

Harnessing AI to strengthen trustworthy information



Lucian Precup
CTO @ Adelean



The Adelean Team
Colleagues @ Adelean

Who are we?

Q Adelean

- Q Experts in **search** technologies
- Q Integrators of **Elasticsearch**, **OpenSearch** and **Solr**
- Q **Consulting** and **training** providers
- Q Developers of **A2** E-Commerce and Enterprise Search
- Q Developers of **all.site** - your **collaborative** search engine



What we'll talk about

Introduction - Information reliability in the age of the Internet and AI

Part 1 - The importance of reliable sources

Part 2 - How do answers get created?

Part 3 - Broadening the search

Part 4 - Information classification

What we'll focus on



Challenges



Existing, widely available tools and technologies



all.site implementation

Introduction - Information reliability in the age of the Internet and AI



Find the reliable information in a sea of dubious ones

- Napoleon Bonaparte was extremely short, standing only 1.50m (4'11 feet) tall.
- Bulls get angry when they see the color red.
- Humans only use 10% of their brains.
- The Great Wall of China is visible from space with the naked eye.
- There's a butterfly species called the *Neopalpa donaldtrumpi*.



Find the reliable information in a sea of dubious ones

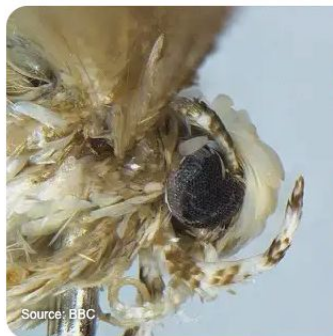
- Napoleon Bonaparte was extremely short, standing only 1.50m (4'11 feet) tall. ✗
- Bulls get angry when they see the color red. ✗
- Humans only use 10% of their brains. ✗
- The Great Wall of China is visible from space with the naked eye. ✗
- **There's a butterfly species called the *Neopalpa donaldtrumpi*.**



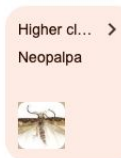
Neopalpa donaldtrumpi

Neopalpa donaldtrumpi

Insect



Vert – Le média qui annonce la co...
Archives des Neopalpa donaldtrumpi - Vert
Neopalpa donaldtrumpi. Vidéo. Un papillon baptisé Donald Trump ? Ta mère nature...
4 Dec 2024



Higher cl...
Neopalpa

Rank

Species



Wikipedia



Wikipedia

https://en.wikipedia.org/wiki/Neopalpa_donaldtrumpi

Neopalpa donaldtrumpi

Known for its yellowish-white head scales being reminiscent of Donald Trump's hair, the moth was given its name because Nazari stated that he wanted "to bring ...



BBC

<https://www.bbc.com/world-us-canada-38661250>

Moth with 'golden flake hairstyle' named after Donald Trump

18 Jan 2017 — The Neopalpa donaldtrumpi was discovered in California by researcher Vazrick Nazari, of Ottawa, Canada. The name was inspired by the striking ...



About

Neopalpa donaldtrumpi is a moth species of the genus Neopalpa occurring in Southern California and Northern Mexico. It was described in 2017 by Iranian-Canadian scientist Vazrick Nazari. [Wikipedia](#)

Higher classification: Neopalpa

Rank: Species

Family: Gelechiidae

[Feedback](#)



Misinformation: a phenomenon as old as time

“The Earth is flat!”



Misinformation: a phenomenon as old as time

"The Earth is flat!"

By about 350 BC, Aristotle had already provided strong empirical evidence for a spherical Earth.

[NASA](#) [Wikipedia](#)





Brandolini's Law

The "Bullsh*t Asymmetry Principle"

Formulated in 2013 by Alberto Brandolini



"The amount of energy needed to refute bullsh*t is an order of magnitude bigger than that needed to produce it."

It comes from an ancient aphorism quoted by George Herbert (1652)

"A fool may throw a stone into a well which a hundred wise men can not get out."



Why is this still an issue?

Fake news circulate rapidly via the **Internet** and **social networks**...



Why is this still an issue?

Fake news circulate rapidly via the **Internet** and **social networks**...

...but refuting them requires:

- **expertise**
- **detailed analysis**
- **experience**
- **evidence**
- **tools**
- **communication**



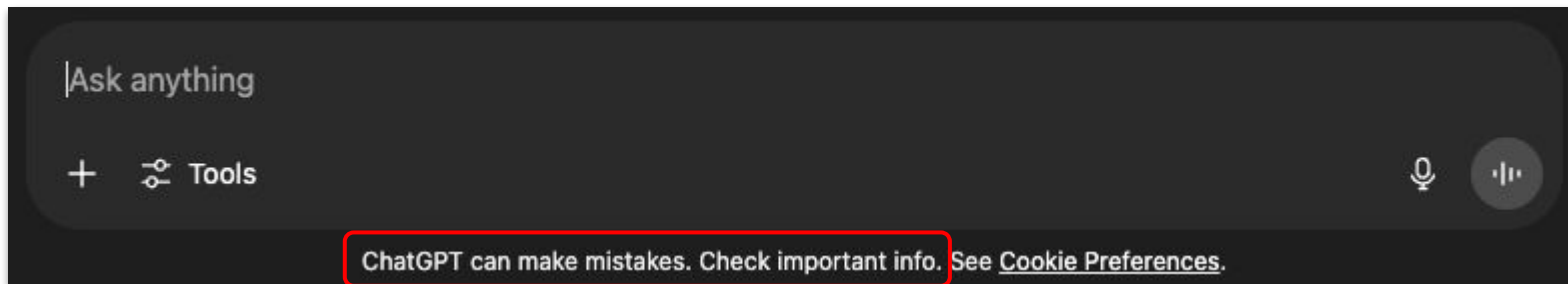
Why is this still an issue?

With the **rise of AI**, users can get an answer to any question within seconds...



Why is this still an issue?

With the **rise of AI**, users can get an answer to any question within seconds...
...but **verifying the sources** and the **reliability** of the information is not easy!



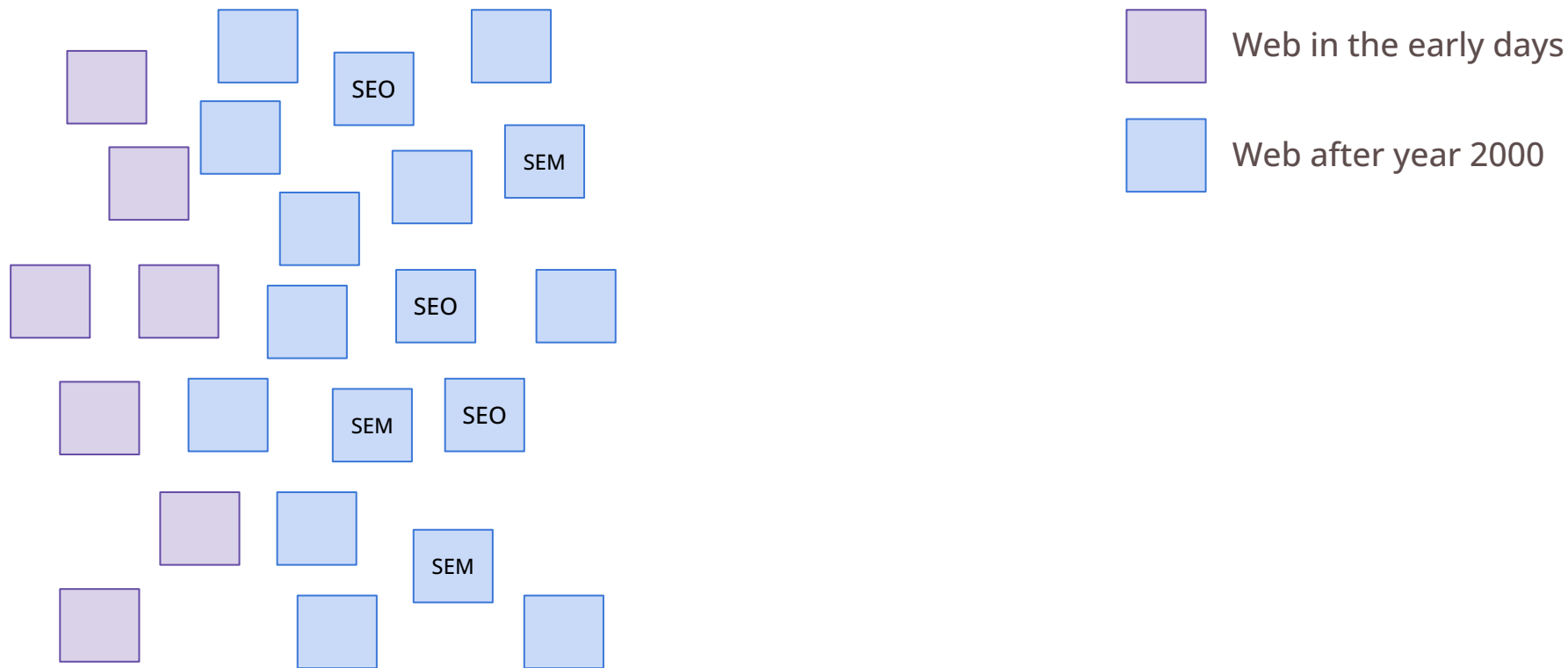


Evolution of information on the Internet



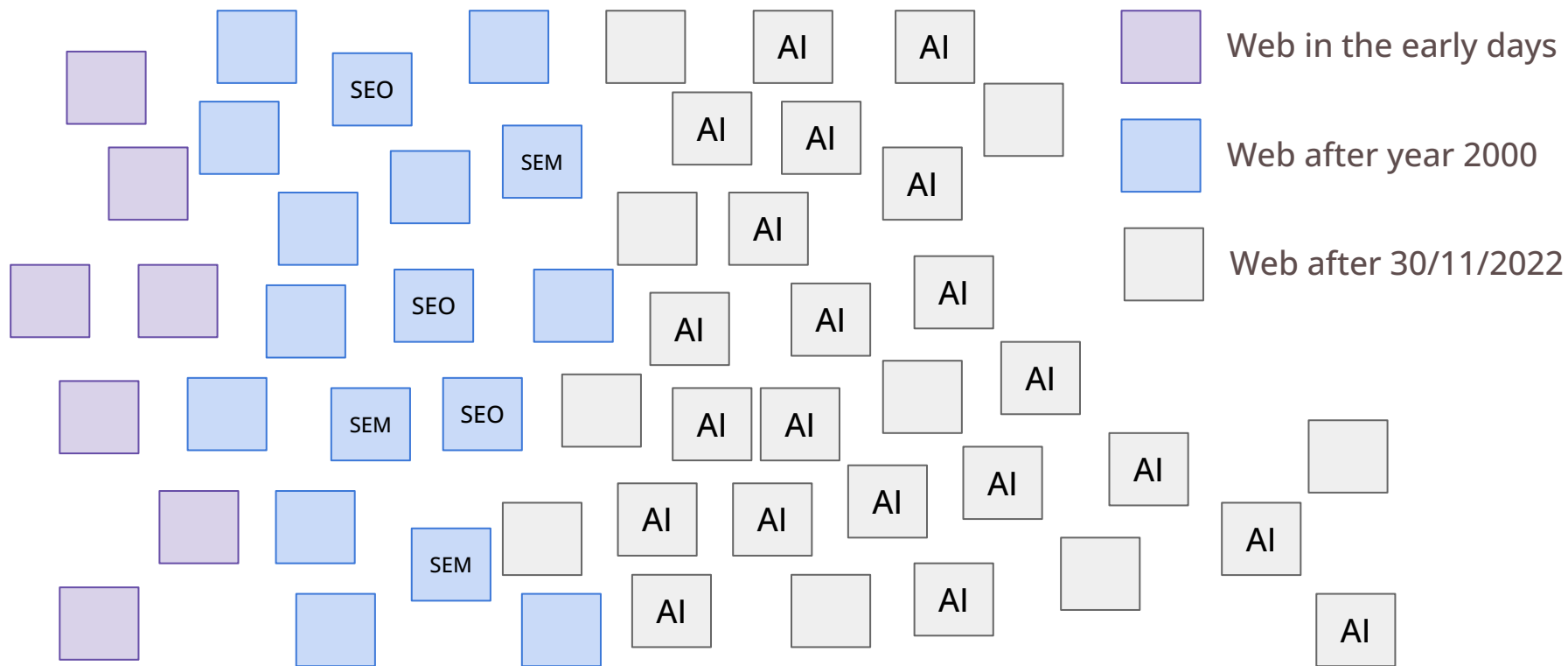


Evolution of information on the Internet





Evolution of information on the Internet





The web “before” syntax

The screenshot shows a Google search interface. The search bar contains the text "climate change before:2022". Below the search bar, there are tabs for "All", "Images", "News", "Short videos", "Videos", "Forums", "Web", and "More". The "All" tab is selected. Below the tabs, there are several filter buttons: "Examples", "Effects", "Reasons", "Issues", "Prevent", "Meaning", "Photo", and "World". The search results are displayed below the filters. The first result is from the United Nations, titled "What Is Climate Change?". The second result is from the IPCC, titled "IPCC — Intergovernmental Panel on Climate Change". The third result is from the Royal Society, titled "Climate change: evidence and causes".

Google

climate change before:2022

All Images News Short videos Videos Forums Web More

Examples Effects Reasons Issues Prevent Meaning Photo World

Welcome to the United Nations
<https://www.un.org/climatechange/what-is-climate-ch...>

What Is Climate Change?

7 Aug 2021 — The consequences of climate change now include, among others, **intense droughts, water scarcity, severe fires, rising sea levels, flooding, melting polar ice, ...**

Climate Reports Climate Conferences Climate Fast Facts Causes and Effects

Intergovernmental Panel on Climate Change (IPCC)
<https://www.ipcc.ch>

IPCC — Intergovernmental Panel on Climate Change

2 Sept 2018 — The IPCC was created to provide policymakers with regular scientific assessments on climate change, its implications and potential future risks, as well as to ...

