

U S T C

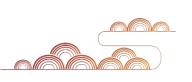
Study abroad in China

子 在 中 国





信息检索



H R H A E P R P R N

G

E



INFORMATION
RETRIEVAL IN
SHOPPING



SECTION O



The consumer online shopping activities

problem solving process or information processing of purchasing decision

Three Stages

- 1. demand determination
- 2. pre-purchase information search
- 3. evaluation of alternative goods





The consumer online shopping activities



I. browse and search

II. provide necessary information

III. implement decisions and purchases



The activities of consumer in network information space

The consumers' cognition and task activities in the network information space can be divided into the following three ways:







01

Browse:

Informal and opportunistic with no specific purpose low efficiency in completing tasks, and largely dependent on the external information environment But it can better form an overview of the whole information space structure.

02

Explore:

find new information in a certain field

The information collected in

searching is helpful to achieve the ultimate goal of discovering new information. When searching, users have to visit many different information sources, and the search activities are highly dependent on indexing.

03

Search:

It is the process of finding and locating specific information in a large information set. The purpose of searching is strong, and the activity efficiency is the highest.



types of online consumers

- I. Simple and convenient type —— convenient and direct online shopping
- II. Surfing type —— constantly updated and have innovative design features
- III. newcomer type —— believe in the brands they are familiar with in life
- IV. Bargaining type —— have an instinct to buy cheap goods
- V. Regular type and Sports type —— usually attracted by the content of websites







Tmall platform





products' catalogue

well-known brands and trademarks

B to C mode

Simple and convenient type

newcomer type







Tmall International platform



全球精选 极速发货 全球底价

再会人



regular type and sport type consumer

mother and baby products

Beauty products

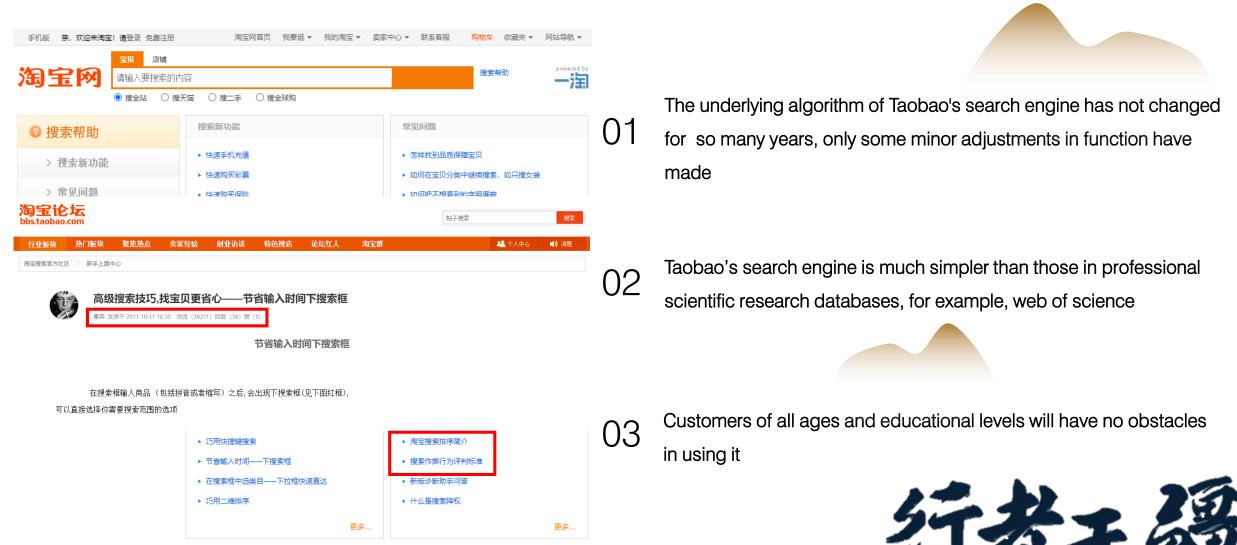
health care products

digital products













帖子搜索

T.

卖家关心的问题——淘宝搜索排序简介

秦弈 发表于 2011-10-12 14:36 浏览 (75251) 回复 (445) 赞 (0)

淘宝搜索排序简介

A、概述

- 1、 淘宝搜索排序的目的是帮助消费者找到最满意的商品。店铺经营情况、商品价格与信息等可能会对搜索结果产生影响。
- 2、 淘宝反对通过各种不正当手段对搜索结果进行影响的行为,并将给予严厉打击。淘宝有权对卖家的违规行为和作假情况进行统计,并根据卖家的相关记录调整其商品在搜索结果中的排名。
- 3、 淘宝有权根据多变的业务情况,采取灵活的解决方案,对商品排序与搜索结果进行持续的调整与改善。

B、排名下调的情形:

- 重复铺货
- 虚构交易,包括炒作信用和炒作商品销量
- 标题乱用关键词
- 4、 错放类月和属性
- 5、 发布广告商品
- 6、 商品邮费、价格严重不符;
- 7、 标题、图片、描述等不一致。

01

The quality of business operations of the store, commodity prices and information may have an impact on search results

02

some cases that will lower the ranking of products, such as repeatedly distribute goods, fictional transactions, misuses of keywords in title and so on

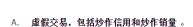






卖家关心的问题——搜索作弊行为评判标准

秦奔 发表于 2011-10-12 15:06 浏览 (37512) 回复 (89) 赞 (0)



定义:虚假交易,包括炒作信用和炒作销量。以增加"会员积累信用"为目的或通过炒作商品销量提高商品人气而发布的商品,会被判定为虚假交易商品。查看更多细则>>

搜索降权时间: 系统识别后立即降权,<mark>降权时间根据作弊的不同严重程度而不同</mark>,一般为30天左右。店铺虚假交易行为过于严重的,全店铺商品都将被降权。

建议: 删除虚假交易的商品。

B . : 换宝贝

定义: 指卖家为了累积销量或人气,修改原有的商品的标题、价格、图片、详情等变成另外一种商品继续出售。这是种严重炒作销量的行为,有这种行为的商品会被淘宝搜索判定为换宝贝立即降权。查看更多细则>>

搜索降权时间: 系统识别后立即降权,<mark>降权时间根据作弊的不同严重程度而不同</mark>,一般为30天左右,严重的可永久 降权或屏蔽。

建议:删除该商品。

C. 重复铺货

定义: 完全相同以及商品的重要属性完全相同的商品,只允许使用一种出售方式(从一口价,拍卖中选择一个),发

布一次。违反以上规则,即可判定为重复发布,并在搜索结果里靠后展现或不予与展现;对于不同的商品,必须在商品的标题、描述、图片等方面体现商品的不同,否则将被判定为重复铺货。 查看更多细则>>

搜索降权时间:系统识别后立即降权,<mark>降权时间根据作弊的不同严重程度而不同</mark>,重复的商品删除后最早可在5天内结束降权。

建议: 删除重复的商品。

D . 重复铺货式 开店

定义: 指卖家通过同时经营多家具有相同商品的店铺,达到重复铺货的目的,淘宝搜索此开店方式为重复铺货式开店。这种行为,严重干扰卖家正常经营秩序,并破坏买家的购物体验,属于搜索作弊行为。

搜索屏蔽时间: 系统识别后,保留其一个主营店铺,其余店铺屏蔽。

建议: 保留一个主营店铺,其余店铺关闭。

Α

false trading is that the products released to speculate the sales volume or increase the popularity, and the purpose is to increase "members accumulate credit"

В

the seller modifies the title, price, picture, and details of the original product to become another kind of product to continue selling







F.错放类目和属性

定义: 商品属性与发布商品所选择的属性或类目不一致,或将商品错误放置在淘宝网推荐各类目下,淘宝搜索判定为放错类目商品。查看更多细则>>

搜索降权时间:系统识别后立即降权,<mark>降权时间根据作弊的不同严重程度而不同</mark>,错放类目和属性:纳唐返髡 泛 最早可在5天内结束降权。

建议: 将商品放到正确的类目和属性中。

G.: 标题滥用关键词

定义: 卖家为使发布的商品引人注目,或使买家能更多的搜索到所发布的商品,而在商品名称中滥用品牌名称或和本商品无关的字眼,使消费者无法准确地找到需要的商品。有这种行为的商品会被淘宝搜索判定为滥用关键词商品立即 降权。查看更多细则>>

搜索降权时间: 系统识别后立即降权,<mark>降权时间根据作弊的不同严重程度而不同,</mark>标题滥用的商品修改正确后<mark>最早可</mark>在5天内结束降权。

建议: 将商品标题修改正确。

H.: SKU 作弊

定义: 指 **刻意规避淘宝商品SKU设置规则**,滥用商品属性(如套餐)设置过低或者不真实的一口价,从而使商品排序靠前(如价格排序),淘宝搜索将这种商品判定为 SKU 作弊商品。查看更多细则>>

搜索降权时间:系统识别后立即降权, <mark>降权时间根据作弊的不同严重程度而不同</mark>, SKU 作弊的商品修改正确后 **最早** 可在 5 天内结束降权。

建议:将 SKU 商品修改正确

I.价格不符

定义: 发布商品的定价不符合市场规律或所属行业标准,滥用网络搜索方式实现其发布的商品排名靠前,影响淘宝网正常运营秩序的,淘宝搜索判定其相关商品为价格不符商品查看更多细则>>

搜索降权时间: 系统识别后立即降权,<mark>降权时间根据作弊的不同严重程度而不同</mark>,价格严重不符的商品调整正确后最早可在5天内结束降权。

建议: 按照市场规律和所属行业标准,将价格调整正确。

the keywords in product titles, the sales volume of the product, the price, the evaluation of the product, the product picture

the operation of the store which including the overall sales of the store and the reputation of the store

03 the weighting calculation





Other factors affecting ranking





Other factors affecting ranking



搜索优化

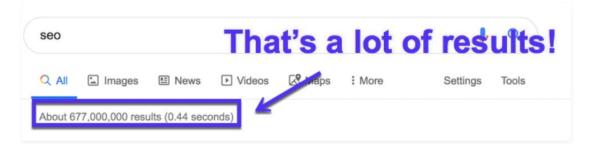


第二节 SECTION 02



Search Engine Optimization





It's a hotly debated topic and there is LOTS of content written about it online.



