



THE INTERNET AND THE FUN OF USING IT !!

COMPILED BY HOWIE BAUM



What is the Internet?

The Internet is a **global network** of billions of computers and other electronic devices.

With the Internet, it's possible to access almost any information, communicate with anyone else in the world, and do much more.

You can do all of this by connecting a computer to the Internet, which is also called **going online**.

When someone says a computer or they are online, it's just another way of saying it's connected to the Internet.



What is the Web? The **World Wide Web**—usually called the **Web** for short—is a collection of different **websites** you can access through the Internet.

A **website** is made up of related text, images, and other resources. Websites can resemble other forms of media—like newspaper articles or television programs—or they can be interactive in a way that's unique to computers.

The purpose of a website can be almost anything: a news platform, an advertisement, an online library, a forum for sharing images, or an educational site.



Once you are connected to the Internet, you can access and view websites using a type of application called a **web browser**.

Just keep in mind that the web browser itself is not the Internet; it only displays websites that are stored on the Internet.

WEB BROWSERS

It's always a good idea to keep at least two web browsers on your computer or mobile device.

This way, if a website isn't working correctly, you can try opening the page in a different web browser.

WHAT ARE THE 5 MAIN INTERNET BROWSERS?

- **Google Chrome – 62.85%**
<https://www.google.com/chrome/>
- **Microsoft Edge** (formerly Internet Explorer) (part of Windows 10) **5.3.%**
- **Mozilla Firefox – 2.8 %**
<https://www.mozilla.org/en-US/firefox/new/>
- **Apple's Safari – 20.7%**
- **DuckDuckGo - 2.5%**
provides more privacy with no tracking !
<https://duckduckgo.com/windows>

GOOGLE CHROME



EDGE



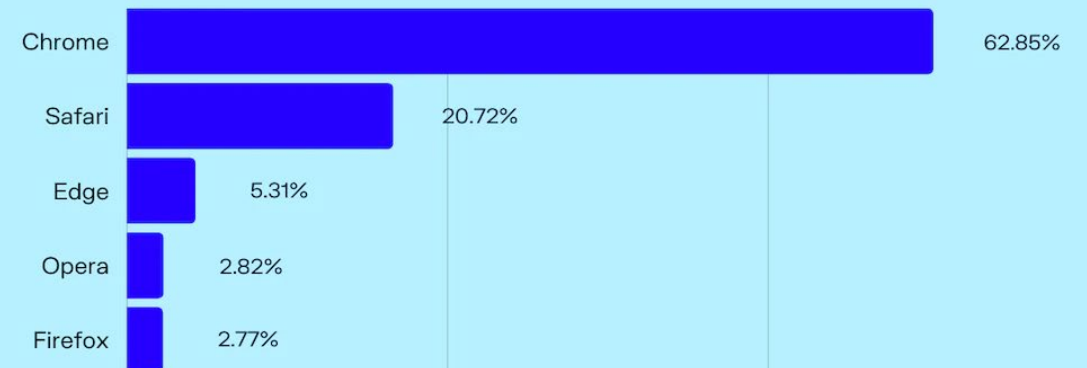
FIREFOX



DUCKDUCKGO

SAFARI (APPLE)

Most Popular Browsers in 2023





When you visit a website, your computer sends a request over these wires to a **server which is a large computer**.

A server is where websites are stored, and it works a lot like your computer's hard drive.

Once the request arrives, the server retrieves the info and sends the correct data back to your computer, all in just a fraction of a second !

Here are some terms used in a video we will watch:

An **ISP** is your **Internet Service Provider**.

Examples here in Cincinnati are Altafiber, Spectrum, and Dish Network.

DNS stands for Domain Name Server, which is like the phonebook of the Internet.

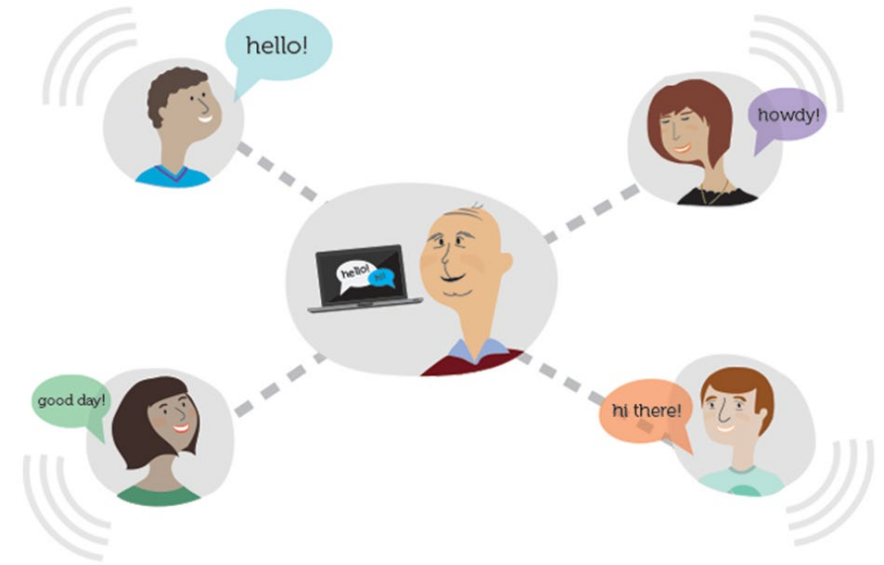
<https://www.youtube.com/watch?v=jKA5hz3dV-g>
(slow down)



This is the size and cross-section of an underwater, fiber-optic cable that goes under the ocean, all around the world.

WHAT CAN YOU DO ON THE INTERNET ?

- **E-mail** with anyone in the world
- Use **Social Media** – Facebook – 2.3 billion users !



- **Shop** for anything and **pay your bills** (as long as you follow safety precautions, mentioned later)
- **Find information** about anything, how to fix things, computer questions, etc.
- **Watch videos or listen to your favorite music**
- Use **free Office applications** such as on Google Drive from your Google browser – to create documents, spreadsheets, presentations, and more, which are free equivalents to the items in Microsoft Office / Microsoft 365.
- **Play games** by yourself or with anyone else in the World

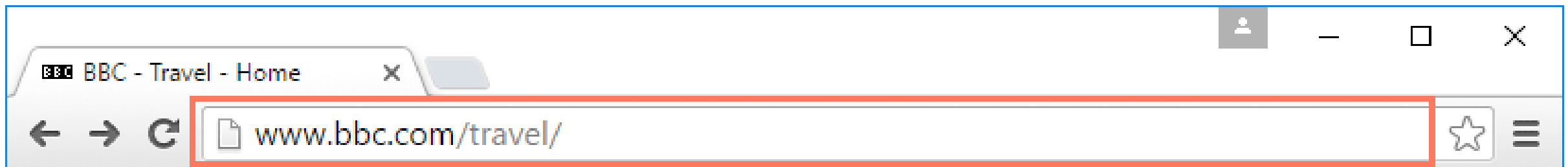
URLS AND THE ADDRESS BAR

Each website has a unique address, called a **URL** (short for **Uniform Resource Locator**).

It's like a street address that tells your browser where to go on the Internet.

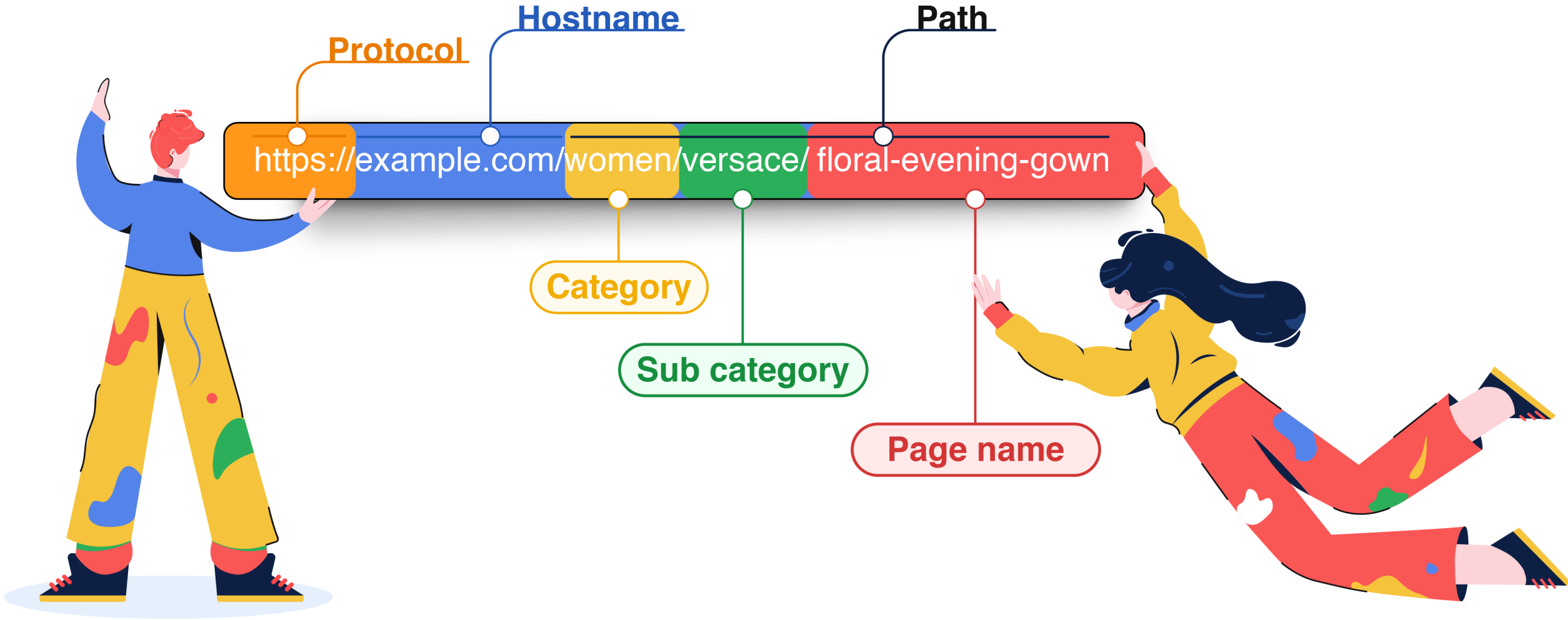
When you type a URL into the browser's **address bar** and press **Enter** on your keyboard, the browser will load the page associated with that URL.

In the example below, we've typed www.bbc.com/travel into the address bar.



Several years ago, you needed to type the whole first part of a web address: <http://www> and then the name of the site where you wanted to go.

You don't have to put all of that in anymore – just the name of where you want to go to such as Amazon, Ebay, etc.



USING SEARCH ENGINES

With billions of websites online today, there is **a lot** of information on the Internet.

