Digital Media, Society, and Culture

Angus A.A. Mol Walter Crist III



LUCDH

The World Brain



Encyclopedias

Encyclopaedias

H.G. Wells

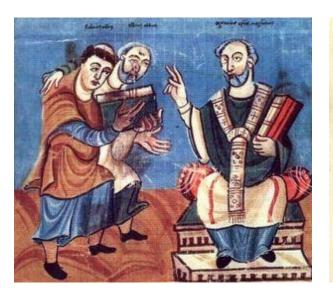
Indexing

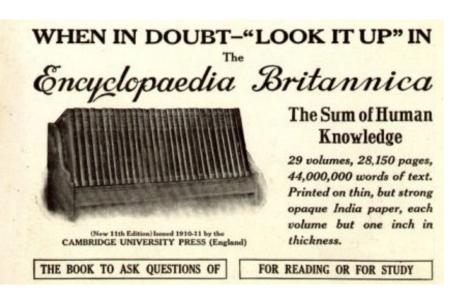
WWW

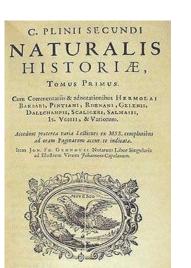
Google

Content cue

- · "General education" (ἐγκύκλιος παιδεία)
- Natural histories
- Roots in deontology (storytelling as sensemaking)
- Education, science, ideology, administration, politics
 - Renaissance
 - Enlightenment
 - Nation Building







ROTERODANL } Apud HACKIOS, A*. 1669.

<section-header><text><text><text><text><text><text><text>



N. DCC. LL AFEC APPROBATION ET PRIFILEGE DU ROT.

H.G. Wells' The World Brain

Encyclopaedias

H.G. Wells Indexing WWW Google Content cue "It can be reproduced exactly and fully, in Peru, China, Iceland, Central Africa, or wherever else."

"Its creation is a way to world peace that can be followed without any very grave risk of collision with the warring political forces and the vested institutional interests of today"

"The whole human memory can be, and probably in a short time will be, made accessible to every individual"

"This is no remote dream, no fantasy. It is a plain statement of a contemporary state of affairs. It is on the level of practicable fact."



H.G. Wells' The World Brain

Encyclopaedias

H.G. Wells

Indexing

WWW

Google

- Series of lectures by the 'Father of SF", futurist, social activist
- World Brain: more than an encyclopedia
- "The encyclopaedias of the past have sufficed for the needs of a cultivated minority."
- "Pull the mind of the world together"
- "A world synthesis of bibliography and documentation with the indexed archives of the world."



The 'Spoils of War':

An Issue of Information Indexing

Encyclopaedias H.G. Wells

Indexing

WWW Google Content cue "There is a growing mountain of research. But there is increased evidence that we are being bogged down today as specialization extends. The investigator is staggered by the findings and conclusions of thousands of other workers—conclusions which he cannot find time to grasp, much less to remember, as they appear."

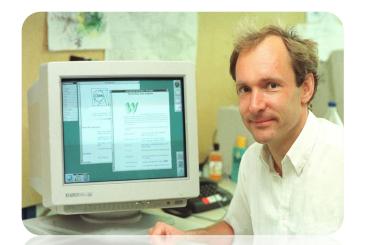
"Consider a future device for individual use, which is a sort of mechanized private file and library. It needs a name, and, to coin one at random, "**memex**" will do. A memex is a device in which an individual **stores all his books, records, and communications, and which is mechanized** so that it may be consulted with exceeding speed and flexibility. It is an enlarged intimate supplement to his memory."