What Is SEO?



SEO is the process of improving your website so that it ranks higher in search engine results for certain keywords. Typically people focus on appearing in Google or Baidu, but there is also Taobao.

It is all about getting users to visit your site without directly paying for advertising. It's a discipline of marketing that absolutely loves acronyms:

SERP – search engine results page

CTR – click-through rate

CTA – call to action

CRO – conversion rate optimization

UX – user experience



Users' behavior analysis

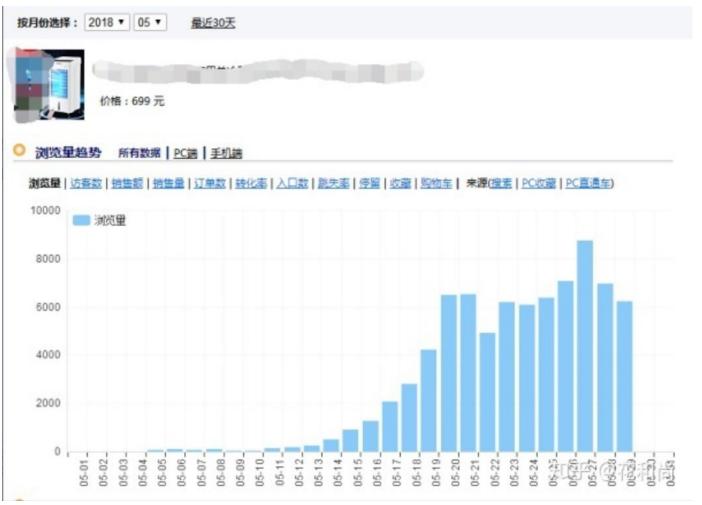
These business concepts of click-through rate, call to action, and conversion rate are also applicable to e-commerce platforms such as Taobao.

Therefore, if you want to improve the visibility of your store through these marketing methods, you must analyze the users' behavior. When each of us uses Taobao to shop, our browsing habits, retrieval ways, and visit purposes will be recorded unreservedly.

Simultaneously, data analysis software also came into being.





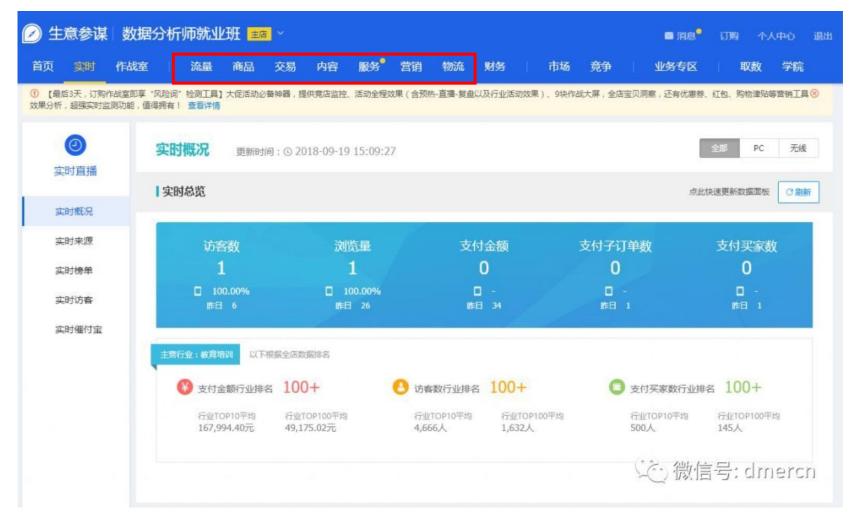


After years of development and integration since 2011, Taobao has finally upgraded their data tool "Business Advisor" that was originally used in Alibaba's B2B market, into a unified data product platform for Alibaba's merchants.



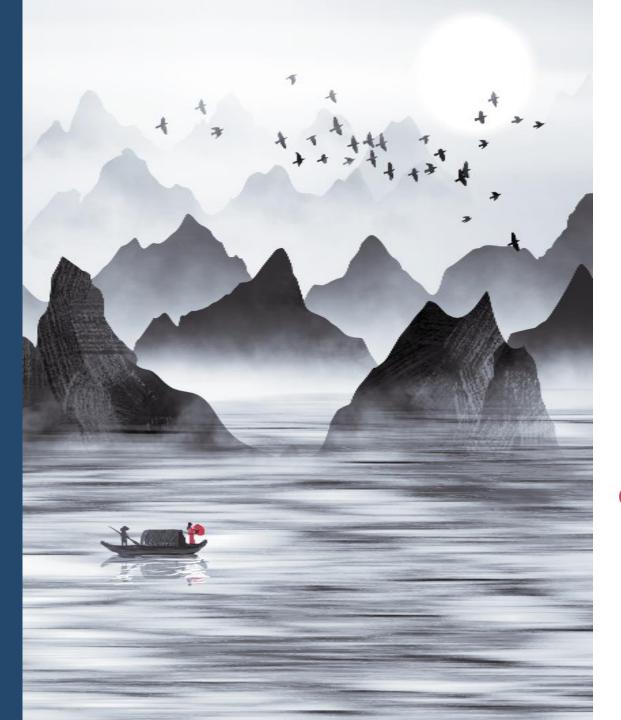


Business Advisor



These data have too many dimensions and quantities, so they are divided into some topics, such as traffic, transaction, service, evaluation, logistics and so on.







core indicators





unique visitors page views

payment amount transaction conversion rate





bounce rate refund rate

customer unit price service score

Other important indicators:

the amount of products added into favorites
the amount of goods putted into the shopping cart
page dwell time
customer return rate
the depth of page access



Business Advisor



104 parameters or indicators

The general routine is: dimensionality, time granularity, and indicators





Indicators for shop operation

The indicators of

traffic analysis

include three

indicators: bounce

rate, average page

views, and average

dwell time

Affected by the

details page of the

product, Asking

Everyone, Buyer

Shows, and

Comments





INCREASE
NATURAL
SEARCH
TRAFFIC

流量



SECTION OX



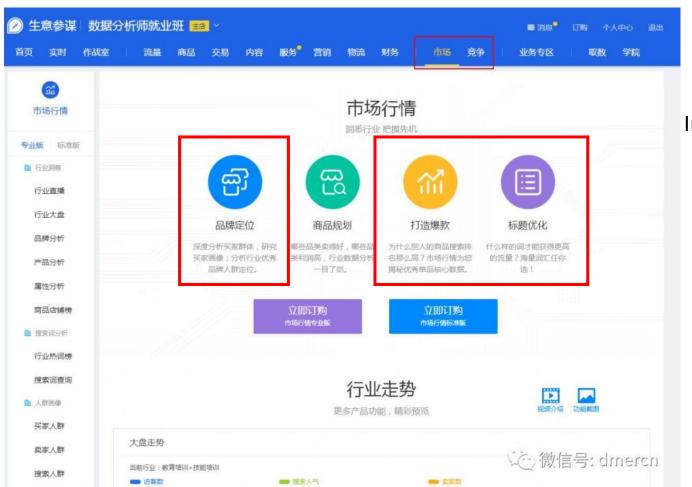


Achieving huge store traffic is the kingcraft

These indicators can't help sellers solve these problems we raised earlier, that is getting higher ranking and higher traffic. Therefore, the parameters related to this problem are the real core indicators.