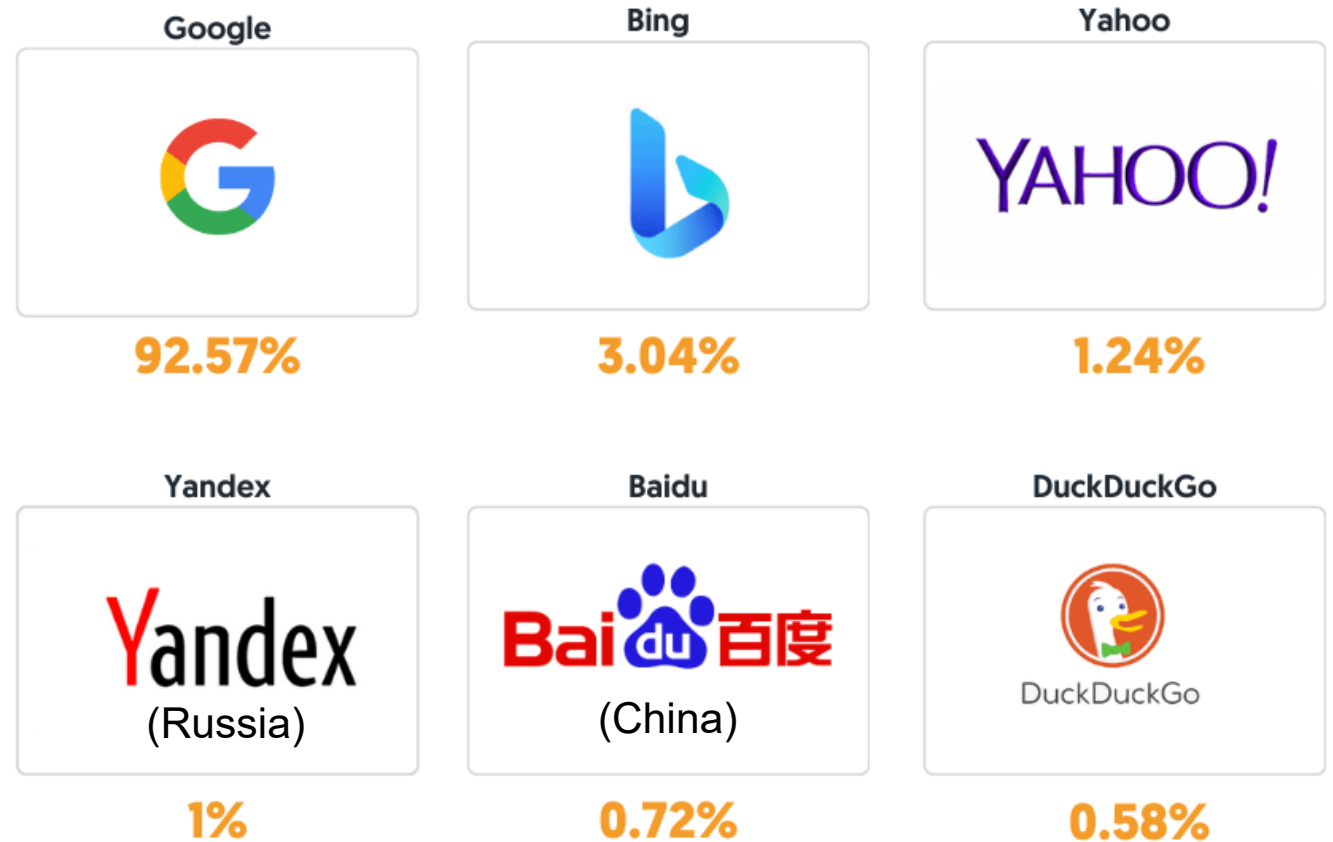
Search engines make this information easier to find.

Let's look at the basics of using a search engine, as well as some techniques you can use to get **better search results**.

Watch the video below to learn more about searching the Web.

<https://www.youtube.com/watch?v=7RIB1CJovTs>

SEARCH ENGINE MARKET SHARE 2023



THE ENDINGS OF WEB PAGE ADDRESSES TELLS US ABOUT THE COMPANY, ORGANIZATION, AND LOCATION WHERE THE FILE IS FROM.

LIKE THE EXTENSIONS USED AFTER FILES OF DOCUMENTS, MUSIC, PICTURES, OR VIDEOS, THE 2 – 3 LETTER ENDINGS AFTER THE PERIOD, ARE CALLED THE EXTENSION.

- **Com or .biz** (a company or business)
- **edu** (educational institution)
- **gov** (government)
- **net** (network)
- **org** (non-profit organization)

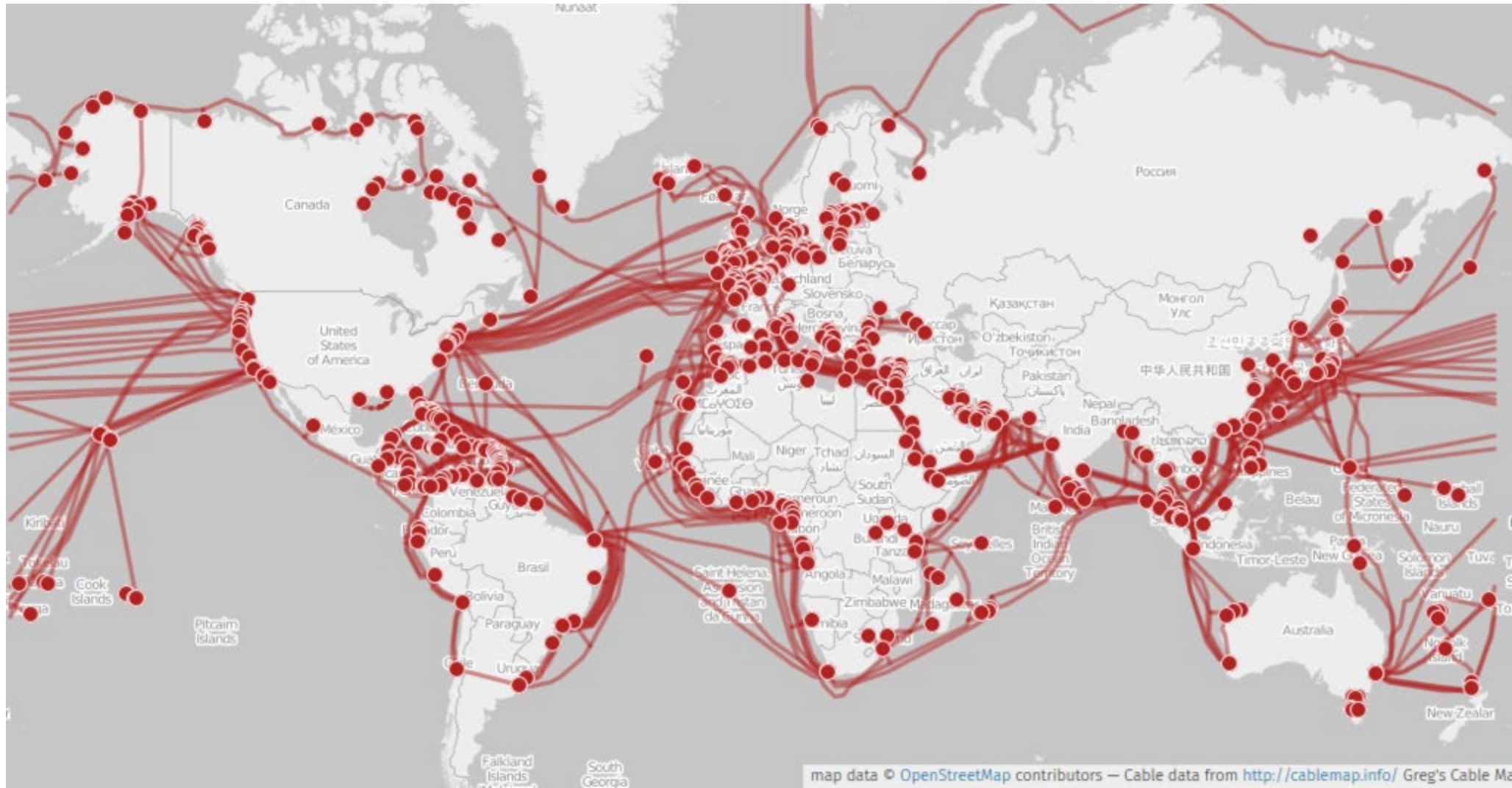
- You might also see addresses that add a country code as the last part of the address such as:
 - **ca** (Canada)
 - **uk** (United Kingdom)
 - **fr** (France)
 - **us** (United States of America)
 - **au** (Australia)
 - **cn** (China)
 - **ru** (Russia)

country-code Top Level Domain



ROUTING OF PROMINENT UNDERSEA CABLES THAT SERVE AS THE PHYSICAL INFRASTRUCTURE OF THE INTERNET

To get the internet to what it is today, humans have slowly laid over 300 underwater cables that run a total of 550,000 miles.



THE INTERNET BACKBONE ACROSS THE UNITED STATES

This map shows the main Internet connecting lines across the United States, described as the Internet Backbone.

Millions of Copper and glass fiberoptic Cables come off of these main lines, for distribution all across the country.



INTERESTING INTERNET FACTS

There are over 1.13 billion websites on the Internet !!

- About 93% of adults in the United States use the internet.
- 75% of seniors 65 and older, were online in 2021
- Of the nearly 300 million internet users in the United States, about 240 million hang out on social media.
- About 269.5 million users access the internet via mobile devices.
- **As of January 2023, there were 5.16 billion internet users worldwide, which is 64.4 percent of the global population.**
- 4.76 billion, or 59.4 percent of the world's population, were social media users.



World Wide Web

Only 4% of the Internet content.
Includes: public websites such as Google, Amazon, Wikipedia, etc.

Deep Web

Over 90% of the Internet content.
Not accessible via search engines.
Includes: Government Resources, Academic Information, Medical Records, Subscription Information, etc.

Dark Web

Only 6% of the Internet content.

THE HYPERTEXT CONCEPT

- **Hypertext** is a way of presenting information so that the order in which it's read is left up to the reader.
- **Hyperlinks (or links as they are commonly called)** are usually **blue** and sometimes **red** inside a website, underlined or highlighted words that can be used to view another document or Web page.
- Examples: www.wikipedia.com or www.Google.com
- <https://www.uc.edu/about/continuing-ed/olli.html>
- Once you have clicked on the website to check it out, the links turn a **reddish-brown color**, so you know you have been there.
- When you point to an active link, the cursor changes into a hand with the index finger pointing to it.

[I am a hyperlink!](#)



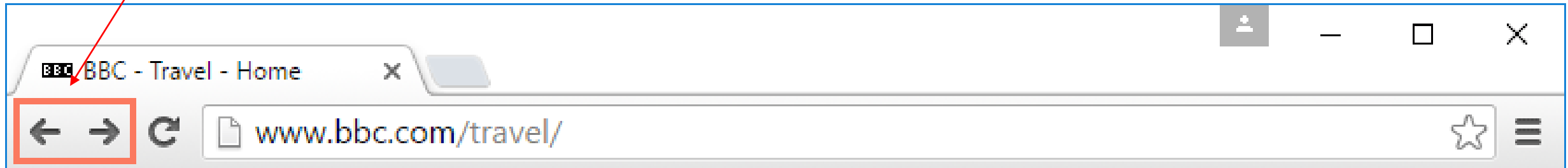
I am not a hyperlink.