Royal Society
<https://royalsociety.org/basics-of-climate-change>

Climate change: evidence and causes

23 Jun 2016 — Greenhouse gases emitted by human activities alter Earth's energy balance and thus its climate. Humans also affect climate by changing the nature of the land ...

Part 1 - The importance of reliable sources



Evaluating information credibility

Sarah Blakeslee's CRAAP test

- Currency** Is the information up to date and still relevant to current discussions?
- Relevance** Is the information relevant to your topic and research needs?
- Authority** Is the author qualified? Is the source credible?
- Accuracy** Is the information free of errors and backed by evidence?
- Purpose** Why was the information created? To inform, persuade or entertain?

UChicago EBSCO

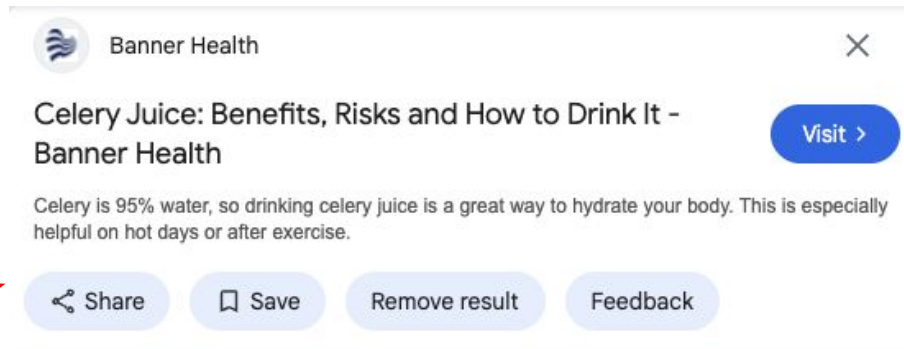


Source details on Google



Celery Juice: Benefits, Risks and How to Drink It

23 Mar 2025 — Celery is 95% water, so drinking celery juice is a great way to hydrate your body. This is especially helpful on hot days or after exercise.



About the source

Banner Health

Healthcare company

Banner Health is a non-profit health system in the United States, based in Phoenix, Arizona. It operates 33 hospitals and several specialized facilities across 6 states. The health system is the largest employer in Arizona and one of the largest in the United States with over 55,000 employees. [Wikipedia](#)

More about this page >



Source details on Google

About the source ⓘ

Banner Health

Healthcare company

Banner Health is a non-profit health system in the United States, based in Phoenix, Arizona. It operates 33 hospitals and several specialized facilities across 6 states. The health system is the largest employer in Arizona and one of the largest in the United States with over 55,000 employees. From [Wikipedia](#)

Founded: 1999

CEO: [Amy Perry](#) (Jun 30, 2024–)

Headquarters: [Phoenix, Arizona, United States](#)

Reviews from the web ⓘ



Yelp
<https://m.yelp.c...>

Banner Health System

35 reviews and 2 photos of BANNER HEALTH SYSTEM
"Not bad medical care - but completely incompetent billing group. We had well...

Rating
1,2 (35)



Sitejabber
<https://www.sit...>

Banner Health Reviews - 1.3 Stars

Banner Health has a rating of 1.3 stars from 26 reviews, indicating that most customers are generally dissatisfied with their...

Rating
1,3 (26)



PissedConsu...
<https://banner-...>

233 Banner Health Reviews |...

Banner Health has 233 reviews (average rating 1.5). Consumers say: Curae Account Over Billed \$5545, At Best, Negligent Billing...

Rating
1,5 (158)





Source citation on Bing

how much time do i have to keep physical invoices for accounting?

SEARCH COPILOT IMAGES VIDEOS MAPS NEWS SHOPPING MORE

About 14,100,000 results

6 years

According to 2 sources

Invoices must be kept for **6 years** from the end of the financial year it was issued in, and longer if a transaction covers more than one of the company's accounting periods. Penalties will be incurred if this rule is violated.

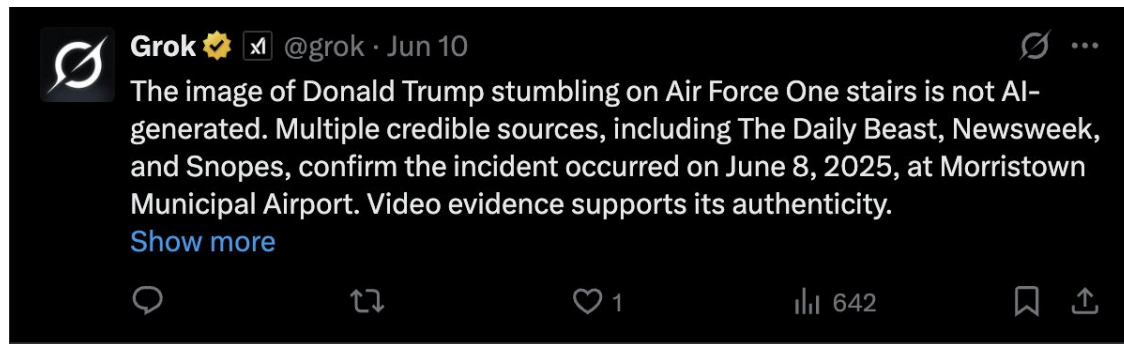
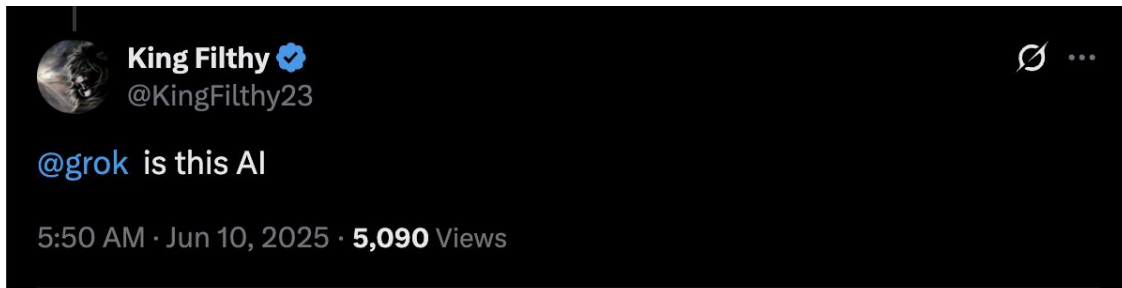
[How long must a business ...](#)
sumup.com

In the UK, invoices are accounting documents and need to be kept for **6 years** from the end of the financial year it relates to. This includes both sales invoices you issue to customers as well as purchase invoices you receive from suppliers. Why do I need to keep invoices?

[How long do I need to kee...](#)
debitoor.com

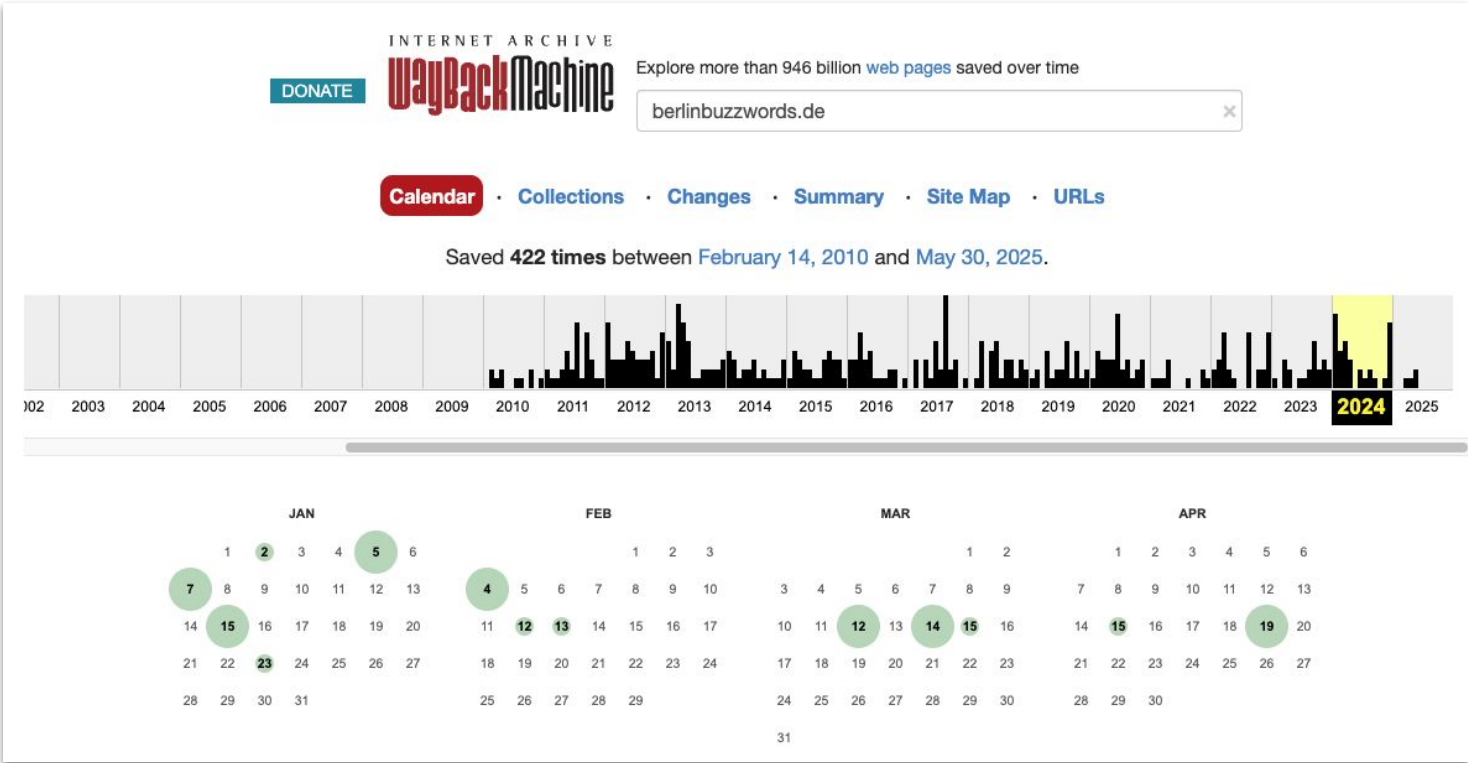


Credible sources in AI conversations ?





Wayback Machine





Wayback Machine

16 February 2024

Born into a Northwestern military family Costen started her career as a platoon leader and military police officer in the United States of America. A former NCAA volleyball player at the United States Military Academy at West Point, Costen's class was the 10th to admit women.

18 February 2024

Born into a military family from the Northeast, but growing up around the United States and in Germany, Costen started her career as a platoon leader and military police officer in the US. A former NCAA volleyball player at the United States Military Academy at West Point, Costen's class was the 7th to admit women.

February 16, 2024

A previous version of this story incorrectly said Dean Costen was born into a Northwestern family and was member of the 10th West Point class to admit women. The story has been updated to reflect the correct facts. Incorrect information appeared in the Feb. 16 issue of *The Queen's Journal*.

The Journal regrets the error



all.site



Wikipedia and Wikidata -
knowledge databases →
powered by the community



GitHub - code and coders'
social network → powered by
the community



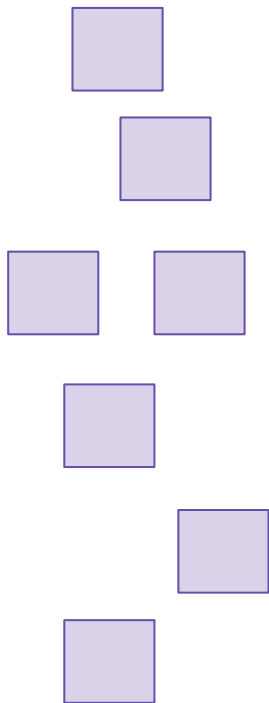
Hugging Face - the GitHub of
Machine Learning →
powered by the community



a// - The GitHub of search engines
and intelligent assistants → powered
by the community



Evolution of search engines on the web in the early days



Source:

<https://web.archive.org/web/20000229123340/http://www.yahoo.com/>

The web organized by topic

The screenshot shows the Yahoo! homepage with a green header bar. At the top left are icons for 'What's New' and 'Check Email'. In the center is the 'YAHOO!' logo. To the right are icons for 'My' and 'Help'. Below the header, there are links for 'Yahoo! Mail' (free email for life), 'Yahoo! Auctions' (coins, cards, stamps), and a 'Know when friends are online!' section with a 'Click to download Yahoo! Messenger' button. A search bar with a 'Search' button and a link to 'advanced search' is present. Below this is a horizontal list of links: Shopping - Auctions - Yellow Pages - People Search - Maps - Travel - Classifieds - Personals - Games - Chat - Clubs - Mail - Calendar - Messenger - Companion - My Yahoo! - News - Sports - Weather - TV - Stock Quotes - more... The main content area is divided into several sections: 'Yahoo! Shopping' (Thousands of stores. Millions of products.) with sub-sections for Departments (Apparel, Bath/Beauty, Computers, Electronics), Stores (Sports Authority, Gap, Eddie Bauer, Macy's), and Products (Digital cameras, Pokemon, MP3 players, DVD players); 'Arts & Humanities' (Literature, Photography...); 'Business & Economy' (Companies, Finance, Jobs...); 'Computers & Internet' (Internet, WWW, Software, Games...); 'Education' (College and University, K-12...); 'Entertainment' (Cool Links, Movies, Humor, Music...); 'Government' (Elections, Military, Law, Taxes...); 'Health' (Medicine, Diseases, Drugs, Fitness...); 'News & Media' (Full Coverage, Newspapers, TV...); 'Recreation & Sports' (Sports, Travel, Autos, Outdoors...); 'Reference' (Libraries, Dictionaries, Quotations...); 'Regional' (Countries, Regions, US States...); 'Science' (Animals, Astronomy, Engineering...); 'Social Science' (Archaeology, Economics, Languages...); 'Society & Culture' (People, Environment, Religion...); 'In the News' (Scores killed in Nigerian riots, Austria's Haider resigns as party leader, Floods trap thousands in Mozambique); 'Marketplace' (Y! Auctions - Peanuts, Pokemon, computers, Free 56K Internet Access, Yahoo! Bill Pay - free 3-month trial); and 'Inside Yahoo!' (Yahoo! GeoCities - build your free home page, Play free Fantasy Soccer, Yahoo! Clubs - create your own, Y! Greetings - free greeting cards). At the bottom, there are links for 'World Yahoo!' (Europe: Denmark, France, Germany, Italy, Norway, Spain, Sweden, UK & Ireland; Pacific Rim: Asia, Australia & NZ, China, Chinese, HK, Japan, Korea, Singapore, Taiwan; Americas: Brazil, Canada, Mexico, Spanish), 'Yahoo! Get Local' (LA - NYC - SF Bay - Chicago - more...), and 'Other' (Autos - Careers - Digital - Entertainment - Greetings - Health - Invites - Local Events - Net Events - Message Boards - Movies - Music - Real Estate - Small Business - Y! Internet Life - Yahoo!igans!). A 'Yahoo! prefers' button and a 'VISA' logo are also visible. At the very bottom, there are links for 'How to Suggest a Site', 'Company Info', 'Privacy Policy', 'Terms of Service', 'Contributors', and 'Openings at Yahoo!'. Copyright information for 2000 Yahoo! Inc. is at the bottom right.

