

# SEARCH LITERACY



UNIVERSITY OF KELANIYA

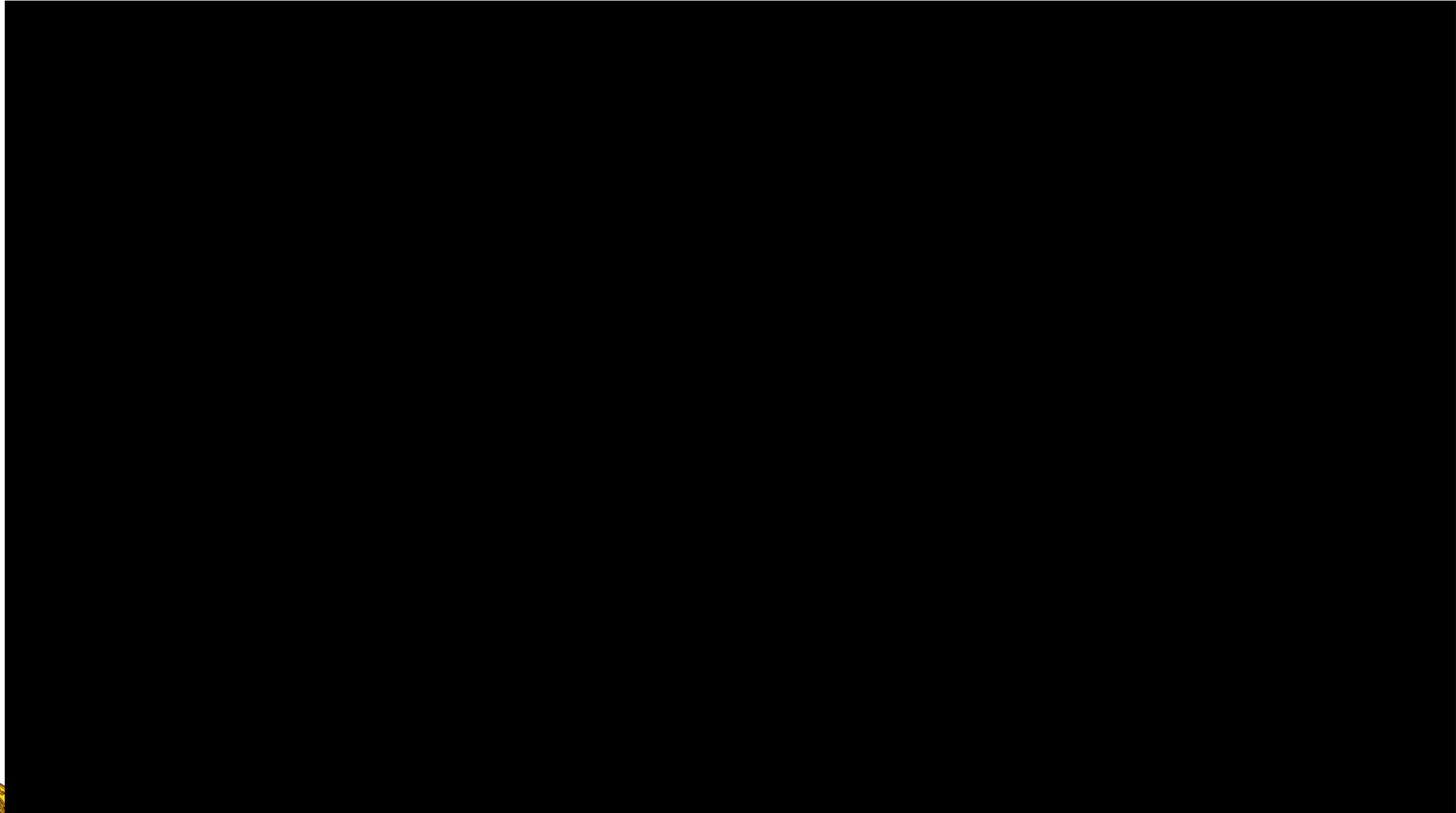
Computer Centre  
Faculty of Medicine

# What is ?

1. Internet
2. Web (WWW)
3. Browser
4. Search Engine
5. Google
6. Chrome



# What is ?



# What is a browser?



**What is the difference  
between a search engine  
and a browser?**



**Which browser do you use?**



**Have you heard of Chrome?**

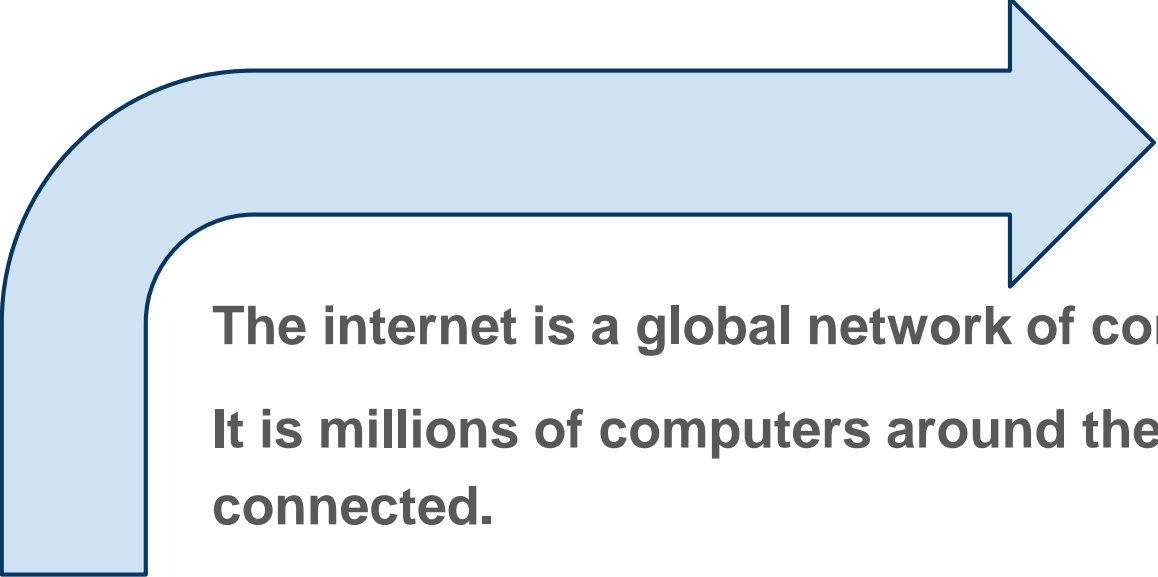


**Less than 8% of people  
who were interviewed on this day  
knew what a browser was.**



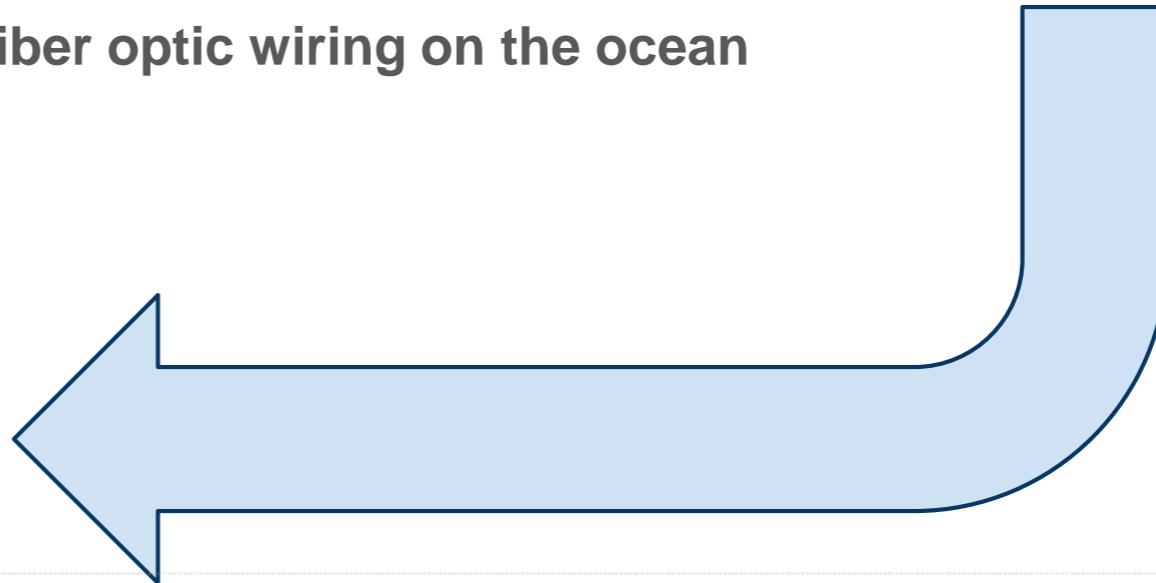
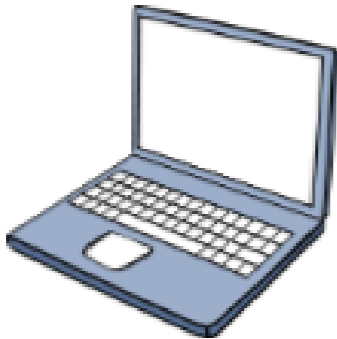
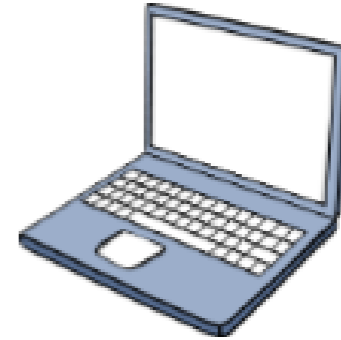


# What is the Internet?



The internet is a global network of computers.  
It is millions of computers around the world, all connected.

Every computer in the "inter-network", or internet, is connected by actual wires -- ethernet cables, phone lines, and fiber optic wiring on the ocean floor!



# What is the Web/WWW?

People often use the words "the internet" and "the web" interchangeably. Is there a difference?

- The World Wide Web is just one part of the internet.
- The Web consists of pages that can be accessed using a Web browser.
- The Hyper-Text Transfer Protocol (HTTP) is the method used to transfer Web pages to your computer.
- The internet also includes e-mail, instant messaging, multiplayer gaming, and FTP (peer-to-peer file sharing).



# What is a Browser?

- A browser is a tool to help you access the World Wide Web.



# Websites vs. Webpages

A website is a collection of webpages that belong to one domain or owner.