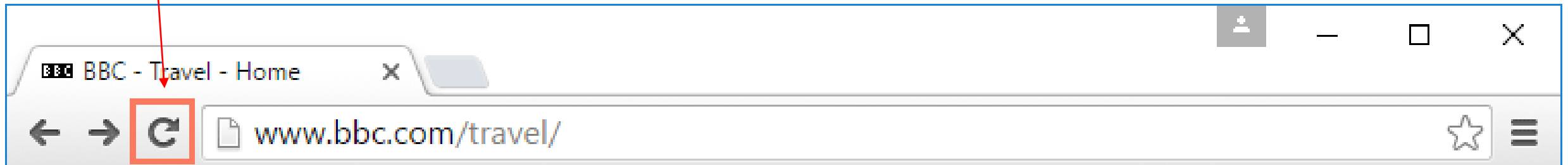
NAVIGATION BUTTONS

The **Back** and **Forward** buttons allow you to move through websites you've **recently viewed**.

You can also click and hold either button to see your recent history.



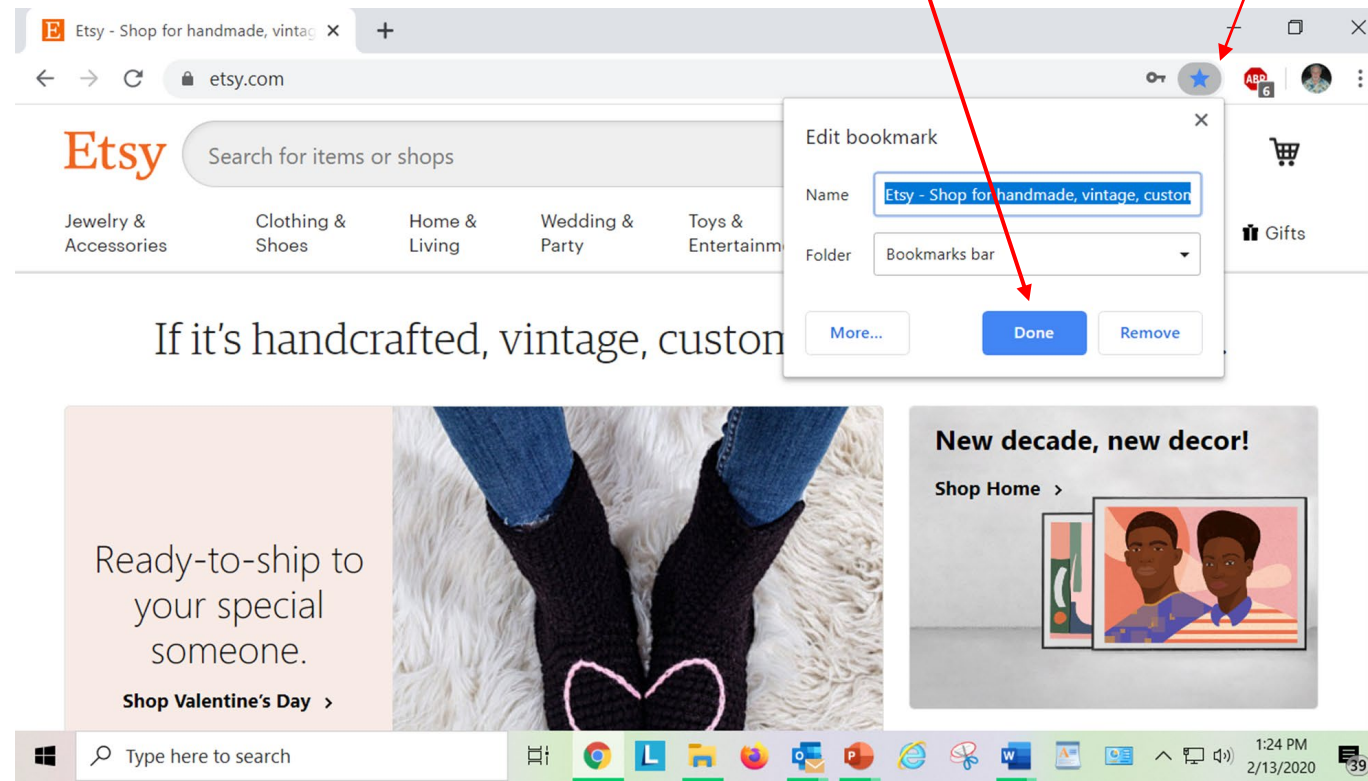
The **Refresh** button will **reload** the current page. If a website stops working, try using the Refresh button.



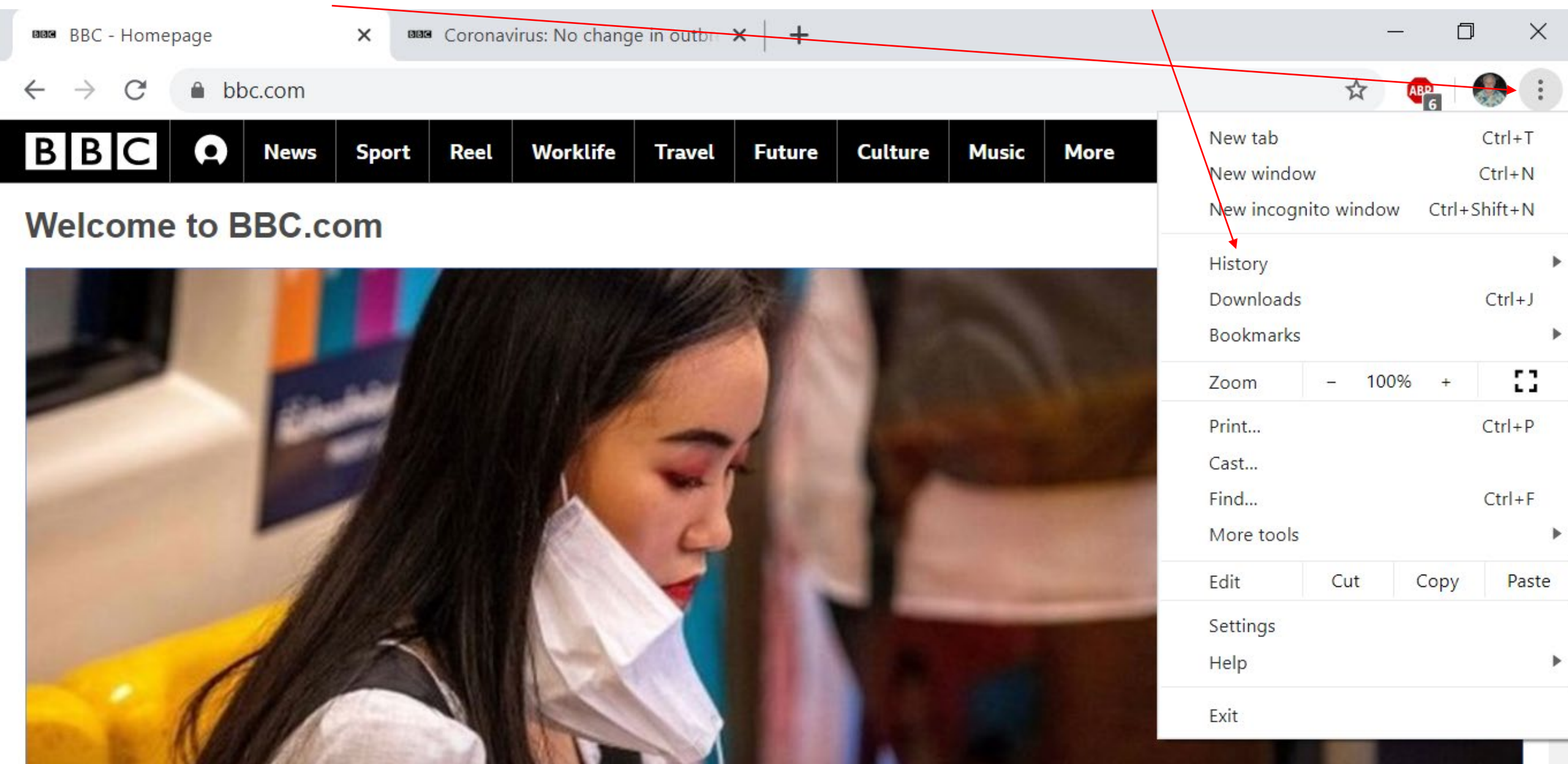
If you find a website you want to view later, it can be hard to memorize the exact web address.

The example below is a page from the website Etsy.com where you can find all kinds of hand-made crafts and art items.

As an example for saving (bookmarking) the website, click on the star which might be clear, yellow, or another color and then click on “Done” and it will be entered on your list of bookmarks. When you want to find one again, click on the star and it will give you a list to choose from.



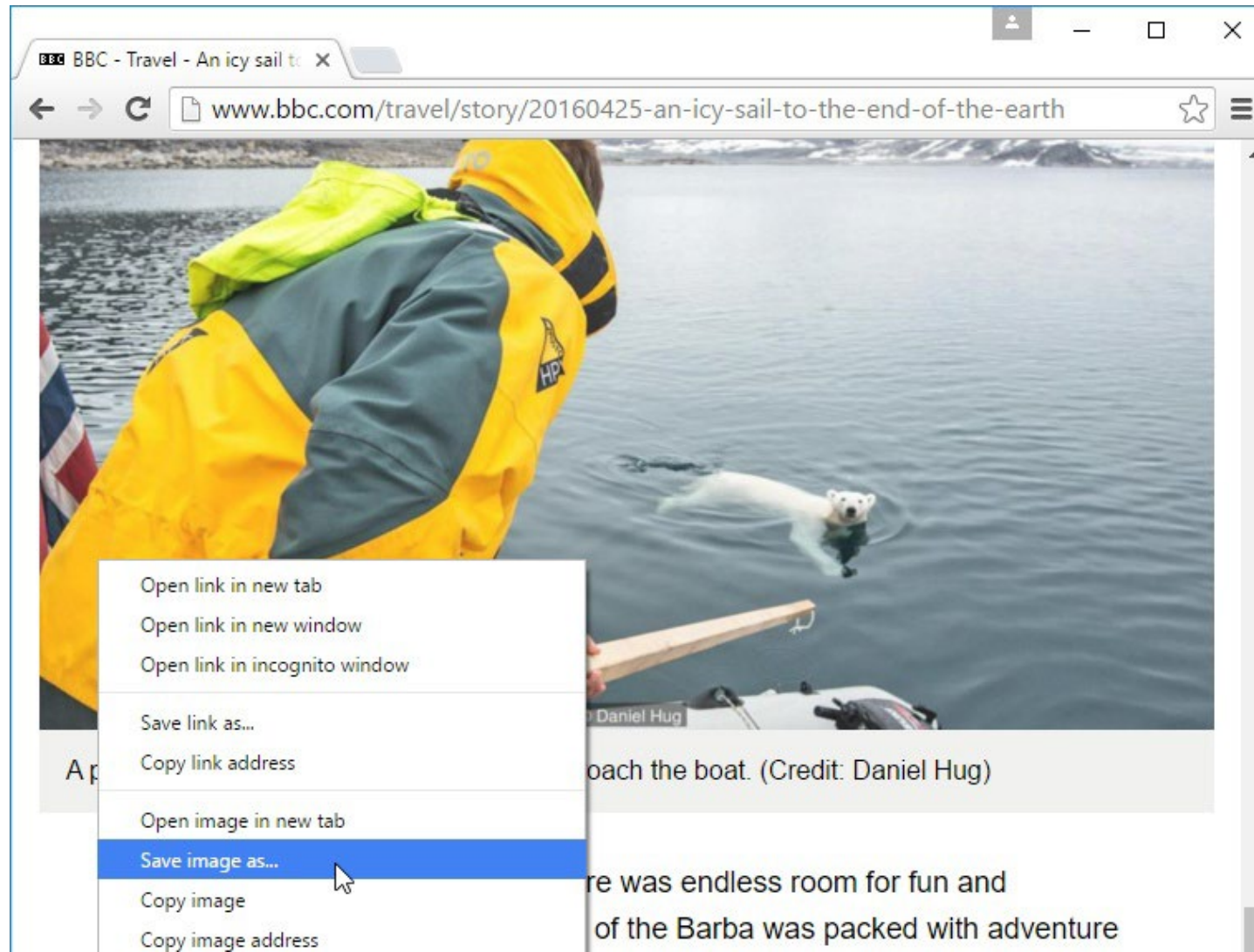
Your browser will also keep a history of every site you visit. This is another good way to find a site you visited previously. To view your history, open your browser settings—usually by clicking the 3 vertical dots in the upper-right corner—and select **History**.