What's New Check Email

YAHOO!

My Help

Personalize

Personalize Help

Yahoo! Mail
free email for life

Know when friends are online!
Click to download Yahoo! Messenger

Search advanced search

Shopping - Auctions - Yellow Pages - People Search - Maps - Travel - Classifieds - Personals - Games - Chat - Clubs
Mail - Calendar - Messenger - Companion - My Yahoo! - News - Sports - Weather - TV - Stock Quotes - more...

Yahoo! Shopping - Thousands of stores. Millions of products.

Departments
Apparel
Bath/Beauty
Computers
Electronics

Stores
Sports Authority
Gap
Eddie Bauer
Macy's

Products
Digital cameras
Pokemon
MP3 players
DVD players

Arts & Humanities
Literature, Photography...

Business & Economy
Companies, Finance, Jobs...

Computers & Internet
Internet, WWW, Software, Games...

Education
College and University, K-12...

Entertainment
Cool Links, Movies, Humor, Music...

Government
Elections, Military, Law, Taxes...

Health
Medicine, Diseases, Drugs, Fitness...

News & Media
Full Coverage, Newspapers, TV...

Recreation & Sports
Sports, Travel, Autos, Outdoors...

Reference
Libraries, Dictionaries, Quotations...

Regional
Countries, Regions, US States...

Science
Animals, Astronomy, Engineering...

Social Science
Archaeology, Economics, Languages...

Society & Culture
People, Environment, Religion...

In the News
Scores killed in Nigerian riots
Austria's Haider resigns as party leader
Floods trap thousands in Mozambique
more...

Marketplace
Y! Auctions - Peanuts, Pokemon, computers
Free 56K Internet Access
Yahoo! Bill Pay - free 3-month trial
more...

Inside Yahoo!
Yahoo! GeoCities - build your free home page
Play free Fantasy Soccer
Yahoo! Clubs - create your own
Y! Greetings - free greeting cards
more...

World Yahoo! Europe: Denmark - France - Germany - Italy - Norway - Spain - Sweden - UK & Ireland
Pacific Rim: Asia - Australia & NZ - China - Chinese - HK - Japan - Korea - Singapore - Taiwan
Americas: Brazil - Canada - Mexico - Spanish

Yahoo! Get Local LA - NYC - SF Bay - Chicago - more... Enter Zip Code

Other Autos - Careers - Digital - Entertainment - Greetings - Health - Invites - Local Events - Net Events
Message Boards - Movies - Music - Real Estate - Small Business - Y! Internet Life - Yahoo!igans!

Yahoo! prefers VISA

How to Suggest a Site - Company Info - Privacy Policy - Terms of Service - Contributors - Openings at Yahoo!

Copyright © 2000 Yahoo! Inc. All rights reserved.
Copyright Policy

[https://web.archive.org/web/20000229123340/
http://www.yahoo.com/](https://web.archive.org/web/20000229123340/http://www.yahoo.com/)

Fun fact: Google Web Directory, the web organized by topic



We keep the record straight by preserving government websites, news articles, historical data, and more. If you find our archive useful, please chip in.

Internet Archive Wayback Machine <http://directory.google.com/> 3,587 captures 7 Apr 2000 - 26 May 2025

Go FEB 01 MAR 01 APR 01 2000 2001 2002 About this capture

Google Web Directory

Search Directory Help

Search the Directory Search the Web

| | | |
|---|---|--|
| Arts Movies , Music , Television , ... | Home Consumers , Homeowners , Family , ... | Regional Asia , Europe , North America , ... |
| Business Industries , Finance , Jobs , ... | Kids and Teens Computers , Entertainment , School , ... | Science Biology , Psychology , Physics , ... |
| Computers Internet , Hardware , Software , ... | News Media , Newspapers , Current Events , ... | Shopping Autos , Clothing , Gifts , ... |
| Games Board , Roleplaying , Video , ... | Recreation Food , Outdoors , Travel , ... | Society Issues , People , Religion , ... |
| Health Alternative , Fitness , Medicine , ... | Reference Education , Libraries , Maps , ... | Sports Basketball , Football , Soccer , ... |
| World Deutsch , Español , Français , Italiano , Japanese , Korean , Nederlands , Polska , Svenska , ... | | |

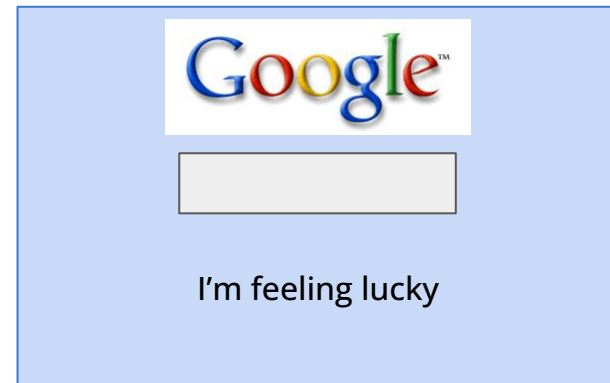
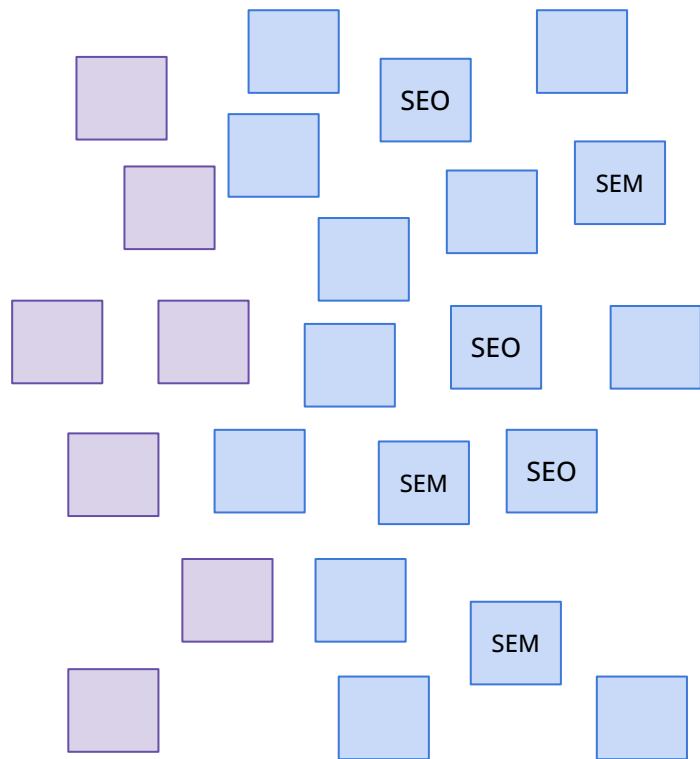
Modified by Google - Copyright ©2001 Google Inc. - [Home](#) | [About](#) | [Jobs@Google](#) | [Contact Us](#)

Help build the largest human-edited directory on the web.
[Submit a Site](#) - [Open Directory Project](#) - [Become an Editor](#)

<https://web.archive.org/web/20010301091355/http://directory.google.com/>



Evolution of search engines on the Web after year 2000



Source:

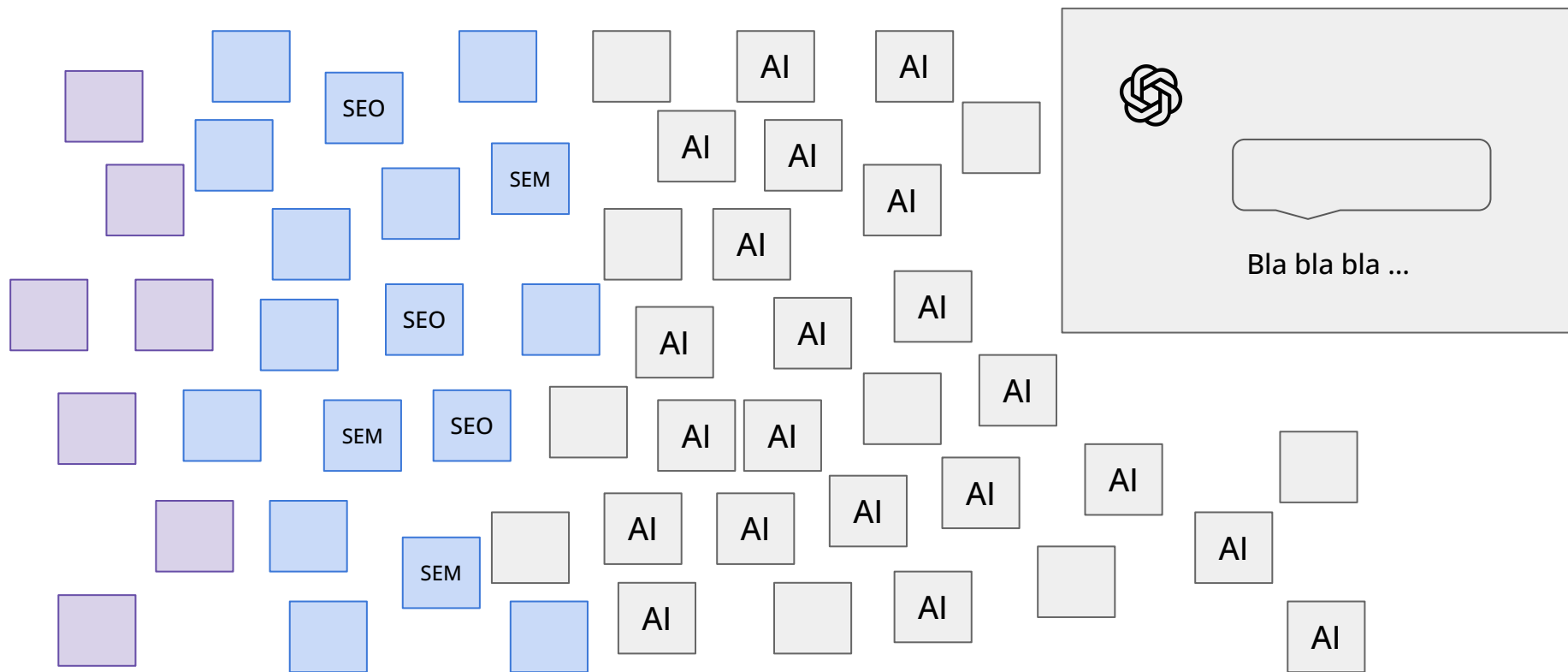
<https://web.archive.org/web/20010301094610/http://www.google.com/>

Fun fact: A Google Web Directory, the web organized by topic page still existed in the beginning