market quotation





In-depth analysis of buyers and study of buyers' profile

creation of explosive products improve search ranking

product title optimization

find out what keywords can get higher traffic



keywords selection assistant

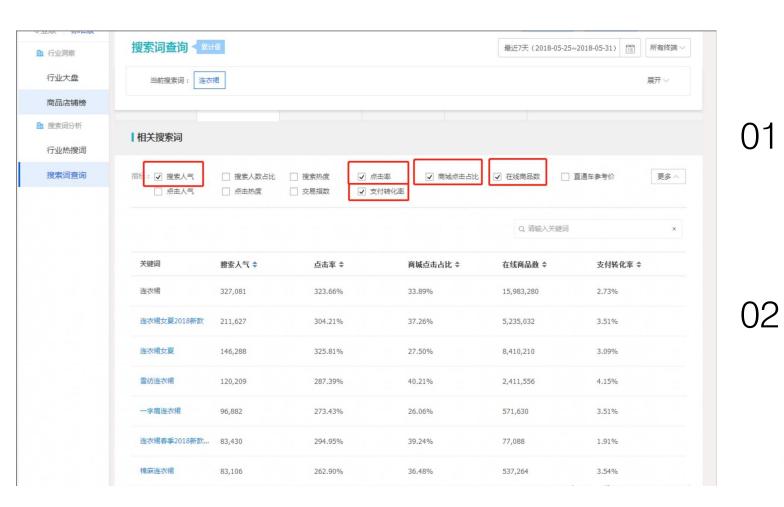
带来的 浏览量	在所选的终端(PC或无线)上,通过搜索某个关键词后,点击店铺或者店铺的宝贝,进入店内的访问次数,同一个人 多次访问记为多次。
带来的 访客数	在所选的终端(PC或无线)上,通过搜索某个关键词后,点击店铺或者店铺的宝贝,进入店内的访问人数,同一个人 多次访问记为一人。
	在所选的终端(PC或无线)上,对于店外搜索关键词,是指通过搜索某个关键词访问某个宝贝后,在当天后续时间内 拍下该宝贝的人数;对于店内搜索关键词,是指搜索某个关键词后的店铺搜索结果页中,点击搜索结果中的某个宝贝后 ,在当天后续时间内拍下该宝贝的人数。
引导下 单转化 率	在所选的终端(PC或无线)上,对于店外搜索关键词,是指引导下单买家数除以该关键词带来的访客数;对于店内搜索关键词,是指引导下单买家数除以该关键词搜索结果页的点击人数。
全网搜索人气	在所选的终端(PC或无线)上,根据关键词搜索人数折算所得,该值越高表示搜索人数越多。一个关键词被同一个人搜索多次,搜索人数记为一人。
全网搜索热度	在所选的终端(PC或无线)上,根据关键词搜索次数折算所得,该值越高表示搜索次数越多。一个关键词被同一个人多次搜索,记搜索次数为多次。关键词的一次搜索后多次翻页查看搜索结果,搜索次数记为一次。
商城点击占比	在所选的终端(PC或无线)上,当用户搜索关键词后出现的搜索结果中,点击天猫店铺宝贝的次数除以点击所有(天 猫店铺+淘宝店铺)宝贝的次数。
全网点 击率	在所选的终端(PC或无线)上,搜索关键词后出现的搜索结果中,点击店铺或者宝贝的次数除以关键词的搜索次数
全网商品数	在所选的终端(PC或无线)上,搜索关键词后找到的相关宝贝数,由于不同的时点搜索结果略有差异,当前采用的是 所有次搜索得到的结果宝贝数的最大值。
全网下单转化率	在所选的终端(PC或无线)上,搜索关键词并点击查看相关宝贝后,在后续时间里该用户拍下该宝贝,我们记为全网引导下单买家数。全网引导下单买家数除以全网搜索人数即为当前指标值。
-	

店内搜 索人数	在所选的终端(PC或无线)上,在店铺内搜索关键词的人数,一个关键词被同一个人搜索多次,搜索人数记为一人。
搜索结 果页点 击人数	在所选的终端(PC或无线)上,在店铺内搜索关键词后,点击搜索结果页中宝贝的人数。一个人点击多个宝贝或对一个宝贝点击多次,均记为一人。
搜索结 果页点 击次数	在所选的终端(PC或无线)上,在店铺内搜索关键词后,点击搜索结果页中宝贝的次数。一个人点击多个宝贝或对一个宝贝点击多次,记为多次。
搜索结 果页点 击率	在所选的终端(PC或无线)上,关键词搜索结果页的点击次数除以搜索次数
曝光量	通过搜索关键词展现店铺或店铺商品次数 (淘宝+天猫)
引导入 店人均 浏览量	在所选的终端(PC或无线)上,通过搜索某个关键词后,产生的入店访客PV/入店访客UV
跳失率	在所选的终端(PC或无线)上,通过搜索某个关键词后,一天内,来访您店铺浏览量为1的访客数/店铺总访客数,即 访客数中,只有一个浏览量的访客数占比。该值越低表示流量的质量越好。多天的跳失率为各天跳失率的日均值。
引导入 店浏览 量	在所选的终端(PC或无线)上,通过搜索某个关键词后,来访店铺浏览量PV

search keyword indicators in store



retrieval keywords analysis



O1 To optimize the products title still need another function: search term analysis

dig out keywords on the Taobao platform, and then filter the keywords to find out a series of intentional words with high scores of various indicators and great relevance to the product



filtering retrieval keywords

A	A	В	C	D	E	F
1	关键词	搜索人气	点击率	商城点击占比	在线商品數	支付转化车
2	连衣裙	327,081	323.66%	33.89%	15,983,280	2.73%
3	连衣裙女夏2018新款	211,627	304.21%	37.26%	5,235,032	3.51%
4	连衣裙女夏	146,288	325.81%	27.50%	8,410,210	3.09%
5	雪纺连衣裙	120,209	287.39%	40.21%	2,411,556	4.15%
6	一字肩连衣裙	96,882	273.43%	26.06%	571,630	3.51%
7	连衣裙春季2018新款女中长款	83,430	294.95%	39.24%	77,088	1.91%
8	棉麻连衣裙	83,106	262.90%	36.48%	537,264	3.54%
9	真丝连衣裙	80,969	265.96%	47.54%	554,300	2.97%
10	孕妇连衣裙	77,632	276.95%	35.54%	746,384	16.58%
11	蕾丝连衣裙	73,919	262.91%	38.08%	1,832,432	2.77%
12	碎花连衣裙	73,447	274.59%	37.69%	1,472,977	3.23%
13	吊带连衣裙	72,412	275.64%	19.75%	2,047,889	3.18%
14	女童连衣裙	71,073	277.40%	47.68%	2,656,375	9.29%
15	连衣裙女	68,283	344.69%	26.25%	11,299,930	2.63%
16	ins超火的连衣裙	67,777	258.13%	24.33%	107,096	3.09%
17	真丝连衣裙女2018新款大牌	62,475	257.21%	55.39%	22,017	3.50%
18	夏季连衣裙女2018新款	59,889	305.54%	37.99%	2,546,578	2.51%
19	黑色连衣裙	59,425	267.77%	18.57%	3,206,300	3.48%
20	红色连衣裙	59,043	263.14%	27.92%	2,115,477	3.50%
21	连衣裙2018春新款女	58,409	272.68%	37.60%	1,319,113	2.26%
22	裙子春季2018新款女连衣裙学生	57,745	340.36%	24.51%	9,401	1.50%
23	小清新连衣裙	56,101	317.38%	32.82%	884,001	2.66%
24	√领连衣裙	55,031	307.00%	22.81%	2,274,009	2.92%
25	大码连衣裙	53,896	356.72%	25.78%	2,041,416	4.21%
26	冷淡风连衣裙 复古	53,519	279.07%	23.24%	56,043	2.46%
27	复古连衣裙	51,855	356.97%	12.64%	1,368,770	2.16%

A	A	В	C	D	E	F	G
1	关键词	搜索人气	產击克	商城点击占比	在线商品数	支付转化率	竞争度
2	网红衣服女连衣裙	30,686	256.70%	21.23%	2,377	1.29%	4274. 907067
3	压褶吊带连衣裙	34,369	293.76%	3.51%	13,942	2.16%	1564. 185402
4	极简主义 连衣裙	43,451	260.83%	9.85%	8,068	0.77%	1081.638539
5	港味连衣裙夏 气质	42,884	256.51%	19.59%	19,998	1.96%	1078. 124947
6	港味连衣裙夏 学生	40,087	296.82%	11.56%	12,602	1.05%	991.3945808
7	冷淡风连衣裙 复古	53,519	279.07%	23.24%	56,043	2.46%	655. 5938553
8	冷淡风连衣裙 极简	48,447	249.02%	30.34%	69,997	3.53%	608.410074

filtering formula:

competition degree = search popularity * click rate *conversion rate*10000/number of online products

filtering principles:

First, when selecting keywords, we need to select words that match the features of our own products.

Second, keywords should not conflict with each other.

Third, pay attention to avoid brand words that are not authorized by the owners.



summarize the useful words and then combine them as a titles

front and back principle:

that is, the words at the front and back of the title have the highest weight



The space principle: Taobao defaults that spaces are mandatory separators, and the purpose of adding spaces is to force word segmentation.

The principle of order is irrelevant:

when you combine titles, it will not affect the search results if you randomly shuffle the selected long-tail words.



close arrangement principle:

there are no spaces and no other words among keywords.



create an explosive product

keywords are popular, that is, buyers find the products by searching for a keyword, and generate clicks to enter the store.

01

the keyword has a turnover, that is, the buyer enters the store through a certain keyword and places an order for transaction

03

02

Keywords bring praises, that is, Will the buyer give a good service feedback after placing an order?



When we have a good title, to create an explosive product, we need to increase the weight of keywords in this title in order to get a better search ranking.



making a large amount of fake orders







the primary level

popularity weight has a relatively low effect on ranking

Intermediate level

sales weight brought by keywords is the main way to improve the ranking the advanced level

service weight will affect how much effect the sales weight can produce



persona-users' profile



When buyers search keywords in Taobao, click to enter the page through searching, or generate purchase etc., these behaviors will be labeled, and combined with the user's identity information, location information, user's equipment, social circles and all other data that can be collected, a profile of a specific user will be formed. The more customers use it, the more complete and accurate the persona will be.