SAVING IMAGES -

Sometimes you may want to save an image from a website to your computer. To do this, right-click the image and select **Save image as** (or **Save picture as**).

Unless you want to save it in a special folder, it will save it in your main Pictures folder.



A REFRESHER: EDITING OBJECTS, PICTURES, OR PHOTOS

- Once an object is inserted into a document:
 - It can be re-sized
 - It can be moved

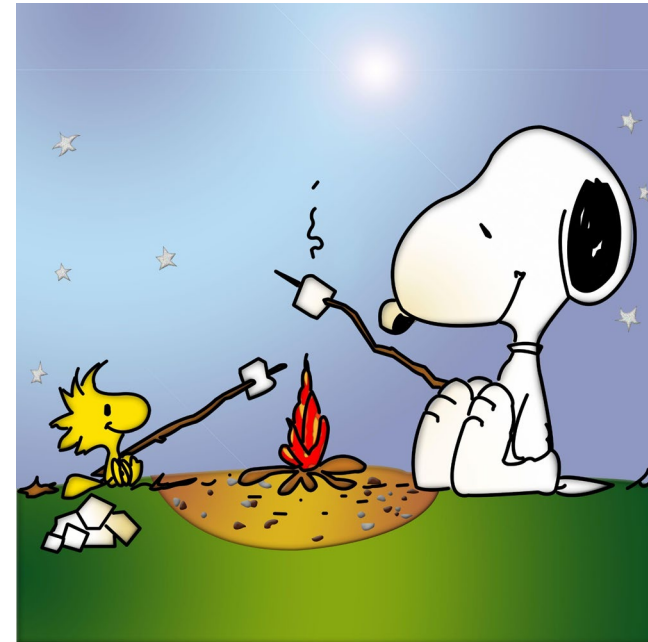
Use the circular arrow on a stem, to rotate the image.

Sizing objects:

- 8 small circles (handles) appear at the 4 corners and at 4 midpoints.
- Use a corner handle to make the picture larger or smaller and keep the same proportions.
- Use a middle handle to stretch it up or down or sideways.
- Put the cursor in the inside, and it will change into a cross.

Then you can move the image by holding your left mouse button down and move the mouse.

Let go of the mouse button, once you moved it to where you want it.



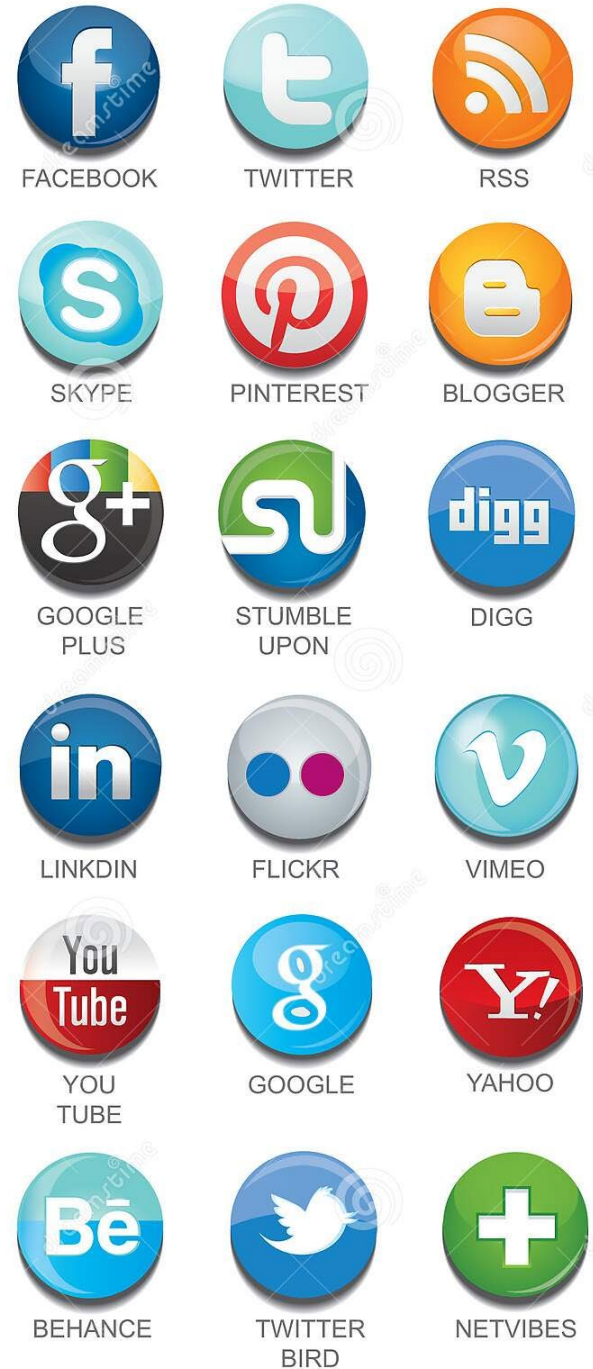
SOCIAL MEDIA

It is a digital technology that lets people share content, multimedia, and information, through virtual networks and communities.

There are more than 4.7 billion social media users around the world.

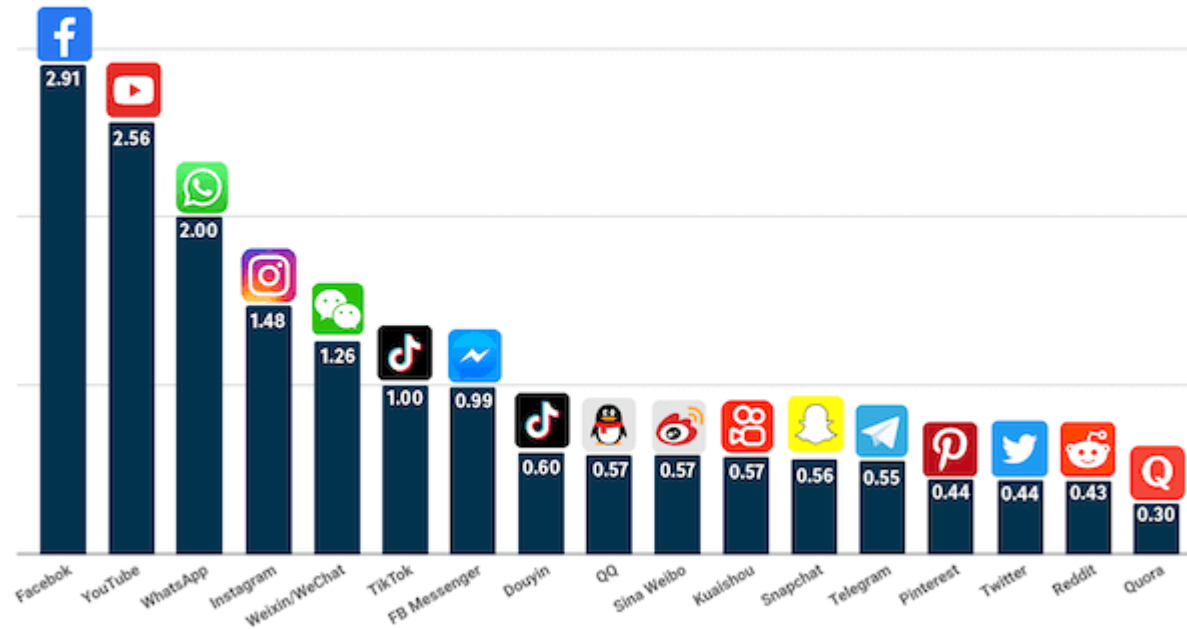
The largest social media platforms are Facebook, YouTube, WhatsApp, Instagram, and WeChat.

Social media typically features user-generated content and personalized profiles that lend themselves to responding with likes, shares, comments, or discussion.



Most popular social networks worldwide

By monthly active users, in billions



Source: Statista

WordStream
by LOCALIQ

THE MOST POPULAR SOCIAL MEDIA WEBSITES AS OF JANUARY 2023

- **Facebook** (2.96 billion users)
- **YouTube** (2.51 billion users)
- **WhatsApp** (2 billion users)
- **Instagram** (2 billion users)
- **WeChat** (1.31 billion users)
- **TikTok** (1.05 billion users)
- **Facebook Messenger** (931 million users)
- **Telegram** (700 million users)
- **Snapchat** (635 million users)

FACEBOOK OWNS:

