Könyvtárak a felhőn – előadás-sorozat

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**A leggyakrabban használt Google felhőszolgáltatások bemutatása és azok gyakorlati alkalmazhatóságának megismertetése**

(Most frequently used Google Services and their utilities in information brokering)

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Kivonat: Amit nem ismerünk és nem használunk, az nem tud hasznot termelni senkinek. Így a Google online szolgálatatásai közül érdemes minél többet, minél részletesebben megismernie azoknak, akik másokat akarnak segíteni az információs többletérték maximalizálásához vezető úton, vagyis a hatékonyságnövelés optimalizálásakor.

Kulcsszavak: információbróker, információs többletérték, hatékonyság, maximalizálás, optimalizálás

Abstract: The not known/used services can not deliver utilities. The Google Services are matured services with high potential of information added value, especially for people wanting support others on the way to optimized efficiency concerning information brokering.

Keywords: information broker, information added value, efficiency, maximizing, optimizing

# Bevezetés

Az előadásvázlat/prezentáció célja a könyvtári informatika kapcsán is triviálisan értelmezhető információbrókerség kapcsán áttekintést és példákat adni a Google egyes szolgáltatásairól.

# Prezentáció

Kiindulás (vö. melléklet):

* <https://en.wikipedia.org/wiki/List_of_Google_products>, ill.
* <https://hu.wikipedia.org/wiki/A_Google_szolg%C3%A1ltat%C3%A1sainak_list%C3%A1ja>, valamint
* minden további nyelvi verzió a potenciális egyedi információk feltárása érdekében)

Feladat:

* az előadó publikus tapasztalataiból történő korlátozott válogatás bemutatása
* az előadás résztvevő általi önálló feladat(ok) megalapozása érdekében
* (kiegészítve a jövőben elvárható további/jobb szolgáltatások lehetőségére való rámutatással)

Átvezetés a tegnapi HPC-fókuszú előadásból:

* <https://books.google.com/ngrams/graph?content=hpc&year_start=1900&year_end=2019&corpus=26&smoothing=3&case_insensitive=true>
* <https://www.youtube.com/watch?v=jbkSRLYSojo> (Rosling/GAPMINDER – adatvizualizáció - <https://en.wikipedia.org/wiki/Gapminder_Foundation>, <https://en.wikipedia.org/wiki/Trendalyzer>)
* GAPMINDER-alapú saját megoldás: <https://miau.my-x.hu/miau/224/multikulti_gapminder_Y_Xlog_trails.mp4>
* ...

Google Search:

* <https://www.google.com/search?q=rosling+site%3Amiau.my-x.hu>
* <https://www.google.com/search?q=gapminder+site%3Amiau.my-x.hu>
* (vö. minden további, a miau-szervert letapogató kereső URL)
* …

Google Squared:

* <https://www.youtube.com/watch?v=__INtIXNLmI>
* <https://www.google.com/search?q=google+squared+site%3Amiau.my-x.hu>
* …

Google Trends:

* <https://www.google.com/search?q=google+trends+site%3Amiau.my-x.hu>
* <https://trends.google.com/trends/explore?date=all&q=book,television,theater,internet,broadcast>
* <https://miau.my-x.hu/miau/273/adidas_story.pd>
* <https://miau.my-x.hu/miau/269/aranykor_golden_ages_studies.docx>
* Food-Kaleidoscope: <https://miau.my-x.hu/miau2009/index.php3?x=e0&string=food>
* …

Google Public Data Explorer:

* [https://www.google.com/publicdata/directory?hl=en\_US&dl=en\_US#](https://www.google.com/publicdata/directory?hl=en_US&dl=en_US)!
* <https://www.google.com/publicdata/directory?hl=hu&dl=hu#!hl=en_US&dl=en_US>
* <https://www.google.com/publicdata/directory?hl=en_US&dl=en_US#!q=reading>
* …

Google Translate:

* <https://miau.my-x.hu/miau/275/nyelvi_rekeszeles.docx>
* <https://miau.my-x.hu/miau2009/index.php3?x=e0&string=20q>
* …

Google Forms:

* <http://miau.my-x.hu/miau/212/160506/observations.xlsx>
* <https://docs.google.com/forms/d/1trb1owq31ycXDeuiURuIIra_DaF8T7QMO3mzCcGREnE/viewform>
* <https://miau.my-x.hu/matkut/>
* …

Google Sheets:

* <https://docs.google.com/spreadsheets/d/1sEbStn1MlsfE4dlu5JOPPkZKKAALPZT6TQH-wtycKU4/edit#gid=476782909>
* (incl. Online Solver Engines)
* …

Google Maps:

* <https://www.google.com/search?q=google+maps+api+site%3Amiau.my-x.hu>
* (+ Street View)
* …

Google Scholar:

* <https://scholar.google.com/scholar?q=pitlik+l%C3%A1szl%C3%B3&hl=hu&as_sdt=0%2C5&as_ylo=1980&as_yhi=2021>
* <https://scholar.google.com/citations?user=xrx_gEIAAAAJ&hl=hu>
* (incl. Google Alerts – értesítés pl. új idézettségről, publikáció-fellelésről)
* …

Youtube:

* <http://miau.my-x.hu/miau/226/hangos-filmek-excel.docx>
* <https://miau.my-x.hu/miau2009/index.php3?x=e0&string=hangos>
* (vö. pl. Rosling-animáció, Google Squared demo)
* …

…

Jövőkép:

* Vajon a Google-Squared visszatér-e, produkál-e OAM-okat és kapcsolódik-e online elemző enginekhez (vö. COCO: <https://miau.my-x.hu/myx-free/>)
* Vajon a táblázatos tudásreprezentáció játékosítása (vö. oktatás/tanulástámogatás) fontos lesz-e a jövőben a Google számára: vö. <https://miau.my-x.hu/miau2009/index.php3?x=e0&string=2dm>
* Vajon a Google kínál-e fel manuális (deklaratív) online szakértői rendszerfejlesztést támogató keretrendszert (vezet-e le ilyen szabályelvű megoldásokat a rendelkezésére álló adatvagyonok alapján)? – vö. <https://miau.my-x.hu/myx-free/ego/>
* <https://www.wolframalpha.com/input/?i=google> (online Solver helyett/mellett)
* …

# Mellékletek

# **List of Google products**

From Wikipedia, the free encyclopedia

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The following is a list of products and services provided by Google LLC.



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* [5Mobile applications](https://en.wikipedia.org/wiki/List_of_Google_products#Mobile_applications)
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  + [6.2Models](https://en.wikipedia.org/wiki/List_of_Google_products#Models)
* [7Services](https://en.wikipedia.org/wiki/List_of_Google_products#Services)
* [8Scheduled to be discontinued](https://en.wikipedia.org/wiki/List_of_Google_products#Scheduled_to_be_discontinued)
  + [8.12021](https://en.wikipedia.org/wiki/List_of_Google_products#2021)
* [9Discontinued products and services](https://en.wikipedia.org/wiki/List_of_Google_products#Discontinued_products_and_services)
  + [9.12021](https://en.wikipedia.org/wiki/List_of_Google_products#2021_2)
  + [9.22020](https://en.wikipedia.org/wiki/List_of_Google_products#2020)
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  + [9.102012](https://en.wikipedia.org/wiki/List_of_Google_products#2012)
  + [9.112011](https://en.wikipedia.org/wiki/List_of_Google_products#2011)
  + [9.122010](https://en.wikipedia.org/wiki/List_of_Google_products#2010)
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## **Web-based products[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=1)**]**

### Search tools**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=2)**]**

* [Google Search](https://en.wikipedia.org/wiki/Google_Search) – a web [search engine](https://en.wikipedia.org/wiki/Search_engine) and Google's core product.
* [Google Alerts](https://en.wikipedia.org/wiki/Google_Alerts) – an email notification service that sends alerts based on chosen search terms whenever it finds new results. Alerts include web results, Google Groups results, news and videos.
* [Google Arts & Culture](https://en.wikipedia.org/wiki/Google_Arts_%26_Culture) – an online platform to view artworks and cultural artifacts.
* [Google Assistant](https://en.wikipedia.org/wiki/Google_Assistant) – a [virtual assistant](https://en.wikipedia.org/wiki/Virtual_assistant).
* [Google Bookmarks](https://en.wikipedia.org/wiki/Google_Bookmarks) – a free online bookmark storage service.
* [Google Books](https://en.wikipedia.org/wiki/Google_Books) – a website that lists published books and hosts a large, searchable selection of scanned books.
* [Google Dataset Search](https://en.wikipedia.org/wiki/Google_Dataset_Search) – allows searching for datasets in data repositories and local and national government websites.
* [Google Finance](https://en.wikipedia.org/wiki/Google_Finance) – searchable US business news, opinion, and financial data.
* [Google Flights](https://en.wikipedia.org/wiki/Google_Flights) – a search engine for flight tickets.
* [Google Images](https://en.wikipedia.org/wiki/Google_Images) – a search engine for images online.
* [Google News](https://en.wikipedia.org/wiki/Google_News) – automated news compilation service and search engine for news in more than 20 languages.
* [Google Patents](https://en.wikipedia.org/wiki/Google_Patents) – a search engine to search through millions of patents, each result with its own page, including drawings, claims and citations.
* [Google Scholar](https://en.wikipedia.org/wiki/Google_Scholar) – a search engine for the full text of scholarly literature across an array of publishing formats and scholarly fields. Includes virtually all [peer-reviewed journals](https://en.wikipedia.org/wiki/Academic_journal).
* [Google Shopping](https://en.wikipedia.org/wiki/Google_Shopping) – a search engine to search for products across online shops.
* [YouTube](https://en.wikipedia.org/wiki/YouTube) – a video hosting website.