- 1945, As We May Think, V. Bush in the Atlantic



The WWW

- Sir Tim Berners-Lee at CERN (1989)
- HTML (Hyper Text Markup Language): the layouting
- URL (Uniform Resource Locator): the link
- World Wide Web hostname
- HTTP (Hypertext Transfer Protocol)
- More info at <u>CERN</u>



WORLD WIDE WEB

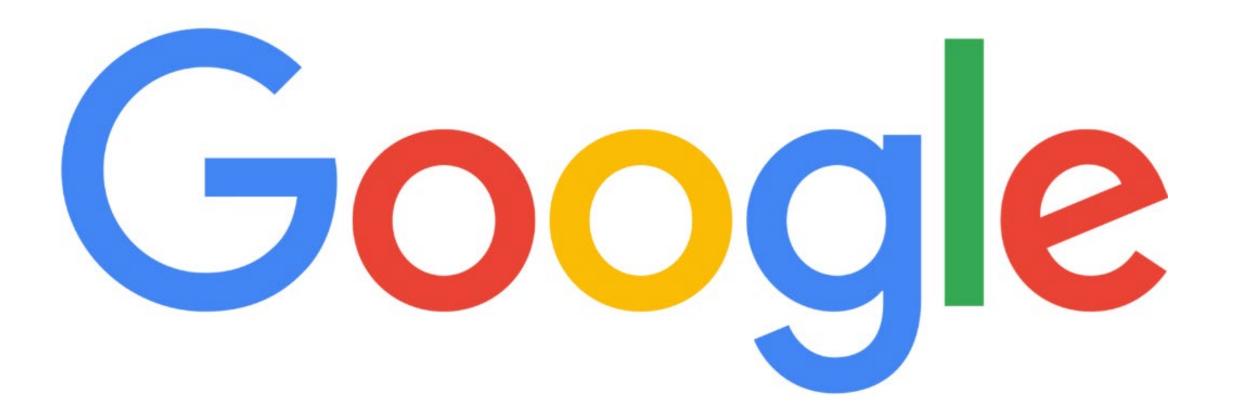
The WorldWideWeb (W3) is a wide-area hypermedia[1] information retrieval initiative aiming to give universal access to a large universe of documents.

Everything there is online about W3 is linked directly or indirectly to this document, including an executive summary[2] of the project, Mailing lists[3], Policy[4], November's W3 news[5], Frequently Asked Questions[5].

What's out there?[7]Pointers to the world's online information, subjects[8] , W3 servers[9], etc.

Help[10]	on the browser you are using
Software Products[11]	A list of W3 project components and their current state. (e.g. Line Mode[12] ,X11 Viola[13] ,
	NeXTStep[14] , Servers[15] , Tools[15] , Mail robot[17] , Library[18])
Technical[19]	Details of protocols, formats, program internals etc

<ref.number>, Back, <RETURN> for more, or Help:



"Our mission is to organize the world's information and make it universally accessible and useful."

~ Google, <u>About Google</u>

Google Quiz: Name?

Encyclopaedias

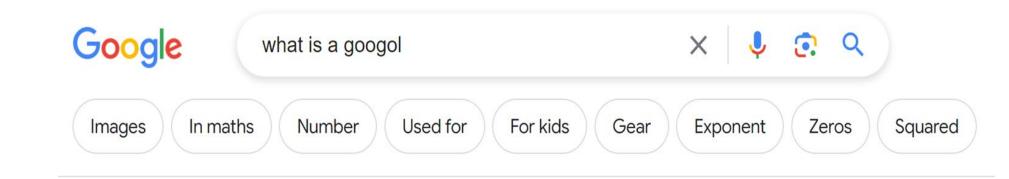
H.G. Wells

Indexing

WWW

Google

Content cue



About 497.000 results (0,48 seconds)