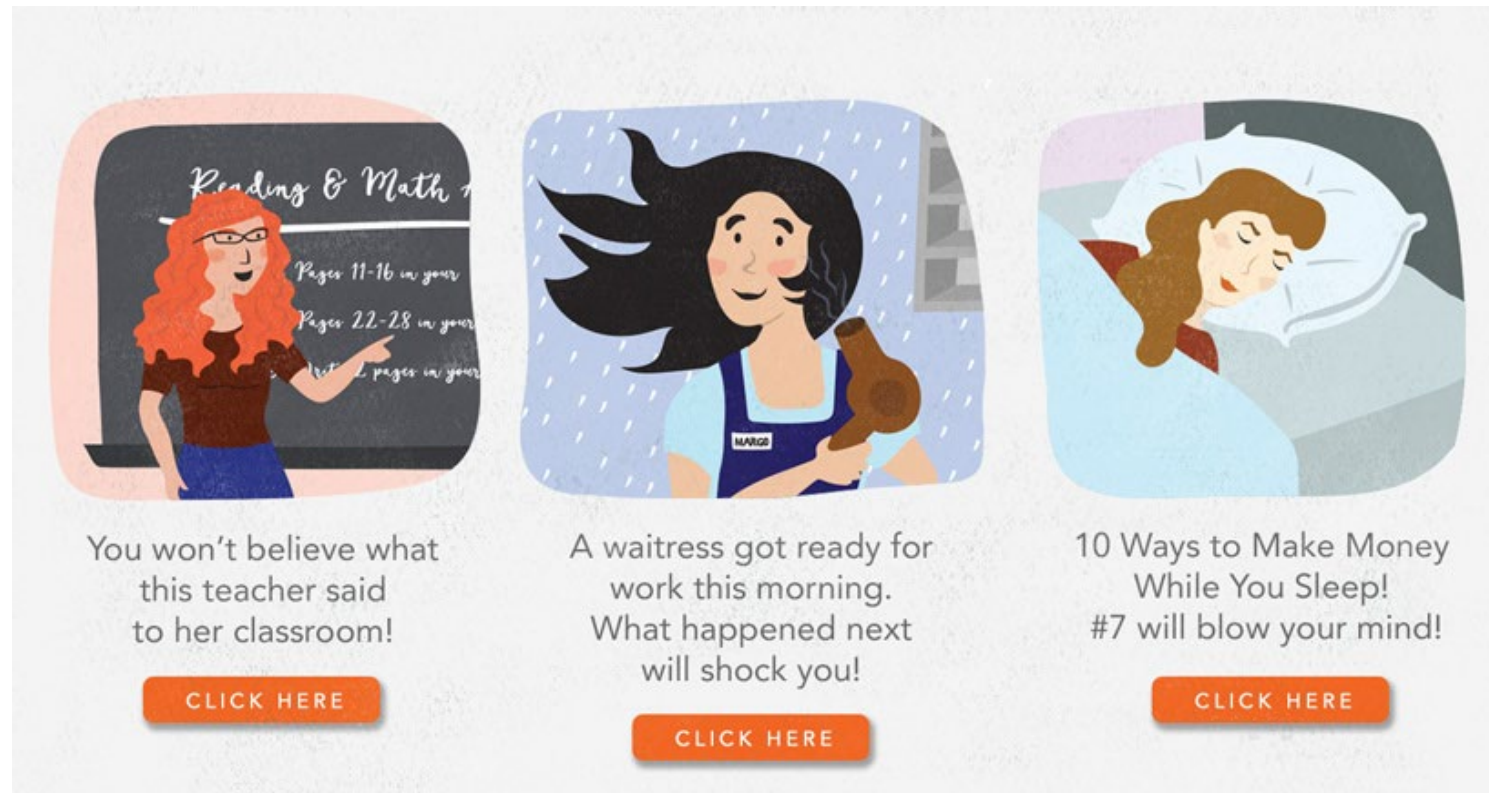
- **INSTAGRAM** – A PHOTO SHARING APP
- **WHATSAPP**
- **MESSENGER** (FOR SENDING PRIVATE MESSAGES)

CLICKBAIT

If you've spent any time on the Internet, you've likely seen articles and images with headlines like the examples above. They're just a small sampling of what's known as **clickbait**.

Clickbait is a sensationalized headline that encourages you to click a link to an article, image, or video. **Instead of presenting objective facts, clickbait headlines often appeal to your emotions and curiosity.**

Once you click, the website hosting the link earns revenue from advertisers.



When you go to some websites, you may see the **green rectangles** shown below, asking you to download a program.

It is recommended not to click on these as they usually aren't part of the program you want to see and may cause trouble for your computer !



What is a Cookie?

A cookie or Web cookie is a small plain text file that a website server sends to a browser for storage.

Cookie files are quite small – usually they range from 200 to 4,000 bytes.

Each time a computer goes to an Internet site, with an Internet browser, it will send a cookie.



Website with a cute message about accepting cookies:

<https://applover.com/blog/how-technology-will-affect-the-transportation-industry-in-20>

E-commerce websites place cookies on visitor's browsers to retain login credentials, identify customers, and provide a customized shopping experience.

What cookies do:

Secure websites use cookies to validate a user's identity as they browse from page to page; without cookies, login credentials would have to be entered before every product you want, is added to a cart or wish list. Cookies enable and improve:

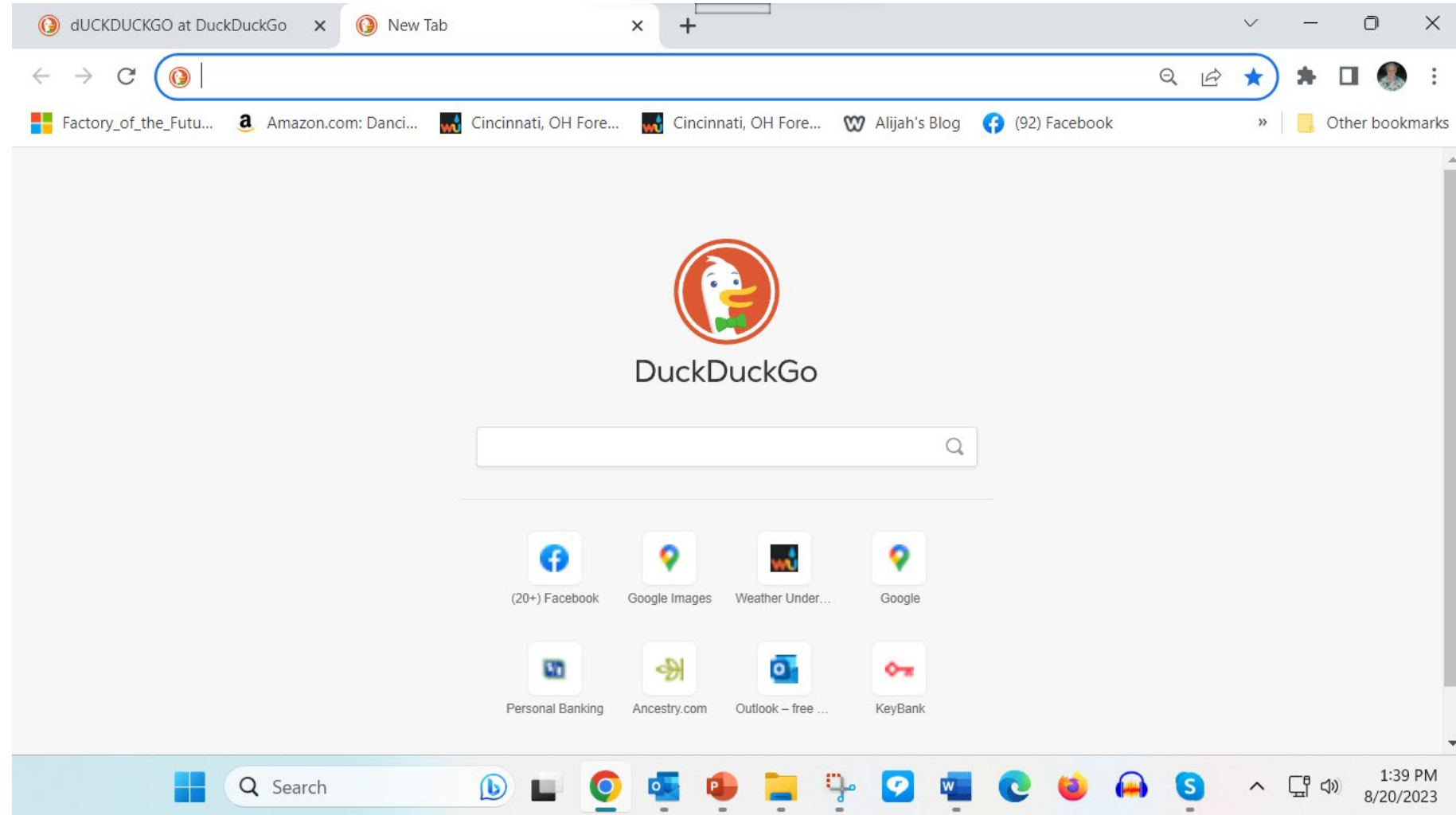
- Customer log-in
- Persistent shopping carts
- Wish lists
- Product recommendations
- Custom user interfaces (such as "Welcome back, Howie") that I see on Amazon.
- Retaining a customers address and payment information

DUCKDUCKGO – THE MORE PRIVATE BROWSER

DuckDuckGo is an internet privacy company.

It offers a number of products oriented towards helping people protect their privacy online.

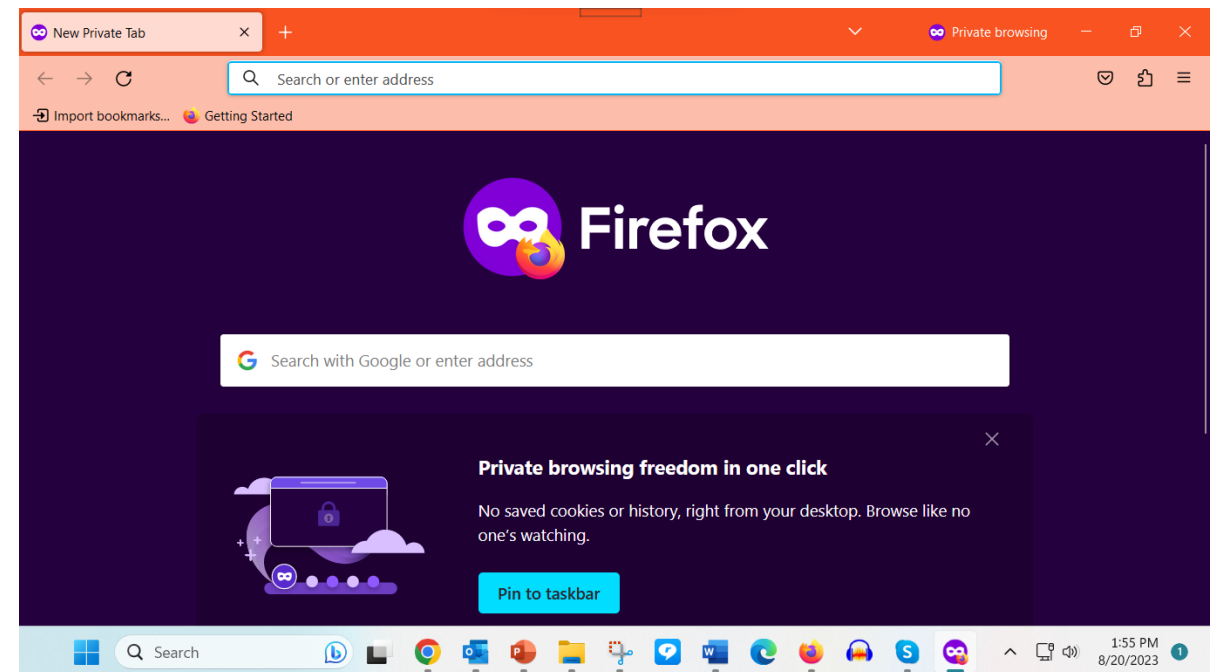
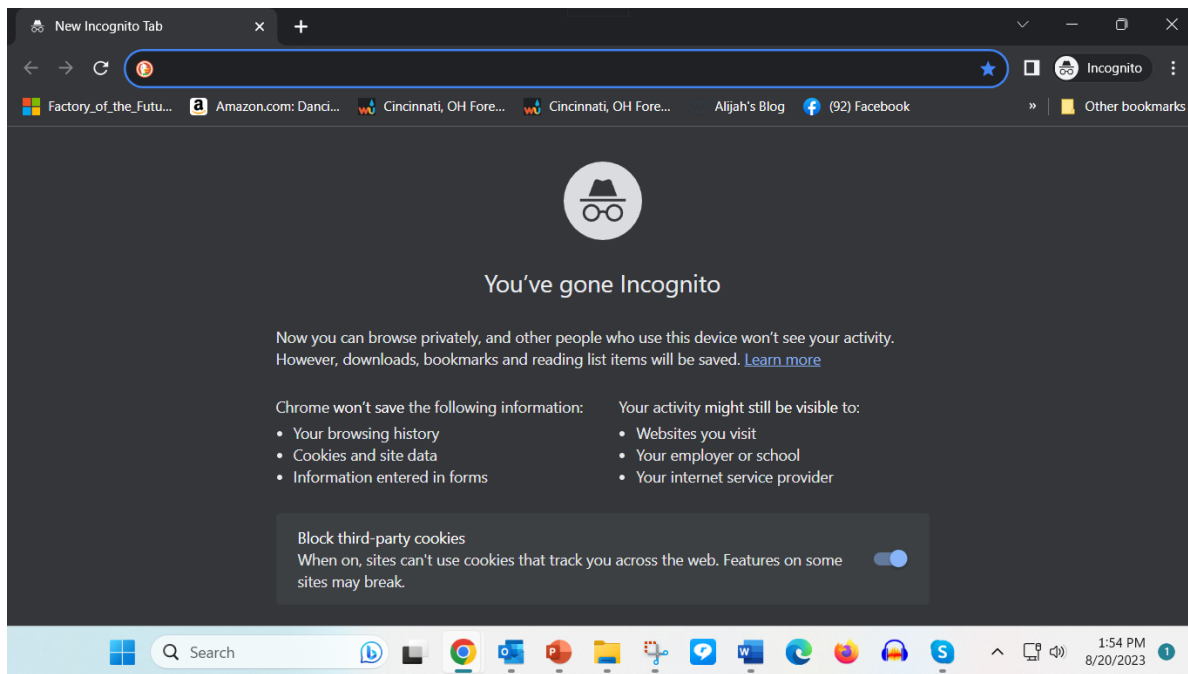
The features are a private search engine, a tracker-blocking browser extension, email protection and app tracking protection for Android.