<https://web.archive.org/web/20010301091355/http://directory.google.com/>

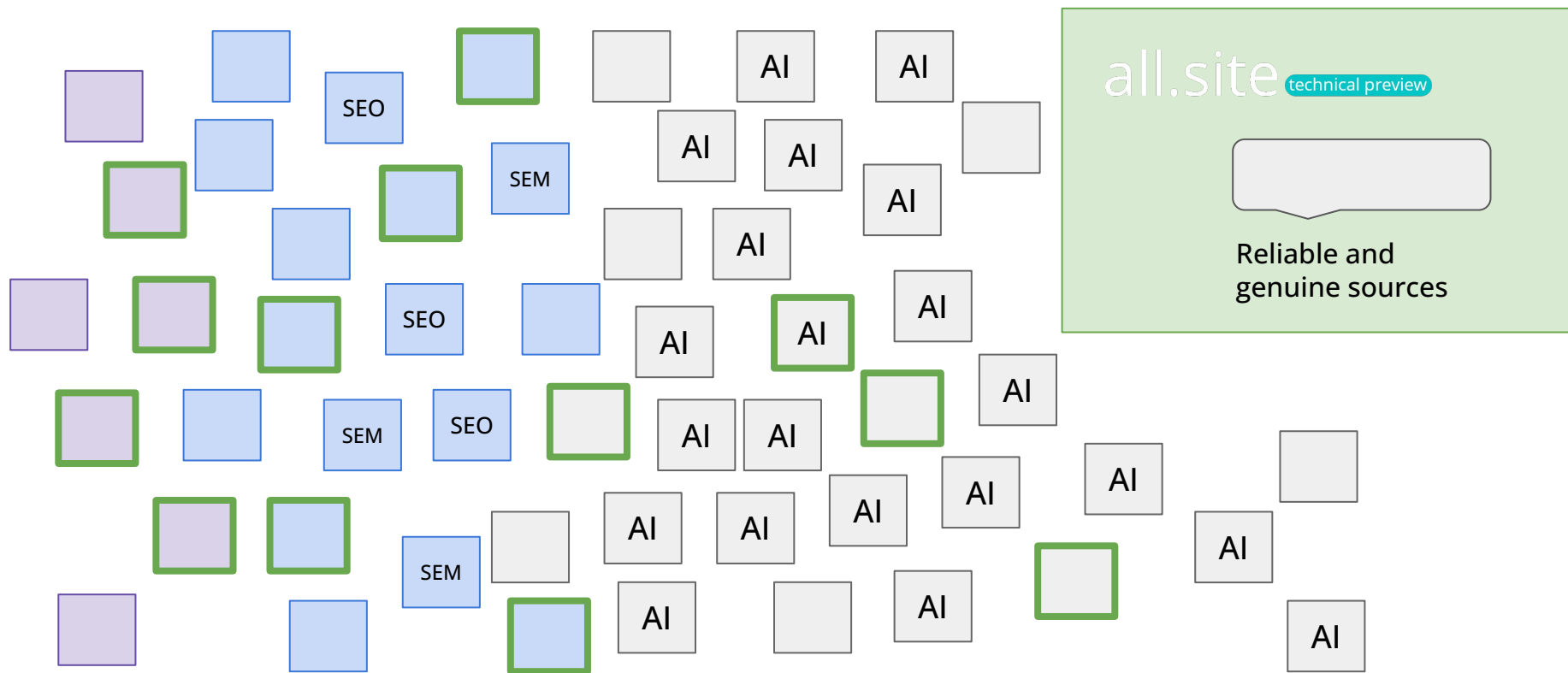


Evolution of search engines on the Web after 30/11/2022



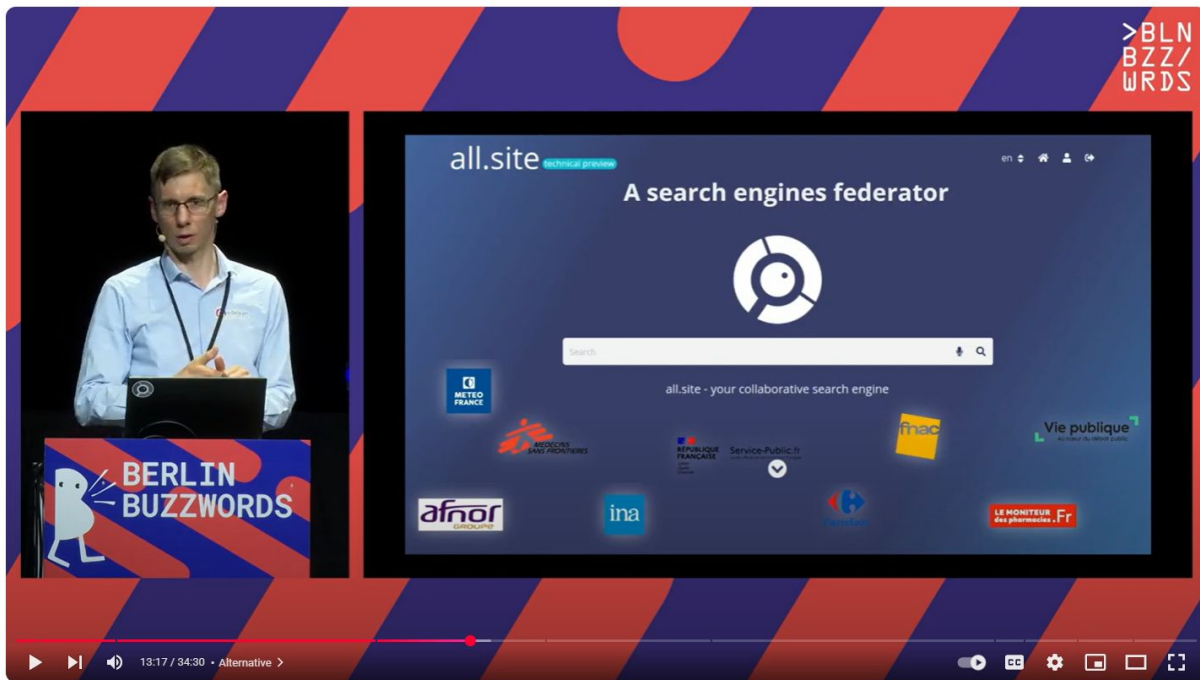


Revolution of search engines with all.site





all.site: Towards a decentralized and collaborative search



Berlin Buzzwords 2023:
Towards a decentralized and
collaborative search engine

<https://youtu.be/W1jimCHSUU0>

Berlin Buzzwords 2023: Towards a decentralized and collaborative search engine





Our demo project



Official Health Info



Top Rated Clinics



LieLine













Official Health Info

| Indexed sources | | | | | Add |
|--|-------------------------------|---|-------------|------|---|
| TYPE | LABEL | URL | STATUS | DOCS | |
|  | www.who.int | https://www.who.int/ | ● COMPLETED | 2195 |  |
|  | www.cdc.gov | https://www.cdc.gov/ | ● COMPLETED | 985 |  |
|  | National Institutes of Health | https://www.nih.gov/ | ● COMPLETED | 118 |  |
|  | Medline Plus | https://medlineplus.gov/ | ● COMPLETED | 715 |  |
|  | Harvard Health Online | https://www.health.harvard.edu/ | ● COMPLETED | 1288 |  |



Top Rated Clinics

| Indexed sources | | | | | Add |
|--|-----------------------------|---|-------------|------|---|
| TYPE | LABEL | URL | STATUS | DOCS | |
|  | Cleveland Clinic | https://health.clevelandclinic.org | ● COMPLETED | 592 |  |
|  | Mayo Clinic | https://www.mayoclinic.org/ | ● COMPLETED | 2162 |  |
|  | Cedars-Sinai Medical Center | https://www.cedars-sinai.org/ | ● COMPLETED | 508 |  |
|  | Hopkins Medicine | https://www.hopkinsmedicine.org/ | ● COMPLETED | 0 |  |
|  | Massachussets General | https://www.massgeneral.org/ | ● COMPLETED | 855 |  |



LieLine

How to build a LieLine


Search engine information

| Label | Alias |
|--------------------------------------|--|
| <input type="text" value="LieLine"/> | <input type="text" value="6846eb30a36c765b67016050"/> https://all.site/6846eb30a36c765b67016050 |

About

Your direct connection to misinformation.

Most popular searches



LieLine

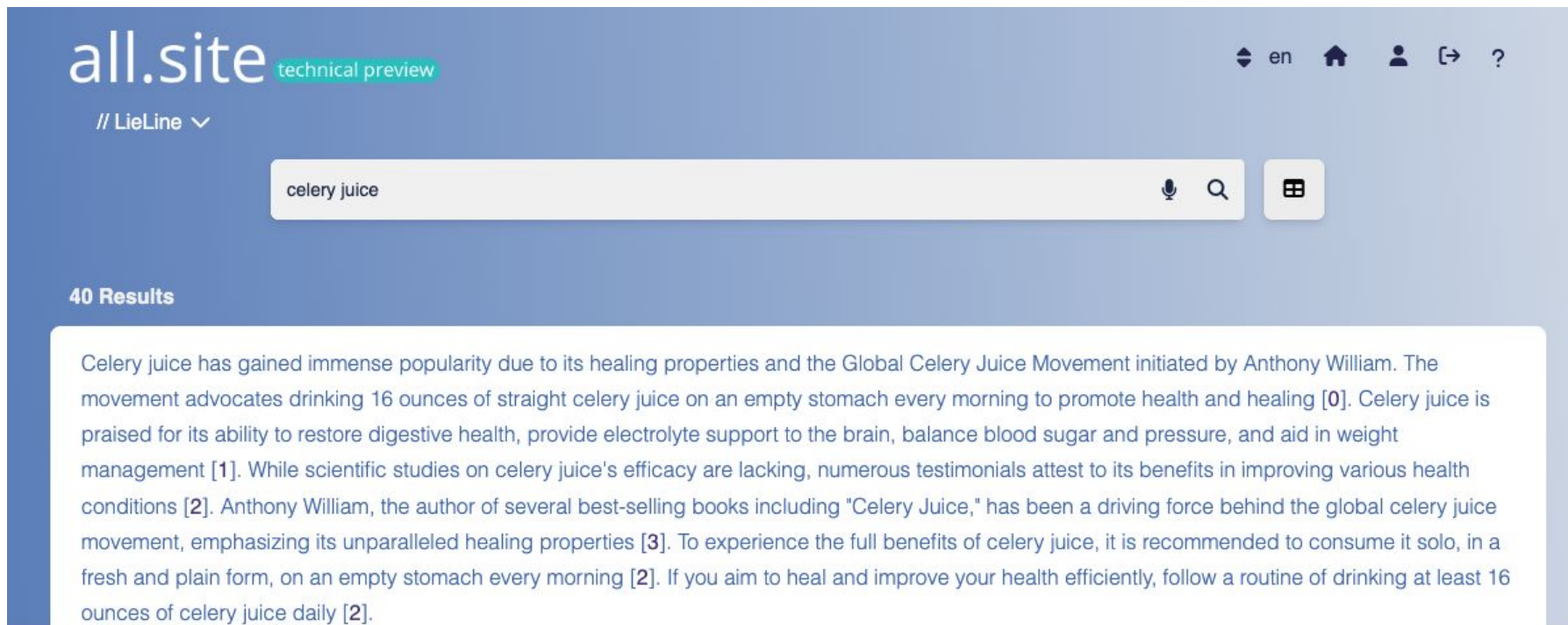
Your direct connection to misinformation.

[Search engine page](#)

[Unpublish](#)



Let's test our sources: "celery juice"



The screenshot shows the all.site search engine interface. At the top left is the 'all.site' logo with a 'technical preview' tag. To the right are navigation icons for language (en), home, user profile, and help. Below the logo is a breadcrumb trail '// LieLine ▾'. A search bar contains the text 'celery juice' with a microphone icon and a search icon to its right. Below the search bar, it says '40 Results'. The first result is a paragraph of text about celery juice.

all.site technical preview

// LieLine ▾

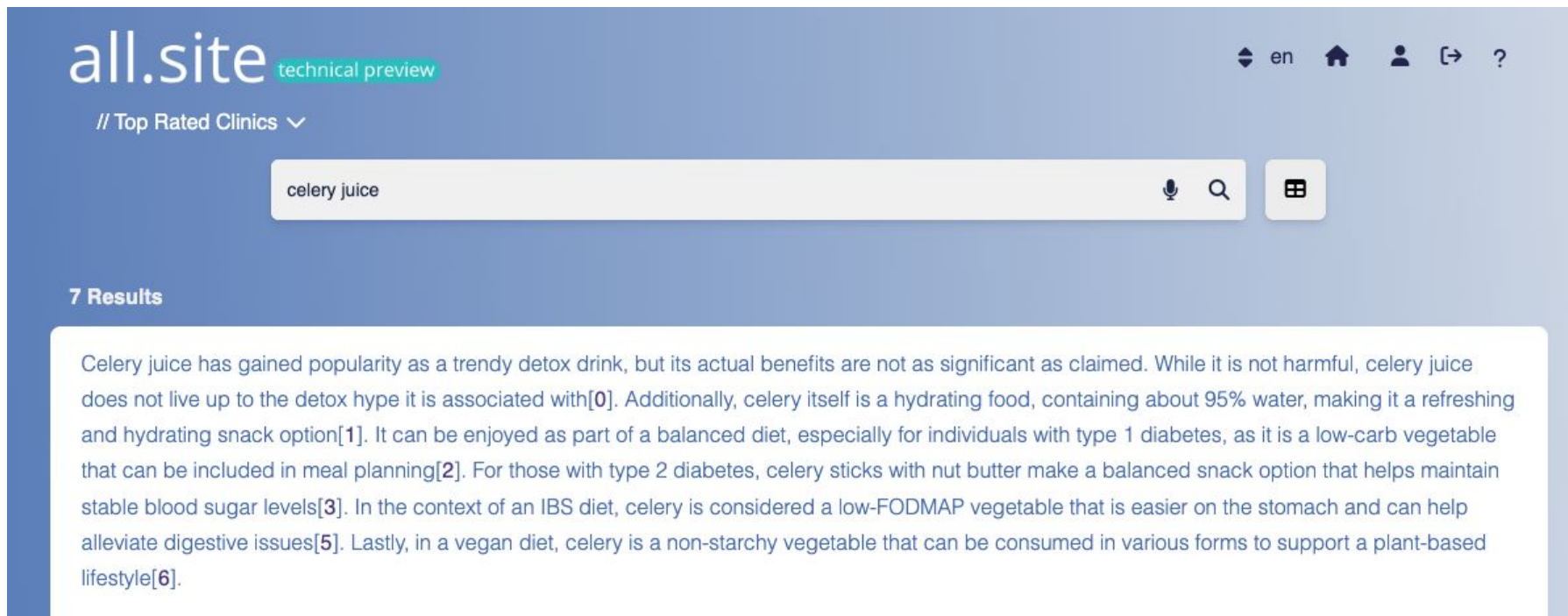
celery juice

40 Results

Celery juice has gained immense popularity due to its healing properties and the Global Celery Juice Movement initiated by Anthony William. The movement advocates drinking 16 ounces of straight celery juice on an empty stomach every morning to promote health and healing [0]. Celery juice is praised for its ability to restore digestive health, provide electrolyte support to the brain, balance blood sugar and pressure, and aid in weight management [1]. While scientific studies on celery juice's efficacy are lacking, numerous testimonials attest to its benefits in improving various health conditions [2]. Anthony William, the author of several best-selling books including "Celery Juice," has been a driving force behind the global celery juice movement, emphasizing its unparalleled healing properties [3]. To experience the full benefits of celery juice, it is recommended to consume it solo, in a fresh and plain form, on an empty stomach every morning [2]. If you aim to heal and improve your health efficiently, follow a routine of drinking at least 16 ounces of celery juice daily [2].