At the same time, when the product is searched, clicked, collected, purchased and evaluated by customers, it will also be reversely indexed. Then the product labels are automatically matched with the labels of buyer's Taobao account to achieve precise brand positioning, and the Taobao's webpage is personalized for specific customers as well, which called thousands persons with thousands interfaces.



INFORMATION
RETRIEVAL IN
OTHER AREAS
OF LIFE

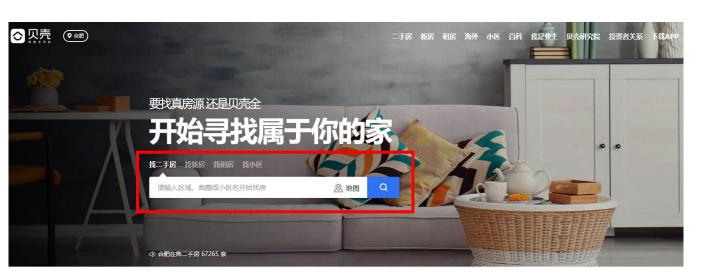




SECTION OF 第四节



Beike platform



二手好房 好房源那么多,我们为你精选 更多合肥二手房 its retrieval system is much simpler

the pictures of houses

the retrieval keywords are relatively fixed

the number of search results is not much







Beike platform



Even with VR system, we can have a more comprehensive understanding of the internal condition and structure of the house, but the environment inside and outside the community and the surrounding living facilities still need on-site investigations. This is an area where online retrieval system cannot completely solve the problem.





Dazhong Dianping

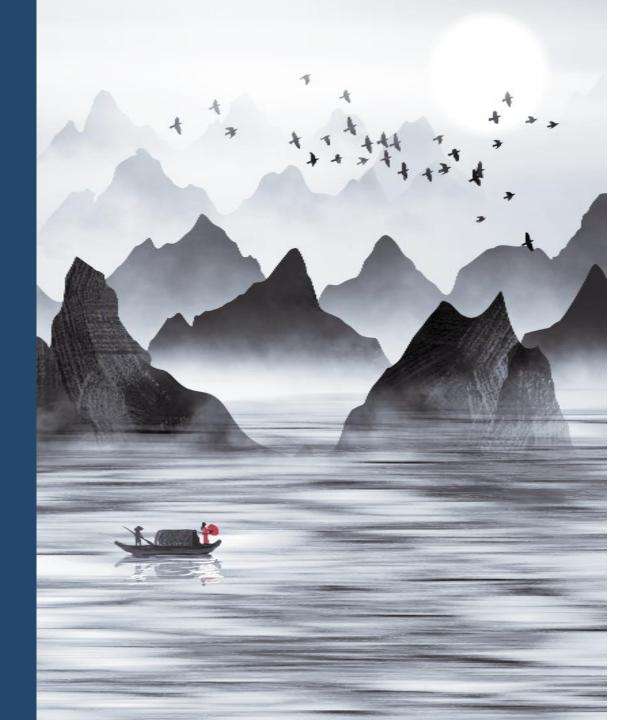
local life circles and consumption

Influence of users' reviews on this platform is almost decisive

Three dimensions

distance, delivery time and users' evaluation







Other field





Video

Music





Travel

Live stream

E N

R

E

A

S

W

E

R

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E

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SERCH

搜索引擎



SECTION O



Search Market Share



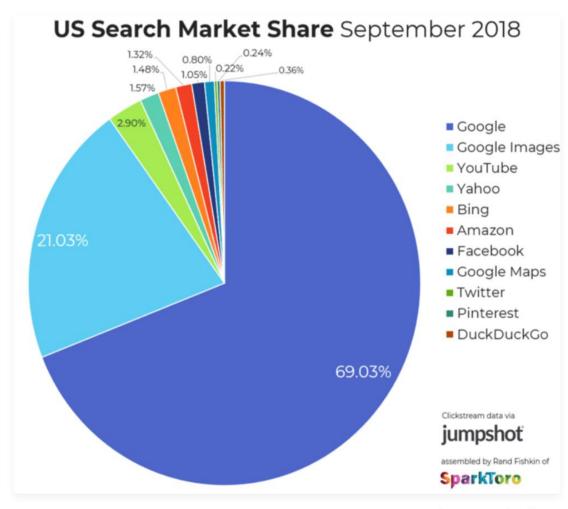
Google Search Engine



An industry giant

The biggest market share

google, google image, youtube, yahoo,bing and so on

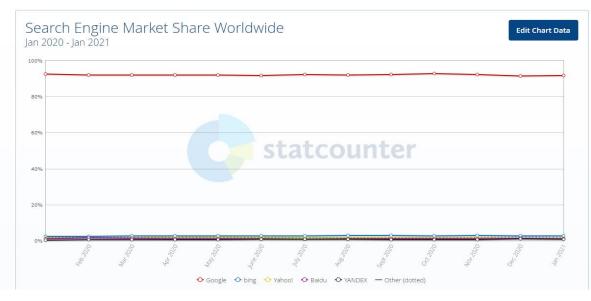


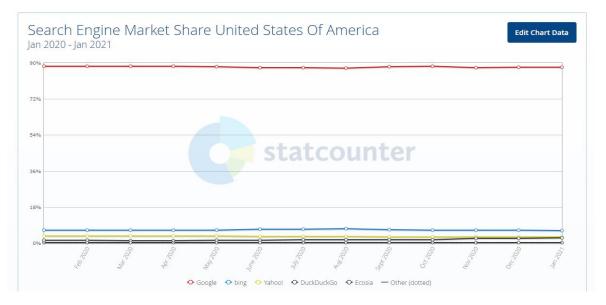


Search Engine Market share





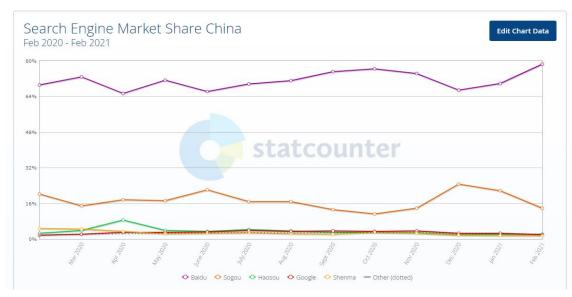


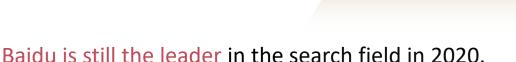




Search engine market share in China







Sogou has developed very well, which has already left 360 Haosou far away.

The main users of bing and google in China are a small group of people who need to search foreign websites.

The last search engine Shenma mainly has certain users on the mobile terminal.





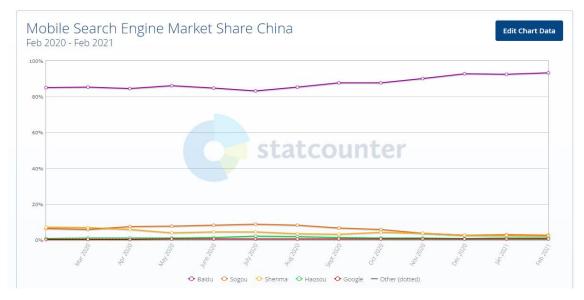


Desktop and Mobile Search Engine Market share in China







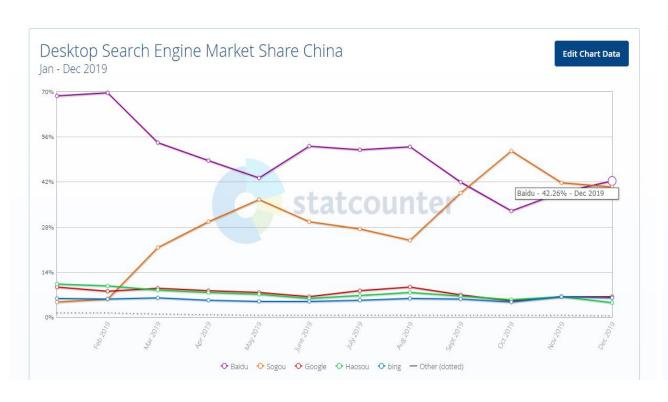


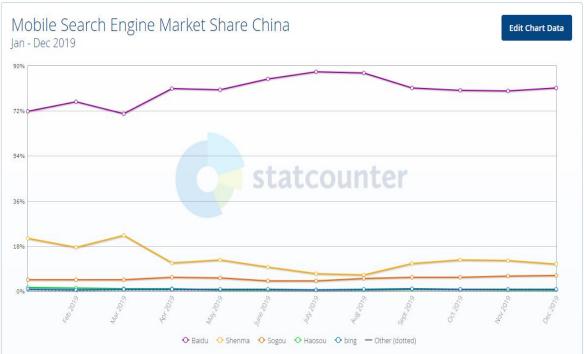
Sogou and Baidu have a similar market share

Baidu is in a monopoly position



Desktop and Mobile Search Engine Market share in China



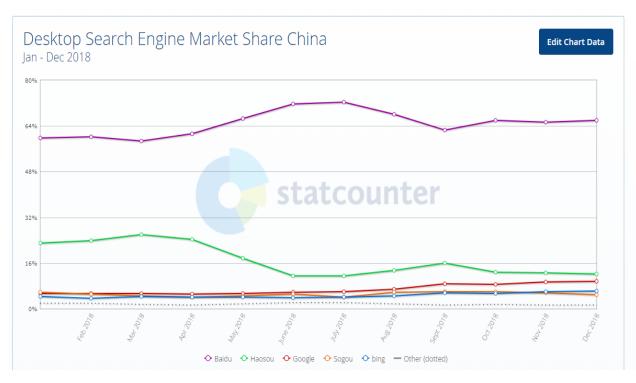


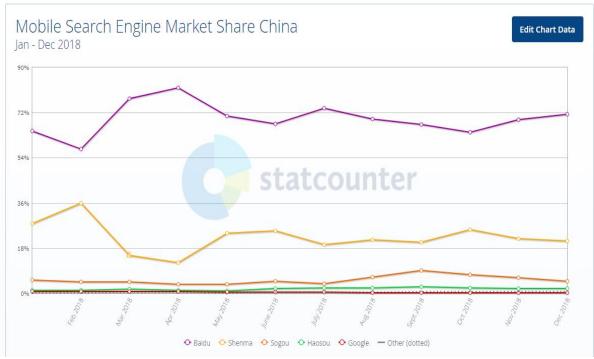
Sogou has grown rapidly since February 2019

The Market share is in line with our general impression



Desktop and Mobile Search Engine Market share in China







Google's position in the world search (field is difficult to challenge.