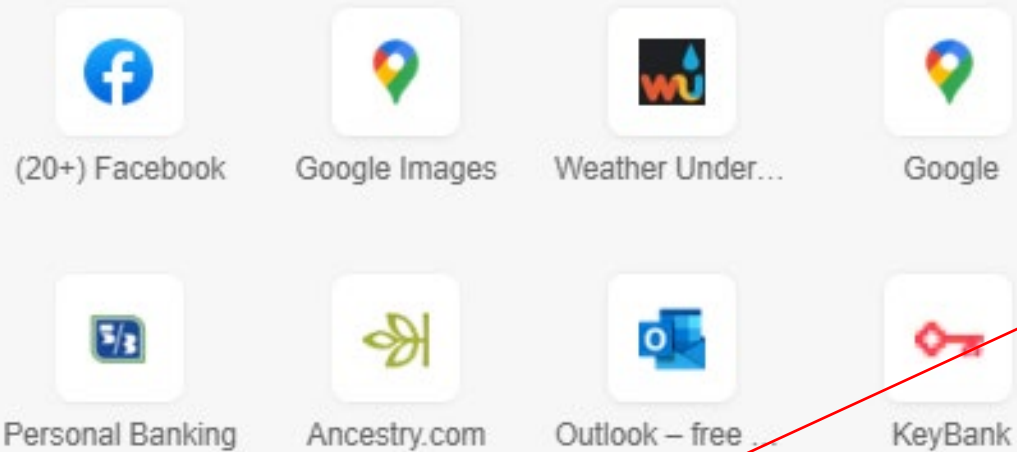


OTHER BROWSERS WITH MORE SECURE SEARCHING SCREENS

DuckDuckGo came out with their browser on February 29, 2008, which doesn't let the site track where anyone goes, like Google and Firefox do

Since that time, those 2 companies have also come out with private browsers (sometimes called Incognito), that you can choose to use.





Hide Most-Visited Sites

Some of the Internet browsers such as DuckDuckGo and Firefox, will put icons in the lower section of the page, that are shortcuts to places you go to regularly.

This is very handy for connecting quickly, to one or more websites that you use a lot.

If you want to remove them for any reason, you can click on the words at the bottom:
“Hide Most-Visited Sites”

USING GOOGLE FOR ONLINE SEARCHING AND OTHER FUN THINGS !!





Google is a company that specializes in Internet-related services and products, which include:

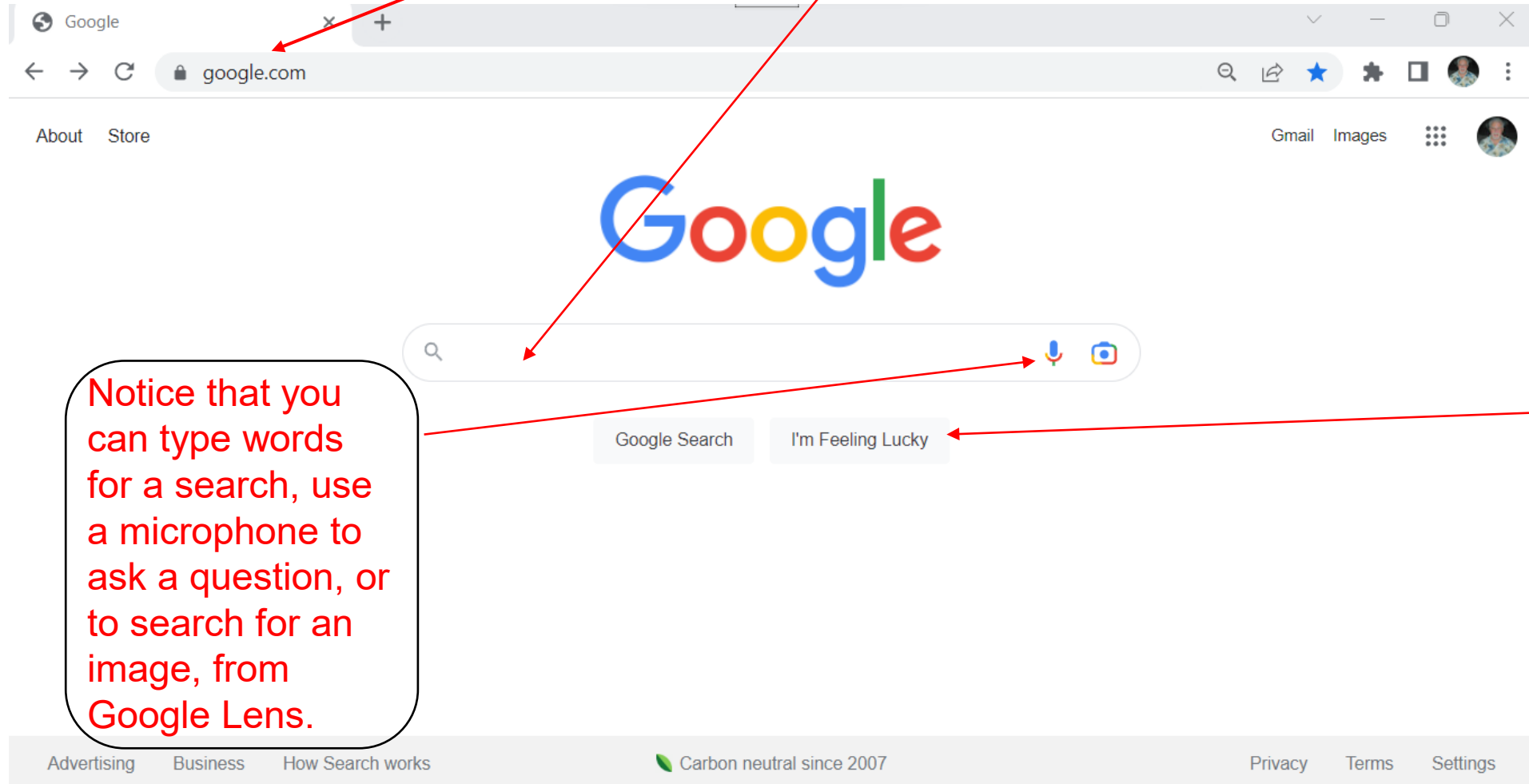
- **Its excellent search engine**
- **Cloud computing (the iCloud)**
- **Excellent Software programs** (info about them is coming up)
- **Hardware (like Google Nest speakers, Chromebook laptops, and more.**

If you do a computer search for subjects about Google, you can get up to 25 billion, 270 million listings in .51 of a second. (25,270,000,000) !!

This is why the website is used by billions of people in the world, every day.

This is the Google Home page. If you know the **internet address** of what you are looking for, you can type it into the top, thin horizontal window. Click in the window and the current text will turn blue which means you can type right over it.

If you want to search for a company, a subject, or anything else, you type in the words that describe what you want, into the larger horizontal window.



Notice that you can type words for a search, use a microphone to ask a question, or to search for an image, from Google Lens.

If you want to limit your subject search to the main sets of items that show up, you can click on "I'm Feeling Lucky".

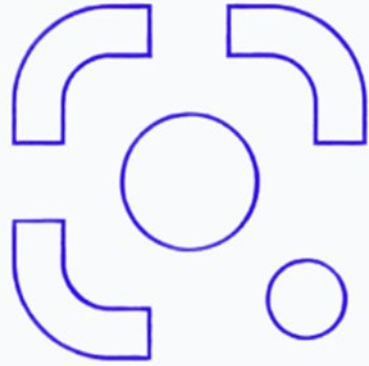
(Click on it a few more times and see the fun things that come up !!)

Google Lens
is used

8 BILLION

times a month.

(Google, 2022)



Google searches are being done with text questions but now you can also use Google Lens.

It is an application (app), powered by artificial intelligence and machine learning.