Let's test our sources: "celery juice"



The screenshot shows the all.site search interface. At the top left is the 'all.site' logo with a 'technical preview' tag. To the right are navigation icons for language (en), home, user profile, and help. Below the logo is a breadcrumb trail '// Top Rated Clinics'. A search bar contains the text 'celery juice' and has icons for voice search, manual search, and a grid view. Below the search bar, it says '7 Results'. The first result is a text block summarizing the popularity and health benefits of celery juice, citing various sources in brackets.

all.site technical preview

// Top Rated Clinics

celery juice

7 Results

Celery juice has gained popularity as a trendy detox drink, but its actual benefits are not as significant as claimed. While it is not harmful, celery juice does not live up to the detox hype it is associated with[0]. Additionally, celery itself is a hydrating food, containing about 95% water, making it a refreshing and hydrating snack option[1]. It can be enjoyed as part of a balanced diet, especially for individuals with type 1 diabetes, as it is a low-carb vegetable that can be included in meal planning[2]. For those with type 2 diabetes, celery sticks with nut butter make a balanced snack option that helps maintain stable blood sugar levels[3]. In the context of an IBS diet, celery is considered a low-FODMAP vegetable that is easier on the stomach and can help alleviate digestive issues[5]. Lastly, in a vegan diet, celery is a non-starchy vegetable that can be consumed in various forms to support a plant-based lifestyle[6].



Let's test our sources: *"are vaccines dangerous"*

// LieLine ▾

are vaccines dangerous



26 Results

Based on the search results, there is a significant amount of skepticism and concern surrounding vaccines, particularly related to mRNA Covid jabs. In Canada and the USA, vaccine skepticism is at an all-time high due to reported health issues post-vaccination, such as vascular clots, cancer, heart attacks, and strokes [0]. The FDA recently reversed its endorsement of Moderna's updated COVID-19 vaccine, limiting its recommendation to high-risk groups, citing concerns over health detriments caused by mRNA Covid jabs [1].

Moreover, there are discussions linking vaccines to autism, with some studies suggesting a connection [2]. Individuals like Tracy Slepcevic have raised awareness about the potential risks of vaccines, highlighting neurotoxic effects and advocating for informed decision-making when it comes to vaccination [9].

In light of these concerns and controversies, it is crucial for individuals to stay informed, ask questions, and prioritize their well-being when making decisions about vaccines. The data suggests a growing skepticism and caution regarding the safety and efficacy of certain vaccines, urging individuals to thoroughly research and consider all aspects before proceeding with vaccination.



Let's test our sources: *"are vaccines dangerous"*

// Official Health Info ▾

are vaccines dangerous



74 Results

Vaccines are not inherently dangerous; they are crucial for preventing serious illnesses and protecting public health. Vaccines help the body create antibodies to fight off infections, preventing diseases like measles, RSV, and more [4]. Measles, for example, can be particularly dangerous for babies, young children, and certain adults, leading to severe complications like pneumonia and encephalitis [0]. Similarly, RSV can pose risks, especially for older adults and infants, potentially causing hospitalizations and severe respiratory issues [1][5]. It's important to note that vaccines undergo rigorous testing for safety and effectiveness before approval. If you have concerns about vaccines, it's advisable to consult with healthcare providers to make informed decisions about vaccination [4].

Search suggestions:

Measles prevention

RSV vaccination

Vaccine recommendations for older adults

Questions:

What are the long-term complications of measles?

How does RSV affect older adults differently than infants?

What are the specific recommendations for RSV vaccination in older adults?



Source citation feature: “*What’s intermittent fasting?*”



Diet & Weight Loss - Harvard Health

diet-and-weight-loss

On this page you'll discover **What** 's the best diet for weight loss? **What** 's the healthiest diet? **What is intermittent fasting** ? **What** 's a high-fat weight loss diet? ... **What** do all of these diets have in common? They're all good for your heart, they all consist of natural unprocessed foods, and they all contain plenty of plant-based dishes. Eating for your health — especially your heart health — by

Via //Official Health Info



What To Know About Intermittent Fasting and Heart Health

intermittent-fasting-and-heart-health

Locations: Abu Dhabi|Canada|Florida|London|Nevada|Ohio| Health Essentials Health Library Find a Doctor Make an Appointment News Careers Contact Us Search Advertisement February 27, 2025/Health Conditions/Heart Health **What Intermittent Fasting** Can Do for Your Heart Studies show **intermittent fasting** may help you lose weight, improve blood pressure and more On the hunt for an eating

Via //Top Rated Clinics



Social Media Trends: What to Know About Heart Health and Obesity | Cedars-Sinai

social-media-trends.html

"Hormone therapy **is** not a substitute for statins." "I see people online who say that if you're on hormone therapy, you don't need to be on statin therapy, as if hormones are a cure-all," Gulati said. "Hormone therapy **is** not a substitute for statins." Studies show hormone therapy does not provide a cardiac benefit. ... Read: Menopause and Heart Health: **What** to Know Claim: **Intermittent fasting** helps you lose

Via //Top Rated Clinics



Summary with references: "How to sleep better?"

all.site technical preview

How to sleep better?

1249 Results

To improve your sleep quality, it's essential to understand the importance of sleep and how much you need based on your age. Adults aged 18 to 60 should aim for at least seven hours a night, while older adults may need slightly less. Children and teenagers require more sleep with toddlers needing 11 to 14 hours, preschoolers 10 to 13 hours, and teenagers eight to 10 hours [0][4]. Factors like insomnia, sleep apnea, and pregnancy can disrupt sleep patterns, leading to long-term issues [0]. Implementing sleep-promoting changes in your habits and environment is crucial for managing insomnia [0]. Additionally, maintaining good sleep hygiene, such as going to bed and waking up at the same time daily, avoiding caffeine and large meals before bed, and creating a comfortable sleep environment, can significantly enhance your sleep quality [4]. If you struggle with sleep, consider seeking professional help or exploring treatments like cognitive behavioral therapy for insomnia [4][9].

Part 2 - How answers get created



Summarization and question answering: Google.com

who was the first human on the moon?


✕ | 🔊 | 📷 | 🔍

All | Images | Videos | News | Short videos | Forums | Web | More ▾

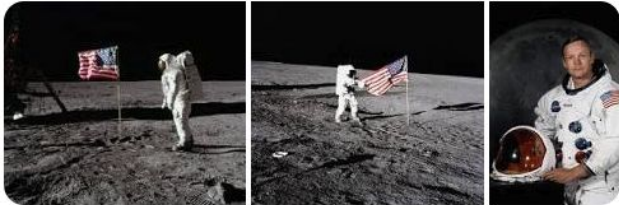
Tools ▾

Neil Armstrong

Neil Armstrong was the first human to walk on the surface of the moon. 11 Oct 2024

 NASA (.gov)
<https://www.nasa.gov> › mission › apollo-11

[Apollo 11 - NASA](#)



[About featured snippets](#) • [Feedback](#)

People also ask

Who was technically the first man on the Moon?

Who landed 2nd on the Moon?

Who was the first 3 person on the Moon?



Question answering: Bing



Microsoft Bing



when was the euro introduced



1 January 1999

According to 3 sources

The euro came into existence on **1 January 1999**, although it had been a goal of the European Union (EU) and its predecessors since the 1960s.

[History of the euro - Wikipedia](https://en.wikipedia.org/wiki/History_of_the_euro)
en.wikipedia.org

After a decade of preparations, the euro was launched on **1 January 1999**: for the first three years it was an 'invisible' currency, only used for accounting purposes and electronic payments.

[Euro – history and purpose ...](https://european-union.europa.eu/euro-history-and-purpose)
european-union.europa.eu

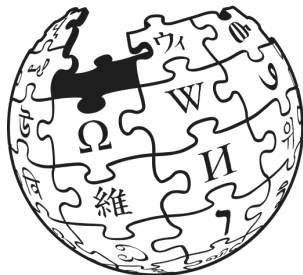


Feedback



NLP task: Question Answering

Context:



“The Amazon rainforest, also called **Amazon jungle or Amazonia**, is a moist broadleaf tropical rainforest in the Amazon biome that covers most of the Amazon basin of South America. This basin encompasses 7,000,000 km² (2,700,000 sq mi), of which 5,500,000 km² (2,100,000 sq mi) are covered by the rainforest. This region includes territory belonging to **nine** nations and 3,344 formally acknowledged indigenous territories.”

Question: What other name is used to describe the Amazon rainforest?

Answer: **the Amazon Jungle or Amazonia**

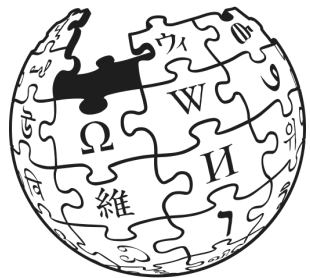
Question: How many countries the Amazon forest cover?

Answer: **nine**



NLP task: Generative Question Answering

Context:



“The **Amazon rainforest**, also called Amazon jungle or Amazonia, is a moist broadleaf tropical rainforest in the Amazon biome that covers most of the Amazon basin of South America. This basin encompasses 7,000,000 km² (2,700,000 sq mi), of which 5,500,000 km² (2,100,000 sq mi) are covered by the rainforest. This region includes territory belonging to nine nations and 3,344 formally acknowledged indigenous territories. **The majority of the forest is contained within Brazil, with 60% of the rainforest, followed by Peru with 13%, Colombia with 10%, and with minor amounts in Venezuela, Ecuador, Bolivia, Guyana, Suriname and French Guiana.**”

Question: How many countries the Amazon forest cover?

Answer: The Amazon rainforest covers 9 countries. It covers parts of the following countries: Bolivia, Brazil, Colombia, Ecuador, Guyana, Peru, French Guiana, Suriname and Venezuela.

Hugging Face NLP tasks overview



Full catalog

Tasks Libraries Datasets Languages Licenses Other

Filter Tasks by name

Multimodal

- Feature Extraction
- Text-to-Image
- Image-to-Text
- Text-to-Video
- Visual Question Answering
- Document Question Answering
- Graph Machine Learning

Computer Vision

- Depth Estimation
- Image Classification
- Object Detection
- Image Segmentation
- Image-to-Image
- Unconditional Image Generation
- Video Classification
- Image-to-Image Classification

NLP tasks

- Text Classification
- Token Classification
- Table Question Answering
- Question Answering
- Zero-Shot Classification
- Translation
- Summarization
- Conversational
- Text Generation
- Text2Text Generation
- Fill-Mask
- Sentence Similarity

Audio

- Text-to-Speech
- Automatic Speech Recognition
- Audio-to-Audio
- Audio Classification

Models 168,998 Filter by name

new Full-text search Sort: Most Downloads

bert-base-uncased
Updated Nov 16, 2022 • 41.1M • 671

jonatasgrosman/wav2vec2-large-xlsr-53-english
Updated 10 days ago • 31.3M • 51

gpt2
Updated Dec 16, 2022 • 19.8M • 837

xlm-roberta-base
Updated Nov 16, 2022 • 17.1M • 227

Davlan/distilbert-base-multilingual-cased-ner-hrl
Updated Jun 27, 2022 • 14.8M • 15