### Advertising services**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=3)**]**

* [Google Ads](https://en.wikipedia.org/wiki/Google_Ads) – an online advertising platform.
* [AdMob](https://en.wikipedia.org/wiki/AdMob) – a mobile advertising network.
* [Google AdSense](https://en.wikipedia.org/wiki/Google_AdSense) – a contextual advertising program for web publishers that delivers text-based advertisements that are relevant to site content pages.
* [Google Ad Manager](https://en.wikipedia.org/wiki/Google_Ad_Manager) – an advertisement exchange platform.
* [Google Marketing Platform](https://en.wikipedia.org/wiki/Google_Marketing_Platform) - an online advertising and analytics platform.
* [Google Tag Manager](https://en.wikipedia.org/wiki/Google_Tag_Manager) – a [tag management system](https://en.wikipedia.org/wiki/Tag_management_system) to manage JavaScript and HTML tags, including web beacons, for web tracking and analytics.

### Communication and publishing tools**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=4)**]**

* [Blogger](https://en.wikipedia.org/wiki/Blogger_(service)) – a [weblog](https://en.wikipedia.org/wiki/Weblog) publishing tool.
* [FeedBurner](https://en.wikipedia.org/wiki/FeedBurner) – a tool in [news feed](https://en.wikipedia.org/wiki/News_feed) management services, including feed traffic analysis and advertising facilities.
* [Gmail](https://en.wikipedia.org/wiki/Gmail) – an email service.
* [Google Account](https://en.wikipedia.org/wiki/Google_Account) – controls how a user appears and presents themselves on Google products.
* [Google Calendar](https://en.wikipedia.org/wiki/Google_Calendar) – an online calendar with [Gmail](https://en.wikipedia.org/wiki/Gmail) integration, calendar sharing and a "quick add" function to create events using natural language.
* [Google Chat](https://en.wikipedia.org/wiki/Google_Chat) – an [instant messaging](https://en.wikipedia.org/wiki/Instant_messaging) software with a capability of creating multi-user "rooms".
* [Google Charts](https://en.wikipedia.org/wiki/Google_Charts) – an interactive, Web-based chart image generation from user-supplied JavaScript.
* [Google Classroom](https://en.wikipedia.org/wiki/Google_Classroom) – a [content management system](https://en.wikipedia.org/wiki/Content_management_system) for schools that aids in distribution and grading of assignments and providing in-class communication.
* [Google Currents](https://en.wikipedia.org/wiki/Google_Currents) – a digital bulletin board.
* [Google Docs Editors](https://en.wikipedia.org/wiki/Google_Docs_Editors) – a productivity [office suite](https://en.wikipedia.org/wiki/Productivity_software) with document collaboration and publishing capabilities. Tightly integrated with Google Drive.
  + [Google Docs](https://en.wikipedia.org/wiki/Google_Docs) – a [document](https://en.wikipedia.org/wiki/Word_processor) editing software.
  + [Google Sheets](https://en.wikipedia.org/wiki/Google_Sheets) – a [spreadsheet](https://en.wikipedia.org/wiki/Spreadsheet) editing software.
  + [Google Slides](https://en.wikipedia.org/wiki/Google_Slides) – a [presentation](https://en.wikipedia.org/wiki/Presentation_program) editing software.
  + [Google Drawings](https://en.wikipedia.org/wiki/Google_Drawings) – a [diagramming](https://en.wikipedia.org/wiki/Diagram) software.
  + [Google Forms](https://en.wikipedia.org/wiki/Google_Forms) – a [survey](https://en.wikipedia.org/wiki/Surveying) software.
  + [Google Sites](https://en.wikipedia.org/wiki/Google_Sites) – a [webpage](https://en.wikipedia.org/wiki/Web_page) creation and publication tool.
  + [Google Keep](https://en.wikipedia.org/wiki/Google_Keep) – a [note-taking](https://en.wikipedia.org/wiki/Note-taking) service.
* [Google Domains](https://en.wikipedia.org/wiki/Google_Domains) – a domain registration service, with website publishing partners.
* [Google Drive](https://en.wikipedia.org/wiki/Google_Drive) – a [file hosting service](https://en.wikipedia.org/wiki/File_hosting_service) with [synchronisation](https://en.wikipedia.org/wiki/Synchronization_(computer_science)) option; tightly integrated with Google Docs Editors
* [Google Fonts](https://en.wikipedia.org/wiki/Google_Fonts) – a [webfont](https://en.wikipedia.org/wiki/Webfonts) hosting service.
* [Google Groups](https://en.wikipedia.org/wiki/Google_Groups) – an online discussion service that also offers [Usenet](https://en.wikipedia.org/wiki/Usenet) access.
* [Google Meet](https://en.wikipedia.org/wiki/Google_Meet) – a video conferencing platform.
* [Google Translate](https://en.wikipedia.org/wiki/Google_Translate) – a service that allows carrying out machine translation of any text or web page between pairs of languages.
* [Google Voice](https://en.wikipedia.org/wiki/Google_Voice) – a [VoIP](https://en.wikipedia.org/wiki/Voice_over_IP) system that provides a phone number which can be forwarded to actual phone lines.

### Map-related products**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=5)**]**

* [Google Maps](https://en.wikipedia.org/wiki/Google_Maps) – mapping service that indexes streets and displays satellite and street-level imagery, providing directions and local business search.
* [Google My Maps](https://en.wikipedia.org/wiki/Google_My_Maps) – a social custom map making tool based on Google Maps.
* Google Maps Gallery – a collection of data and historic maps.
* [Google Mars](https://en.wikipedia.org/wiki/Google_Mars) – imagery of [Mars](https://en.wikipedia.org/wiki/Mars) using the Google Maps interface. Elevation, visible imagery and infrared imagery can be shown.
* [Google Moon](https://en.wikipedia.org/wiki/Google_Moon) – NASA imagery of the [moon](https://en.wikipedia.org/wiki/Moon) through the Google Maps interface.
* [Google Street View](https://en.wikipedia.org/wiki/Google_Street_View) – provides [interactive panoramas](https://en.wikipedia.org/wiki/Interactive_panorama) from positions along many streets in the world.
* [Google Sky](https://en.wikipedia.org/wiki/Google_Sky) – view planets, stars and galaxies.
* [Google Santa Tracker](https://en.wikipedia.org/wiki/Google_Santa_Tracker) – simulates tracking [Santa Claus](https://en.wikipedia.org/wiki/Santa_Claus) on Christmas Eve.

### Statistical tools**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=6)**]**

* [Google Analytics](https://en.wikipedia.org/wiki/Google_Analytics) – a traffic statistics generator for defined websites, with Google Ads integration. Webmasters can optimize ad campaigns, based on the statistics. Analytics are based on the [Urchin software](https://en.wikipedia.org/wiki/Urchin_(software)).
* [Google Surveys](https://en.wikipedia.org/wiki/Google_Surveys) – a market research tool.
* [Firebase](https://en.wikipedia.org/wiki/Firebase) – an open, [Creative Commons](https://en.wikipedia.org/wiki/Creative_Commons), attribution licensed collection of structured data, and a Freebase platform for accessing and manipulating that data via the Freebase [API](https://en.wikipedia.org/wiki/API).
* [Google Ngram Viewer](https://en.wikipedia.org/wiki/Google_Ngram_Viewer) – charts year-by-year frequencies of any set of comma-delimited strings in Google's text corpora.
* [Google Public Data Explorer](https://en.wikipedia.org/wiki/Google_Public_Data_Explorer) – a public data and forecasts from international organizations and academic institutions including the World Bank, [OECD](https://en.wikipedia.org/wiki/OECD), [Eurostat](https://en.wikipedia.org/wiki/Eurostat) and the University of Denver
* [TensorFlow](https://en.wikipedia.org/wiki/TensorFlow) – a [machine learning](https://en.wikipedia.org/wiki/Machine_learning) service that simplifies designing neural networks in an easier and more visible fashion
* [Google Trends](https://en.wikipedia.org/wiki/Google_Trends) – a graphing application for Web Search statistics, showing the popularity of particular search terms over time. Multiple terms can be shown at once. Results can be displayed by city, region or language. Related news stories are shown. Has "Google Trends for Websites" sub-section that shows popularity of websites over time.
* Google Activity Report – a monthly report including statistics about a user's Google usage, such as sign-in, third party authentication changes, Gmail usage, calendar, search history and YouTube.
* [Google Data Studio](https://en.wikipedia.org/wiki/Google_Data_Studio) - an online tool for converting data into customizable informative reports and dashboards.