A webpage is a single document (which can include images, videos, charts, etc) viewable through a web browser.

For example, [www.sandiegozoo.org](http://www.sandiegozoo.org) is a website for the San Diego Zoo. "Hours & Directions" is one webpage on the website



# What is a Web Address?

A web address is the identifying address for a file, or webpage, on the internet.

Typing a web address into the browser bar, or address bar, allows you to access this file on the internet.

Another word for "web address" is URL.

An example of a web address is <http://www.kln.ac.lk>



# What is a Search Engine?

A search engine is a program to help you find webpages on the internet.

Search engines do not search the whole web, but only an *index* of the web.

Some examples of search engines include Google, Bing, Yahoo, and Ask.



# Deep Web vs. Visible Web

When you use a search engine, you only have access to the visible web -- the part of the web your search engine has indexed.

The entire web is much larger than any one search engine's index. It is estimated that the deep web is over 500 times the size of the visible web!

The deep web includes webpages that are not linked to by other pages, password-protected sites, and private databases (such as library catalogs).



# Understanding Search Engines





# Homepage

New Tab

← → ↻ 🔍

☆ ⋮

Apps For quick access, place your bookmarks here on the bookmarks bar. [Import bookmarks now...](#)

Gmail Images

# Google

Sri Lanka

Search Google or type URL

Logged In

Office 365 Login | Mic...

E-Learning Environme...

Google

Welcome to Google C...