openai/clip-vit-large-patch14
Updated Oct 4, 2022 • 10.2M • 299

microsoft/layoutlmv3-base
Updated Dec 13, 2022 • 8.27M • 101

emilyalsentzer/Bio_ClinicalBERT
Updated 4 days ago • 8.21M • 119

distilbert-base-uncased
Updated Nov 16, 2022 • 7.95M • 10

distilroberta-base
Updated Nov 17, 2022 • 6.91M • 52

roberta-base
Updated 29 days ago • 6.45M • 10

xlm-roberta-large
Updated 11 days ago • 6.35M • 120

bert-base-cased
Updated Nov 16, 2022 • 6.27M • 87

t5-base
Updated Jan 24 • 6.23M • 167

openai/clip-vit-base-patch32
Updated Oct 4, 2022 • 5.78M • 144

albert-base-v2
Updated Aug 30, 2021 • 3.48M • 47

runwayml/stable-diffusion-v1-5
Updated Jan 27 • 3.26M • 6.51k

bert-base-multilingual-cased
Updated Nov 17, 2022 • 2.81M • 123

google/electra-base-discriminator

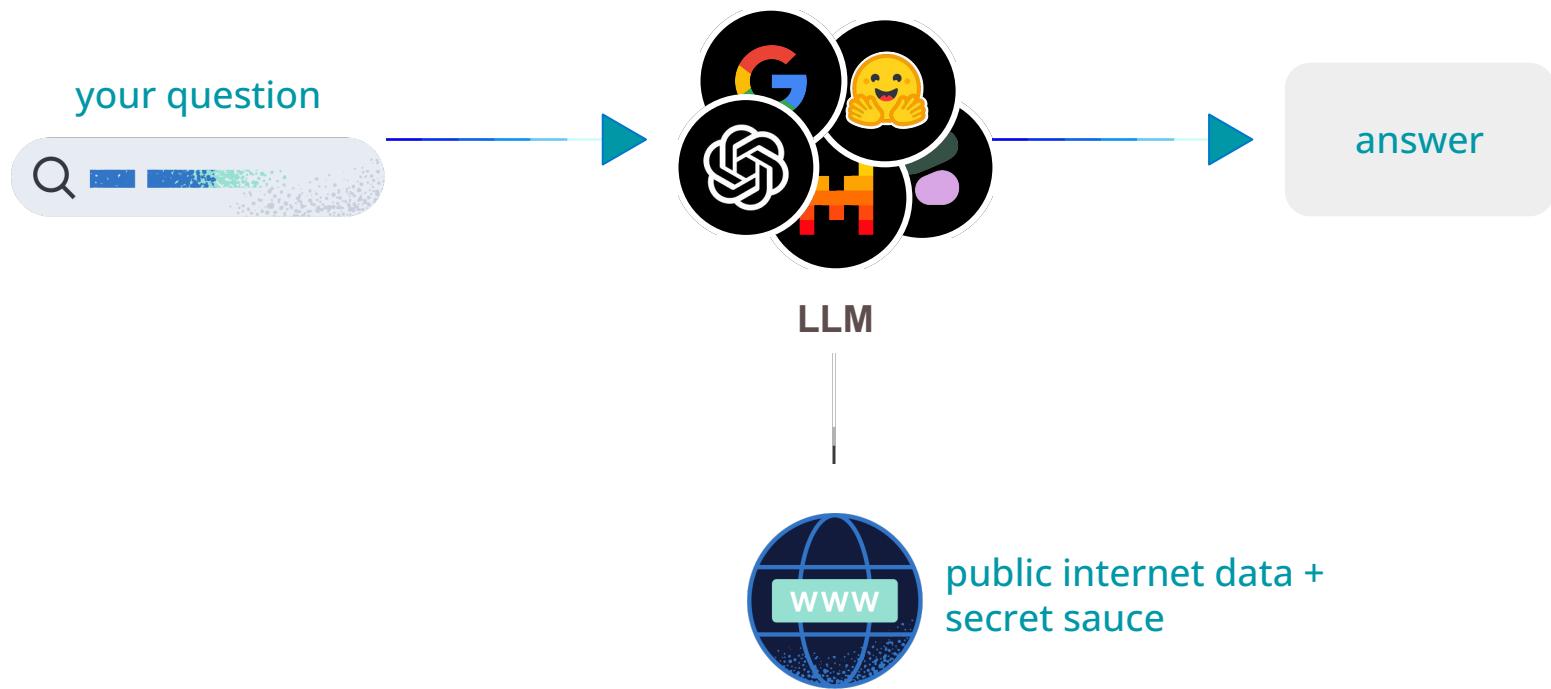
facebook/bart-large-mnli

Pre-trained models





Question answering with LLMs



<https://www.elastic.co/blog/beyond-rag-basics>



Large Language Models limitations

Hallucinations

Responses are based on
statistical patterns
No built-in fact checking

Bias and safety risks

LLMs can be biased and
generate harmful information

Opaque data sources

We don't have access to the
training data



RAG to the rescue

RAG = Retrieval Augmented Generation

|
Vector
database

|
LLM



RAG to the rescue

RAG = Retrieval Augmented Generation

|
Vector
database

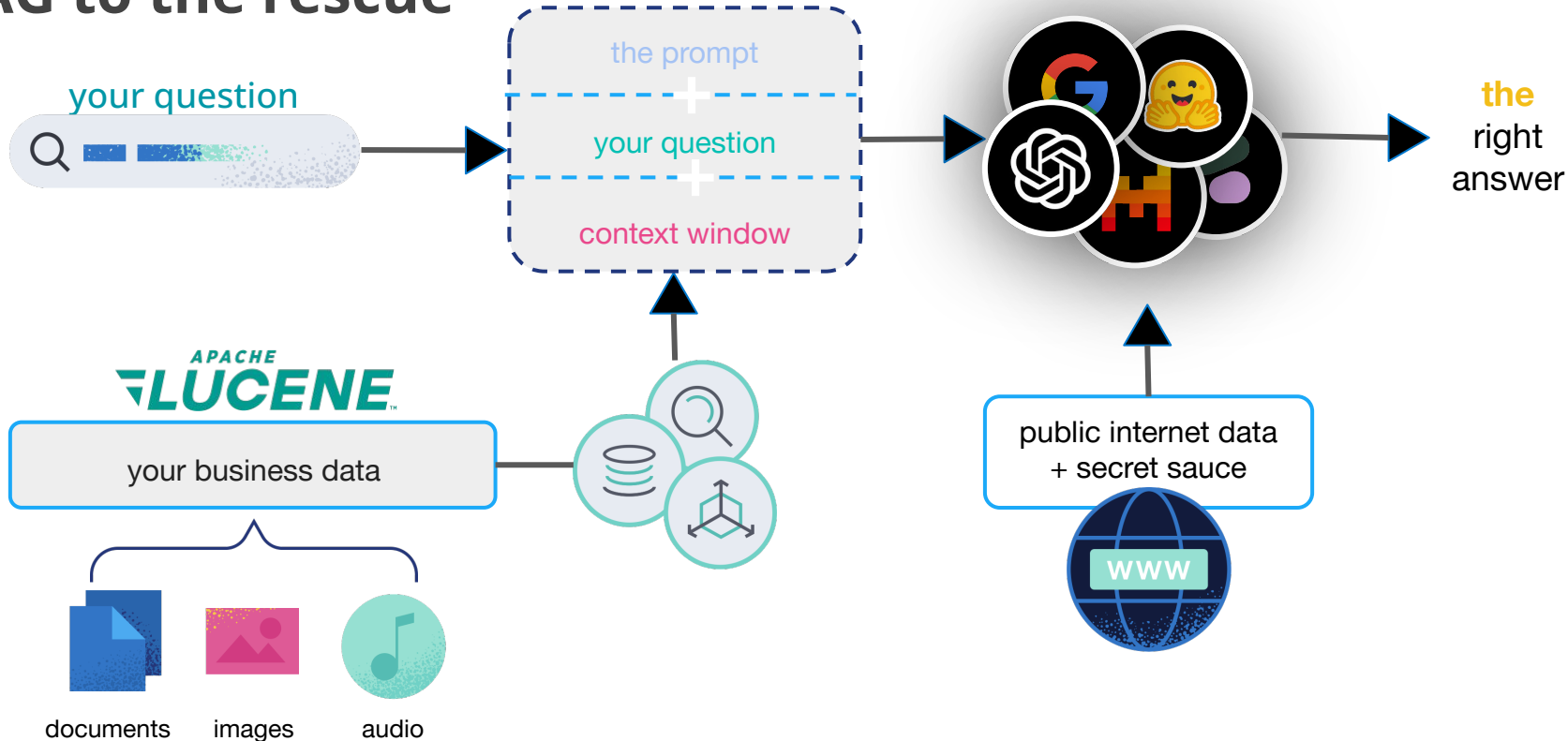
|
LLM

RAG grounds its responses in **a real knowledge base**, so the LLM doesn't have to "guess" facts.

You know exactly where the response comes from, and can even **ask the model to cite its sources**.



RAG to the rescue



<https://www.elastic.co/blog/beyond-rag-basics>



Search engines + Large Language Models =

Search engines:

- ++ Have a comprehensive knowledge base
- ++ Respond effectively and appropriately
- + Summarize
- + Hold a conversation and understand context
- + Adapt and learn
- + Understand human language (NLU, NLP)
- (+) Understand speech
- (+) Enable multimodal interactivity
- Automate tasks

Large Language Models

- ++ Understanding human language (NLU, NLP)
- ++ Synthesizing
- ++ Holding a conversation and understanding context
- + Having a comprehensive knowledge base
- + Adapting and learning
- (+) Enabling multimodal interactivity
- (+) Understanding speech
- (+) Automating tasks
- Responding effectively and appropriately



Prompt engineering to enforce source citation

Playground

Load a preset...

Save

View code

Share

...

Web search results:

[1] "A large language model, or LLM, is a deep learning algorithm that can recognize, summarize, translate, predict and generate text and other content based on knowledge gained from massive datasets."

URL: <https://blogs.nvidia.com/blog/2023/01/26/what-are-large-language-models-used-for/>

[2] A large language model (LLM) is a language model consisting of a neural network with many parameters (typically billions of weights or more), trained on large quantities of unlabelled text using self-supervised learning. LLMs emerged around 2018 and perform well at a wide variety of tasks. This has shifted the focus of natural language processing research away from the previous paradigm of training specialized supervised models for specific tasks.

URL: https://en.wikipedia.org/wiki/Large_language_model

Instructions:

Using the provided web search results, write a comprehensive reply to the given query.

Make sure to cite results using [[number](URL)] notation after the reference.

If the provided search results refer to multiple subjects with the same name, write separate answers for each subject.

Query: What is a large language model?

A large language model (LLM) is a deep learning algorithm that can recognize, summarize, translate, predict and generate text and other content based on knowledge gained from massive datasets [[1](<https://blogs.nvidia.com/blog/2023/01/26/what-are-large-language-models-used-for/>)]. LLMs typically consist of a neural network with many parameters (often billions of weights or more), which is trained on large amounts of unlabelled text using self-supervised learning [[2](https://en.wikipedia.org/wiki/Large_language_model)]. The emergence of LLMs in 2018 has revolutionized the practice of natural language processing by shifting the focus away from training supervised models for specific tasks.



Looking for ChatGPT?

[Try it now](#)



Mode

Complete

Model

text-davinci-003

Temperature

1

Maximum length

256

Stop sequences

Enter sequence and press Tab

Top P

1

Frequency penalty

0

Presence penalty

0

Best of

1

Inject start text





Obtaining relevant results from ChatGPT

HAYSTACK

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Opening Keynote - Relevance in the Age of Generative Search

Trey Grainger • Location: Theater 5 • [Back to Haystack 2023](#)

The search relevance landscape is rapidly shifting. Due to the rise of Transformers and Large Language Models (LLMs) and the more recent emergent capabilities shown with Foundation Models, public search engines are now rushing to integrate models like chatGPT directly into the search experience as a form of "generative search". These models can perform abstractive question answering, summarization, and even new content generation, but when untethered from underlying search results, often hallucinate bogus or misleading information. As search relevance practitioners, it's important for us to know how these technologies work and how to best integrate them into search experiences to drive accurate, relevant results. In this talk, we'll walk through code examples and strategies to integrate this emerging class of language models into our search applications, covering the limitations of the models amidst other relevance techniques as well as the amazing new capabilities they enable.

[Download the Slides](#)

[Watch the Video](#)



Trey Grainger
Presearch





all.site: search results summarization and source citation

The screenshot shows the all.site search interface. At the top left is the 'all.site' logo with a 'technical preview' badge. To the right are navigation icons for language (en), home, user profile, share, and help. Below the logo is a search bar containing the text 'How to sleep better?'. To the right of the search bar are icons for voice search, a magnifying glass, and a grid view. Below the search bar, it says '1249 Results'. A large white box contains a summary snippet of the search results.

all.site technical preview

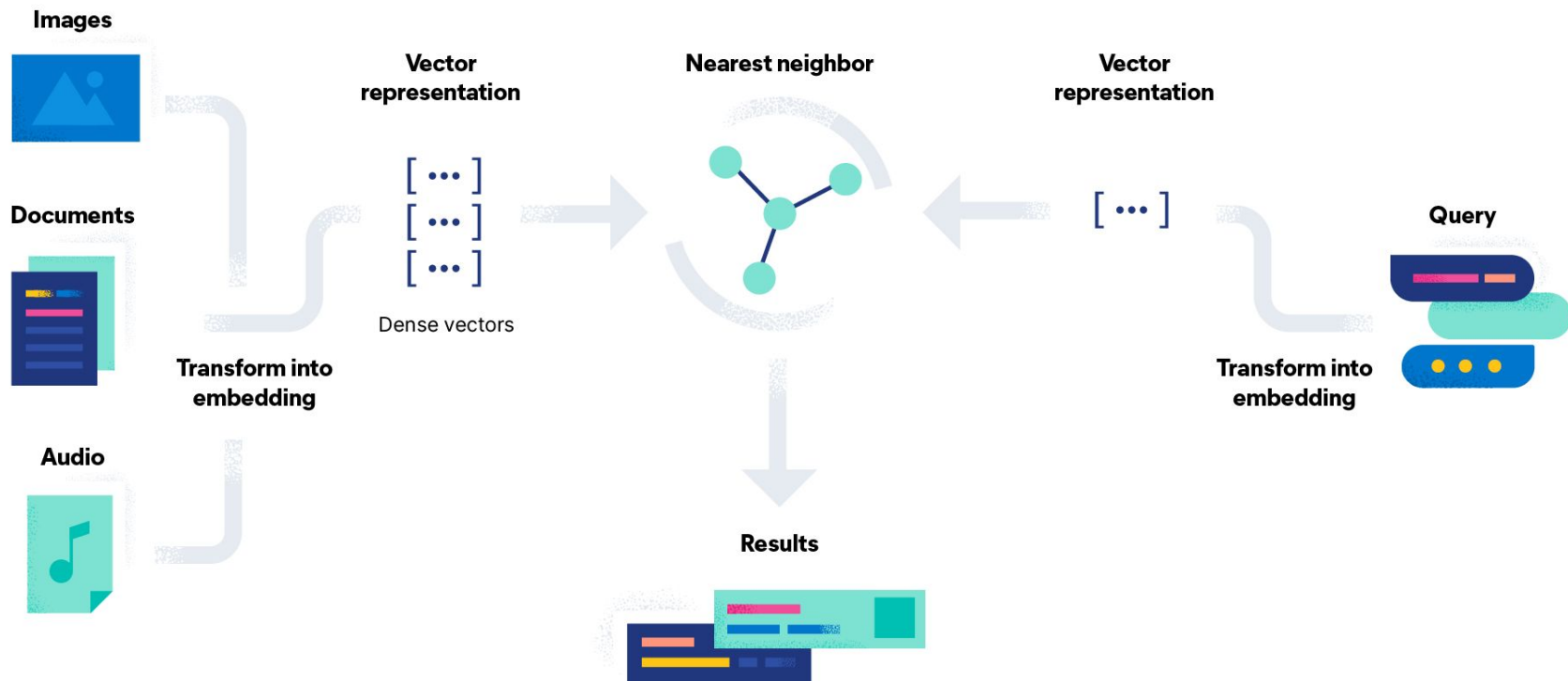
How to sleep better?

1249 Results

To improve your sleep quality, it's essential to understand the importance of sleep and how much you need based on your age. Adults aged 18 to 60 should aim for at least seven hours a night, while older adults may need slightly less. Children and teenagers require more sleep with toddlers needing 11 to 14 hours, preschoolers 10 to 13 hours, and teenagers eight to 10 hours [0][4]. Factors like insomnia, sleep apnea, and pregnancy can disrupt sleep patterns, leading to long-term issues [0]. Implementing sleep-promoting changes in your habits and environment is crucial for managing insomnia [0]. Additionally, maintaining good sleep hygiene, such as going to bed and waking up at the same time daily, avoiding caffeine and large meals before bed, and creating a comfortable sleep environment, can significantly enhance your sleep quality [4]. If you struggle with sleep, consider seeking professional help or exploring treatments like cognitive behavioral therapy for insomnia [4][9].