O1 Baidu's leading position in China is O2 only slightly shaken on the desktop.



However, this one-size-fits-all situation will cause many problems. We will discuss this issue next.



Trump's doubts





Former US President Trump's unusual worldview often makes some jokes. But once his version of the paranoid style of American politics has led to an interesting tech question at the center of the media universe.

Trump has questioned the fairness of Google's algorithm and search results, claiming that conservative media outlets are suppressed.





Google has vehemently denied the president's charges. But given how central Google is in most of our lives at this point, Trump's assertion raises the question of how well we understand its search algorithm.





Is google search fair?



He's an algorithm expert and he talked something specifically on the question of whether Google search is fair.

Grant Ingersoll, CTO, Lucidworks

He has extensive experience in the tech industry, as he started the Mahout Machine Learning Project and is also a contributor to Solr

Apache Mahout

ф маноит

Apache Mahout is a project of the Apache Software Foundation to produce free implementations of distributed or otherwise scalable machine learning algorithms focused primarily on linear algebra. In the past, many of the implementations use the Apac... +

Apache Solr



Solr is an open-source enterprise-search platform, written in Java. Its major features include full-text search, hit highlighting, faceted search, real-time indexing, dynamic clustering, database integration NoSQL features and rich document handling. Pr... •





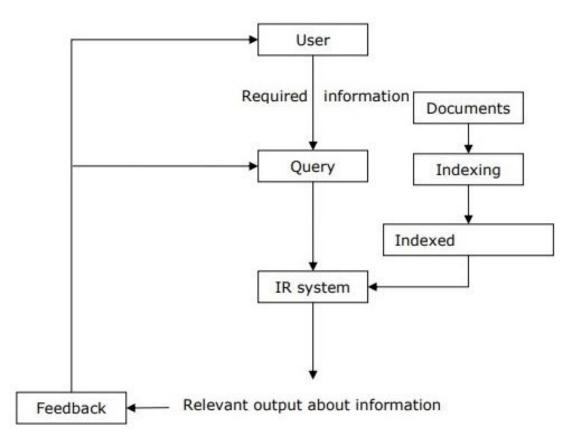


How most search engines work



Search Engine

- Core algorithms do the pre-processing Content is acquired then parsed and then fed it into the engine
- 2. web crawling to find all documents or sites that mention the words the user is looking for
- 3. using inverted indexes to find what is most relevant







How most search engines work

There is some form of editorialization in almost every search engine in that the algorithm must in essence decide what is important. The editorial perspective is reflected in weighting algorithms that rank sites by reviews, popularity, purchase prices, and freshness of the content.

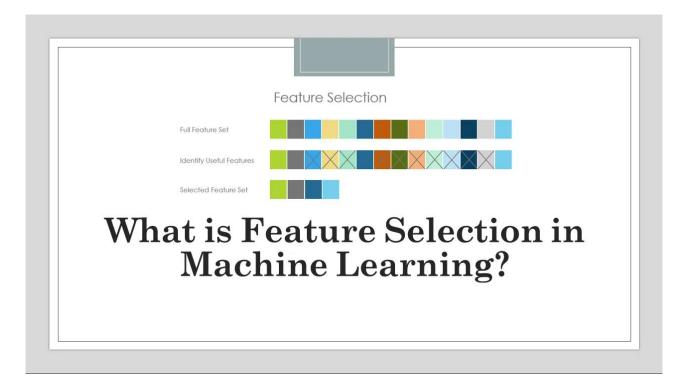
Al and machine learning provide personalization to the user. At each site, there are dozens of Al and machine learning techniques that are being applied to guide the results so that they are most relevant to the person conducting the search.





Machine learning uses what's called features

Features are attributes of content



For a product it might be a price, whether an item is in stock, and what color it is.



For a blog or article, it's keywords, the title, the topics, and the author.





Trump's doubts





The question is to what degree it's ripe for manipulation by third-party sources

As soon as you make that choice of a feature, it then becomes a target for somebody to manipulate it in an adversarial way.





Search manipulated by unscrupulous people







google

Baidu

UC/360

Black-hat SEO

Wei Zexi incident

Hospital bidding ranking

Link and results hijacking

Baidu and Putian hospitals

Fake medical advertisement



Search engine bias

Users Shape

the results

While a company like Google has many savvy, intelligent engineers, but it's us, the users, that really help define the results that the engine brings back.

Yes, Google has a lot of really smart people. But the reality is that we, as consumers of Google, do the large majority of work. We 'vote with our fingers,' if you will. We tell Google what's important. And it's not just us individually; all of us together say, 'I like this document and not this document,' or 'I like this site, not that site.' Ingersoll



why Google's search works so much better



we offered these feedback whenever we buy something or just by how long we stay on a particular page

That feedback is also why Google's search works so much better than the internal search on many company sites. Google is receiving feedback from billions of users at all times — something that internal search engines do not get.



OTHER OPTIONS 其他选择



第二节 SECTION 02



Our Guide to Alternative Search Engines

Bing

Web Search Engine



Microsoft Bing is a web search engine owned and operated by Microsoft. The service has its origins in Microsoft's previous search engines: MSN Search, Windows Live Search and later Live Search. Bing provides a variety of search services, including w... +









YouTube

Founded: Jun 03, 2009

Headquarters: Bellevue, WA

Written in: ASPINET

Created by: Microsoft

DuckDuckGo

Internet Search Engine



DuckDuckGo is an internet search engine that emphasizes protecting searchers' privacy and avoiding the filter bubble of personalized search results. DuckDuckGo distinguishes itself from other search engines by not profiling its users and by s... +









LinkedIn

Founded: 2008

Headquarters: Paoli, PA

CEO: Gabriel Weinberg

Founder: Gabriel Weinberg

Written in: Perl, JavaScript, Python

Available in: Multilingual

Wolfram Alpha

Answer Engine



WolframAlpha is a computational knowledge engine or answer engine developed by WolframAlpha LLC, a subsidiary of Wolfram Research. It is an online service that answers factual queries directly by computing the answer from externally sourced "curated dat... +









Official site YouTube

Founded: May 18, 2009

Founders: Stephen Wolfram · Theodore Gray

Headquarters: Champaign, IL

Written in: Wolfram Language

Created by: Wolfram Research

Bing

Founded in 2009 by Microsoft

Duckduckgo

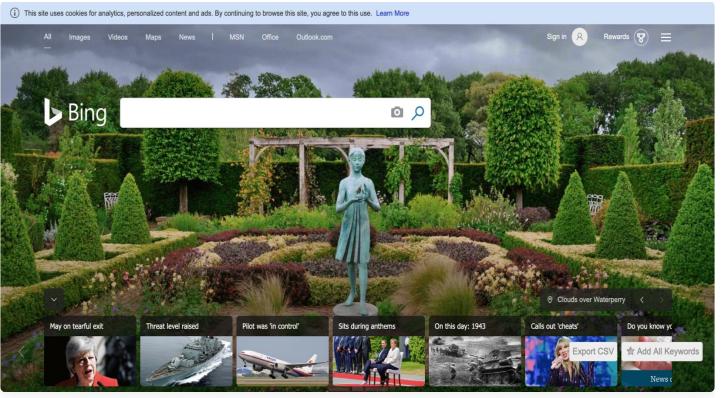
Founded in 2008 that emphasizes protecting searcher's privacy

Wolfram Alpha

Founded in 2009 that is a computational knowledge engine



Bing



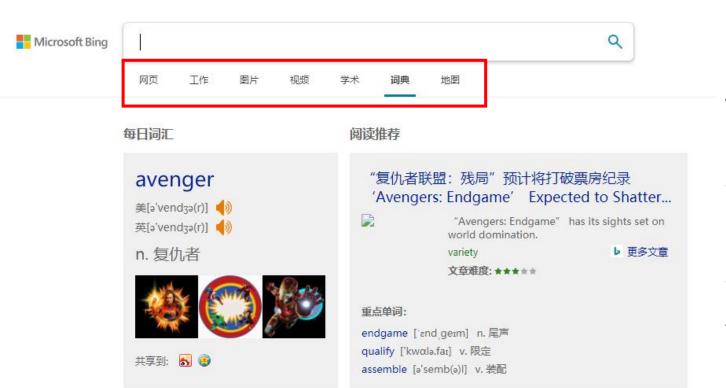
It's easy to use and provides a more visual experience with beautiful daily background photos. Bing is great for image searches and video searches, as if you hover over thumbnail images in Bing Image Search or Video Search, you'll also get a short preview of the video with sound. This helps you to quickly check whether a clip is relevant without visiting the website.