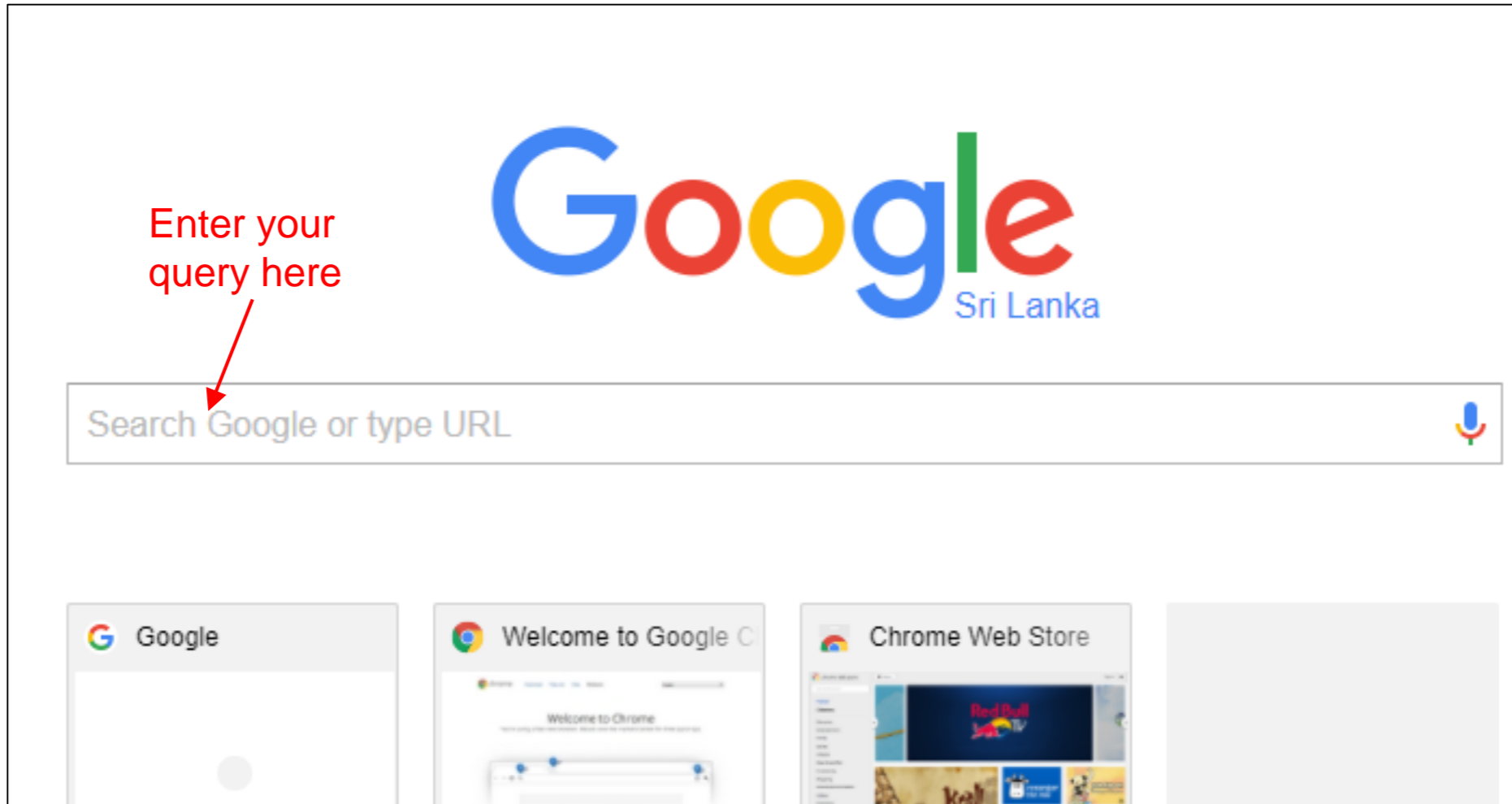
Chrome Web Store

Windows Ink Workspace



# Query

A "query" is the word or phrase you search



# Activity

- Search for the phrase **University of Kelaniya** in your browser and observe results



# The Search Engine Results Page

The screenshot shows a Google search results page for the query "university of kelaniya". The search bar at the top contains the text "university of kelaniya" and a search icon. Below the search bar, there are navigation tabs for "All", "Images", "News", "Videos", "Maps", "More", "Settings", and "Tools". The search results are displayed in a grid format. On the left side, there are several search results, including "Home - University of Kelaniya" with the URL "www.kln.ac.lk/" and a brief description of the university's mission. Below this, there are links to various faculties and departments, such as "Centre for Distance and ...", "Results", "Faculty of Social Sciences", "The Faculty of Graduate Studies", "Faculty of Commerce ...", and "The Faculty of Humanities". At the bottom left, there is a link to "Centre for Open and Distance Learning | University of Kelaniya - eUni.de" and "University of Kelaniya - Wikipedia". On the right side, there is a large knowledge panel for the "University of Kelaniya". This panel includes a circular logo of the university, a map showing the location of the university in Dalugama, Colombo, Sri Lanka, and a "See photos" button. Below the map, the text "University of Kelaniya" is displayed, followed by "University in Colombo, Sri Lanka" and buttons for "Website" and "Directions". The panel also contains a paragraph of text describing the university as a state university of Sri Lanka, located just outside the municipal limits of Colombo. It mentions that the university has two major campuses, seven locations, six faculties, and four institutions. Below this text, there is a "Wikipedia" link. Further down, the panel lists the "Address: Dalugama, Kelaniya 11600", "Phone: 011 2 903903", "Vice-Chancellor: Prof. Semasinghe Dissanayake", "Administrative staff: 771 academic, 637 non-academic", "Chancellor: Ven. Welamitiyawe Dharmakirithi Sri Kusala Dhamma Thero", and "Founded: 1959".

Google university of kelaniya

About 404,000 results (0.67 seconds)

**Home - University of Kelaniya**  
University of Kelaniya  
www.kln.ac.lk/ ▾  
The University of Kelaniya is committed to provide high quality education and to conduct high impact research which will contribute significantly to the ...

**Centre for Distance and ...**  
new registration, Centre for Distance and Continuing ...

**Results**  
University of Kelaniya Centre for Distance and Continuing ...

**Faculty of Social Sciences**  
Joomla! - the dynamic portal engine and content ...

[More results from kln.ac.lk »](#)

**The Faculty of Graduate Studies**  
Postgraduate study at MPhil (Master of Philosophy) and PhD ...

**Faculty of Commerce ...**  
The faculty of Commerce and Management Studies of the ...

**The Faculty of Humanities**  
The Faculty of Humanities in University of Kelaniya is a fine ...

**Centre for Open and Distance Learning | University of Kelaniya - eUni.de**  
www.euni.de/tools/jobpopup.php?...university=University...Kelaniya... ▾  
University of Kelaniya Centre for Distance and Continuing Education. Centre for Distance and Continuing Education logo. English; Sinhala; get sinhala unicode.

**University of Kelaniya - Wikipedia**  
https://en.wikipedia.org/wiki/University\_of\_Kelaniya ▾  
The University of Kelaniya is a state university of Sri Lanka, just outside the municipal limits of Colombo, in the city of Kelaniya, the university has two major campuses, seven locations, six faculties and four institutions.

**University of Kelaniya**  
University in Colombo, Sri Lanka  
[Website](#) [Directions](#)

The University of Kelaniya is a state university of Sri Lanka. Just outside the municipal limits of Colombo, in the city of Kelaniya, the university has two major campuses, seven locations, six faculties and four institutions.  
[Wikipedia](#)

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**Founded:** 1959



Web address

Title

Home - University of Kelaniya University of Kelaniya

[www.kln.ac.lk/](http://www.kln.ac.lk/)

The University of Kelaniya is committed to provide high quality education and to conduct high impact research which will contribute significantly to the ...

Centre for Distance and ...

new registration, Centre for Distance and Continuing ...

Results

University of Kelaniya Centre for Distance and Continuing ...

Faculty of Social Sciences

Joomla! - the dynamic portal engine and content ...

[More results from kln.ac.lk »](#)

The Faculty of Graduat

Postgraduate study at MPhil (M: of Philosophy) and PhD ...

Faculty of Commerce ...

The faculty of Commerce and Management Studies of the ...

The Faculty of Humanities

The Faculty of Humanities in University of Kelaniya is a fine ...

Snippet



## Home - University of Kelaniya

[www.kln.ac.lk/](http://www.kln.ac.lk/) ▼

The University  
research which

Cached

Similar

committed to provide high quality education and to conduct high impact  
significantly to the ...

### Centre for Distance and ...

Results - Applications - Click here for  
Results - Admissions - ...

### Results

Bachelor of Business Management  
(General) Degree Second ...

### Faculty of Social Sciences

The faculty of social sciences, in  
terms of student population, ...

[More results from kln.ac.lk »](#)

### Library

Donation of Books and School  
Materials. The welfare society of ...

### The Faculty of Graduate Studies

Welcome to the Faculty of Graduate  
Studies. FGS offers a ...

### Vacancies

Vacancies. August 1st, 2017.  
Advertisement All Faculty Final ...

## University of Kelaniya - Wikipedia

[https://en.wikipedia.org/wiki/University\\_of\\_Kelaniya](https://en.wikipedia.org/wiki/University_of_Kelaniya) ▼

The **University of Kelaniya** is a state university of Sri Lanka. Just outside the municipal limits of  
Colombo, in the city of Kelaniya, the university has two major ...





university of kelaniya



All Images News Videos Maps More Settings Tools

About 404,000 results (0.67 seconds)

### Home - University of Kelaniya

[www.kln.ac.lk/](http://www.kln.ac.lk/)

The University of Kelaniya is committed to provide high quality education and to conduct high impact research which will contribute significantly to the ...