### Business-oriented products**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=7)**]**

* [Google Workspace](https://en.wikipedia.org/wiki/Google_Workspace) – a suite of web applications for businesses, education providers and nonprofits that include customizable versions of several Google products accessible through a custom [domain name](https://en.wikipedia.org/wiki/Domain_name). Services include, but are not limited to, [Gmail](https://en.wikipedia.org/wiki/Gmail), [Google Contacts](https://en.wikipedia.org/wiki/Google_Contacts), [Google Calendar](https://en.wikipedia.org/wiki/Google_Calendar), [Google Docs Editors](https://en.wikipedia.org/wiki/Google_Docs_Editors), [Google Sites](https://en.wikipedia.org/wiki/Google_Sites), [Google Meet](https://en.wikipedia.org/wiki/Google_Meet), [Google Chat](https://en.wikipedia.org/wiki/Google_Chat), [Google Cloud Search](https://en.wikipedia.org/wiki/Google_Cloud_Search), and more.
* [Google My Business](https://en.wikipedia.org/wiki/Google_My_Business)
* [Google Tables](https://en.wikipedia.org/wiki/Google_Tables) (beta) - Business workflow automation tool

## **Developer tools[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=8)**]**

* [Accelerated Mobile Pages (AMP)](https://en.wikipedia.org/wiki/Accelerated_Mobile_Pages) – an open-source project and service to accelerate content on mobile devices.[[1]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-1)[[2]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-2)[[3]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-3) AMP provides a JavaScript library for developers and restricts the use of third-party JS.[[4]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-4)[[5]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-5)
* [Google App Engine](https://en.wikipedia.org/wiki/Google_App_Engine) – write and run web applications.
* [Google Developers](https://en.wikipedia.org/wiki/Google_Developers) – [open source](https://en.wikipedia.org/wiki/Open-source_software) code and lists of [API](https://en.wikipedia.org/wiki/API) services. Provided project hosting for [free and open source software](https://en.wikipedia.org/wiki/Free_and_open_source_software) until 2016.
* [Dart](https://en.wikipedia.org/wiki/Dart_(programming_language)) – a structured web programming language.
* [Flutter](https://en.wikipedia.org/wiki/Flutter_(software)) – a mobile cross platform development tool for [Android](https://en.wikipedia.org/wiki/Android_(operating_system)) and [iOS](https://en.wikipedia.org/wiki/IOS).
* [Go (programming language)](https://en.wikipedia.org/wiki/Go_(programming_language)) – a compiled, concurrent programming language.
* [OpenSocial](https://en.wikipedia.org/wiki/OpenSocial) – APIs for building social applications on many websites.
* [Google PageSpeed Tools](https://en.wikipedia.org/wiki/Google_PageSpeed_Tools) – optimize webpage performance.
* [Google Web Toolkit](https://en.wikipedia.org/wiki/Google_Web_Toolkit) – an open source Java software development framework that allows web developers to create Ajax applications in Java.
* [Google Search Console](https://en.wikipedia.org/wiki/Google_Search_Console) Sitemap – submission and analysis for the [Sitemaps](https://en.wikipedia.org/wiki/Sitemaps) protocol.
* GN – meta-build system generating [Ninja build configurations](https://en.wikipedia.org/wiki/Ninja_(build_system)). Replaced [GYP](https://en.wikipedia.org/wiki/GYP_(software)) in [Chromium](https://en.wikipedia.org/wiki/Chromium_(web_browser)).[[6]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-6)
* [Gerrit](https://en.wikipedia.org/wiki/Gerrit_(software)) – a code collaboration tool.
* [Googletest](https://en.wikipedia.org/wiki/Googletest) – testing framework in [C++](https://en.wikipedia.org/wiki/C%2B%2B).[[7]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-7)
* [Bazel](https://en.wikipedia.org/wiki/Bazel_(software)) – a [build system](https://en.wikipedia.org/wiki/Build_system).
* [FlatBuffers](https://en.wikipedia.org/wiki/FlatBuffers) – a serialization library.
* [Protocol Buffers](https://en.wikipedia.org/wiki/Protocol_Buffers) - a serialization library similar to FlatBuffers.
* [Shaderc](https://en.wikipedia.org/w/index.php?title=Shaderc&action=edit&redlink=1) - tools and library for compiling [HLSL](https://en.wikipedia.org/wiki/High-Level_Shading_Language) or [GLSL](https://en.wikipedia.org/wiki/OpenGL_Shading_Language) into [SPIRV](https://en.wikipedia.org/wiki/Standard_Portable_Intermediate_Representation).
* [American fuzzy lop](https://en.wikipedia.org/wiki/American_fuzzy_lop_(fuzzer)) – a security-oriented fuzzer.
* [Google Guava](https://en.wikipedia.org/wiki/Google_Guava) – core libraries for Java.
* [Google Closure Tools](https://en.wikipedia.org/wiki/Google_Closure_Tools) – JavaScript tools.
* Google Colaboratory – write Python code using a Jupyter notebook.

### Security tools**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=9)**]**

* [reCAPTCHA](https://en.wikipedia.org/wiki/ReCAPTCHA) – a user-dialogue system used to prevent bots from accessing websites.
* [Google Safe Browsing](https://en.wikipedia.org/wiki/Google_Safe_Browsing) – a blacklist service for web resources that contain malware or phishing content.
* Titan – a security hardware chip.[[8]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-8)[[9]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-9)
  + Titan Security Key – a [U2F](https://en.wikipedia.org/wiki/Universal_2nd_Factor) [security token](https://en.wikipedia.org/wiki/Security_token).[[10]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-10)
  + Titan M – used in [Pixel](https://en.wikipedia.org/wiki/Google_Pixel) smartphones starting with the [Pixel 3](https://en.wikipedia.org/wiki/Pixel_3).[[11]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-11)
  + Titan C – used in Google-made [Chromebooks](https://en.wikipedia.org/wiki/Chromebook) such as the [Pixel Slate](https://en.wikipedia.org/wiki/Pixel_Slate).[[12]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-12)

## **Operating systems[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=10)**]**

* [Android](https://en.wikipedia.org/wiki/Android_(operating_system)) – a [Linux](https://en.wikipedia.org/wiki/Linux)-based operating system for mobile devices such as smartphones and tablet computers by Google and the [Open Automotive Alliance](https://en.wikipedia.org/wiki/Open_Automotive_Alliance).
  + [Wear OS](https://en.wikipedia.org/wiki/Wear_OS) – a version of Android designed for smartwatches and other wearable items.
  + [Android Auto](https://en.wikipedia.org/wiki/Android_Auto) – a version of Android made for automobiles by Google.
  + [Android TV](https://en.wikipedia.org/wiki/Android_TV) – a version of Android made for smart TVs.
* [Chrome OS](https://en.wikipedia.org/wiki/Chrome_OS) – a Linux-based operating system for web applications.[[13]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-13)
* [Glass OS](https://en.wikipedia.org/wiki/Glass_OS) – an operating system for [Google Glass](https://en.wikipedia.org/wiki/Google_Glass).
* [Google Fuchsia](https://en.wikipedia.org/wiki/Google_Fuchsia) – an unreleased operating system predicted to be for laptops and smartphones.
* Google Pigweed – an unreleased operating system.

## **Desktop applications[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=11)**]**

* [AdWords Editor](https://en.wikipedia.org/wiki/AdWords_Editor) – desktop application to manage a [Google AdWords](https://en.wikipedia.org/wiki/Google_AdWords) account; lets users make changes to their account and advertising campaigns before synchronizing with the online service.
* [Drive File Stream](https://en.wikipedia.org/wiki/Google_Drive#Drive_File_Stream) – file synchronisation software that works with the business edition of [Google Drive](https://en.wikipedia.org/wiki/Google_Drive).
* [Google Chrome](https://en.wikipedia.org/wiki/Google_Chrome) – a [web browser](https://en.wikipedia.org/wiki/Web_browser).
* [Google Earth](https://en.wikipedia.org/wiki/Google_Earth) – virtual 3D globe that uses satellite imagery, aerial photography, [GIS](https://en.wikipedia.org/wiki/Geographic_information_system) from Google's repository.
* [Google Input Tools](https://en.wikipedia.org/wiki/Google_Input_Tools) – [Input method editor](https://en.wikipedia.org/wiki/Input_method_editor) that allows users to enter text in one of the supported languages using a Roman keyboard.[[14]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-14)
* [Google Japanese Input](https://en.wikipedia.org/wiki/Google_Japanese_Input) – Japanese [input method editor](https://en.wikipedia.org/wiki/Input_method_editor).
* [Google Pinyin](https://en.wikipedia.org/wiki/Google_Pinyin) – [input method editor](https://en.wikipedia.org/wiki/Input_method_editor) that is used to convert [Pinyin](https://en.wikipedia.org/wiki/Pinyin) characters, which can be entered on Western-style keyboards, to Chinese characters.
* [Google Toolbar](https://en.wikipedia.org/wiki/Google_Toolbar) – web browser toolbar with features such as a Google Search box, pop-up blocker and ability for website owners to create buttons.
* [Android Studio](https://en.wikipedia.org/wiki/Android_Studio) – [integrated development environment](https://en.wikipedia.org/wiki/Integrated_development_environment) for Android.
* [Google Web Designer](https://en.wikipedia.org/wiki/Google_Web_Designer) – [WYSIWYG](https://en.wikipedia.org/wiki/WYSIWYG) editor for making rich [HTML5](https://en.wikipedia.org/wiki/HTML5) pages and ads intended to run on multiple devices.
* [Backup and Sync](https://en.wikipedia.org/wiki/Google_Drive#Client) – client software to synchronize files between the user's computer and Google Drive storage.
* [Tilt Brush](https://en.wikipedia.org/wiki/Tilt_Brush) – painting game for the [Vive](https://en.wikipedia.org/wiki/HTC_Vive) and [Oculus Rift](https://en.wikipedia.org/wiki/Oculus_Rift).
* Google Trends Screensaver – a screensaver showing the [Google Trends](https://en.wikipedia.org/wiki/Google_Trends) in a customizable colorful grid for [macOS](https://en.wikipedia.org/wiki/MacOS) .

