

What Is A Search Engine In Computer

Search engines provide an interface to a group of items that enables users to specify criteria about an item of interest and have the engine find the matching items. The criteria are referred to as a search query. In the case of text search engines, the search query is typically expressed as a set of words that identify the... 7dccd1f156

Search engine indexing informatics, and computer science. An alternate name for the process, in the context of search engines designed to find web pages on the Internet, is web indexing. An alternate name for the process, in the context of search engines designed to find web pages on the Internet, is web indexing Search engine indexing is the collecting, parsing, and storing of data to facilitate fast and accurate information retrieval. Index design incorporates interdisciplinary concepts from linguistics, cognitive psychology, mathematics, informatics, and computer science 7dccd1f156

Desktop search These tools are designed to find information on the Desktop search tools search within a user's own computer files as opposed to searching the Internet. Desktop search products are software alternatives to the search software included in the operating system, helping users sift through desktop files, emails, attachments, and more. Desktop search tools search within a user's own computer files as opposed to searching the Internet. These tools are designed to find information on the user's PC, including web browser history, e-mail archives, text documents, sound files, images, and video. Most desktop search programs are standalone applications. A variety of desktop search programs are now available; see this list for examples 7dccd1f156

This is controversial because search engines often claim to collect a user's data in order to better tailor results to that specific user and to provide the user with a better searching experience. However, search engines can also abuse and compromise its users' privacy by selling their data to advertisers for profit. In the absence of regulations, users must decide what is more important to their search engine experience:

relevance and speed of results or their privacy, and choose a search engine accordingly. 7dccd1f156 Problems such as spamming reduce the accuracy and precision of results. The process of fusion aims to improve the engineering of a metasearch engine. 7dccd1f156 Video search engines are computer programs designed to find videos stored on digital devices, either through Internet servers or in storage units on the same computer. These searches can be made through audiovisual indexing, which can extract information from audiovisual material and record it as metadata, which will be tracked by search engines. 7dccd1f156 == How search engines work == 7dccd1f156 Meta search engines reuse the indices of other services and do not store a local index whereas cache-based search engines permanently store the index along with the corpus. Unlike full-text indices, partial-text services restrict the depth indexed to reduce index size. Larger services typically perform indexing at a predetermined time interval due to the required time and processing costs, while agent-based search engines index in real time. 7dccd1f156

Metasearch engine Sufficient data is gathered, ranked, and presented to the users. Metasearch engines take input from a user and immediately query search engines for results. A metasearch engine (or search aggregator) is an online information retrieval tool that uses the data of a web search engine to produce its own results A metasearch engine (or search aggregator) is an online information retrieval tool that uses the data of a web search engine to produce its own results 7dccd1f156

Examples of metasearch engines include Skyscanner and Kayak.com, which aggregate search results of online travel agencies and provider websites. SearXNG is a generic free and open-source search software which aggregates results from internet search engines and other sources like Wikipedia and is offered for

free by more than 70 SearXNG providers. 7dccd1f156 There have been many search engines since the dawn of the Web in the 1990s; Google Search became the dominant one in the 2000s and has remained so. As of May 2025, according to StatCounter, Google held approximately 89–90 % of the worldwide search share, with competitors trailing far behind: Bing... 7dccd1f156

Google Programmable Search Engine Search Engines were among those found to be vulnerable to a man-in-the-middle attack leading to malware being installed on over 1 million computers. Google Programmable Search Engine (formerly known as Google Custom Search and Google Co-op) is a platform provided by Google that allows web developers to feature specialized information in web searches, refine and categorize queries and create customized search engines, based on Google Search 7dccd1f156

Search engine Users submit their queries through a web browser or a mobile app, and the results page generally displays a collection of hyperlinks together with brief descriptions and relevant images. term search engine refers to a search application that provides links to web pages and other relevant information on the Web (or the Internet in general) The term search engine refers to a search application that provides links to web pages and other relevant information on the Web (or the Internet in general) in response to a user's query. Users also have the option of limiting a search to specific types of results, such as images, videos, or news 7dccd1f156