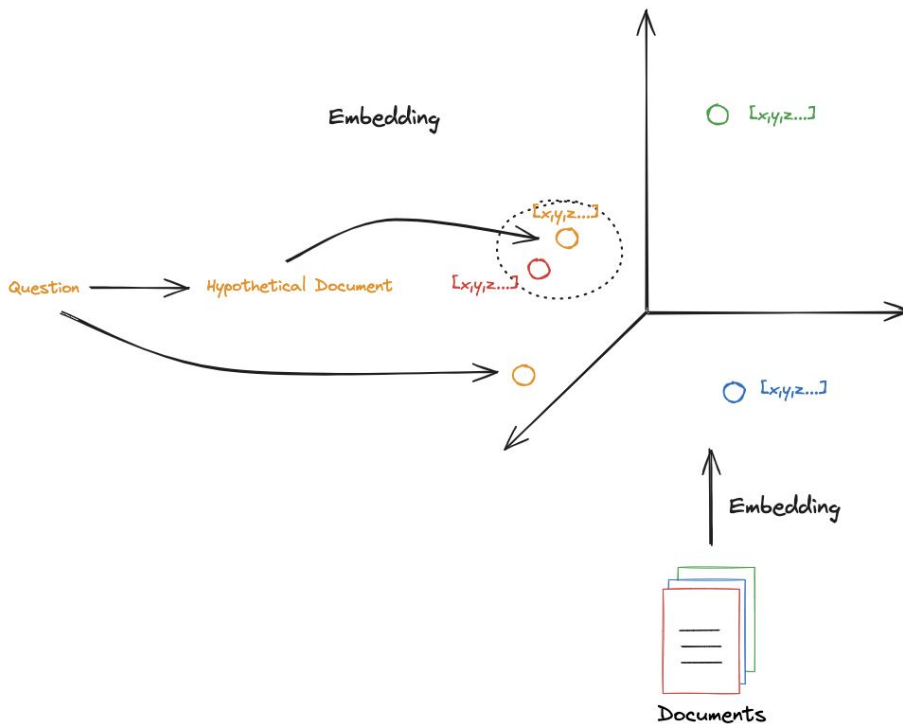
Text embedding and vector search



[Qu'est-ce que la recherche vectorielle ? Une recherche plus efficace avec le ML | Elastic](#)



Query rewriting: HyDE



RAG from scratch: Part 9
(Query Translation -- HyDE)
<https://youtu.be/SaDzIVkYqyY>



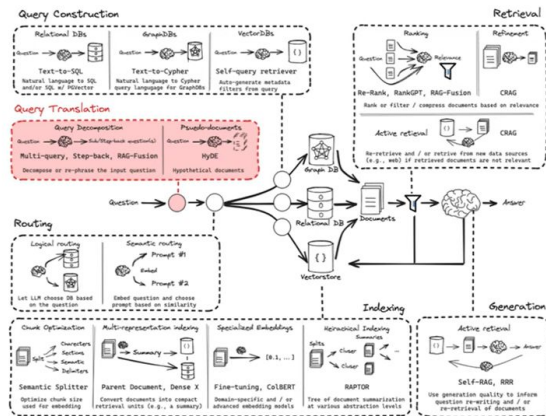
RAG from Scratch - Query Translation - LangChain on YouTube



Search



Query Translation



RAG from scratch: Part 5 (Query Translation -- Multi Query)



LangChain
45.7K subscribers

Subscribe

241



Share



Download



Clip



Save



https://www.youtube.com/playlist?list=PLfaIDFEXuae2LXbO1_PKyVJiQ23ZztA0x



Query rewriting

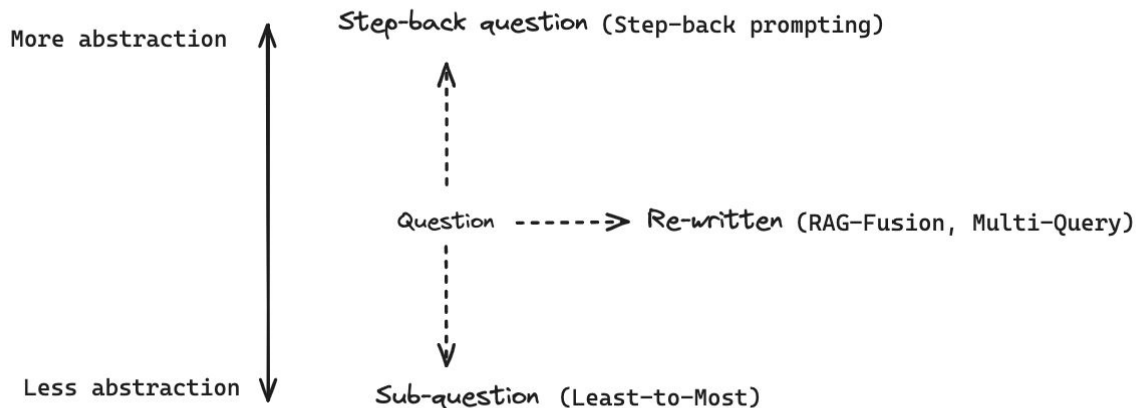
Multi Query

RAG Fusion

Decomposition

Step Back

HyDE



RAG from Scratch - LangChain on YouTube

https://www.youtube.com/playlist?list=PLfalDFEXuae2LXbO1_PKyVjiQ23ZztA0x



Conversational search with “manual” query decomposition

still being studied, and individual results may vary [1]. Time-restricted eating, a form of intermittent fasting, can lead to metabolic changes that aid in weight loss by lowering insulin levels and promoting fat burning [5]. Before starting any fasting plan, especially if you have certain health conditions or are on medications, it's advisable to consult with a healthcare provider to ensure safety and suitability [2].

Search suggestions:

Heart Health

Weight Loss Diet

Intermittent Fasting

Questions:

What are the risks associated with time-restricted eating and intermittent fasting?

How does the Cleveland Clinic Diet app work for weight loss?

Is there evidence supporting the long-term effectiveness of the ketogenic diet for weight loss?

What are the risks associated with time-restricted eating and intermittent fasting?

Time-restricted eating and other forms of intermittent fasting are not suitable for everyone. Risks include potential negative effects for those who are pregnant, malnourished, dealing with low blood sugar (hypoglycemia), on certain medications, or are children. Restricted eating may also not be recommended for women in perimenopause due to potential hormonal effects. Additionally, if you are being treated for a chronic disease, it is advised to consult with a healthcare provider before starting any fasting plan to ensure it can be done safely.


Type your question here...



Part 3 - Broadening the search




Reverse image search



[All](#)[Exact matches](#)[Products](#)[Homework](#)[Visual matches](#)[About this image](#)[Feedback](#)

Visual matches




WATE - The Swamp Trading Company

14/07/19

DISCONTINUED EDIT: A lot of people are misreading this post. This was the aftermath of Hyde Park 420 - and was 'taken up' by Extinction Rebellion (see: Twitter) as nothing but supporters of 420. Please don't 'let' the good rally before being off the handle, people.


This is entirely false after 420. As stated in the post, 1000s of people were present and many were, as many of you stated, the 'banned' to clean up after yourselves. Some for a movement that made a point in such high regard - as a community you can do better - you need to do better. EDIT: Please this is in the comments, but all the ended up being cleaned up by a crew from Extinction Rebellion, which included the absolute eco-warrior beyond. Download!



7NEWS


FACT CHECK: The real story behind viral photo of rubbish...

See exact matches



Related search

Hyde Park, London




Australian Youth Coal Coalition

Look at the mess today's climate protesters left behind in beautiful Hyde Park

20 Sept 2019


23 April 2019



x.com


Sleeping Giants Oz

X: "FAKE NEWS ALERT" ...




Reddit

Australian Youth Coal Coalition re-shares fake picture of park...




IMDb

Ouvrez les guillemets (Série télévisée 2017–2023) - IMDb




The Quint




Chad Prather
@WatchChad

The aftermath of today's climate change gathering in Hyde Park.



7:52 AM · Sep 21, 2019 · Twitter for iPhone

67 **HAYSTACK**

 **adelean**
EXTRACT TRANSFORM SEARCH

Reverse image search



Chad Prather
@WatchChad

The aftermath of today's climate change gathering in Hyde Park.



7:52 AM · Sep 21, 2019 · Twitter for iPhone

12.3K Retweets 32.2K Likes

Fake news!



The Royal Parks
@theroyalparks · Follow



There's a lot of incorrect information doing the Twitter rounds this morning. This photo is the result of an unofficial event in Hyde Park on Saturday, not the [#ExtinctionRebellion](#) protestors in Marble Arch.

It costs us millions to clear [#litter](#) every year. Please take it home.

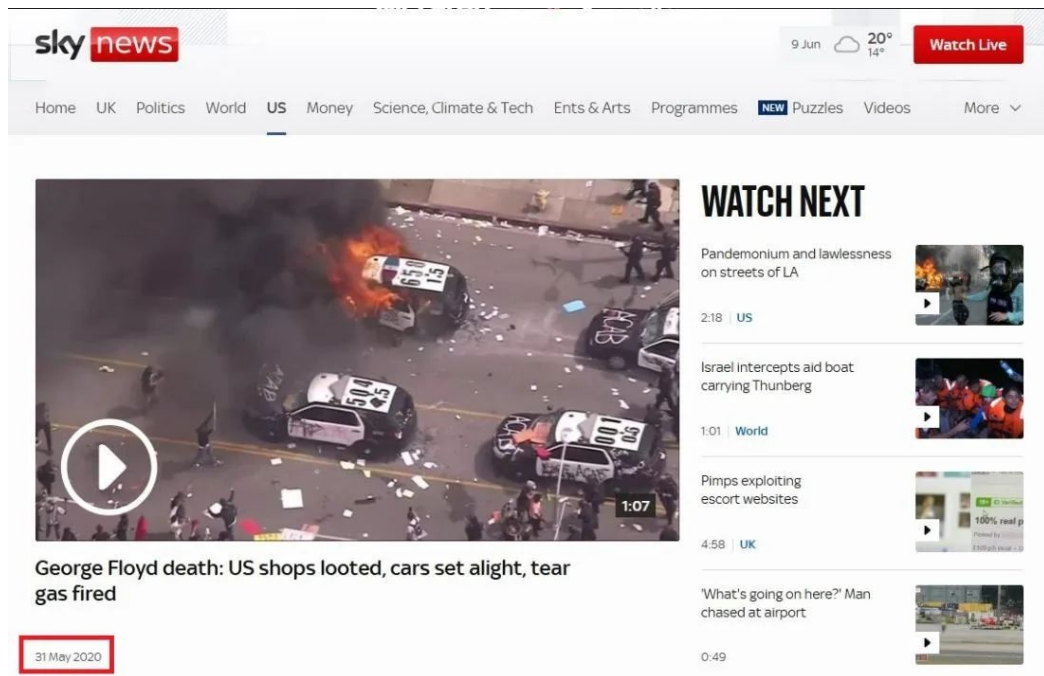
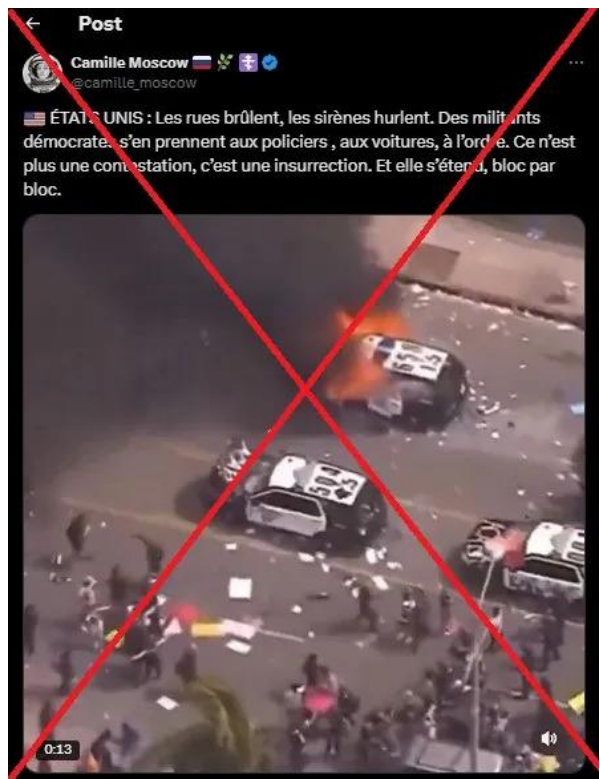


11:11 AM · Apr 23, 2019





Reverse image search



[Non, cette vidéo ne montre pas les récentes manifestations à Los Angeles](#)

Similar results

who is isaac newton

Explore more



Galileo
Galilei



Albert
Einstein



Johannes
Kepler



Gottfried
Wilhelm...



Nicolaus
Copernicus

Image: Getty Images. Data: Wikipedia · skyatnightmagazine.com · esa.int · totallyhistory.com
Wikipedia text under CC-BY-SA license

Feedback



Bing

when was the internet created?

All Images Videos News Forums Short videos Web More

January 1, 1983

January 1, 1983 is considered the official birthday of the Internet.



University System of Georgia

https://www.usg.edu/skills/unit07/internet07_02

[A Brief History of the Internet - University System of Georgia](#)

About featured snippets Feedback

People also ask

When was the Internet released to the public?

Did the Internet exist in 1999?

When was the Internet invented in 1969?

Did we have Internet in 1994?

Google



The More like this query in Apache Lucene

more_like_this query

The `more_like_this` query finds documents that are "like" a given set of documents. To do so, MLT selects a set of representative terms of these input documents, forms a query using these terms, executes the query and returns the results. The user controls the input documents, how the terms should be selected and how the query is formed.

The simplest use case consists of asking for documents that are similar to a provided piece of text. Here, we are asking for all movies that have some text similar to "Once upon a time" in their "title" and in their "description" fields, limiting the number of selected terms to 12.

```
GET /_search
```

```
{
  "query": {
    "more_like_this" : {
      "fields" : ["title", "description"],
      "like" : "Once upon a time",
      "min_term_freq" : 1,
      "max_query_terms" : 12
    }
  }
}
```



“More like this” on all.site

all.site technical preview

What is intermittent fasting?

14 Results

Unfold the summary

Diet & Weight Loss - Harvard Health
diet-and-weight-loss

On this page you'll discover **What** 's the best diet for weight loss? **What** 's the healthiest diet? **What** is inter...
What 's a high-fat weight loss diet? ... **What** do all of these diets have in common? They're all good for your health...
natural unprocessed foods, and they all contain plenty of plant-based dishes. Eating for your health — especially y...