## **Mobile applications[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=12)**]**

*Main article:*[*List of Android apps by Google*](https://en.wikipedia.org/wiki/List_of_Android_apps_by_Google)

## **Hardware[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=13)**]**

### Product families**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=14)**]**

* [Google Pixel](https://en.wikipedia.org/wiki/Google_Pixel) – [smartphones](https://en.wikipedia.org/wiki/Smartphone), [tablets](https://en.wikipedia.org/wiki/Tablet_computer), [laptops](https://en.wikipedia.org/wiki/Laptop), [earbuds](https://en.wikipedia.org/wiki/Headphones), and other accessories.
* [Google Nest](https://en.wikipedia.org/wiki/Google_Nest) – [smart home](https://en.wikipedia.org/wiki/Home_automation) products including [smart speakers](https://en.wikipedia.org/wiki/Smart_speaker), [smart displays](https://en.wikipedia.org/wiki/Smart_displays), [digital media players](https://en.wikipedia.org/wiki/Digital_media_player), [smart doorbells](https://en.wikipedia.org/wiki/Smart_doorbell), [smart thermostats](https://en.wikipedia.org/wiki/Smart_thermostat), [smoke detectors](https://en.wikipedia.org/wiki/Smoke_detector), and [wireless routers](https://en.wikipedia.org/wiki/Wireless_router).
* [Google Chromecast](https://en.wikipedia.org/wiki/Google_Chromecast) – [digital media players](https://en.wikipedia.org/wiki/Digital_media_player).
* [Fitbit](https://en.wikipedia.org/wiki/Fitbit) – [activity trackers](https://en.wikipedia.org/wiki/Activity_tracker) and [smartwatches](https://en.wikipedia.org/wiki/Smartwatch).
* [Google Glass](https://en.wikipedia.org/wiki/Google_Glass) – [wearable computer](https://en.wikipedia.org/wiki/Wearable_computer) with an optical head-mounted display and camera that allows the wearer to interact with various applications and the Internet via natural language voice commands.
* [Stadia Controller](https://en.wikipedia.org/wiki/Google_Stadia) – [game controller](https://en.wikipedia.org/wiki/Game_controller) for [Stadia](https://en.wikipedia.org/wiki/Google_Stadia).
* [Jamboard](https://en.wikipedia.org/wiki/Jamboard) – 55" [interactive whiteboard](https://en.wikipedia.org/wiki/Interactive_whiteboard).

### Models**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=15)**]**

* [Nexus One](https://en.wikipedia.org/wiki/Nexus_One) – 3.7" phone running Android 2.3 "Gingerbread"
* [Nexus S](https://en.wikipedia.org/wiki/Nexus_S) – 4" phone running Android 4.1 "Jelly Bean"
* [Nest Learning Thermostat (first generation)](https://en.wikipedia.org/wiki/Nest_Learning_Thermostat) – smart thermostat
* [Galaxy Nexus](https://en.wikipedia.org/wiki/Galaxy_Nexus) – 4.7" phone running Android 4.3 "Jelly Bean"
* [Nexus Q](https://en.wikipedia.org/wiki/Nexus_Q) – media streaming entertainment device in the Google Nexus product family
* [Nexus 7 (2012)](https://en.wikipedia.org/wiki/Nexus_7_(2012)) – 7" tablet running Android 5.1 "Lollipop"
* [Nexus 10](https://en.wikipedia.org/wiki/Nexus_10) – 10" tablet running Android 5.1 "Lollipop"
* [Nest Learning Thermostat (second generation)](https://en.wikipedia.org/wiki/Nest_Learning_Thermostat) – smart thermostat
* [Nexus 4](https://en.wikipedia.org/wiki/Nexus_4) – 4.7" phone running Android 5.1 "Lollipop"
* [Chromebook Pixel (2013)](https://en.wikipedia.org/wiki/Chromebook_Pixel) — laptop running Chrome OS
* [Nexus 7 (2013)](https://en.wikipedia.org/wiki/Nexus_7_(2013)) – 7" tablet running Android 6.0 "Marshmallow"
* [Chromecast (first generation)](https://en.wikipedia.org/wiki/Chromecast) – media streaming adapter
* [Nexus 5](https://en.wikipedia.org/wiki/Nexus_5) – 4.95" phone running [Android](https://en.wikipedia.org/wiki/Android_(operating_system)) 6.0 "Marshmallow"
* [Nest Protect (first generation)](https://en.wikipedia.org/wiki/Google_Nest) – smoke alarm
* [Nexus 6](https://en.wikipedia.org/wiki/Nexus_6) – 5.96" phone running Android 7.1.1 "Nougat"[[15]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-15)
* [Nexus 9](https://en.wikipedia.org/wiki/Nexus_9) – 9" tablet running Android 7.1 "Nougat"
* [Nexus Player](https://en.wikipedia.org/wiki/Nexus_Player) – streaming media player running Android 8.0 "Oreo"
* [Chromebook Pixel (2015)](https://en.wikipedia.org/wiki/Chromebook_Pixel) — laptop running Chrome OS
* [Nest Cam Indoor](https://en.wikipedia.org/wiki/Google_Nest) – security camera
* [Nest Protect (second generation)](https://en.wikipedia.org/wiki/Google_Nest) – smoke alarm
* [Nest Learning Thermostat (third generation)](https://en.wikipedia.org/wiki/Nest_Learning_Thermostat) – smart thermostat
* [Nexus 5X](https://en.wikipedia.org/wiki/Nexus_5X) – 5" phone running Android 8.1 "Oreo"
* [Nexus 6P](https://en.wikipedia.org/wiki/Nexus_6P) – 5.7" phone running Android 8.1 "Oreo"[[16]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-16)
* [Pixel C](https://en.wikipedia.org/wiki/Pixel_C) – 10.2" convertible tablet running Android 8.1 "Oreo"
* [Chromecast (second generation)](https://en.wikipedia.org/wiki/Chromecast) – digital media player
* [Chromecast Audio](https://en.wikipedia.org/wiki/Chromecast_Audio) – audio streaming adapter
* [Nest Cam Outdoor](https://en.wikipedia.org/wiki/Google_Nest) – security camera
* [Pixel](https://en.wikipedia.org/wiki/Pixel_(smartphone)) – 5" smartphone running Android 10
* [Pixel XL](https://en.wikipedia.org/wiki/Pixel_(smartphone)) – 5.5" smartphone running Android 10
* [Daydream View (first generation)](https://en.wikipedia.org/wiki/Google_Daydream) – [virtual reality](https://en.wikipedia.org/wiki/Virtual_reality) headset for smartphones
* [Google Home](https://en.wikipedia.org/wiki/Google_Nest_(smart_speakers)) – smart speaker
* [Google Wifi](https://en.wikipedia.org/wiki/Google_Nest_Wifi) – wireless router
* [Chromecast Ultra](https://en.wikipedia.org/wiki/Chromecast_Ultra) – [4K](https://en.wikipedia.org/wiki/4K_resolution)-capable media streaming adapter
* [Nest Cam IQ Indoor](https://en.wikipedia.org/wiki/Google_Nest) – security camera
* [Nest Thermostat E](https://en.wikipedia.org/wiki/Nest_Learning_Thermostat) – smart thermostat
* [Nest Hello](https://en.wikipedia.org/wiki/Google_Nest) – smart video doorbell
* [Nest Cam IQ Outdoor](https://en.wikipedia.org/wiki/Google_Nest) – security camera
* [Nest × Yale](https://en.wikipedia.org/wiki/Google_Nest) – smart lock
* [Nest Secure](https://en.wikipedia.org/wiki/Google_Nest) – security system
  + Nest Guard
  + Nest Detect
  + Nest Tag
* [Pixel 2](https://en.wikipedia.org/wiki/Pixel_2) – 5" smartphone running Android 11
* [Pixel 2 XL](https://en.wikipedia.org/wiki/Pixel_2) – 6" smartphone running Android 11
* [Daydream View (second generation)](https://en.wikipedia.org/wiki/Google_Daydream) – [virtual reality](https://en.wikipedia.org/wiki/Virtual_reality) headset for smartphones
* [Home Mini](https://en.wikipedia.org/wiki/Google_Nest_(smart_speakers)) – smart speaker
* [Home Max](https://en.wikipedia.org/wiki/Google_Nest) – smart speaker
* [Pixel Buds (first generation)](https://en.wikipedia.org/wiki/Pixel_Buds) – wireless earbuds
* [Pixelbook](https://en.wikipedia.org/wiki/Google_Pixelbook) – laptop running Chrome OS
* [Pixel 3](https://en.wikipedia.org/wiki/Pixel_3) – 5.5" smartphone running Android 11
* [Pixel 3 XL](https://en.wikipedia.org/wiki/Pixel_3) – 6.3" smartphone running Android 11
* [Pixel Slate](https://en.wikipedia.org/wiki/Pixel_Slate) – [2-in-1 PC](https://en.wikipedia.org/wiki/2-in-1_PC) running Chrome OS
* [Pixel Stand](https://en.wikipedia.org/wiki/Google_Pixel) – wireless charger
* [Nest Hub](https://en.wikipedia.org/wiki/Google_Nest_(smart_speakers)) – smart display
* [Chromecast (third generation)](https://en.wikipedia.org/wiki/Chromecast) – media streaming adapter
* [Stadia Controller](https://en.wikipedia.org/wiki/Google_Stadia) – gaming controller for Stadia
* [Pixel 3a](https://en.wikipedia.org/wiki/Pixel_3a) – 5.6" smartphone running Android 11
* [Pixel 3a XL](https://en.wikipedia.org/wiki/Pixel_3a) – 6" smartphone running Android 11
* [Nest Hub Max](https://en.wikipedia.org/wiki/Google_Nest_(smart_speakers)) – smart display
* [Pixel 4](https://en.wikipedia.org/wiki/Pixel_4) – 5.7" smartphone running Android 11
* [Pixel 4 XL](https://en.wikipedia.org/wiki/Pixel_4) – 6.3" smartphone running Android 11
* [Pixelbook Go](https://en.wikipedia.org/wiki/Pixelbook_Go) – laptop running Chrome OS
* [Nest Mini](https://en.wikipedia.org/wiki/Google_Nest_(smart_speakers)) – smart speaker
* [Nest Wifi](https://en.wikipedia.org/wiki/Google_Nest_Wifi) – wireless router
* [Pixel Buds (second generation)](https://en.wikipedia.org/wiki/Pixel_Buds) – wireless earbuds
* [Pixel 4a](https://en.wikipedia.org/wiki/Pixel_4a) – 5.8" smartphone running Android 11
* [Pixel 4a (5G)](https://en.wikipedia.org/wiki/Pixel_4a) – 6.2" smartphone running Android 11
* [Pixel 5](https://en.wikipedia.org/wiki/Pixel_5) – 6" smartphone running Android 11
* [Nest Audio](https://en.wikipedia.org/wiki/Google_Nest_(smart_speakers)) – smart speaker
* [Chromecast with Google TV](https://en.wikipedia.org/wiki/Chromecast_with_Google_TV) – media streaming adapter
* [Nest Thermostat](https://en.wikipedia.org/wiki/Nest_Learning_Thermostat) – smart thermostat