¹ googol = **1.0 × 10**¹⁰⁰

Feedback

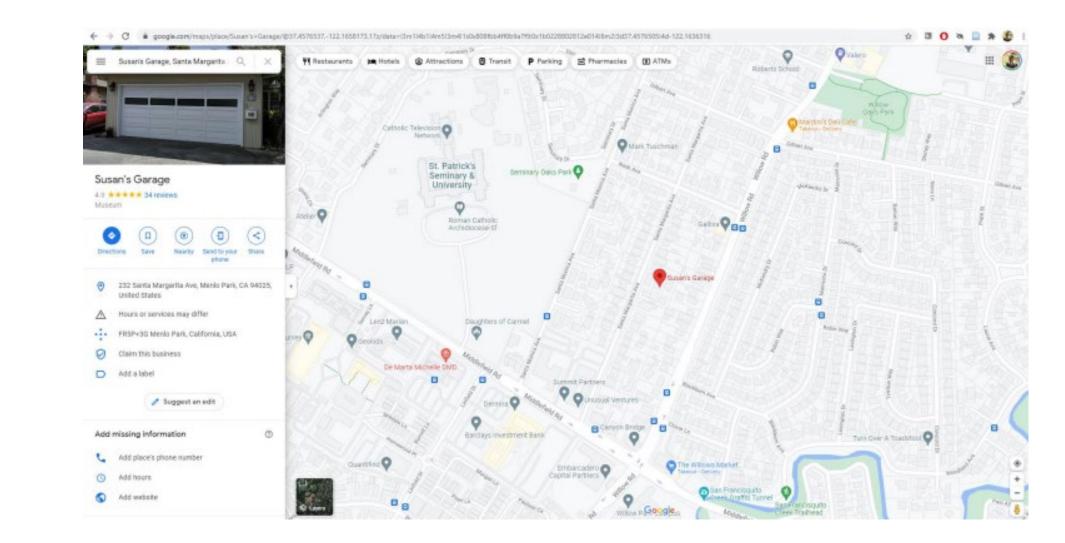
Google Quiz: Location?

Encyclopaedias

H.G. Wells

Indexing

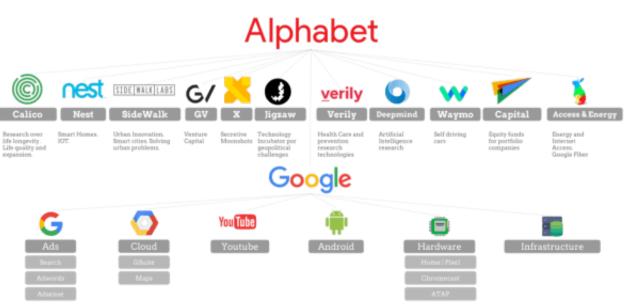
Google



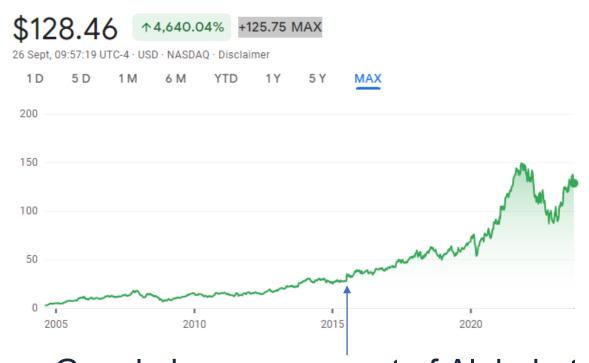
Google Quiz: Owner?