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new registration, Centre for Distance and Continuing ...

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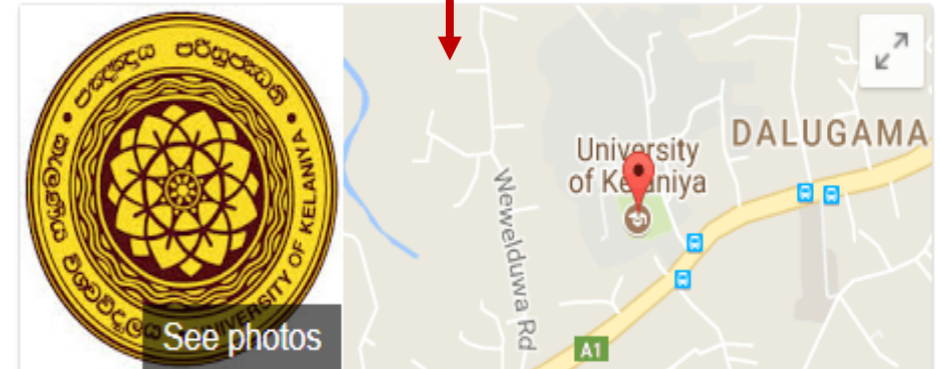
[www.euni.de/tools/jobpopup.php?...university=University...Kelaniya...](http://www.euni.de/tools/jobpopup.php?...university=University...Kelaniya...)

University of Kelaniya Centre for Distance and Continuing Education. Centre for Distance and Continuing Education logo. English; Sinhala; get sinhala unicode.

### University of Kelaniya - Wikipedia

[https://en.wikipedia.org/wiki/University\\_of\\_Kelaniya](https://en.wikipedia.org/wiki/University_of_Kelaniya)

# Knowledge Panel



## University of Kelaniya

University in Colombo, Sri Lanka

[Website](#)

[Directions](#)

The University of Kelaniya is a state university of Sri Lanka. Just outside the municipal limits of Colombo, in the city of Kelaniya, the university has two major campuses, seven locations, six faculties and four institutions. [Wikipedia](#)

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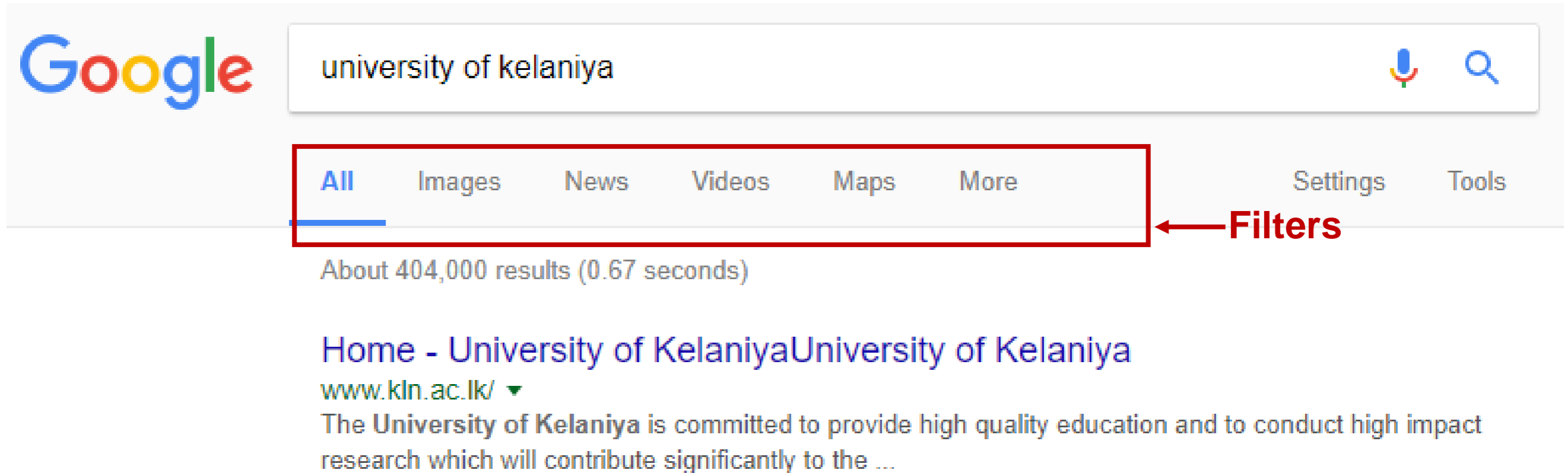
**Vice-Chancellor:** Prof. Semasinghe Dissanayake

**Administrative staff:** 771 academic, 637 non-academic

**Chancellor:** Ven. Welamitiyawe Dharmakirithi Sri Kusala Dhamma Thero



# Different Search Tools

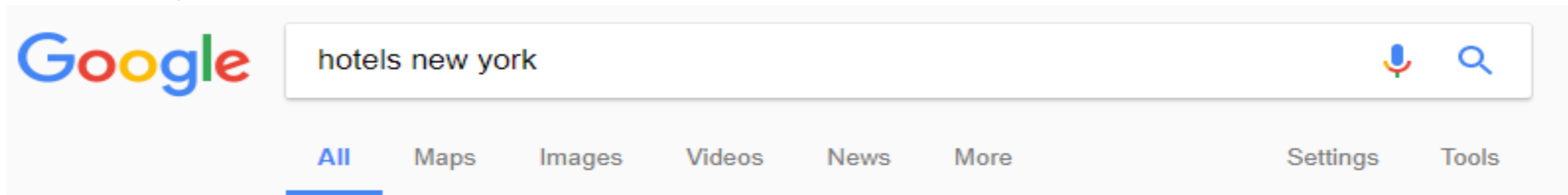


The image shows a Google search interface. The search bar contains the text "university of kelaniya". Below the search bar, a horizontal menu of filter tabs is visible: "All", "Images", "News", "Videos", "Maps", "More", "Settings", and "Tools". A red rectangular box highlights the "All", "Images", "News", "Videos", "Maps", and "More" tabs. A red arrow points from the word "Filters" to the right side of this red box. Below the filter tabs, the search results show "About 404,000 results (0.67 seconds)". The first result is titled "Home - University of Kelaniya" with the URL "www.kln.ac.lk/". The snippet for this result reads: "The University of Kelaniya is committed to provide high quality education and to conduct high impact research which will contribute significantly to the ...".





# Identify Advertisements



About 177,000,000 results (0.85 seconds)

## 500 Hotels in New York NY - Half-Price Hotels. Book now - booking.com

**Ad** [www.booking.com/New-York-Ny/Hotels](http://www.booking.com/New-York-Ny/Hotels) ▼

Book your Hotel in New York NY online. No reservation costs. Great rates.