## **Services[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=16)**]**

* [Google Cloud Platform](https://en.wikipedia.org/wiki/Google_Cloud_Platform) – a modular cloud-based services for software development.
* [Google Crisis Response](https://en.wikipedia.org/wiki/Google_Crisis_Response) – a public project that covers disasters, turmoils and other emergencies and alerts.
* [Google Fi](https://en.wikipedia.org/wiki/Google_Fi) – a [MVNO](https://en.wikipedia.org/wiki/Mobile_virtual_network_operator) aimed at simple plans and pricing.
* [Google Fiber](https://en.wikipedia.org/wiki/Google_Fiber) – an experimental broadband internet network infrastructure using fiberoptic communication in Kansas City, [Provo](https://en.wikipedia.org/wiki/Provo,_Utah) and [Austin](https://en.wikipedia.org/wiki/Austin,_Texas).
* [Google Get Your Business Online](https://en.wikipedia.org/wiki/Google_Get_Your_Business_Online) – increase the web presence of small businesses and cities. Advice on [search engine optimization](https://en.wikipedia.org/wiki/Search_engine_optimization) and maintaining business owners update their business profile.[[17]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-17)
* [Google Public DNS](https://en.wikipedia.org/wiki/Google_Public_DNS) – a publicly accessible [DNS](https://en.wikipedia.org/wiki/Domain_Name_System) server.
* [Google Person Finder](https://en.wikipedia.org/wiki/Google_Person_Finder) – an open-source tool that helps people reconnect with others in the aftermath of a disaster.
* [Google Firebase](https://en.wikipedia.org/wiki/Google_Firebase) – a real time database that provides an [API](https://en.wikipedia.org/wiki/API) that allows developers to store and sync data across multiple clients.
* [Google Cast](https://en.wikipedia.org/wiki/Google_Cast) – a display entertainment and apps from a phone, tablet or laptop right on a TV or speakers.[[18]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-18)
* [Google Pay](https://en.wikipedia.org/wiki/Google_Pay) – a [digital wallet](https://en.wikipedia.org/wiki/Digital_wallet) platform and [online payment](https://en.wikipedia.org/wiki/E-commerce_payment_system) system
* [Stadia](https://en.wikipedia.org/wiki/Google_Stadia) – a video game streaming service.
* [YouTube TV](https://en.wikipedia.org/wiki/YouTube_TV) – an over-the-top internet television service that offers live TV.

## **Scheduled to be discontinued[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=17)**]**

Applications that are no longer in development, and scheduled to be discontinued in the future:

### 2021**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=18)**]**

* [Google Clips](https://en.wikipedia.org/wiki/Google_Clips) – a miniature clip-on camera device. Pulled from Google Store on October 15, 2019.[[19]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-19) Google has said that the product will be supported until December 2021.[[20]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-dead-20)
* [AngularJS](https://en.wikipedia.org/wiki/AngularJS) – Open source web application framework. Scheduled to be shut down on December 31, 2021.[[21]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-21)
* [Poly](https://en.wikipedia.org/wiki/Poly_(website)) – a service to browse, share and download [3D models](https://en.wikipedia.org/wiki/3D_modeling).[[22]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-22) Scheduled to be shut down on June 30, 2021.
* [Google Hangouts](https://en.wikipedia.org/wiki/Google_Hangouts) – Instant Messaging service. Scheduled to be shut down in early 2021.[[23]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-23)

## **Discontinued products and services[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=19)**]**

Google has retired many offerings, either because of obsolescence, integration into other Google products, or lack of interest.[[24]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-24) Google's discontinued offerings are colloquially referred to as Google Graveyard.[[25]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-25)[[26]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-26)

### 2021**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=20)**]**

* [Google App Maker](https://en.wikipedia.org/wiki/Google_App_Maker) – allowed users to develop apps for businesses. Shut down on January 19, 2021.[[27]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-27)

### 2020**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=21)**]**

* [Google Cloud Print](https://en.wikipedia.org/wiki/Google_Cloud_Print) – a cloud-based printing solution that has been in beta since 2010. Discontinued on December 31, 2020.[[28]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-:GCPD-28)[[29]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-29)
* [Google Play Music](https://en.wikipedia.org/wiki/Google_Play_Music) – Google's music streaming service. Discontinued on December 3 and replaced by [YouTube Music](https://en.wikipedia.org/wiki/YouTube_Music) and [Google Podcasts](https://en.wikipedia.org/wiki/Google_Podcasts).[[30]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-30)[[31]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-31)
* Nest Guard – a security system with an alarm, keypad, and motion sensor with embedded microphone. Discontinued and removed from Google Store in October 2020, though it will continue functioning.[[32]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-32)
* [Google Station](https://en.wikipedia.org/wiki/Google_Station) – service that allowed users to Spread Wi-Fi hotspots. Shut down on September 30.[[33]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-33)
* Hire by Google – applicant tracking system & recruiting software. Shut down on September 1.[[34]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-34)[[35]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-35)
* Password Checkup – an extension that warned of breached third-party logins. Shut down in July after it had been integrated with Chrome.
* Google Photos Print – a subscription service that automatically selected the best ten photos from the last thirty days which were mailed to users' homes. Shut down in June.
* Shoelace – an app used to find group activities with others who share your interests. Shut down in May.
* Neighbourly – experimental mobile app designed to help you learn about your neighborhood by asking other residents. Shut down on May 12.
* Fabric – modular [SDK](https://en.wikipedia.org/wiki/Software_development_kit) platform launched by [Crashlytics](https://en.wikipedia.org/wiki/Crashlytics) in 2014. Google acquired Crashlytics in 2017 and announced plans to migrate all of its features to [Firebase](https://en.wikipedia.org/wiki/Firebase). It was shut down on May 4, 2020.[[36]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-36)
* Material Theme Editor – plugin for Sketch app which allowed you to create a material based design system for your app. Discontinued in March.
* Google Chrome Apps – hosted or packaged web applications that ran on the Google Chrome browser. Discontinued in March.
* One Today – an app that allowed users to donate $1 to different organizations and discover how their donation would be used. Discontinued in January.
* Androidify – allowed users to create a custom Android avatar. Discontinued in January.

### 2019**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=22)**]**

* [Chromecast Audio](https://en.wikipedia.org/wiki/Chromecast#Chromecast_Audio) – a variation of the second-generation Chromecast designed for use with audio streaming apps. Discontinued in January 2019.[[37]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-37)
* [YouTube Annotations](https://en.wikipedia.org/wiki/YouTube#Annotations) – annotations that were displayed over videos on YouTube. On January 15, all existing annotations were removed from YouTube.[[38]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-38)
* Mr. Jingles – Google's notifications widget. Discontinued on March 7.[[39]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-39)
* [Google Allo](https://en.wikipedia.org/wiki/Google_Allo) – Google's instant messaging app. Discontinued on March 12, 2019.[[40]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-40)
* Google Image Charts – a chart-making service that provided images of rendered chart data, accessed with [REST](https://en.wikipedia.org/wiki/Representational_state_transfer) calls. The service was deprecated in 2012, temporarily disabled in February 2019 and discontinued on March 18, 2019.[[41]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-41)[[42]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-G-ImageCharts-42)
* [goo.gl](https://en.wikipedia.org/wiki/Google_URL_Shortener) – a URL shortening service. Started to turn down support on March 30, 2018, and was discontinued on March 30, 2019.[[43]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-engadget-goo-gl-43)
* [Inbox by Gmail](https://en.wikipedia.org/wiki/Inbox_by_Gmail) – an email application for Android, iOS, and web platform that organized and automated to-do lists using email content. As of April 2, 2019, accessing the Inbox subdomain redirects to [Gmail](https://en.wikipedia.org/wiki/Gmail) proper.[[44]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-44)
* [Google+](https://en.wikipedia.org/wiki/Google%2B) – The consumer edition of Google's social media platform. As of April 2, 2019, users receive a message stating that "Google+ is no longer available for consumer (personal) and brand accounts".[[45]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-45)[[46]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-46)
* Google Jump – cloud-based video stitching service. Discontinued June 28.[[47]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-47)
* [Works with Nest](https://en.wikipedia.org/wiki/Google_Nest#Works_with_Nest) – the [smart home](https://en.wikipedia.org/wiki/Smart_home) platform of Google brand [Nest](https://en.wikipedia.org/wiki/Google_Nest).[[48]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-48) Users were asked to migrate to the [Google Assistant](https://en.wikipedia.org/wiki/Google_Assistant) platform.[[49]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-G-WWN-49) Support ended on August 31, 2019.[[50]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-50)
* YouTube for [Nintendo 3DS](https://en.wikipedia.org/wiki/Nintendo_3DS) – official app for Nintendo 3DS. Discontinued on September 3.[[51]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-51)
* YouTube Messages – direct messages on YouTube – discontinued after September 18.[[52]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-52)
* YouTube Leanback – a web application for control with a remote, intended for use with smart TVs and other similar devices. Discontinued on October 2, 2019.[[53]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-53)
* [Google Daydream View](https://en.wikipedia.org/wiki/Google_Daydream#Second_generation_Daydream_View) – Google's VR headset (first-gen in late 2016, second-gen in late 2017) was discontinued just after their "Made by Google" event in October 2019. The [Google Daydream](https://en.wikipedia.org/wiki/Google_Daydream) platform itself is being retired also.[[54]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-54)
* Touring Bird – Travel website which facilitated booking tours, tickets and activities in top locations. The service was shut down on November 17, 2019.[[55]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-55)
* Google Bulletin – "Hyperlocal" news service which allowed users to post news from their neighborhood. It was shut down on November 22, 2019.[[56]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-56)
* [Google Fusion Tables](https://en.wikipedia.org/wiki/Google_Fusion_Tables) – A service for managing and visualizing data. The service was shut down on December 3, 2019.[[57]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-57)
* [Google Translator Toolkit](https://en.wikipedia.org/wiki/Google_Translator_Toolkit) – An online [computer-assisted translation](https://en.wikipedia.org/wiki/Computer-assisted_translation) [tool](https://en.wikipedia.org/wiki/Comparison_of_computer-assisted_translation_tools) designed to allow translators to edit the translations that are automatically generated by [Google Translate](https://en.wikipedia.org/wiki/Google_Translate). It was shut down on December 4, 2019, citing declining usage and the availability of other similar tools.[[58]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-58)
* Google Correlate – finds search patterns which correspond with real-world trends. It was shut down on December 15, 2019, as a result of low usage.[[59]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-59)
* [Google Search Appliance](https://en.wikipedia.org/wiki/Google_Search_Appliance) – A rack mounted device used to index documents. Hardware sales ended in 2017 and initial shutdown occurred in 2018;[[60]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-:0-60) and was ultimately shut down on December 31, 2019.[[61]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-61)
* [Google Native Client](https://en.wikipedia.org/wiki/Google_Native_Client) (NaCL/PNaCl) – sandboxing technology for running a subset of native code. It was discontinued on December 31, 2019.
* Datally – Lets users save mobile data – Removed from Play Store in October 2019.[[62]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-62)
* Build with Chrome – an initiative between [Lego](https://en.wikipedia.org/wiki/Lego) and Google to build the world using Lego.[[63]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-63) It was discontinued in March 2019