Encyclopaedias H.G. Wells Indexing WWW Google

Content cue

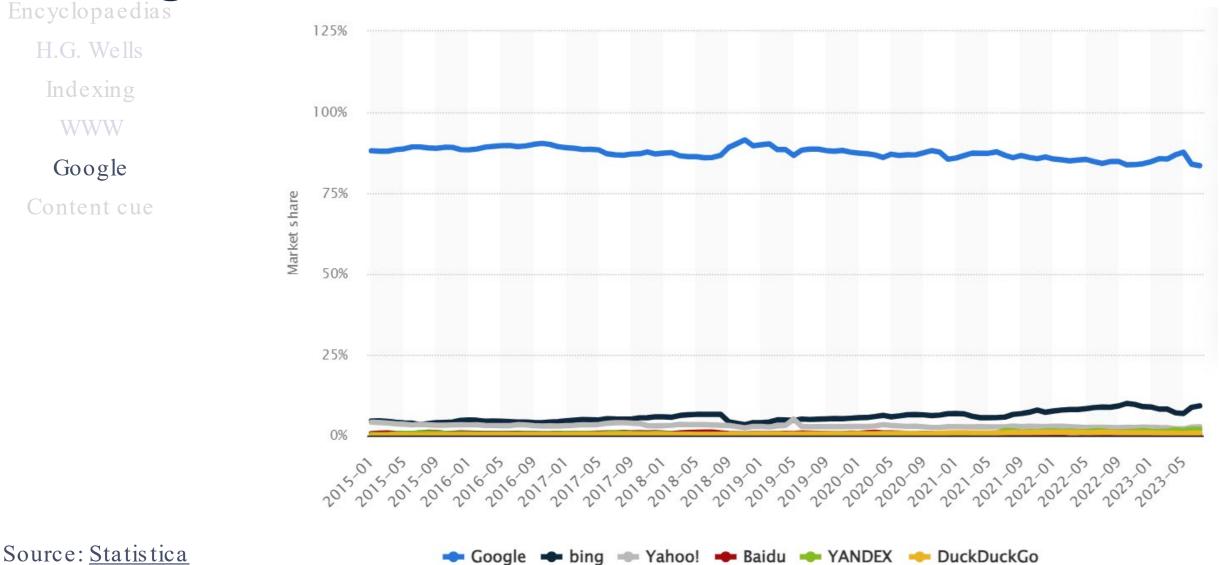


Alphabet Inc Class A

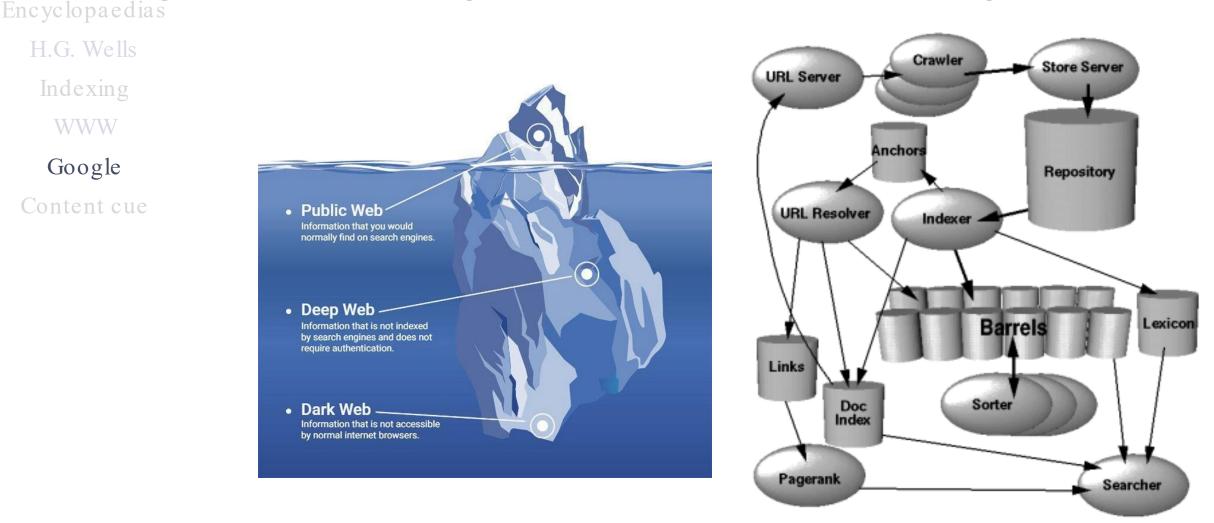


Google becomes a part of Alphabet

Google Quiz: Marketshare?



Google Quiz: (answer in 1999!):



Links are used to map sites (<u>link</u>)

Brin and Page Original "Backrub" Schema

Old Search Engines: Archie and WebCrawler

Encyclopaedias

H.G. Wells Indexing

WWW

Google

Content cue

Welcome to archie.icm.edu.pl Archie Query Form				
Database: Worldwide Anonymous FTP Polish Web Index Search Type: Sub String O Exact O Regular Expression Case: Insensitive O Sensitive 				
Do you want to look up strings only (no sites returned): \textcircled{O}_{NO} \bigcirc_{YES}				
Output Format For Web Index Search: OKeywords Only				
Search Reset				
Optional Search Parameters				
You can use as many terms as you like in your query, as long as you separate them by spaces. By default, Archie inser "OR" operators between all of the terms of your query. If you prefer, you can change the operator to "AND" by choosi these radio buttons:				
O OR O AND				
You can also limit the search results to match a directory path (this is optional):				
Or to exclude search results that match a directory path you don't want (this is also optional):				
If you want to limit the search so that it only looks in certain domains (such as ca. edu or com), enter one or more in th				