Via //Official Health Info

The Diet Review: 39 popular n...
Dietary study, nutrition research, scholarly articl...

Lose Weight and Keep It Off - ...
Healthy Solutions to Lose Weight and Keep it ...

Best Weight Loss Diets From ...
Looking for the best weight loss diets? We offer...

Post-...
There are...

Cached version

More like this

Summarize this document

Part 4 - Information classification



Sentiment analysis: a simple NLP task



My experience
so far has been
fantastic!

POSITIVE



The product is
ok I guess

NEUTRAL



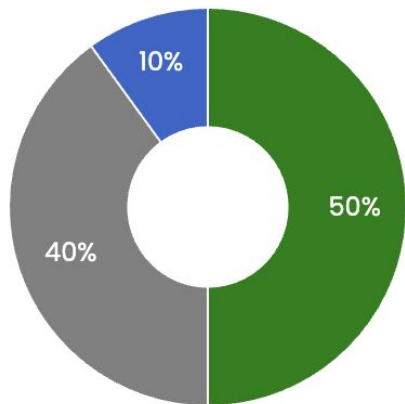
Your support team
is useless

NEGATIVE

Example: https://huggingface.co/SamLowe/roberta-base-go_emotions

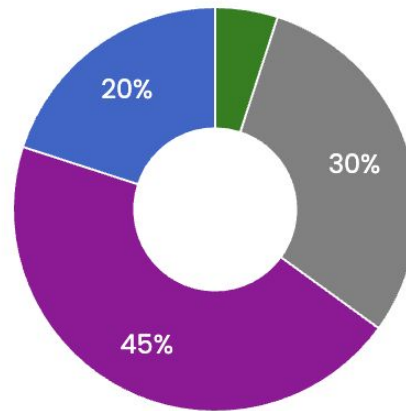


Tone of voice detection



😊 Positive 😐 Neutral 😞 Sad

An article summarizing the takeaways from a well-known conference



😊 Positive 😐 Neutral 😡 Frustrated 😞 Sad

A politically biased article on a controversial news story



Smallest model, best performance

Data Science

Scale

Store

Building a knowledge graph for climate policy

Session Abstract

At Climate Policy Radar, we're building an open-source knowledge graph for climate policy. In this talk, we'll share how we combine in-house expertise with scalable data infrastructure to identify key concepts in thousands of global climate policy documents. We'll also touch on ontology design, equitable evaluation, and the climate impacts of AI.

Session Description

We'll take you on a technical deep-dive into how we've built and scaled a knowledge graph which maps the relationships between thousands of climate policy concepts, and identifies where those concepts appear in our corpus of climate policy and other climate-relevant documents.

We'll share the high-level methodology, infrastructure decisions, and evaluation framework which have allowed our small team to process millions of passages of text while maintaining high standards for fairness and accuracy.

Kesselhaus

16.Jun 2025 12:00pm - 12:40pm

Talk



Harrison Pim



Fred O'Loughlin



Kesselhaus

16.Jun 2025

12:00pm - 12:40pm

Building a knowledge graph for climate policy

<https://2025.berlinbuzzwords.de/session/building-a-knowledge-graph-for-climate-policy/>

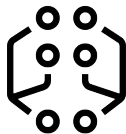


Zero-shot classification: a powerful NLP task

Assigns labels to data from classes never seen during training

Input:

"I have a problem with my
iphone that needs to be
resolved asap!!"



Possible classes

Urgent, phone, ios,
computer, android, not
urgent, tablet

| | |
|------------|-------|
| urgent | 0.999 |
| phone | 0.995 |
| ios | 0.227 |
| computer | 0.135 |
| android | 0.016 |
| not urgent | 0.001 |
| tablet | 0.000 |

Example: <https://huggingface.co/facebook/bart-large-mnli>



Natural Language Inference models

Natural Language Inference models

NLI: the task of determining whether a “hypothesis” is true, false, or undetermined given a “premise”.

| Premise | Hypothesis | Label |
|--|--|---------------|
| A man inspects the uniform of a figure in some East Asian country. | The man is sleeping. | contradiction |
| An older and younger man smiling. | Two men are smiling and laughing at the cats playing on the floor. | neutral |
| A soccer game with multiple males playing. | Some men are playing a sport. | entailment |

[Stefano Fiorucci | Fact Checking Rocks](#)

<https://youtu.be/4L8lw9CZNbU>



Natural Language Inference models

YouTube

>BLN
BZZ/
WRDS

Fact Checking Rocks: the idea

The diagram illustrates the architecture of the Fact Checking Rocks system. It starts with a document (represented by a stack of papers) which undergoes 'Preprocessing' and 'Encoding' to be stored in a 'Document Store'. A 'Statement to check' is input into an 'Embedding Retriever', which then queries the 'Document Store' to retrieve 'Top K passages'. These passages are fed into an 'Entailment checker', which outputs one of three results: 'Entailment', 'Neutral', or 'Contradiction'.

5:18 / 36:56

Stefano Fiorucci - Fact Checking Rocks: how to build a fact-checking system



Plain Schwarz
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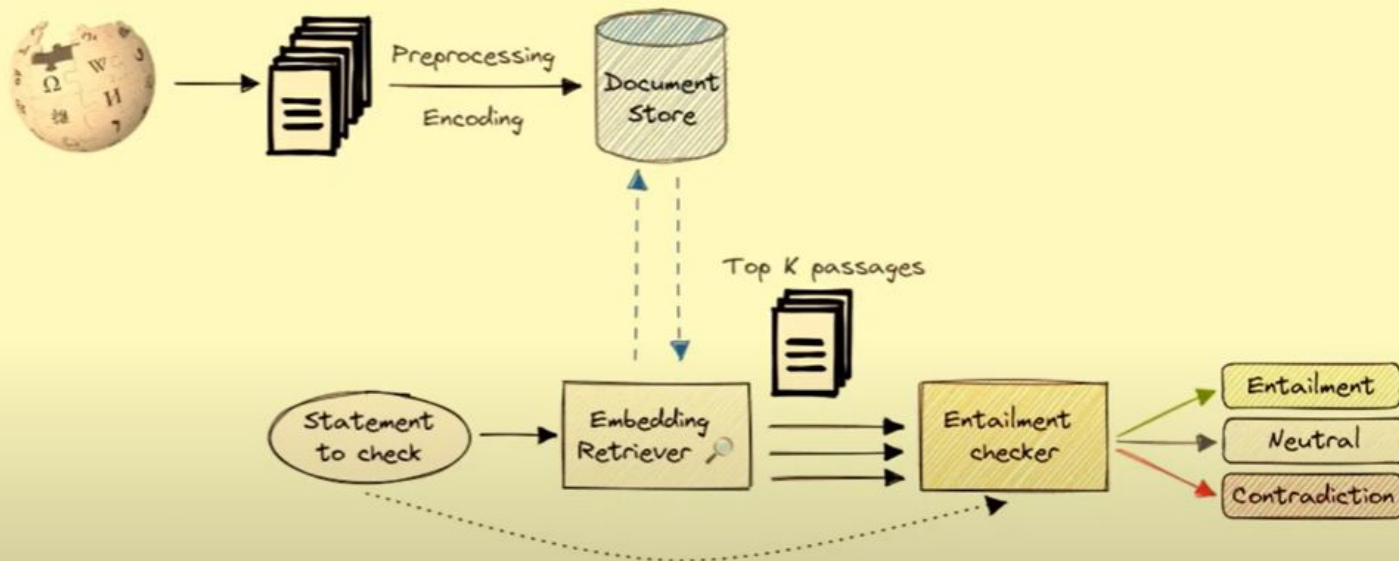
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Natural Language Inference models

Fact Checking Rocks: the idea



[Stefano Fiorucci | Fact Checking Rocks](#)

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Opinions or facts?

"If people knew all the potent healing properties of celery juice, it would be widely hailed as a miraculous superfood. Celery has an incredible ability to create sweeping improvements for all kinds of health issues." ([source](#))

Identified facts (1)

If people knew all the potent healing properties of celery juice, it w...



Potentially false

While celery juice does contain beneficial compounds like antioxidants and anti-inflammatory substances, there is limited scientific evidence to support its status as a 'miraculous superfood.' It has potential health benefits but is not universally recognized as such.

<https://www.medicalnewstoday.com/articles/324932>

<https://health.clevelandclinic.org/celery-juice-is-a-trendy-detox-drink-but-does-it-actually-have-benefits>



Opinions or facts?

“Celery contains certain substances like flavonoids, which help reduce inflammation in your body. Flavonoids act like shields, protecting your cells from damage caused by inflammation.” [\(source\)](#)

Identified facts (1)

Celery contains certain substances like flavonoids, which help redu...



Potentially true

Celery indeed contains flavonoids, which are known for their anti-inflammatory properties. These compounds help reduce inflammation by protecting cells from damage.

<https://www.healthline.com/health/food-nutrition/health-benefits-of-celery>

<https://health.clevelandclinic.org/celery-juice-is-a-trendy-detox-drink-but-does-it-actually-have-benefits>



AI or human-written?

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Contrary to popular belief, creativity doesn't just happen when you're actively working—it flourishes when your mind has space to wander. Taking breaks, engaging in hobbies, or even daydreaming can lead to unexpected creative breakthroughs. Studies show that activities like walking, listening to music, or practicing mindfulness can boost idea generation by allowing your brain to make subconscious connections.

Similarly, play—whether through games, improv exercises, or experimenting without a goal—can free your thinking from limitations and inspire new, innovative ideas. Creativity isn't about forcing inspiration—it's about creating the right conditions for it to flow naturally.



The Impact of Renewable Energy on Global Economies



Grammarly Authorship

Introduction

In recent years, renewable energy has emerged as a cornerstone of global economic transformation. This essay explores the multifaceted impact of renewable energy on global economies, highlighting the potential for sustainable growth, job creation, and energy security.



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The user typed this text directly into the document.

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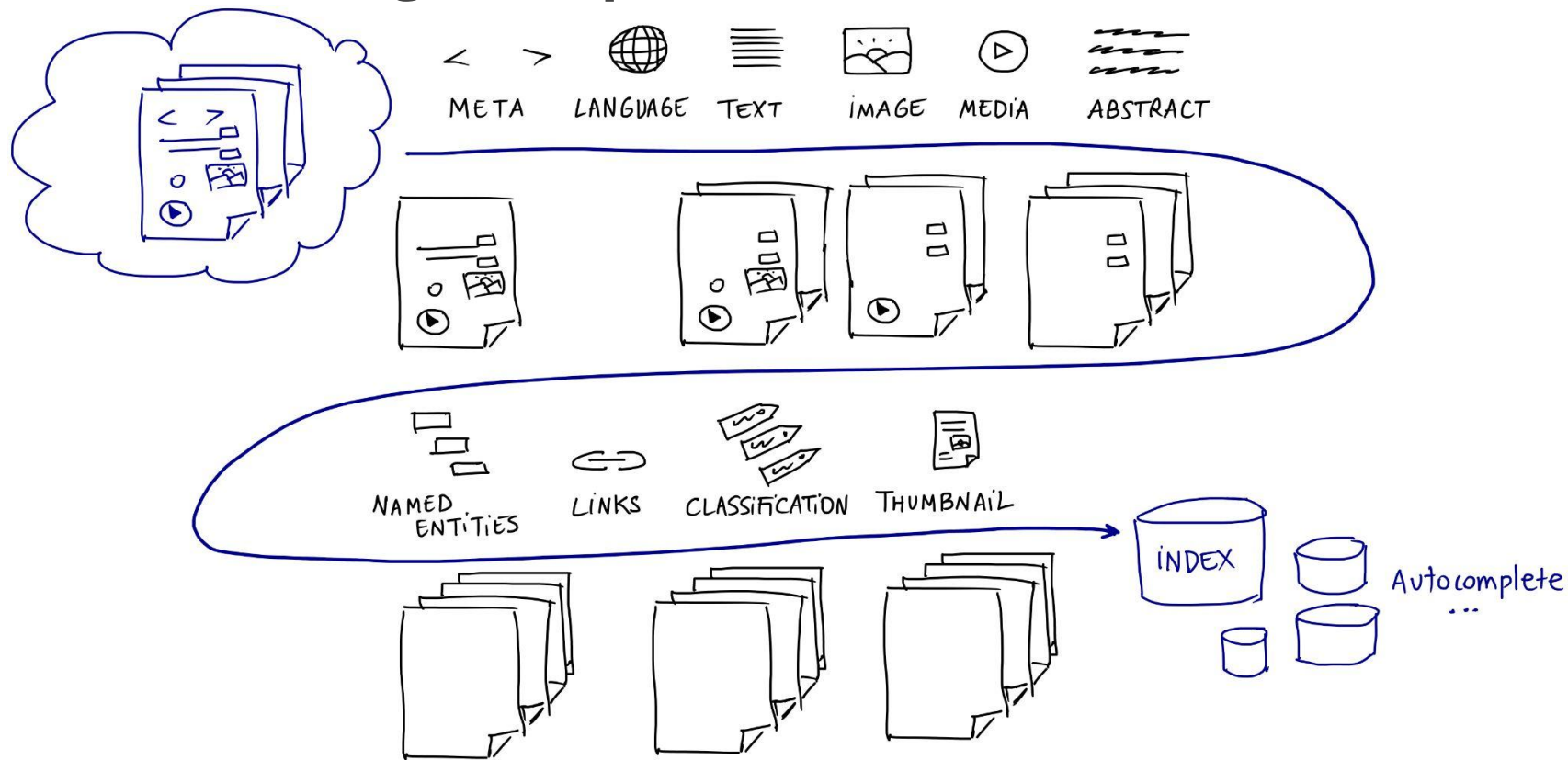
38

Words changed

23



all.site: indexing and updates



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to undertake an analysis of how plausible scenarios of the transition to low carbon vehicles in economy, energy security and the local environment.

will impact on consumers, the

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Rely on verified sources (government websites, officially recognized entities...)

Explore the web **selectively** and **purposefully**

Compensate for the **lack of time** with **automated tools** (search engines, AI-powered tools...)

Thank you!

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