24/7 Customer Service · Get Instant Confirmation · Best Price Guarantee · Read Real Guest Reviews

Types: Hotels, Apartments, Villas, Hostels, Resorts, B&Bs

[Book Now](#)

[No Booking Fees](#)

[Book for Tonight](#)

[Book for Tomorrow](#)

## Club Quarters Hotels NY - Amazing Locations In Manhattan

**Ad** [www.clubquartershotels.com/ny/new-york-city](http://www.clubquartershotels.com/ny/new-york-city) ▼

Boutique hotel for business travelers & urban explorers. Learn more & book now!

Amenities: Free High Speed WiFi, Unlimited Bottled Water, Fitness Center, Club Living Room

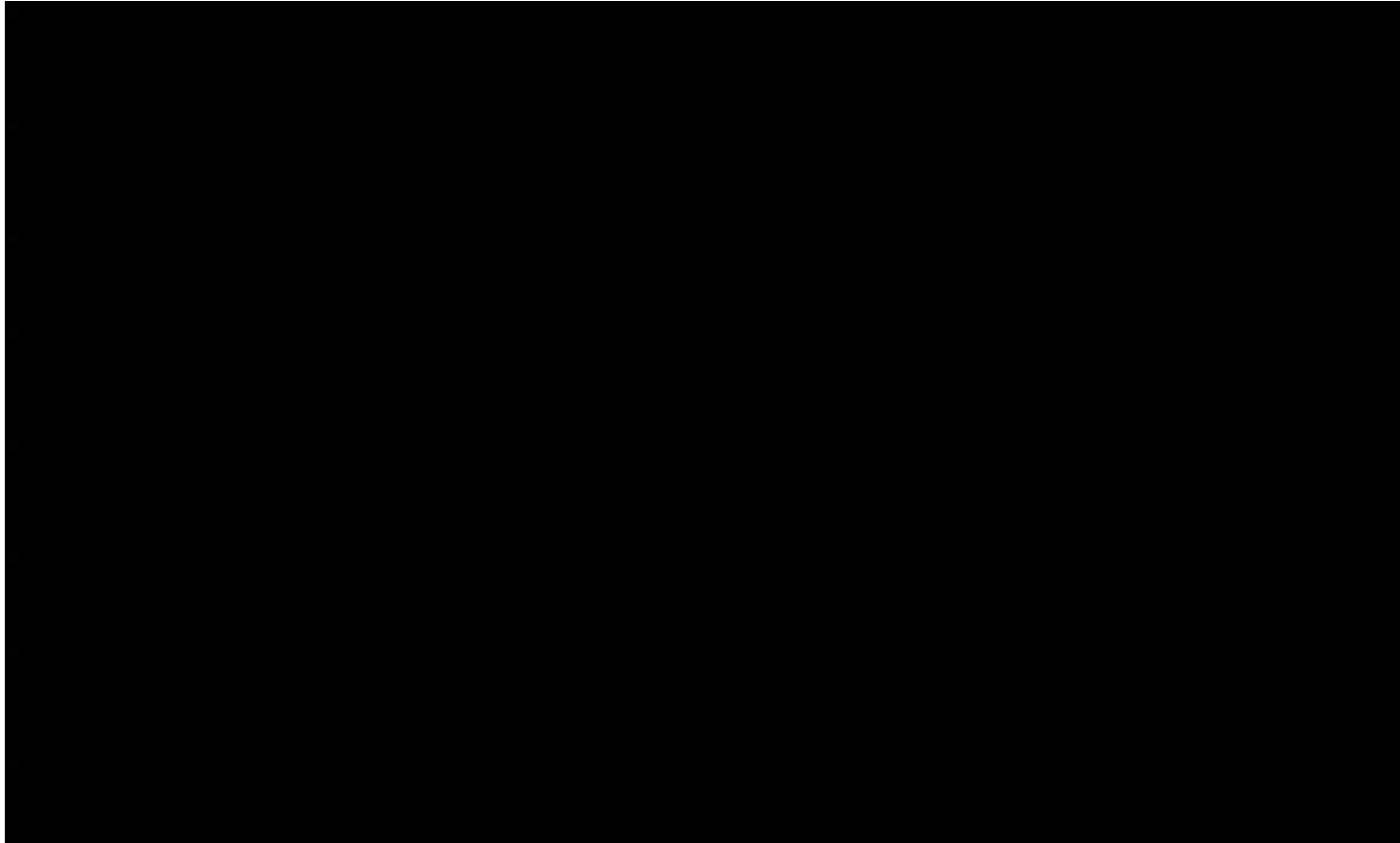
Featured hotels: CQ Rockefeller Center, CQ Midtown, CQ Grand Central, CQ Wall Street, CQ World T...

[Locations](#) · [About Us](#) · [Club Quarters](#) · [Membership](#)



# How search works





Link to the video : <https://www.youtube.com/watch?v=BNHR6IQJGZs>



# What Matters In My Search Query?

- Think of a topic or question you would like to search for.
- What happens if you
  - Reorder them?
  - Add capitalization or punctuation?
  - What if you take out a word?



# Activity : What Matters In My Search Query?

<b>1</b>	Every word matters. <i>Try searching for [who], [the who], and [a who]</i>
<b>2</b>	Order matters. <i>Try searching for [blue sky] and [sky blue]</i>
<b>3</b>	Capitalization does not matter. <i>Try searching for [barack obama] and [Barack Obama]</i>
<b>4</b>	Punctuation does not matter. <i>Try searching for [red: delicious! apple?] and [red delicious apple]</i>



# Tips For Better Searches

**1** Keep it simple. Describe what you want in as few terms as possible.

---

**2** Think of how the page you want will be written. Use words that are likely to appear on the page.

---

**3** Use descriptive, specific words. Avoid general or common words.

---



# Picking the right search terms



*What food Harry Potter like most?*







what food does harry potter like best



All

Images

News

Videos

Maps

More

Settings

Tools

About 31,100,000 results (0.60 seconds)

### 19 Foods From Harry Potter, Ranked - Bustle

<https://www.bustle.com/articles/110666-19-foods-from-harry-potter-ranked> ▼

Sep 17, 2015 - Reading the Harry Potter series on an empty stomach isn't advisable, because amidst the ... they had a feast for, like, every occasion), were descriptions of magical food as well. ... Hagrid isn't known as the best cook, but his rock cakes are one of the worst dishes. ... Do they squirm when you try to eat them?

### We rank the top 15 foods and drinks from Harry Potter so you don't ...

[metro.co.uk](http://metro.co.uk) > Film > Harry Potter ▼

Oct 4, 2015 - We rank the top 15 foods and drinks from Harry Potter so you don't ... Let's all just be realistic and admit it though – the best thing about J.K Rowling's world is the mouth watering selection of food and drink. ... How high does your favourite come in? ... Like Harry and Ron, we're all about collecting the cards.

### Feast Your Eyes on Harry Potter's World of Food - National Geographic

[www.nationalgeographic.com/.../food/.../feast-your-eyes-on-harry-potter-s-world-of-f...](http://www.nationalgeographic.com/.../food/.../feast-your-eyes-on-harry-potter-s-world-of-f...) ▼

Jul 31, 2016 - Harry Potter's birthday falls on Sunday (just like author J.K. ... Best of the Potter universe foods, however, may be those that come solely from ...