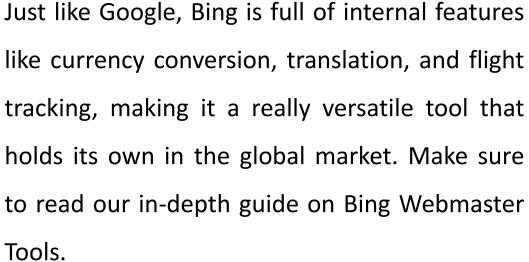
Bing search engine



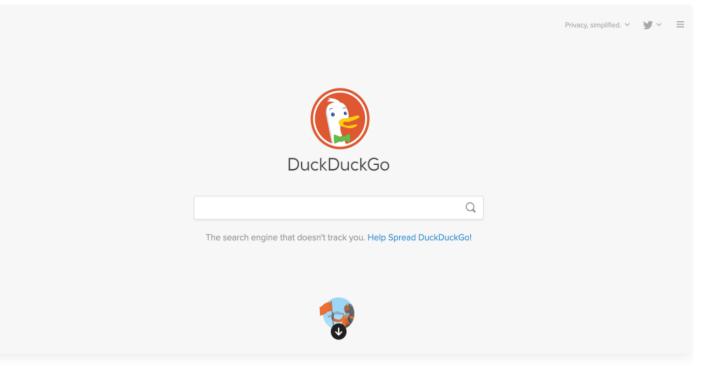


Bing









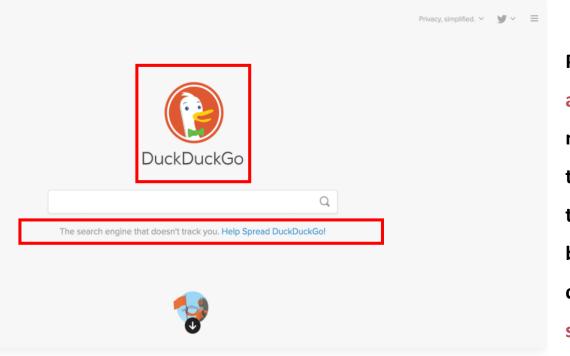




DuckDuckGo is a popular search engine for those who value their privacy and are put off by the thought of their every query being tracked and logged.









People who meet duckduckgo for the first time may be attracted by its strange logo: a duck with a silly open mouth, a harmless expression of human and animal, two tufts of duck feathers on the top of his head, and a green tie on his neck, which is out of place with the red background. This image, which seems to come out of the comics, is in sharp contrast to the serious slogan "the search engine that doesn't track you" at the bottom of the page.



summarize the useful words and then combine them as a titles

2011.1, duckduckgo set up a giant outdoor billboard in San Francisco, which directly pointed to Google's tracking behavior - "Google tracks you. We don't."







2012, Google announced an update to its privacy policy and decided to collect user information in its various online services. DuckDuckGo ushered in a surge in traffic.

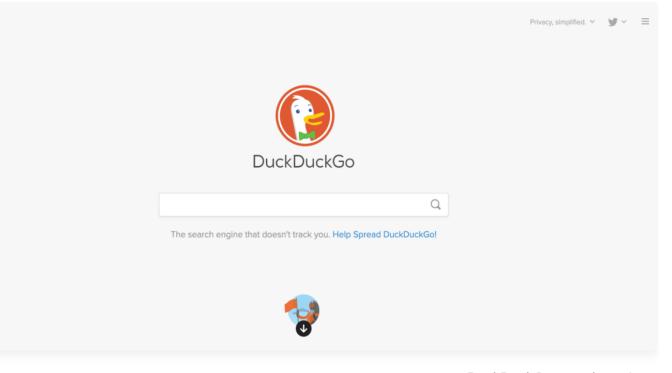
2013, prism gate incident broke out, which once again aroused the public's concern about Internet privacy. The average daily usage of duckduckgo has more than doubled in one year.





2014, Safari and Firefox announced that duckduckgo will be launched As an optional search engine, it further promotes the growth of its users.







After nearly a decade of development, duckduckgo now has more than 16 million searches per day. Although this is only a drop in the bucket compared with Google's 3 billion searches a day, it is also a very gratifying achievement that it relies entirely on community support without any giants behind it.





As mentioned earlier, duckduckgo believes that the key feature that distinguishes itself from all other search engines is its emphasis on maintaining user privacy.



On the one hand, search engines usually collect and record all kinds of information about you.

The purpose of this is to give users a "persona" what we have mentioned in the Chapter one.



If the search engine can better understand your residence, identity and preferences, it can more accurately give you promotion information, so that you are more likely to be interested in it and click to visit it, so as to improve its advertising revenue.







In addition, what is more worrying may be the potential danger of user information being resold and stolen.

duckduckgo's commitment is:

it will neither record your user agent (user ID, used to identify your browser), IP address, search keywords and other passively transmitted information,

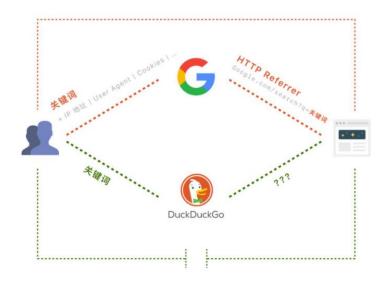
nor will not actively identify you through cookies (web pages stored in the local cache) and other mechanisms.





disclose your search behavior to third-party websites

using search engines will also disclose your search behavior to third-party websites



Two measures:

1.when forwarding your visit, duckduckgo will process the request, so that the third-party website can not know that you are jumping from its search results page.

2.it will also automatically modify the URLs of some major site indexes to point to their HTTPS addresses when you click to access them, so as to further improve security.

Three risks:

1.click a link of website B on the search results page a, website B will know that from the source address field of HTTP header

2.you can see keywords from the URL of the search page, website B also knows that.

3.it discloses the user's identity information to a third-party website, website B can further know that who initiated the search.





pursue the ultimate privacy protection

it allows users to send search requests 0 through the post method instead of the get method

after enabling this option, your search keywords will not be seen from the URL of the browser address bar



the search history will not be presented in the history, which is similar to the effect of "stealth mode", and is conducive to further protecting privacy on public devices



pursue the ultimate privacy protection



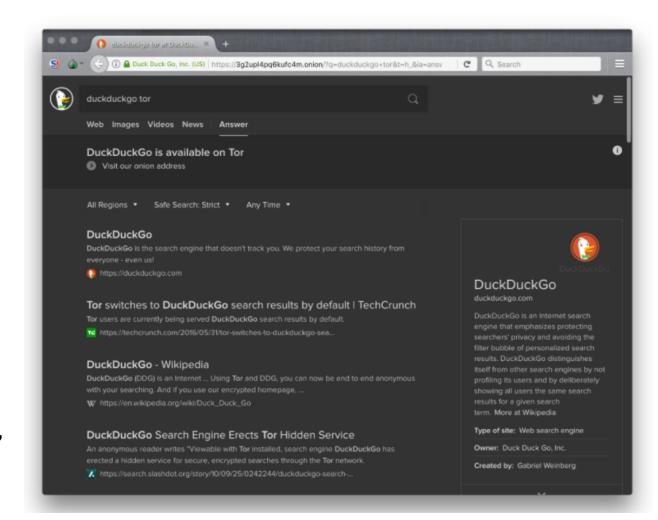
Duckduckgo Search Engine



a rare search engine that provides Tor sites

onion routing, commonly known as "dark network"

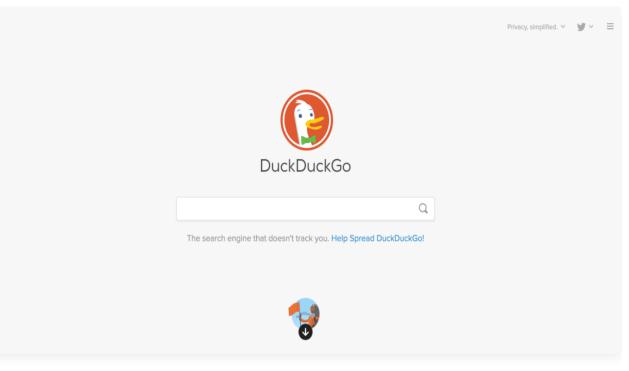
If you can access Tor network you can use DuckDuckGo by accessing 3g2upl4pq6kufc4m.onion, and obtain end-to-end anonymity and encryption.





small compromises are worthwhile

The price of privacy
protection is that you
can't get the "customized"
search results in other
services in DuckDuckGo.



DuckDuckGo search engine

DuckDuckGo really pays more attention to user privacy than other mainstream search engines.