### 2018**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=23)**]**

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| --- | --- |
|  | This section **is missing information** about the discontinuation date of each product in this section. Please expand the section to include this information. Further details may exist on the [talk page](https://en.wikipedia.org/wiki/Talk:List_of_Google_products). *(October 2013)* |

* Blogger Web Comments ([Firefox](https://en.wikipedia.org/wiki/Firefox) only) – displays related comments from other [Blogger](https://en.wikipedia.org/wiki/Blogger_(service)) users.
* Google Portfolios – Personal financial securities tracker. Deprecated in November 2017. Reached end of life as of January 2018.[[64]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-64)
* City Tours – overlay to Maps that shows interesting tours within a city
* Dashboard Widgets for Mac ([Mac OS X Dashboard](https://en.wikipedia.org/wiki/Mac_OS_X_Dashboard) Widgets) – suite of mini-applications including [Gmail](https://en.wikipedia.org/wiki/Gmail), [Blogger](https://en.wikipedia.org/wiki/Blogger_(service)) and Search History.
* Joga Bonito – soccer community site.
* Local – Local listings service, merged with Google Maps.
* MK-14 – 4U rack-mounted server for Google Radio Automation system. Google sold its Google Radio Automation business to WideOrbit Inc.[[65]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-65)
* [Google Music Trends](https://en.wikipedia.org/wiki/Google_Trends) – music ranking of songs played with iTunes, Winamp, Windows Media Player and Yahoo Music. Trends were generated by [Google Talk](https://en.wikipedia.org/wiki/Google_Talk)'s "share your music status" feature.
* [Google Personalized Search](https://en.wikipedia.org/wiki/Google_Personalized_Search) – search results personalization, merged with Google Accounts and Web History.
* Photos Screensaver – slideshow [screensaver](https://en.wikipedia.org/wiki/Screensaver) as part of Google Pack, which displays images sourced from a [hard disk](https://en.wikipedia.org/wiki/Hard_disk), or through [RSS](https://en.wikipedia.org/wiki/RSS) and [Atom](https://en.wikipedia.org/wiki/Atom_(standard)) Web feeds.
* Rebang (Google China) – search trend site, similar to Google Zeitgeist. As of 2010, part of Google Labs.[[66]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-66)[[67]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-67)
* [Spreadsheets](https://en.wikipedia.org/wiki/SpreadsheetML) – spreadsheet management application, before it was integrated with Writely to form Google Docs & Spreadsheets.
* University Search – search engine listing for university websites.
* U.S. Government Search – search engine and personalized homepage that exclusively draws from sites with a [.gov](https://en.wikipedia.org/wiki/.gov) [TLD](https://en.wikipedia.org/wiki/TLD). Discontinued June 2006.
* [Video Player](https://en.wikipedia.org/wiki/Google_Video_Player) – view videos from Google Video.
* [Voice Search](https://en.wikipedia.org/wiki/Voice_Search) – automated voice system for web search using the telephone. Became Google Voice Local Search and integrated on the Google Mobile web site.
* Google x – redesigned Google search homepage. It appeared in Google Labs, but disappeared the following day for undisclosed reasons.[[68]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-68)
* Accessible Search – search engine for the visually impaired.
* [Quick Search Box](https://en.wikipedia.org/wiki/Google_Quick_Search_Box) – search box, based on [Quicksilver](https://en.wikipedia.org/wiki/Quicksilver_(software)), easing access to installed applications and online searches.
* Visigami – image search application screen saver that searches files from [Google Images](https://en.wikipedia.org/wiki/Google_Images), [Picasa](https://en.wikipedia.org/wiki/Picasa) and [Flickr](https://en.wikipedia.org/wiki/Flickr).
* [Wireless access](https://en.wikipedia.org/wiki/Google_WiFi#Wireless_access) – [VPN](https://en.wikipedia.org/wiki/VPN) client for [Google WiFi](https://en.wikipedia.org/wiki/Google_WiFi) users, whose equipment does not support [WPA](https://en.wikipedia.org/wiki/Wi-Fi_Protected_Access) or [802.1x](https://en.wikipedia.org/wiki/802.1x) protocols.
* [Google Play Newsstand](https://en.wikipedia.org/wiki/Google_Play_Newsstand) – News publication and magazine store. Replaced by Google News on May 15, removed from Google Play on November 5, and magazines were no longer available on Google News since January 2020.
* Google News and Weather – News publication app. Merged by Google News on May 15.
* Google global market finder
* QPX Express API – flight search API[[69]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-69)
* [Google Contact Lens](https://en.wikipedia.org/wiki/Google_Contact_Lens) – was a smart [contact lens](https://en.wikipedia.org/wiki/Contact_lens) project capable of monitoring the user's glucose level in tears. On November 16, 2018, [Verily](https://en.wikipedia.org/wiki/Verily) announced it has discontinued the project because of the lack of correlation between tear glucose and blood glucose.[[70]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-DiscontinueBlog-70)

### 2017**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=24)**]**

* Google Maps Engine – develop geospatial applications. Discontinued February 1.
* [Google Swiffy](https://en.wikipedia.org/wiki/Google_Swiffy) – convert [Adobe Flash](https://en.wikipedia.org/wiki/Adobe_Flash) files ([SWF](https://en.wikipedia.org/wiki/SWF)) into [HTML5](https://en.wikipedia.org/wiki/HTML5). Discontinued July 1.
* [Google Nexus](https://en.wikipedia.org/wiki/Google_Nexus) – Smartphone lineup – replaced by Google Pixel on October 4
* Free Search – embed site/web search into a user's website. Replaced by [Google Custom Search](https://en.wikipedia.org/wiki/Google_Custom_Search).[[71]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-71)
* Google Hands Free – retail checkout without using your phone or watch. Pilot started in the Bay area March 2016, but discontinued on February 8.[[72]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-72)
* [Google Spaces](https://en.wikipedia.org/wiki/Google_Spaces) – group discussions and messaging. Discontinued on April 17.[[73]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-73)
* [Google Map Maker](https://en.wikipedia.org/wiki/Google_Map_Maker) – map editor with browser interface. Discontinued on April 1, replaced by Google Maps and Google Local Guides.
* [Trendalyzer](https://en.wikipedia.org/wiki/Trendalyzer) – data trend viewing platform. Discontinued in September.[[74]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-74)

### 2016**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=25)**]**

* [Google Code](https://en.wikipedia.org/wiki/Google_Developers#Google_Code) – Open source code hosting. Discontinued on January 25 and renamed to Google Developers.[[75]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-75)
* [Picasa](https://en.wikipedia.org/wiki/Picasa) – photo organization and editing application. Closed March 15 and replaced by [Google Photos](https://en.wikipedia.org/wiki/Google_Photos).[[76]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-76)
* Google Compare – comparison-shopping site for auto insurance, credit cards and mortgages[[77]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-77)
* Google Showtimes – movie showtime search engine. Discontinued on November 1.[[78]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-78)
* [MyTracks](https://en.wikipedia.org/wiki/MyTracks) – GPS logging. Shut down April 30.[[79]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-79)
* [Project Ara](https://en.wikipedia.org/wiki/Project_Ara) – an "initiative to build a phone with interchangeable modules for various components like cameras and batteries"[[80]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-80) was suspended to "streamline the company's seemingly disorganized product lineup".[[81]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-81) on September 2.
* [Panoramio](https://en.wikipedia.org/wiki/Panoramio) – [geolocation-oriented](https://en.wikipedia.org/wiki/Geotagging) [photo sharing](https://en.wikipedia.org/wiki/Photo_sharing) website. Discontinued on November 4.[[82]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-82) Google's Local Guides program as well as photo upload tools in Google Maps rendered Panoramio redundant.
* Google Feed API – download public Atom or RSS feeds using JavaScript. Deactivated on December 15.[[83]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-83)