### Food and Drink - The Harry Potter Lexicon

<https://www.hp-lexicon.org/thing/food-and-drink/> ▼

"That does look good..." ... Anything created in that way does not last, but disappears after an hour or two (SN). The food served at Hogwarts is grown locally (there are vegetable patches near the greenhouses (CS6) ... in green mold; enormous gray cake in the shape of a tombstone, tar-like icing;



*What food does Harry Potter  
like best?*



*What food does Harry Potter  
like best?*



*What food does Harry Potter  
like best?*

*Favorite*



~~What~~ food ~~does~~ Harry Potter  
like best?

Favorite





harry potter favorite food



All

Images

Videos

News

Maps

More

Settings

Tools

About 37,500,000 results (1.08 seconds)

## Treacle tart

It can also be served with ordinary cream, custard, or yoghourt. **Treacle tart** can also be served cold. It is a favourite **dessert** in the wizarding world and also a personal favourite of Harry Potter, who likes it so much that he smells it when he is in the presence of Amortentia.

[Treacle tart | Harry Potter Wiki | FANDOM powered by Wikia](https://harrypotter.wikia.com/wiki/Treacle_tart)  
[harrypotter.wikia.com/wiki/Treacle\\_tart](https://harrypotter.wikia.com/wiki/Treacle_tart)

[About this result](#) [Feedback](#)

[Treacle tart | Harry Potter Wiki | FANDOM powered by Wikia](https://harrypotter.wikia.com/wiki/Treacle_tart)

[harrypotter.wikia.com/wiki/Treacle\\_tart](https://harrypotter.wikia.com/wiki/Treacle_tart) ▼

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<https://www.bustle.com/articles/110666-19-foods-from-harry-potter-ranked> ▼

Sep 17, 2015 - Reading the Harry Potter series on an empty stomach isn't advisable, because amidst the .... This is Harry's favorite, aka the Chosen Dessert.



**I heard there is an empty town  
in the San Francisco Bay. What  
is it called?**



ghost town

~~I heard there is an empty town in  
the San Francisco Bay. What is  
it called?~~

[ghost town San Francisco Bay]





ghost town San Francisco

Secure | <https://www.google.lk/search?q=ghost+town+San+Francisco+Bay&oq=ghost+town+San+Francisco+Bay&aqs=chrome..69i57j0l2.1756j0j9&sourceid=chrome&ie=UTF>

ghost town San Francisco Bay

Sign in


All Images Videos Maps News More Settings Tools

About 1,460,000 results (0.83 seconds)

**The Island Ghost Town in the Middle of San Francisco Bay - KQED**  
<https://ww2.kqed.org/.../the-island-ghost-town-in-the-middle-of-san-francisco-bay/>  
 Jul 20, 2017 - On an island in the middle of **San Francisco Bay** sits a series of abandoned wooden buildings, slumped over and sinking into the ground.

**Drawbridge, California - Wikipedia**  
[https://en.wikipedia.org/wiki/Drawbridge,\\_California](https://en.wikipedia.org/wiki/Drawbridge,_California)  
 Drawbridge (formerly **Saline City**) is a ghost town with an abandoned railroad station located at the southern end of the San Francisco Bay on **Station Island**, now a part of the city of **Fremont, California**, United States.

**Images for ghost town San Francisco Bay**



→ More images for ghost town San Francisco Bay Report images

**Drawbridge**  
 Town in California

Drawbridge is a ghost town with an abandoned railroad station located at the southern end of the San Francisco Bay on Station Island, now a part of the city of Fremont, California, United States. [Wikipedia](#)

**Elevation:** 2.1 m  
**City:** Fremont  
**Hotels:** 3-star averaging LKR40,844. [View hotels](#)  
**Weather:** 17°C, Wind NW at 14 km/h, 86% Humidity  
**Local time:** Thursday 10:20 PM

Category: Ghost towns in the San Francisco Bay Area - Wikipedia

Windows Ink Workspace | ENG | 10:45 AM | 8/11/2017



## Drawbridge

Drawbridge is a ghost town with an abandoned railroad station located at the southern end of the San Francisco Bay on Station Island, now a part of the city of Fremont, California, United States.



**My three year old cow has blisters on its tongue. What's wrong with it?**



cattle?

~~My three-year-old cow has  
blisters on its tongue. What's  
wrong with it?~~

sick

[cow blister tongue sick]

or

[cattle blister tongue sick]



## What Could Cause Blisters on a Cow's Tongue?

Blisters on the tongue usually indicate that the animal has been eating toxic vegetation or that the animal has **hoof and mouth disease**. Your veterinarian can provide a prognosis in either case. Hoof and mouth disease is contagious so, you need to act on that out quickly so you can possibly save your herd. if you don't act quickly you may have many dead cows



# Challenges





## Science

This is a close-up photo of the heaviest boneless animal.

What gives the skin its slightly yellowish tinge?



# Hints

Things to think about as you get started

- 1 First, figure out what the heaviest boneless animal is.
- 2 Can you check that this is the same animal in the picture?





# How to find the answer

Answer  
**Diatoms.**

Search

Search for [**heaviest boneless animal**] and find that it's a whale shark. An Image Search will confirm that the mottled skin in the picture is from a whale shark. Searching [**whale shark yellow skin**] yields the diatoms, a type of algae.



# Background and further discussion

Whale sharks are remarkable fish. They're in the shark family, but they can be up to 41 feet in length and weigh more than 21 tons. Surprisingly, they are filter feeders, eating whatever tiny animals and plants that can find swimming freely in the ocean. Typically, that means they eat plankton, fish eggs and small nektonic animals like small squid. Whale sharks are relatively rare and still somewhat mysterious as they travel around our planet on an unending quest for food and partners. In July 1996, a female shark was found to be pregnant with 300 pups which suggests that whale sharks are ovoviviparous (that is, they give birth to live shark pups, rather than laying eggs as many fish do).





## Science

This member of Lepidoptera increases its weight by 10,000 fold in approximately a fortnight.

What is it commonly referred to as?



# Hints

Things to think about as you get started

- 1 What type of creature(s) are Lepidoptera?
- 2 How long is a fortnight?



# How to find the answer

## Answer

The tobacco hornworm.

## Search

Search [**Lepidoptera**]. Find that it's a large order of insects including moths and butterflies (as well as larvae and caterpillars). Searching for [**Lepidoptera weight 10000 fold**] will reveal the *Manduca sexta* caterpillar, or tobacco hornworm.



## Background and further discussion

The American *Manduca sexta* is a moth of the family Sphingidae. They have 7 diagonal lines down their sides. (Silkworms also increase their weight by 10,000 fold but over a period of a month or more.)





## Geography

How long is the river  
bordering the two countries  
that once were  
home to  
the Hamangia?



# Hints

Things to think about as you get started

- 1 Who were the Hamangia?