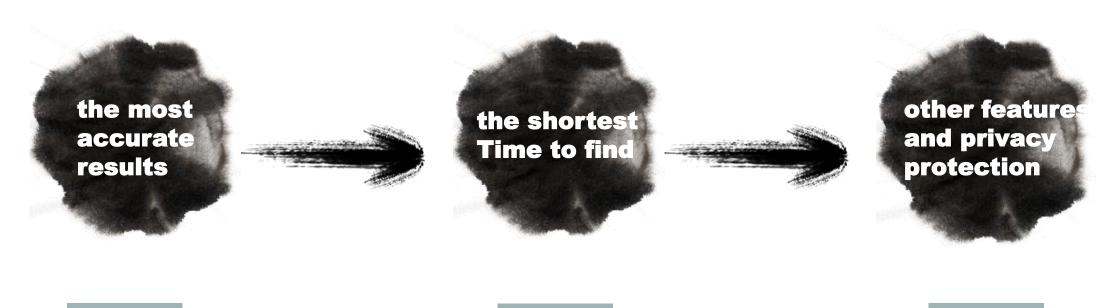
The response of HTTPS connection is usually slower, and enabling the POST method will affect the normal function of the "Back" button.







Instant Answers and search result accuracy



First

Second

Third

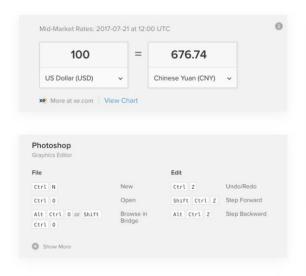
the quality of its search results

the performance of search engine

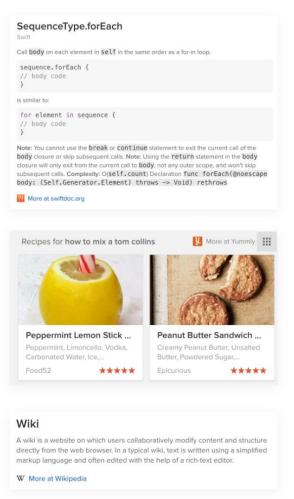
advanced demand



the efficiency of providing answers









the shortest Time to find that is, the efficiency of providing answers

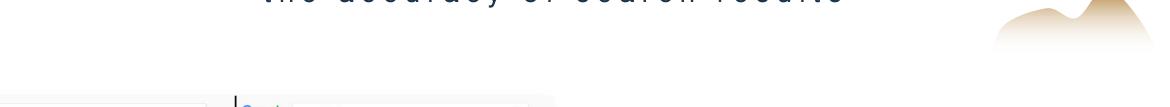
DuckDuckGo's solution is Instant Answers
In short, when you search for a specific keyword,
DuckDuckGo will recognize your needs and present the
answer to you directly at the top of the result page.

Instant Answers is a completely open source project, and anyone can write new Instant Answers support based on its documentation.





the accuracy of search results





It is a very subjective criterion. Different people may have different judgments.

We cannot make an objective judgment on the accuracy of DuckDuckGo

Subjective impressions only:

DuckDuckGo has no significant difference in English search results from Google, at least on the same benchmark as secondtier search engines such as Bing.

There is still a certain gap between the results of Baidu or Google in Chinese search, and the index of major domestic sites needs to be strengthened.



Bang search with DuckDcukGo

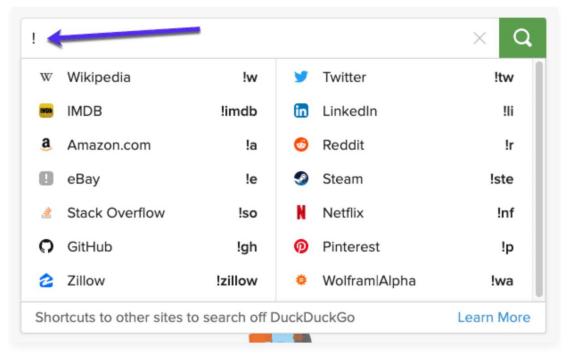


Bang Search

the need to use multiple search engines at the same time

Calling other search engines than the default is a very classic and common requirement

DuckDuckGo directly puts this function into the search engine and calls it Bangs. It is no exaggeration to say that this function fills in the last hurdle to make it to be used as the default search engine.



- Bang search with DuckDuckGo





Bang search with DuckDcukGo



Duckduckgo !Bang



typing a prefix

DuckDuckGo supports nearly 10,000 Bang grammars

When you want to search on another site (like Wikipedia, google hk, baidu, Amazon China, taobao, ect) just add a! to the search bar.



!Bang Keyword

!gi Google 图片搜索

!ghk Google 香港

!bd 百度搜索

!a 搜索亚马逊

!taobao 搜索淘宝



Bang search with DuckDcukGo

It is nothing more than identifying specific keywords and forwarding them to other websites, acting as a "springboard".

However, if you think about it carefully, you will find that this simple "springboard" is the true value of this feature.



!Bang Keyword

!gi Google 图片搜索

!ghk Google 香港

!bd 百度搜索

!a 搜索亚马逊

!taobao 搜索淘宝

Searches forwarded through Bangs are completely anonymous.

When you use Bangs to initiate a search, the target website receives a request from DuckDuckGo instead of yourself, so it cannot associate this search with you, and it cannot "profile" you accordingly, then carry out follow-up actions such as tracking and advertising recommendations.



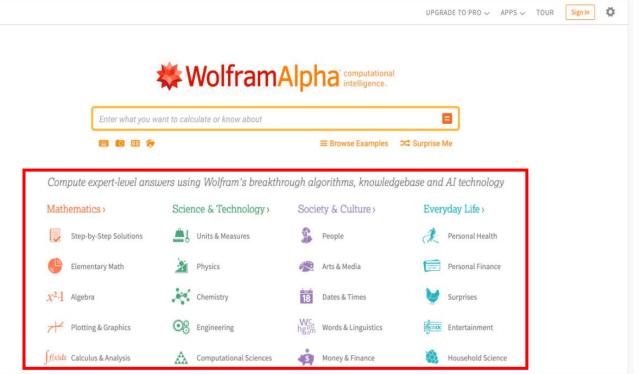
https://www.google.com/search?q=*

换成了:

https://duckduckgo.com/?q=!g%20*







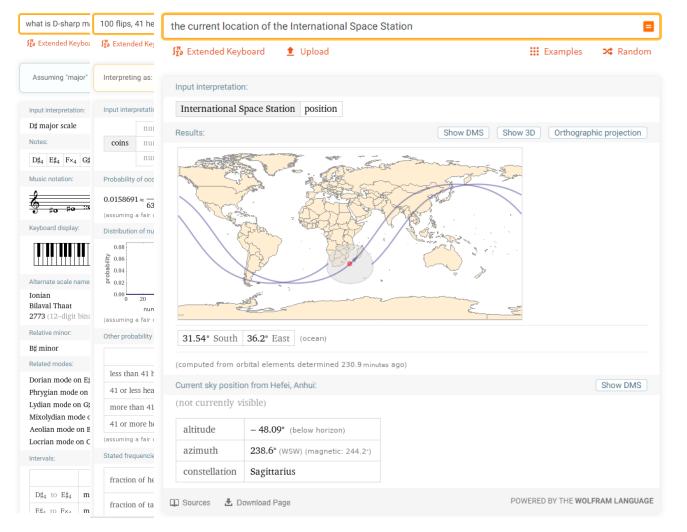
WolframAlpha search engine

WolfframAlpha is a computational knowledge engine or answer engine developed by WolframAlpha LLC.It is an online service that answers factual queries directly by computing the answer from externally sourced "curated data", rather than providing a list of documents or web pages that might contain the answer, as a search engine might.

It's designed to deliver expert knowledge and is categorized into Mathematics, Science & Technology, Society & Culture, and Everyday Life.



WolframAlpha computational intelligence.





The real innovation of WolframAlpha lies in the ability to immediately understand the question and give the answer.

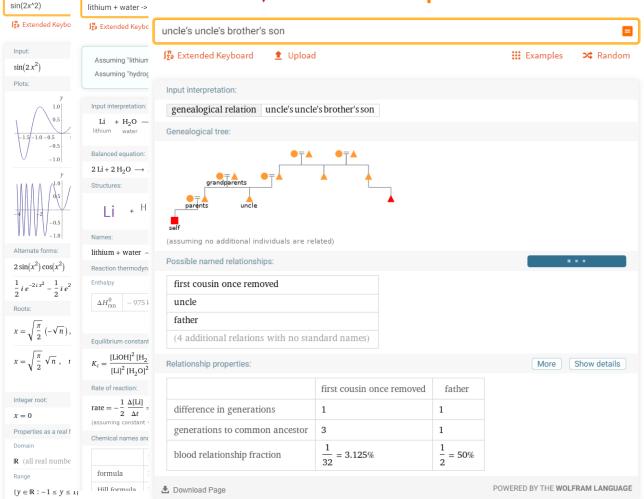
If you ask "what is D-sharp major", WolframAlpha can play it;

if you enter "100 flips, 41 heads up", WolframAlpha can guess that you actually want to know the probability of tossing a coin.

Even the time of next solar eclipse somewhere, or the current location of the International Space Station, WolframAlpha can give you the answer.



WolframAlpha computational intelligence.





For example, you enter a trigonometric function like $\sin(2x^2)$. WolframAlpha can not only draw an graph of function for you, but also find its integral expression and so on.