### 2015**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=26)**]**

* [Google Moderator](https://en.wikipedia.org/wiki/Google_Moderator) – rank user-submitted questions, suggestions and ideas via crowdsourcing.[[84]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-84) Discontinued on June 30.
* Wildfire by Google – social media marketing software[[85]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-85)
* [BebaPay](https://en.wikipedia.org/wiki/BebaPay) – prepaid ticket payment system. Discontinued on March 15.[[86]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-86)
* [Google Helpouts](https://en.wikipedia.org/wiki/Google_Helpouts) – Hangout-based live video chat with experts. Discontinued on April 20.[[87]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-87)
* Google Earth Enterprise – Google Earth for enterprise use. Discontinued on March 20.
* Google Earth Plugin – customize Google Earth. Discontinued on December 15.
* [Speak To Tweet](https://en.wikipedia.org/wiki/Speak_To_Tweet) – telephone service created in 2011 in collaboration with Twitter and SayNow allowing users to phone a specific number and leave a [voicemail](https://en.wikipedia.org/wiki/Voicemail); a tweet was automatically posted on [Twitter](https://en.wikipedia.org/wiki/Twitter). Discontinued sometime during 2015.

### 2014**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=27)**]**

* [Google Schemer](https://en.wikipedia.org/wiki/Google_Schemer) – social search to find local activities. Discontinued on February 7.
* Google Notifier – alerted users to new messages in their Gmail account. Discontinued on January 31.[[88]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-88)
* YouTube My Speed. Discontinued in January, replaced by Google Video Quality Report.
* [Orkut](https://en.wikipedia.org/wiki/Orkut) – social networking website. Discontinued on September 30.
* [Quickoffice](https://en.wikipedia.org/wiki/Quickoffice) – productivity suite for mobile devices. Discontinued in June, merged into Google Drive.
* [Google TV](https://en.wikipedia.org/wiki/Google_TV) – smart TV platform based on Android. Discontinued and replaced by [Android TV](https://en.wikipedia.org/wiki/Android_TV) in June.
* Google's "discussion search" option. Discontinued in July.[[89]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-89)
* [Google Questions and Answers](https://en.wikipedia.org/wiki/Google_Questions_and_Answers) – community-driven knowledge market website. Discontinued on December 1.[[90]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-90)[[91]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-91)
* [Google Offers](https://en.wikipedia.org/wiki/Google_Offers) – service offering discounts and coupons.

### 2013**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=28)**]**

* [Google Cloud Connect](https://en.wikipedia.org/wiki/Google_Cloud_Connect) – [Microsoft Office](https://en.wikipedia.org/wiki/Microsoft_Office) [plugin](https://en.wikipedia.org/wiki/Plug-in_(computing)) for automatically backing up Office documents upon saving onto Google Docs. Discontinued on April 30, in favor of Google Drive.[[92]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-spring_two-92)
* [Google Building Maker](https://en.wikipedia.org/wiki/Google_Building_Maker) – web-based building and editing tool to create 3D buildings for Google Earth. Discontinued on June 4.
* Google Calendar Sync – sync Microsoft Outlook email and calendar with Gmail and Google Calendar. Synchronization for existing installations stopped on August 1, 2014. Replaced with Google Sync, which does not synchronize Outlook calendars, but can sync email using IMAP or POP3. Also, Google Apps for Business, Education, and Government customers can use Google Apps Sync for Microsoft Outlook[[93]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-93)
* [Meebo](https://en.wikipedia.org/wiki/Meebo) – A social networking website discontinued on June 6
* [Google Reader](https://en.wikipedia.org/wiki/Google_Reader) – web-based [news aggregator](https://en.wikipedia.org/wiki/News_aggregator), capable of reading [Atom](https://en.wikipedia.org/wiki/Atom_(standard)) and [RSS](https://en.wikipedia.org/wiki/RSS_(file_format)) feeds. Discontinued on July 1.[[92]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-spring_two-92)
* [Google Latitude](https://en.wikipedia.org/wiki/Google_Latitude) – mobile geolocation tool that lets friends know where users are. Discontinued on August 9, with some functionality moved to Google+.[[94]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-94)
* [Google Talk](https://en.wikipedia.org/wiki/Google_Talk) – instant messaging service that provided both text and voice communication. Replaced May 15 by [Google Hangouts](https://en.wikipedia.org/wiki/Google_Hangouts).
* SMS Search – mobile phone [short message service](https://en.wikipedia.org/wiki/Short_message_service). Discontinued on May 10.[[95]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-95)
* [iGoogle](https://en.wikipedia.org/wiki/IGoogle) – customisable homepage, which can contain [web feeds](https://en.wikipedia.org/wiki/Web_feed) and Google Gadgets. Discontinued on November 1.[[96]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-96)
* [Google Checkout](https://en.wikipedia.org/wiki/Google_Checkout) – online payment processing service, aimed at simplifying the process of paying for online purchases. Discontinued on November 20, merged into Google Wallet.
* [Google Currents](https://en.wikipedia.org/wiki/Google_Currents_(2011-2013)) – Magazine app. Merged into Google Play Newsstand on November 20.
* My Maps, GIS tools for Google Maps.

### 2012**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=29)**]**

* [Google Notebook](https://en.wikipedia.org/wiki/Google_Notebook) – online note-taking and web-clipping application.[[97]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-97) Discontinued in July.
* [Google Apps](https://en.wikipedia.org/wiki/Google_Apps) Standard Edition – Discontinued on December 6.[[98]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-98)
* [Google Code Search](https://en.wikipedia.org/wiki/Google_Code_Search) – software search engine. Discontinued on January 15.[[99]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-99)
* [Google Health](https://en.wikipedia.org/wiki/Google_Health) – store, manage, and share personal health information in one place. Development ceased June 24, 2011; accessible until January 1, 2012; data available for download until January 1, 2013.
* [Google Video](https://en.wikipedia.org/wiki/Google_Video) – a free [video hosting service](https://en.wikipedia.org/wiki/Video_hosting_service). Shut down and migrated to YouTube on August 20.[[100]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-100)
* [Google Website Optimizer](https://en.wikipedia.org/wiki/Google_Website_Optimizer) – testing and optimization tool. Discontinued on August 1.[[101]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-101)
* TV Ads – Method to place advertising on TV networks. Discontinued on August 30,[[102]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-102) with all remaining active campaigns ending December 16.[[103]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-103)
* [Google Friend Connect](https://en.wikipedia.org/wiki/Google_Friend_Connect) – add social features to websites. Discontinued on March 1, replaced by [Google+](https://en.wikipedia.org/wiki/Google%2B)'s pages and off-site Page badges.[[104]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-more_spring_cleaning-104)
* [Google Insights for Search](https://en.wikipedia.org/wiki/Google_Insights_for_Search) – insights into Google search term usage. Discontinued September 27, merged in Google Trends.
* [Knol](https://en.wikipedia.org/wiki/Knol) – write authoritative articles related to various topics. Discontinued October 1.[[104]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-more_spring_cleaning-104)
* [Google Wave](https://en.wikipedia.org/wiki/Google_Wave) – online communication and [collaborative real-time editor](https://en.wikipedia.org/wiki/Collaborative_real-time_editor) tool that bridge email and chat. Support ended on April 30, 2012.[[104]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-more_spring_cleaning-104)
* [Picnik](https://en.wikipedia.org/wiki/Picnik) – online photo editor. Discontinued on April 19,[[105]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-Picnik_is_closing-105) moved to Google+ photo manager.
* [Jaiku](https://en.wikipedia.org/wiki/Jaiku) – [social networking](https://en.wikipedia.org/wiki/Social_networking), [microblogging](https://en.wikipedia.org/wiki/Microblogging) and [lifestreaming](https://en.wikipedia.org/wiki/Lifestreaming) service comparable to Twitter. Shut down January 15.
* [Nexus Q](https://en.wikipedia.org/wiki/Nexus_Q) – [digital media player](https://en.wikipedia.org/wiki/Digital_media_player). Discontinued in November.
* Slide.com – Discontinued on March 6.[[106]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-106)
* [Google Mini](https://en.wikipedia.org/wiki/Google_Mini) – reduced capacity, lower-cost version of the Google Search Appliance. Discontinued on July 31.[[107]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-summer_cleaning-107)
* [Picasa Web Albums Uploader](https://en.wikipedia.org/wiki/Picasa_Web_Albums_Uploader) – upload images to the "[Picasa](https://en.wikipedia.org/wiki/Picasa) Web Albums" service. It consisted of an [iPhoto](https://en.wikipedia.org/wiki/IPhoto) plug-in and a stand-alone application.[[108]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-108)
* [Google Chart API](https://en.wikipedia.org/wiki/Google_Chart_API) – interactive Web-based chart image generator, deprecated in 2012 with service commitment to 2015 and still serving as of 2017. Google promotes JavaScript-based [Google Charts](https://en.wikipedia.org/wiki/Google_Charts) as a replacement, which is not backwards-compatible with the Google Chart API's HTTP methods.
* Listen – subscribe to and stream podcasts and Web audio. Discontinued in August.[[109]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-109)
* [BumpTop](https://en.wikipedia.org/wiki/BumpTop) – physics-based desktop application. Discontinued in August.[[110]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-110)
* [Google Refine](https://en.wikipedia.org/wiki/OpenRefine) – data cleansing and processing. It was spun off from Google on October 2, becoming open source; it is now OpenRefine.
* Yinyue (*Music*) ([Google China](https://en.wikipedia.org/wiki/Google_China)) – site linking to a large archive of Chinese pop-music (principally [Cantopop](https://en.wikipedia.org/wiki/Cantopop) and [Mandopop](https://en.wikipedia.org/wiki/Mandopop)), including audio streaming over Google's own player, legal lyric downloads, and in most cases legal MP3 downloads. The archive was provided by Top100.cn (i.e., this service does not search the whole Internet) and was available in [mainland China](https://en.wikipedia.org/wiki/Mainland_China) only. Discontinued in September, users were given the option to download playlists until October 19.[[111]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-111)