# How to find the answer

Answer

1,771 miles

Search

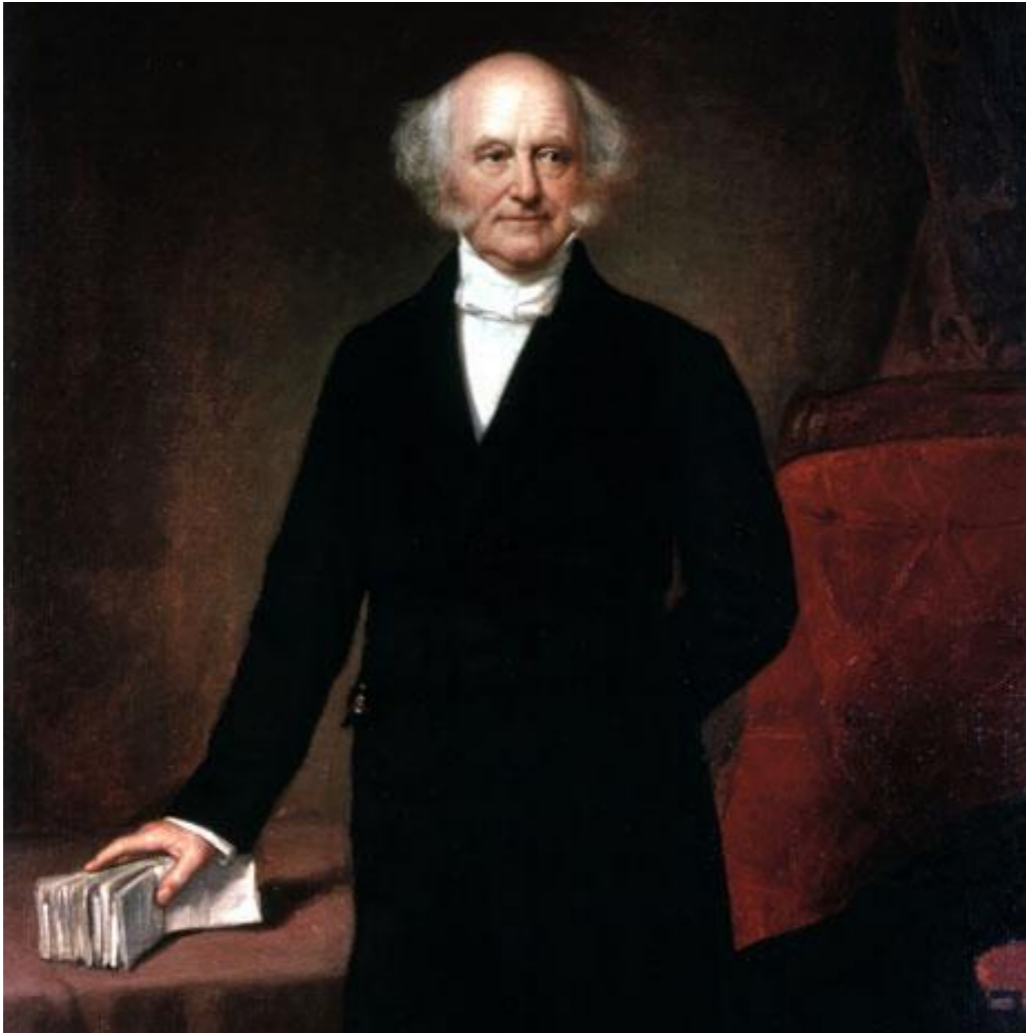
Search [Hamangia]. You will find that the Hamangia culture is a late Neolithic culture that once existed in what is now Romania and Bulgaria. Search [river bordering Romania and Bulgaria]. You will find the answer is the Danube River, which is about 1,771 miles long.



## Background and further discussion

Hamangia is the name of Neolithic culture that existed in modern Romania and Bulgaria about 7300-6600 years ago. It was discovered in excavations in Baia-Hamangia, Romania, in 1953; and was further explored in excavations at Cernavodă, where the famous statues The Thinker and The Sitting Woman were recovered.





## History

The first president to be born as an American citizen learned English as a second language.

What was his first?



# Hints

## Things to think about as you get started

- 1 Who was the first president to be born as a U.S. citizen?



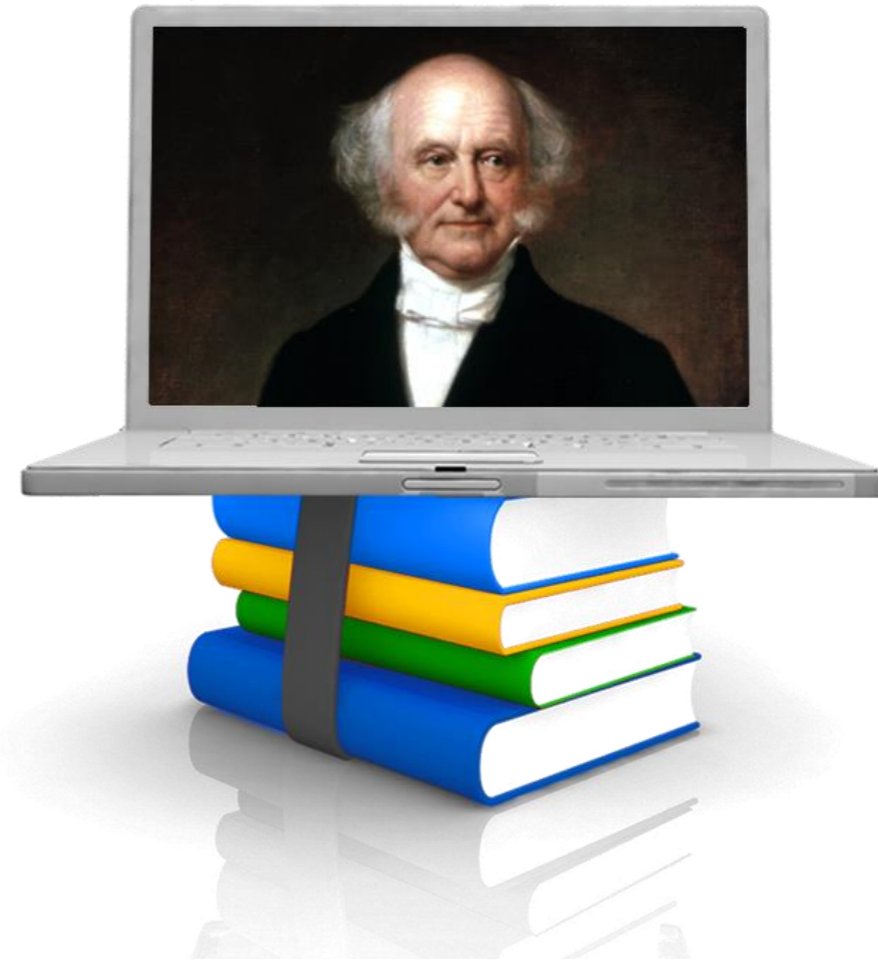
# How to find the answer

## Answer

Dutch.

## Search

Search [first president born American citizen] to get Martin Van Buren. Search [Van Buren's first language] and learn it was Dutch, which he learned growing up in Kinderhook, New York.



## Background and further discussion

Learning another language  
can be invaluable if your job  
is to lead a country  
in international relationships.





## Science

This type of radiation is commonly known for quickly heating frozen dinners, but also provides evidence in support of Georges Lemaître's theory.

What was that astronomical evidence?