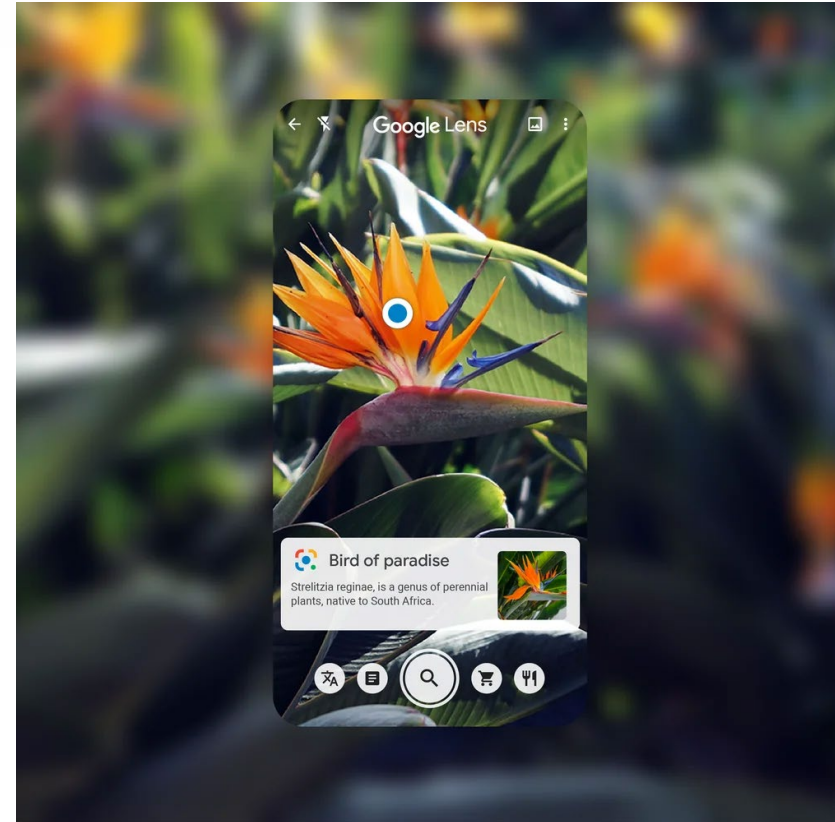
It helps users identify objects through their smartphone cameras.

All they have to do is direct their cameras at the object and ask Google what it is.

It also helps to translate text— more than 100 languages—and can read text out loud!!



Google Lens



Download on the
App Store

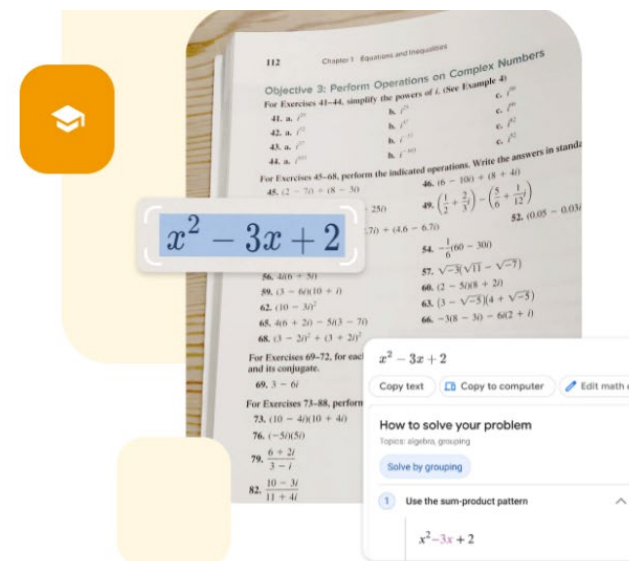


GET IT ON
Google Play



Copy and translate text

Translate text in real-time from over 100 languages. Or copy paragraphs, serial numbers, and more from an image, then paste it on your phone or your computer with Chrome.



Step by step homework help

Stuck on a problem? Quickly find explainers, videos, and results from the web for math, history, chemistry, biology, physics, and more.

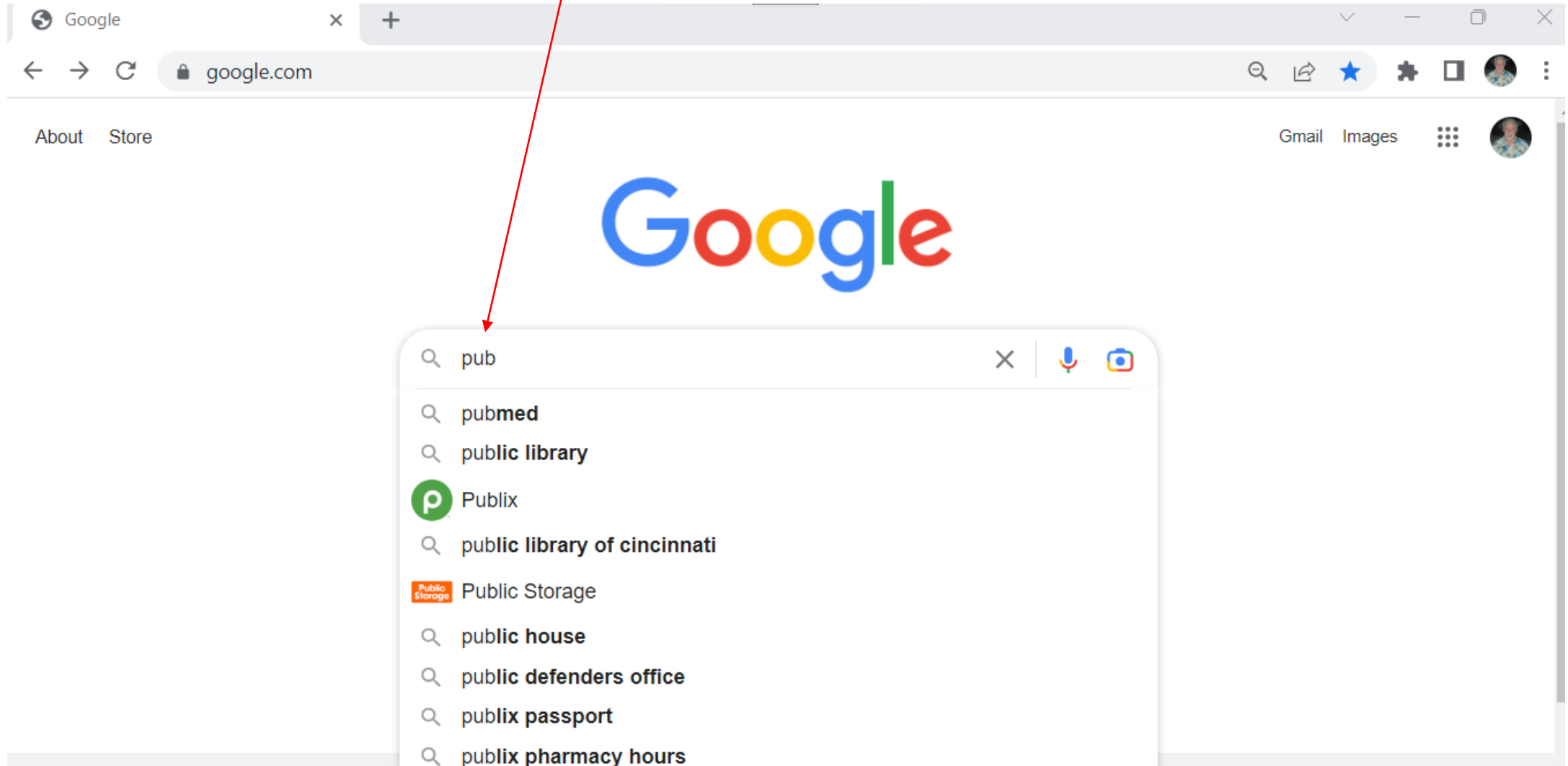


Identify plants and animals

Find out what plant is in your friend's apartment, or what kind of dog you saw in the park.

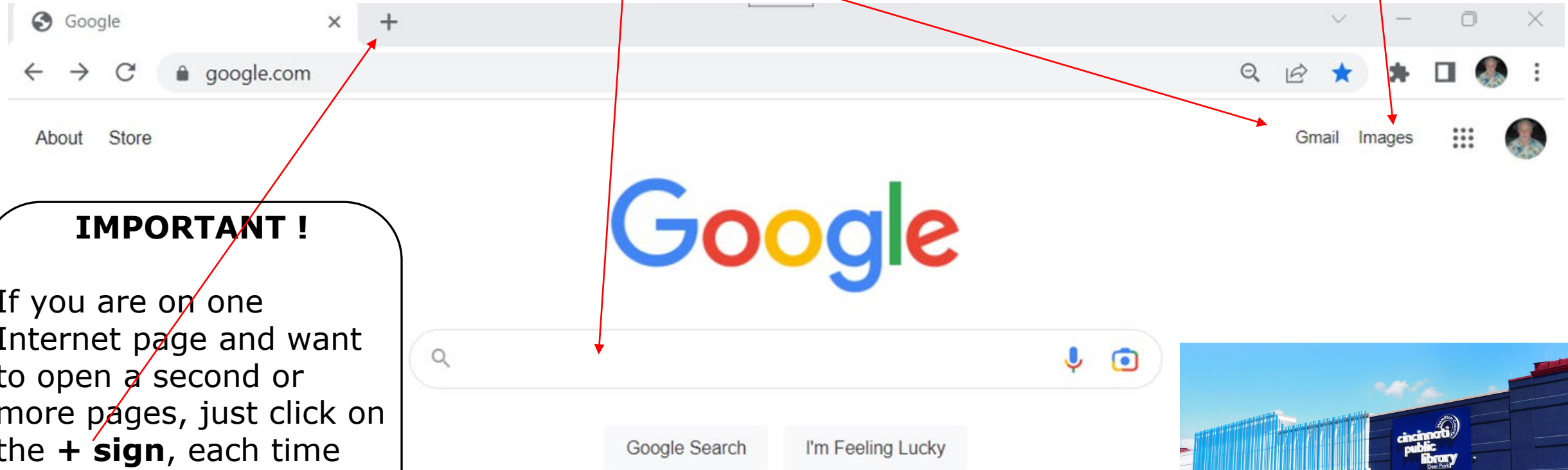
When you type the first or first 2 or 3 letters of what you are looking for, the “Word Prediction” program in Google makes its best guess on what you want and if one of the ones shown is what you are searching for, all you have to do is point your mouse cursor to it and left click it.

It helps to make it easier to find what you want, so you don’t have to do as much typing.



If you have a **Gmail e-mail account**, you can click on the word below to check your messages

If you want to see photo or cartoon images of a certain subject, click on the word "**Images**" and when you get the images screen, **type what you want** in the bottom horizontal window



IMPORTANT !

If you are on one Internet page and want to open a second or more pages, just click on the **+ sign**, each time and it will open a new search window.