If you enter a chemical equation "Li+H2O->",
WolframAlpha can automatically obtain the reaction
results and give the balanced equation.

if you want to check the relationship "uncle's uncle's brother's son", wolframalpha realize that what you want to know is a pedigree relation, and it will automatically draw a genealogy for you.

ANSWERS

OF THESE

QUESTIONS

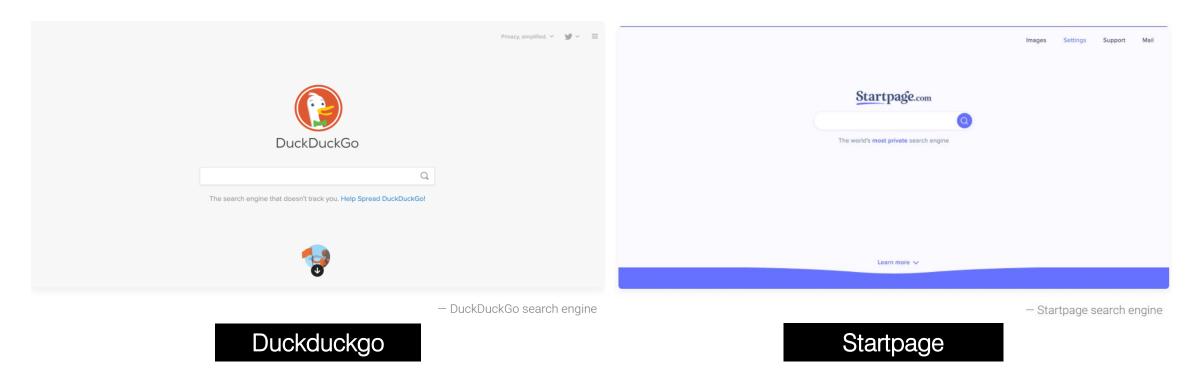
第二节 SECTION 03

问

题 答 案



What Is the Best Search Engine for Privacy



DuckDuckGo includes a detailed and transparent privacy policy. However, if 100% privacy is your goal, you should know that it does save search histories. DuckDuckGo claims that this is "non-personal" and aggregated data, so your searches cannot be traced back directly to you.

StartPage's privacy policy is simple and to the point: "We don't track you. We don't profile you. Period." When using this private search engine, metadata is removed from your search query. This anonymous search request is then sent to Google, the results are sent to you via StartPage.



Which search engine is best



Google Search Engine



There is zero doubt that Google is the biggest and arguably the best search engine out there, thanks to its powerful algorithms and AI.





But being the best search engine comes at a cost

It is well-known that Google personalizes your browsing experience at the cost of sharing your personal data and by allowing Google to track you across the internet.



What Is the Best Search Engine Other Than Google?

Bing

Web Search Engine



Microsoft Bing is a web search engine owned and operated by Microsoft. The service has its origins in Microsoft's previous search engines: MSN Search, Windows Live Search and later Live Search. Bing provides a variety of search services, including w... +









YouTube

Founded: Jun 03, 2009

Headquarters: Bellevue, WA

Written in: ASP.NET

Created by: Microsoft

DuckDuckGo

Internet Search Engine



DuckDuckGo is an internet search engine that emphasizes protecting searchers' privacy and avoiding the filter bubble of personalized search results. DuckDuckGo distinguishes itself from other search engines by not profiling its users and by s... +









a Facebook Official site

Founded: 2008

Headquarters: Paoli, PA

CEO: Gabriel Weinberg

Founder: Gabriel Weinberg

Written in: Perl, JavaScript, Python

Available in: Multilingual

Baidu

Multinational Technology Company



Baidu, Inc. is a Chinese multinational technology company specializing in Internet-related services and products and artificial intelligence, headquartered in Beijing's Haidian District. It is one of the largest AI and Internet companies in the world. The holding co... +







Official site



Stock price: BIDU (NASDAQ) 208.61 ▲ +4.04 (1.97%)
Mar 26.7:59 PM EDT · Price in USD · Market Closed

mar 20, 71071 m 201 1 moon 1000 manor 0100

Founded: Jan 01, 2000 · Beijing, China

Facebook

Headquarters: Beijing, China
CEO: Robin Li (Since 2004)

Founders: Robin Li · Eric Xu

Subsidiaries: Anquanbao · DuerOS · Baidu Video · Beijing Baidu Netcom

Science Technology Co Ltd +

Bing

Duckduckgo

Baidu

the best way to search images

the Best Search Engine for Privacy

the best way to search Chinese websites

FUTURE OF
SEARCH
ENGINE

未来



SECTION O



Can search be different?



Grant Ingersoll, CTO, Lucidworks

"Would the everyday consumer swimming in a sea of information and just wants to get the answer they're after want it? Probably not," he said. "If you're looking up a recipe for barbecued chicken, do you really need to know why the algorithm chose the recipe? You either like the recipes or you don't."

Ingersoll was skeptical of the demand for a white box search engine.





who really care whether the search results are fair or not



Grant Ingersoll, CTO, Lucidworks

Ingersoll also believes that "If you don't like black box search," there are other search engines besides Google. Nobody's forcing us to use Google. Microsoft has a perfectly viable search engine, Bing. For those who really like privacy, DuckDuckGo has made its whole living these days around being the search engine that doesn't put you in a bubble, that doesn't personalize toward you, and that tries to be more clear about what's going on. In fact,

some chunk of DuckDuckGo's code base is open source."





For the future of search

Ingersoll was more sanguine about the possibility of search working better in the future

by using natural language dialogue in the code and then having a bot ask the user clarifying questions about anything unclear in their search





some clear ways that search could be improved

specificity of search

01

adding in time windows

02



Ingersoll sees this as the true future of search, where

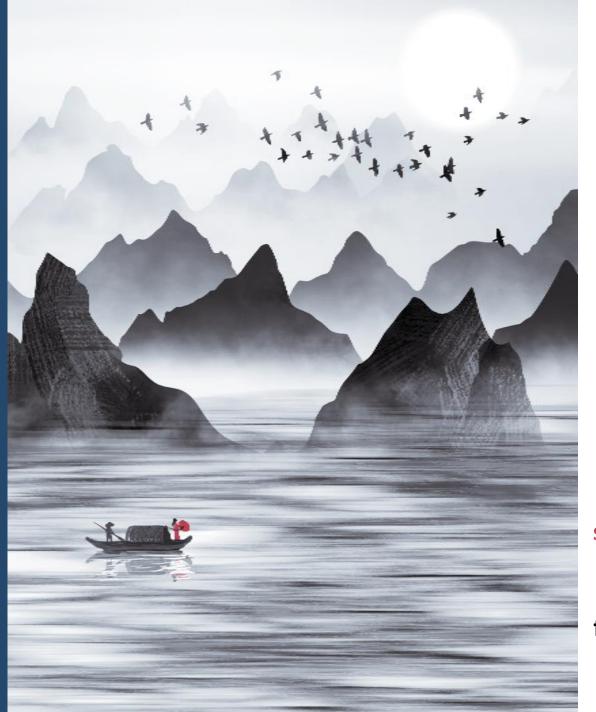
the engine is acting more like a concierge service.



Google will not open up the viewing window into its algorithm



"Google is, at least at a good chunk of its level, an advertising company. Their job is to make money. They need to match ads to it. Their distinct differentiator as a business is the way that they are able to do those kinds of things. So by opening all of that up, they would obviously be inviting competition," Ingersoll said.





Changes in a short term





virtual assistants

graphs



scaling answers to be quick and fact-based for interfaces like Siri and Alexa figuring out
authoritative sources
for topics in an era of
fake news



Changes in a short term



Search engine companies are constantly on the lookout for ways to distinguish the best way of answering



SEO or similar techniques will never go away



new content types that are being unlocked, the simplest one to relate to is images or graphs



Search will always be hampered by some issues



Search will likely always be hampered by the same issues that afflict it now.

That doesn't mean Trump is right when he says Google search is unfair, but it does mean the question will continue to be one that is too complex to answer with a simple yes or no.



Online privacy is a sensitive and complex topic

Online privacy



It is not only a technical issue, but also a theoretical and conceptual issue involving the boundary between public and private rights, and the boundary between the rights and obligations of service providers and users





DuckDuckGo's efforts are likely to be futile

under the leadership
of many giants,
collecting user data
is already the
general trend of the
Internet business
model

the information collection behavior does not necessarily cause the user to suffer pure loss: while transferring some privacy, users are also enjoying the benefits of personalized services and the O2O model?

Without data
support, can big
data and artificial
intelligence
technologies
achieve rapid
development?



Such a view is unfounded



01

Don't keep silence

Users cannot expect to be
"charited" by others, but
should actively use their words
and actions to claim their
rights. In fact, the voice of
users is enough to change the
stereotypes and prejudices of
any large company.



02

Keep competition

03

to maintain the pressure of competition in a monopolistic market, so that the upper-level people dare not stand still, recklessly, and harm User benefits.



differential privacy technology

the benefits of information collection are not inconsistent with maintaining privacy





In the wave of the Internet, DuckDuckGo chose a path upstream. This is destined to be a difficult direction: we cannot predict how long the privacy it brings can last, or even verify how reliable the security it promises.

But what is certain is that as long as there are "traitors" like DuckDuckGo swimming in the waves, the Internet will not become a desert of privacy.



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