# Hints

## Things to think about as you get started

- 1 What kind of radiation is between 1 mm and 1 m in length?





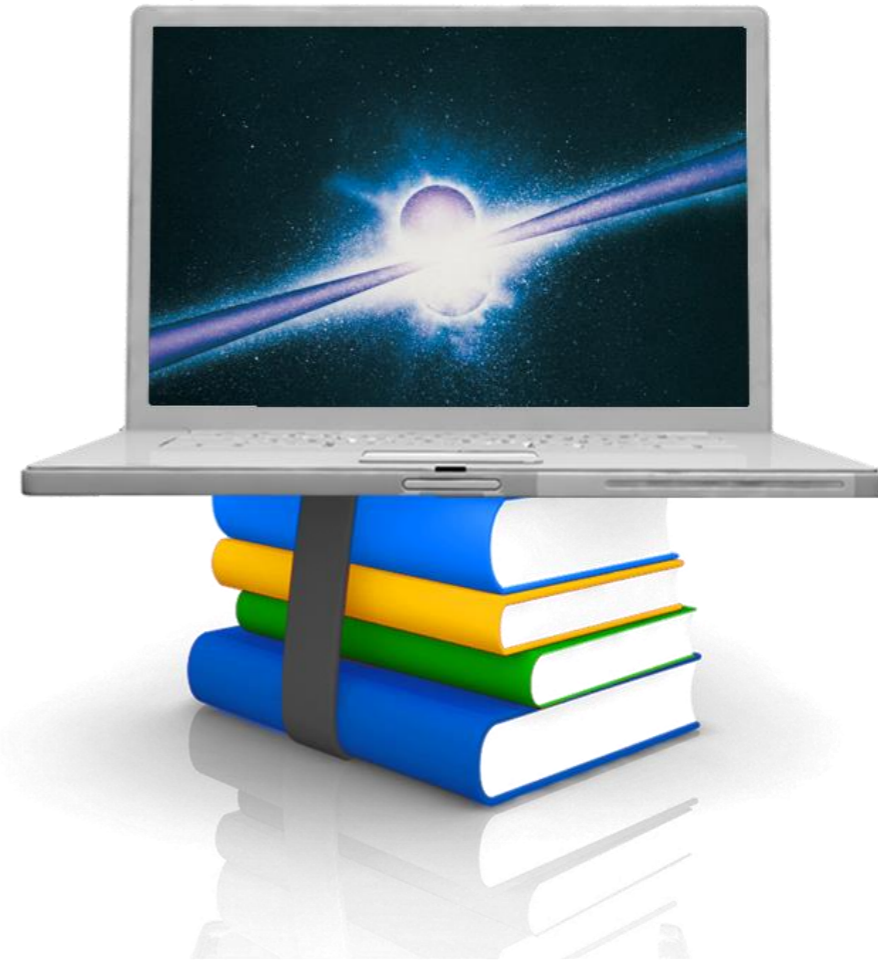
# How to find the answer

## Answer

**The Big Bang.**

## Search

Searching [**Georges Lemaître theory**] yields the big-bang theory. Searching [**big bang evidence supporting**] results in a 1965 discovery by Penzias and Wilson of Cosmic Microwave Background Radiation, considered the remnant glow of the Big Bang.



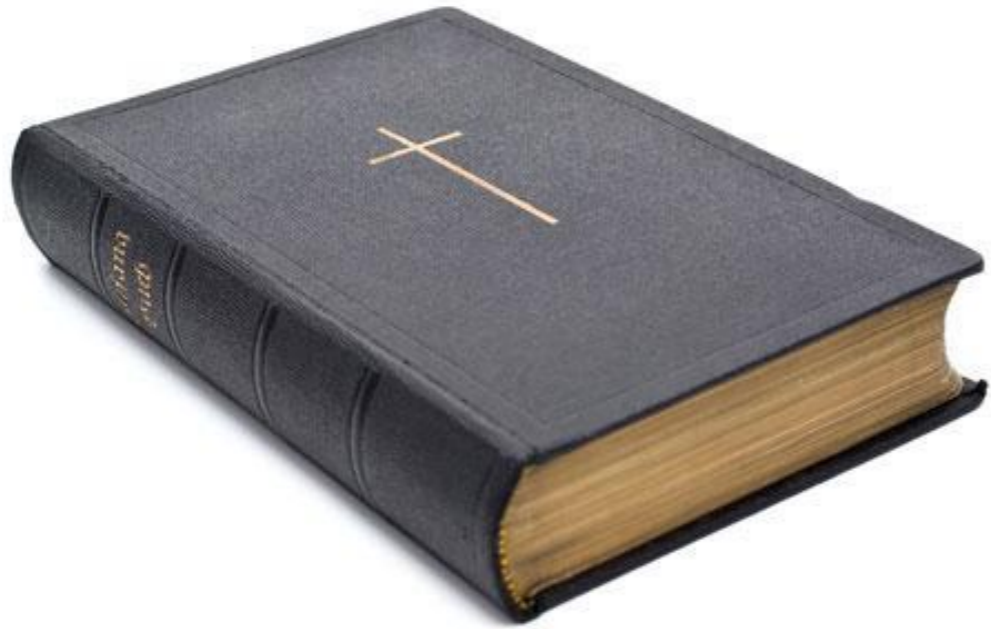
# Background and further discussion

"Cosmic Microwave Background Radiation (CMB) is the cooled remnant of the first light in the universe. Scientists consider it to be an echo of the Big Bang. It's cooled and weakened considerably since then and we detect it in the microwave range between 1mm to 1m.

The CMB radiation was discovered by chance in 1965. Penzias and Wilson were radio astronomers working at Bell Laboratory. Their radio telescope registered a signal that was puzzling. It had a constant intensity and couldn't be attributed to any precise source in the sky. Tracking down the source of the signal led them to understand that the CMB was coming from everywhere simultaneously and was early evidence for the Big Bang.

"





Science

How much older  
is the world's oldest  
living Methuselah  
than the biblical  
Methuselah?



# Hints

Things to think about as you get started

- 1 What are these two Methuselahs?
- 2 Can you identify either one?



# How to find the answer

## Answer

3,873 years.

## Search

How to find the answer: Search [biblical Methuselah]. Learn that, according to literal interpretation, the biblical Methuselah is 969 years old. Search [world's oldest Methuselah] to learn that the world's oldest Methuselah is a 4,843-year-old bristlecone pine tree. Use Google Calculator (it's a function of the search bar) to subtract 969 from 4,842.

The answer is 3,873 years older.



# Background and further discussion

Eastern California's White Mountains are home to a Great Basin Bristlecone Pine (*Pinus longaeva*) tree that is estimated to be 4,843 years old. Since its age makes it the oldest known living non-clonal organism, it is named after the Methuselah in the book of Genesis, who—with a lifespan of 969 years—is the longest-lived figure in the Hebrew Bible.



# Google scholar



- <https://scholar.google.com/scholar/about.html>
- <https://www.google.com/publicdata/directory>
- <https://www.youtube.com/education>
- <https://books.google.com/>





# Reference

- Google search education



1. What did you like in this lesson?
2. What didn't you like in this lesson?
3. What did you learn from this lesson?

