
- o Bendigo
- Castlemaine
- Colac
- Geelong
- Hamilton
- Horsham
- Melbourne
- Mildura
- Victoria

Western Australia

- Moe
- Morwell
- o Portland
- Sale
- Seymour
- Shepparton
- Stawell
- Swan Hill
- o Traralgon
- Wangaratta
- Warragul
- Warrnambool
- Wodonga
- Albany
- Bunbury
- Busselton
- Geraldton
- Kalgoorlie-Boulder
- Mandurah
- Perth

0 **V**

o **t**

o **e**

Summer Olympic Games host cities

```
1896: @reset by the unknown
o 1900: Pregence of type unknown
o 1904: magazi fendine type unknown
o 1908: marie or metal of the comment of the commen
o 1912: Specific of the unknown

    1916: None<sup>[C1]</sup>

o 1920: Belgheithwerp type unknown
o 1924: Frege Rapips nd or type unknown
o 1928: Nethannated are unknown
o 1932: magalagis gunda de sinknown
o 1936: இசுதூர்றிd or type unknown

    1940: None<sup>[C2]</sup>

    1944: None<sup>[C2]</sup>

o 1948: magalaphidomidypa unknown
o 1952: Pasterinkir type unknown
o 1956: Image Managed provide unknown
o 1960: Italy Romed or type unknown
o 1964: Itapanotky od or type unknown
o 1968: Westingo City unknown
o 1972: Weshing unknown
o 1976: maga phototre type unknown
o 1980: gaga papaga type unknown
o 1984: mageleos Angeles inknown
o 1988: South to the type unknown
o 1992: Spelle feetonge unknown
o 1996: maga phách type unknown
o 2000: Image Sympletor type unknown
o 2004: @reachensor type unknown
o 2008: This in my or type unknown
o 2012: magalagine phi type unknown
o 2016: Brancho de dane ironown
o 2020: Uapanokyo [GA]pe unknown
o 2024: Frege Rapips nd or type unknown
o 2028: Image say partes inknown
o 2032: Image Brishametype unknown
```

[c1] Cancelled due to World War I; [c2] Cancelled due to World War II; [c3] Postponed to 2021 due to the COVID-19 pandemic

- 0 **V**
- o t
- 0 0

- 1972: Weddender with a management of type unknown
 1976: முத்த ந்து ந்து முற்றார் type unknown
 1976: முத்த ந்து ந்து முற்றார் type unknown
- o **V**
- o **t**
- 0 @

Commonwealth Games host cities

2000: 内理等效的理學

2004: 過季色地質中内型

2008: @納姆達斯斯

o 2012: magaleomicipa

Portals:

- o magnewusoutheWates
- o Image Anote tredien type unknown

Sydney at Wikipedia's sister projects:

- Definitions from Wiktionary
- o Media from Commons
- o Mews from Wikinews
- Day not found or type wiknown Wikiquote
- Texts from Wikisource
- o Textbooks from Wikibooks
- Resources from Wikiversity
- Travel guides from Wikivoyage
- Data from Wikidata

Authority control databases wage not found or type unknown

International

- o VIAF
- FAST
- WorldCat
- Germany
- United States
- France
- BnF data
- Japan
- **National**
- Czech Republic
- Spain
- Croatia
- Sweden
- Israel
- Catalonia

Geographic

MusicBrainz area

Other

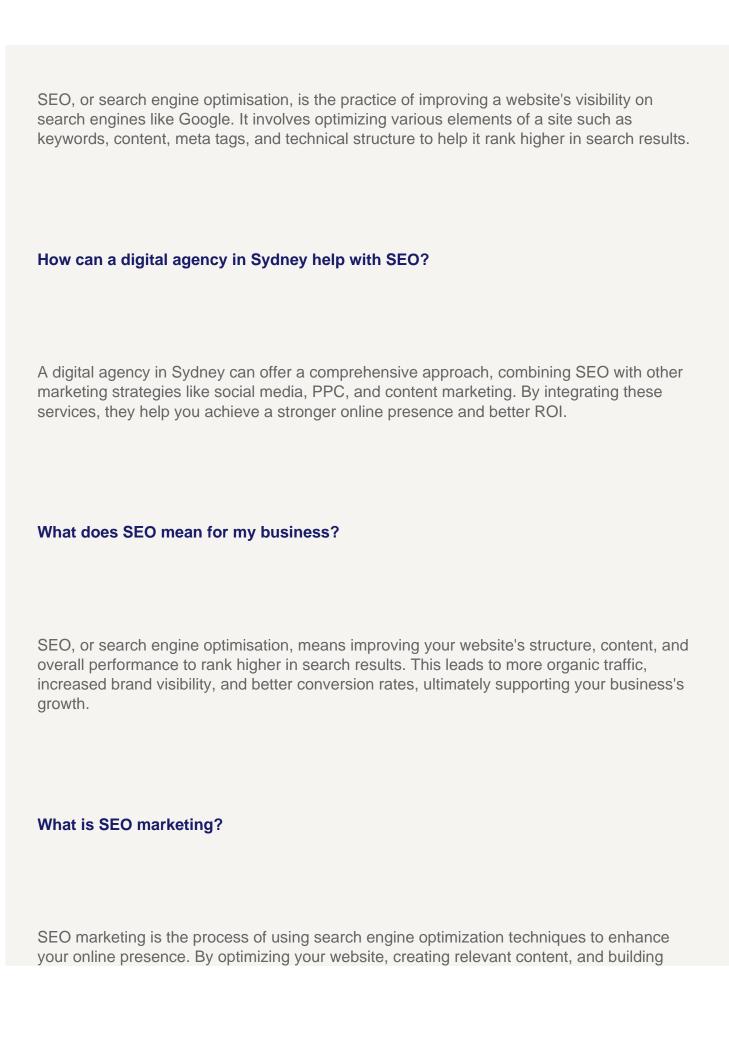
- o IdRef
- NARA

Check our other pages:

- SEO services company Sydney
- SEO agency in Sydney
- SEO agencies in Sydney
- digital agency Sydney
- SEO experts Sydney
- SEO company in Sydney

Frequently Asked Questions

What is SEO?



authority, you attract organic traffic from search engines, increase brand awareness, and drive conversions.

SEO expert

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/

USEFUL LINKS

SEO Website

SEO Services Sydney

Local SEO Sydney

SEO Ranking

SEO optimisation

LATEST BLOGPOSTS

SEO community

SEO Buzz

WordPress SEO

SEO Audit

Sitemap

Privacy Policy

About Us

SEO Castle Hill | SEO Fairfield | SEO Hornsby | SEO Liverpool | SEO North Sydney | SEO Norwest | SEO Parramatta | SEO Penrith | SEO Strathfield | SEO Wetherill Park

Follow us