following boxes



Neb	Images	Videos	News

Q

Backlinks and the PageRank

Algorithm

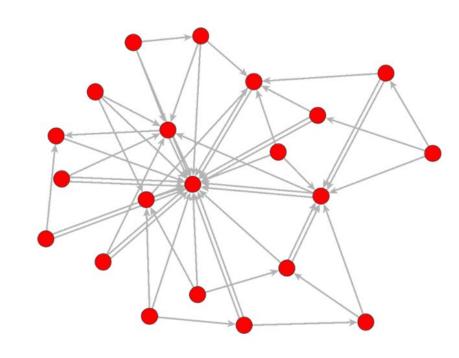
Encyclopaedias

H.G. Wells

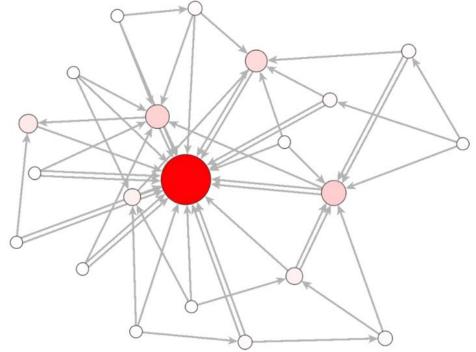
Indexing

WWW

Google







What else does Google look for?

Encyclopaedias

H.G. Wells

Indexing

WWW

Google

- Robot.txt file
- Website security
- Keywords, tags, headers, content relations, existence of a site map
- Parsing of content:
 - Text
 - Images
 - Videos
 - HTML, CSS, JavaScript and other code
- The 'Dark' Arts of SEO: Search Engine Optimalization





Encyclopaedias

H.G. Wells

Indexing

WWW

Google

- Google and Copyright
 - Books: Google and the World Brain
- Google and Privacy:
 - Try Google <u>Take-out</u> (thanks GDPR!)
- Google and the <u>Military</u>
- Google and <u>Censorship</u>
- Google is an ultra-pervasive, profit-driven, secretive company

Go	ogle	
don't be evil. do the right thing.		Ŷ
Google Search	I'm Feeling Lucky	



≈*+*



Encyclopaedias

H.G. Wells

Indexing

WWW

Google

Content cue

Stay Critical!

"We're not a truth engine. ... We can give you information, but we can't tell you the truth of a thing."
Danny Sullivan, Google search liaison in <u>CNBC interview</u> FEATURES

Aug 28, 2023, 4:00 PM GMT+2 <u>72 Comments / 72 New</u>

¥ f Ø

The end of the Googleverse

For two decades, Google Search was the invisible force that determined the ebb and flow of online content. Now, for the first time, its cultural relevance is in question.

If you buy something from a Verge link, Vox Media may earn a commission. <u>See our</u> <u>ethics statement.</u>

By Ryan Broderick Illustrations by Michelle Rohn for The Verge



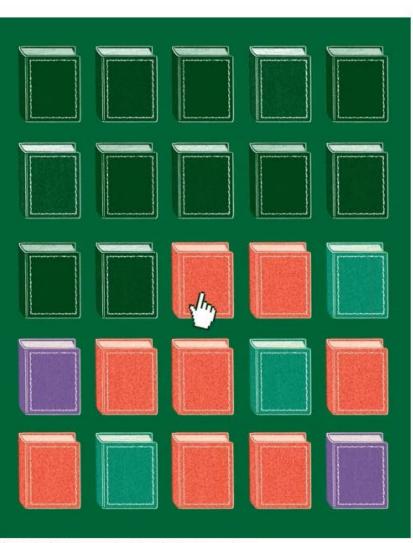


Illustration by Joanne Imperio / The Atlantic. Source: Getty.

The Atlantic

THESE 183,000 BOOKS ARE FUELING THE BIGGEST FIGHT IN PUBLISHING AND TECH

TECHNOLOGY

Use our new search tool to see which authors have been used to train the machines.

By Alex Reisner

The history of the World Brain begins with books and ends with books3. Curious about which books are in there, <u>check this *search engine* for books3</u>.

What's next?

Encyclopaedias H.G. Wells Indexing WWW

> Google Content cue

> > Content cue: What remarkable thing have you found on the World Wide Web and how?