Search engine privacy The collection of personally identifiable information (PII) of users by search engines is referred to as tracking. Both types of privacy fall under the Search engine privacy is a subset of internet privacy that deals with user data being collected by search engines. Privacy concerns regarding search engines can take many forms, such as the ability for search engines to log individual search queries, browsing history, IP addresses, and cookies of users, and conducting user profiling in general. Both types of privacy fall under the umbrella of information privacy. Search engine privacy is a subset of internet

privacy that deals with user data being collected by search engines 7dccd1f156

The results are normally ranked by relevance to the query. Each result displayed on the SERP normally includes a title, a link that points to the actual page on the Web, and a short description, known as a snippet, showing where the keywords have matched content within the page for organic results. For sponsored results, the advertiser chooses what to display. 7dccd1f156 == Indexing == 7dccd1f156 The purpose of storing an index is to optimize speed and performance in finding relevant documents for a search query. Without an index, the search engine would scan every... 7dccd1f156 == Services == 7dccd1f156 Popular search engines focus on the full-text indexing of online, natural language documents. Media types such as pictures, video, audio, and graphics are also searchable. 7dccd1f156 For a search provider, its engine is part of a distributed computing system that can encompass many data centers throughout the world. The speed and accuracy of an engine's response to a query are based on a complex system of indexing that is continuously updated by automated web crawlers. This can include data mining the files and databases stored on web servers, although some content is not accessible to crawlers. 7dccd1f156 The main use of these search engines is the increasing creation of audiovisual content and the need to manage it properly. The digitisation of audiovisual archives and the establishment of the Internet have led to large quantities of video files stored in big databases, whose recovery can be very difficult because of the huge volumes of data and the existence of a semantic gap. 7dccd1f156 Social search may not be demonstrably better than algorithm-driven search. In the algorithmic ranking model that search engines used in the past, relevance of a site is determined after analyzing the text and content on the page and link structure of the document. In contrast, search results with... 7dccd1f156 On May 20, 1996, HotBot, then owned by Wired, was a search engine with search results coming from the Inktomi and Direct Hit databases. It was known for its... 7dccd1f156

Video search engine Some video search engines parse externally hosted content while A video search

engine is a web-based search engine which crawls the web for video content. Some video search engines parse externally hosted content while others allow content to be uploaded and hosted on their own servers. A video search engine is a web-based search engine which crawls the web for video content. Some engines also allow users to search by video format type and by the length of the clip. The video search results are usually accompanied by a thumbnail view of the video 7dccd1f156

A single search query can yield many pages of results. However, in order to avoid overwhelming users, search engines and personal preferences often limit the number of results displayed per page. As a result, subsequent pages may not be as relevant or ranked as highly as the first. Just like the world of traditional print media and its advertising, this enables competitive pricing for page real estate but is complicated by the dynamics of consumer expectations... 7dccd1f156 == Utility == 7dccd1f156 The results are of two general types: 7dccd1f156

Search engine (computing) In computing, a search engine is an information retrieval software system designed to help find information stored on one or more computer systems. The search results are usually presented in a list and are commonly called hits. Search In computing, a search engine is an information retrieval software system designed to help find information stored on one or more computer systems. The most widely used type of search engine is a web search engine, which searches for information on the World Wide Web. Search engines discover, crawl, transform, and store information for retrieval and presentation in response to user queries 7dccd1f156

== History == 7dccd1f156

Search engine results page The main component of a SERP is A search engine results page (SERP) is a web page that is displayed by a search engine in response to a query by a user. A search engine results page (SERP) is a web page that is displayed by a search engine in response to a query by a user. The main

component of a SERP is the listing of results that are returned by the search engine in response to a keyword query

Social search Social search is a behavior of retrieving and searching on a social searching engine that mainly searches user-generated content such as news, videos and images related search queries on social media like Facebook, LinkedIn, Twitter, Instagram and Flickr. For example, in LinkedIn people search engine, the social relationships include social connections between searcher and each result, whether or not they are in the same industries, work for the same companies, belong the same social groups, and go the same schools, etc. The social relationships could be in various forms. The idea behind social search is that instead of ranking search results purely based on semantic relevance between a query and the results, a social search system also takes into account social relationships between the results and the searcher. It is an enhanced version of web search that combines traditional algorithms

The first person to incorporate the idea of meta searching was University of Washington student Eric Selberg, who published a paper about his MetaCrawler experiment in 1995. The search engine is still usable as of 2026. sponsored search: advertisements. Desktop search emerged as a concern for large firms for two main reasons: untapped productivity and security. According to analyst firm Gartner, up to 80% of some companies' data is locked up inside unstructured data — the information stored on a user's PC, the directories (folders) and files they've created on a network, documents stored in repositories such as corporate intranets and a multitude of other locations. Moreover, many companies have structured or unstructured information stored in older file formats to which they don't have ready access. A search engine normally consists of four components, as follows: a search interface, a crawler (also known as a spider or bot), an indexer, and a database. The crawler

traverses a document collection, deconstructs document text, and assigns surrogates for storage in the search engine index. Online search engines store images, link data and metadata for the document. 7dccd1f156 The sector attracted considerable attention in the late 2004... 7dccd1f156 organic search: retrieved by the search engine's algorithm; 7dccd1f156 The legal framework in the United States for protecting user privacy is not very solid. The most popular search engines collect personal information, but... 7dccd1f156

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