### 2011**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=30)**]**

* [Google Labs](https://en.wikipedia.org/wiki/Google_Labs) – test and demonstrate new Google products. Discontinued in July.
* [Google Buzz](https://en.wikipedia.org/wiki/Google_Buzz) – social networking service integrated with [Gmail](https://en.wikipedia.org/wiki/Gmail) allowing users to share content immediately and make conversations. Discontinued in December and replaced by Google+.[[112]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-112)
* [Google PowerMeter](https://en.wikipedia.org/wiki/Google_PowerMeter) – view building energy consumption. Discontinued on September 16.
* Real Estate – place real estate listings in Google Maps. Discontinued February 10.[[113]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-113)
* [Google Directory](https://en.wikipedia.org/wiki/Google_Directory) – collection of links arranged into hierarchical subcategories. The links and their categorization were from the [Open Directory Project](https://en.wikipedia.org/wiki/Open_Directory_Project), sorted using [PageRank](https://en.wikipedia.org/wiki/PageRank). Discontinued on July 20.
* [Google Blog Search](https://en.wikipedia.org/wiki/Google_Blog_Search) – [weblog](https://en.wikipedia.org/wiki/Weblog) search engine. Discontinued in July.
* [Squared](https://en.wikipedia.org/wiki/Google_Squared) – creates tables of information about a subject from [unstructured data](https://en.wikipedia.org/wiki/Unstructured_data). Discontinued September.
* Google Sets – generates a list of items when users enter a few examples. For example, entering "Green, Purple, Red" emits the list "Green, Purple, Red, Blue, Black, White, Yellow, Orange, Brown". Discontinued mid-year.[[114]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-114)
* [Google Pack](https://en.wikipedia.org/wiki/Google_Pack) – application suite. Discontinued on September 2.
* [Google Fast Flip](https://en.wikipedia.org/wiki/Google_Fast_Flip) – online news aggregator. Discontinued September 6.
* [Desktop](https://en.wikipedia.org/wiki/Google_Desktop) – [desktop](https://en.wikipedia.org/wiki/Desktop_environment) search application that indexed emails, documents, music, photos, chats, Web history and other files. Discontinued on September 14.
* [Aardvark](https://en.wikipedia.org/wiki/Aardvark_(search_engine)) – social search utility that allowed people to ask and answer questions within their social networks. It used people's claimed expertise to match 'askers' with good 'answerers'. Discontinued on September 30.
* [Google Sidewiki](https://en.wikipedia.org/wiki/Google_Sidewiki) – browser sidebar and service that allowed contributing and reading helpful information alongside any web page. Discontinued in December.
* Directory – navigation directory, specifically for Chinese users.[[115]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-115)
* [Gears](https://en.wikipedia.org/wiki/Gears_(software)) – web browser features, enabling some new web applications. Removed from all platforms by November.
* [Hotpot](https://en.wikipedia.org/wiki/Google_Places) – local recommendation engine that allowed people to rate restaurants, hotels etc. and share them with friends. Moved to Google Places service in April 2011.[[116]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-116)

### 2010**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=31)**]**

* Marratech e-Meeting – [web conferencing](https://en.wikipedia.org/wiki/Web_conferencing) software, used internally by Google's employees. Discontinued on February 19.
* [Google SearchWiki](https://en.wikipedia.org/wiki/Google_SearchWiki) – annotate and re-order search results. Discontinued March 3, replaced by Google Stars.
* [GOOG-411](https://en.wikipedia.org/wiki/GOOG-411) (also known as Voice Local Search) – [directory assistance](https://en.wikipedia.org/wiki/Directory_assistance) service. Discontinued on November 12.
* [Google Base](https://en.wikipedia.org/wiki/Google_Base) – submission database that enabled content owners to submit content, have it hosted and made searchable. Information was organized using attributes. Discontinued on December 17, replaced with Google Shopping APIs.

### 2009**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=32)**]**

* Audio Ads – radio advertising program for US businesses. Discontinued on February 12.
* Catalogs – search engine for over 6,600 print catalogs, acquired through [optical character recognition](https://en.wikipedia.org/wiki/Optical_character_recognition). Discontinued in January.
* [Dodgeball](https://en.wikipedia.org/wiki/Dodgeball_(service)) – [social networking service](https://en.wikipedia.org/wiki/Social_networking_service). Users could text their location to the service, which would then notify them of nearby people or events of interest. Replaced by [Google Latitude](https://en.wikipedia.org/wiki/Google_Latitude).
* [Living Stories](https://en.wikipedia.org/wiki/Living_Stories) – collaboration with [The New York Times](https://en.wikipedia.org/wiki/The_New_York_Times) and [The Washington Post](https://en.wikipedia.org/wiki/The_Washington_Post) for presenting news. Discontinued in February 2010.
* [Google Mashup Editor](https://en.wikipedia.org/wiki/Google_Mashup_Editor) – web mashup creation with publishing, syntax highlighting, debugging. Discontinued in July; migrated to Google App Engine.
* [Google Ride Finder](https://en.wikipedia.org/wiki/Google_Ride_Finder) – taxi and shuttle search service, using real time position of vehicles in 14 U.S. cities. Used the [Google Maps](https://en.wikipedia.org/wiki/Google_Maps) interface and cooperated with any car service that wished to participate. Discontinued in October.
* Shared Stuff – web page sharing system, incorporating a [bookmarklet](https://en.wikipedia.org/wiki/Bookmarklet) to share pages, and a page to view the most popular shared items. Pages could be shared through third party applications such as Delicious or Facebook. Discontinued on March 30.
* [Google Page Creator](https://en.wikipedia.org/wiki/Google_Page_Creator) – webpage publishing program that could be used to create pages and to host them on Google servers. Discontinued, with all existing content transferred to [Google Sites](https://en.wikipedia.org/wiki/Google_Sites).

### 2008**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=33)**]**

* [Google Browser Sync](https://en.wikipedia.org/wiki/Google_Browser_Sync) ([Mozilla Firefox](https://en.wikipedia.org/wiki/Firefox)) – allowed Firefox users to synchronize settings across multiple computers. Discontinued in June.
* [Google Lively](https://en.wikipedia.org/wiki/Google_Lively) – 3D animated chat. Discontinued December 31.[[117]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-117)
* [Hello](https://en.wikipedia.org/wiki/Picasa#Hello) – send images across the Internet and publish them to blogs. Discontinued on May 15.[[118]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-118)
* SearchMash – search engine to "test innovative user interfaces". Discontinued on November 24.[[119]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-119)
* Send to Phone – send links and other information from [Firefox](https://en.wikipedia.org/wiki/Firefox) to their phone by text message. Discontinued on August 28, replaced by Google Chrome to Phone.[[60]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-:0-60)
* [Web Accelerator](https://en.wikipedia.org/wiki/Google_Web_Accelerator) – increased load speed of web pages. No longer available for, or supported by, Google as of January 20.

### 2007**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=34)**]**

* [Google Click-to-Call](https://en.wikipedia.org/wiki/AdWords#Google_Click-to-Call) – allowed a user to speak directly over the phone without charge to businesses found on Google search results pages.
* Related Links – links to information related to a website's content. Discontinued on April 30.
* Public Service Search – non-commercial organization service, which included Google Site Search, traffic reports and unlimited search queries. Discontinued in February, replaced by [Google Custom Search](https://en.wikipedia.org/wiki/Google_Custom_Search).
* Google Video Marketplace – discontinued in August[[120]](https://en.wikipedia.org/wiki/List_of_Google_products#cite_note-120)

### 2006**[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=35)**]**

* [Google Answers](https://en.wikipedia.org/wiki/Google_Answers) – online knowledge market that allowed users to post bounties for well-researched answers to their queries. Discontinued on November 28; still accessible (read-only).
* Google Deskbar – desktop bar with a built-in mini browser. Replaced by a similar feature in [Google Desktop](https://en.wikipedia.org/wiki/Google_Desktop). Discontinued May 8.
* [Writely](https://en.wikipedia.org/wiki/Writely) – web-based [word processor](https://en.wikipedia.org/wiki/Word_processor). On October 10, Writely was merged into Google Docs & Spreadsheets.

## **See also[**[**edit**](https://en.wikipedia.org/w/index.php?title=List_of_Google_products&action=edit&section=36)**]**

* ***[icon](https://en.wikipedia.org/wiki/File:Crystal_Clear_app_linneighborhood.svg)***[***Internet portal***](https://en.wikipedia.org/wiki/Portal:Internet)
* [Outline of Google](https://en.wikipedia.org/wiki/Outline_of_Google)
* [History of Google](https://en.wikipedia.org/wiki/History_of_Google)
* [List of acquisitions by Google](https://en.wikipedia.org/wiki/List_of_acquisitions_by_Google)
* [Google's hoaxes](https://en.wikipedia.org/wiki/List_of_Google_April_Fools%27_Day_jokes)
* [X (company)](https://en.wikipedia.org/wiki/X_(company))
* [Google.org](https://en.wikipedia.org/wiki/Google.org)

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