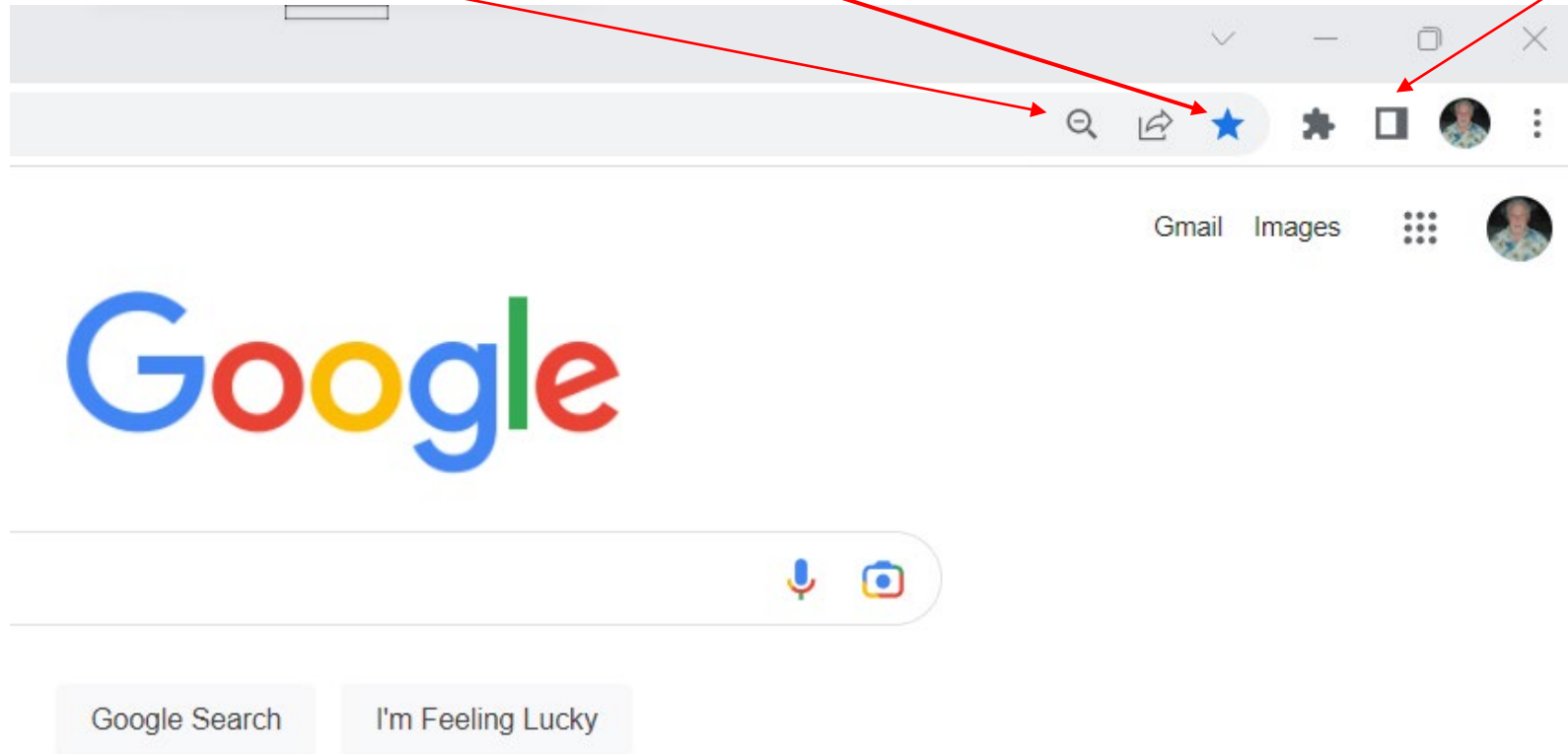


<https://www.google.com/maps/@50.2699138,-63.486345,3z?authuser=0&entry=ttu>

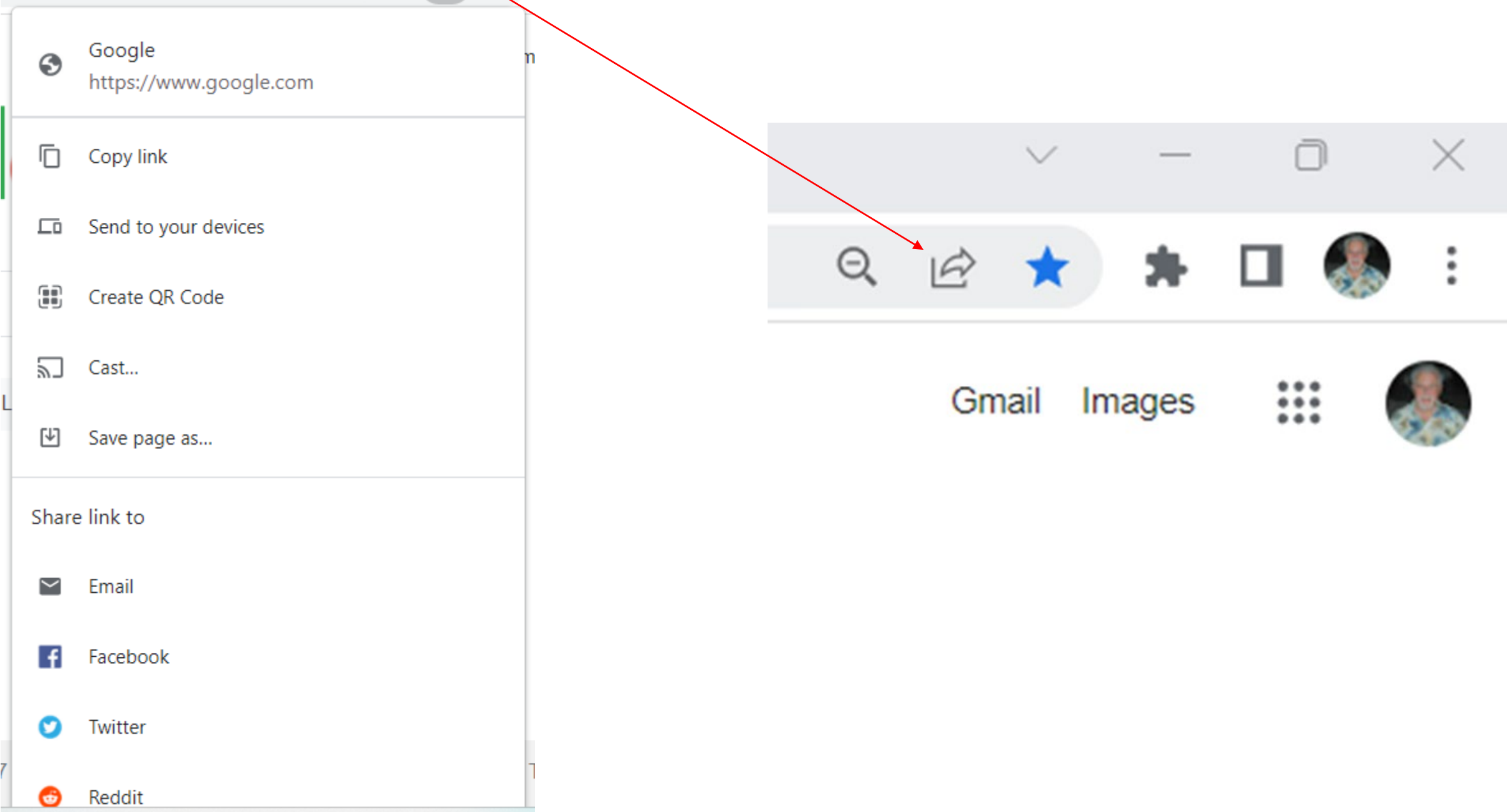
At the top, upper right of the Google screen, there are several icons that you may want to use:

The **star** is where you click to either **bookmark (save)** the web address of a site as one of your favorites or click on it if you want to see and click on one of the favorites that you saved there.

The **magnifying glass** is to zoom the size of your screen. For your **reading list**, click here.



The curved arrow, is the **Share** icon, for sharing a link or other item, from the site you are on, and it gives you the menu shown below:





With the Share icon, you can also Create a QR (Quick Response) Code that you can print anywhere or send to someone, to share a website or form to fill out, like the one below:

If you don't have an account with us, please fill out the form below, as the Pr
add more contacts after you click the submit button.

If you already have an account with us, please click [here](#) to have your passv

Required fields are denoted by *

Login Info

* Username

University of Cincinnati, OLLI | Online Regis...
reg121.imperisoft.com/.../Registration.aspx

Copy link

Send to your devices

Create QR Code

Cast...

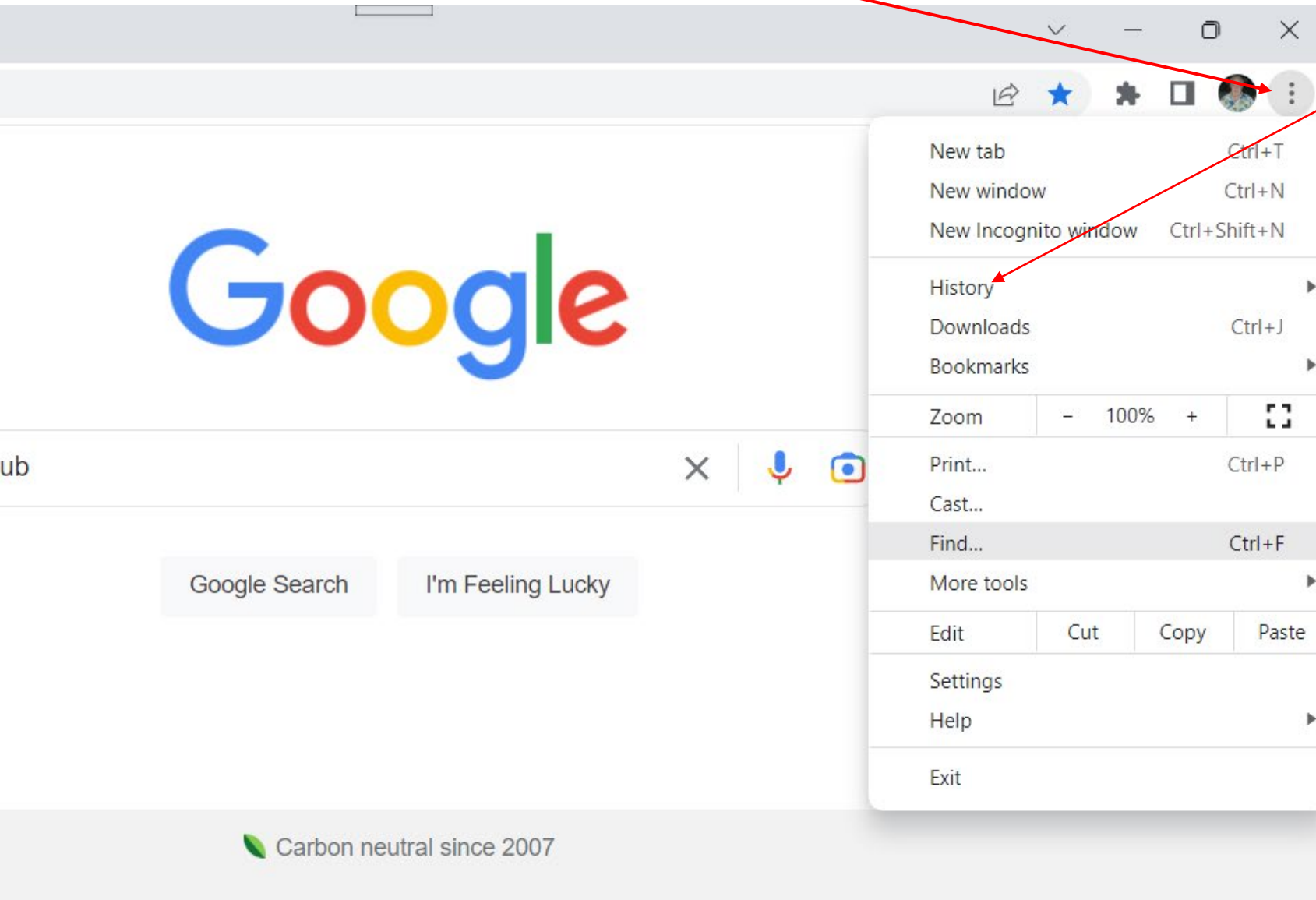
Save page as...

Share link to

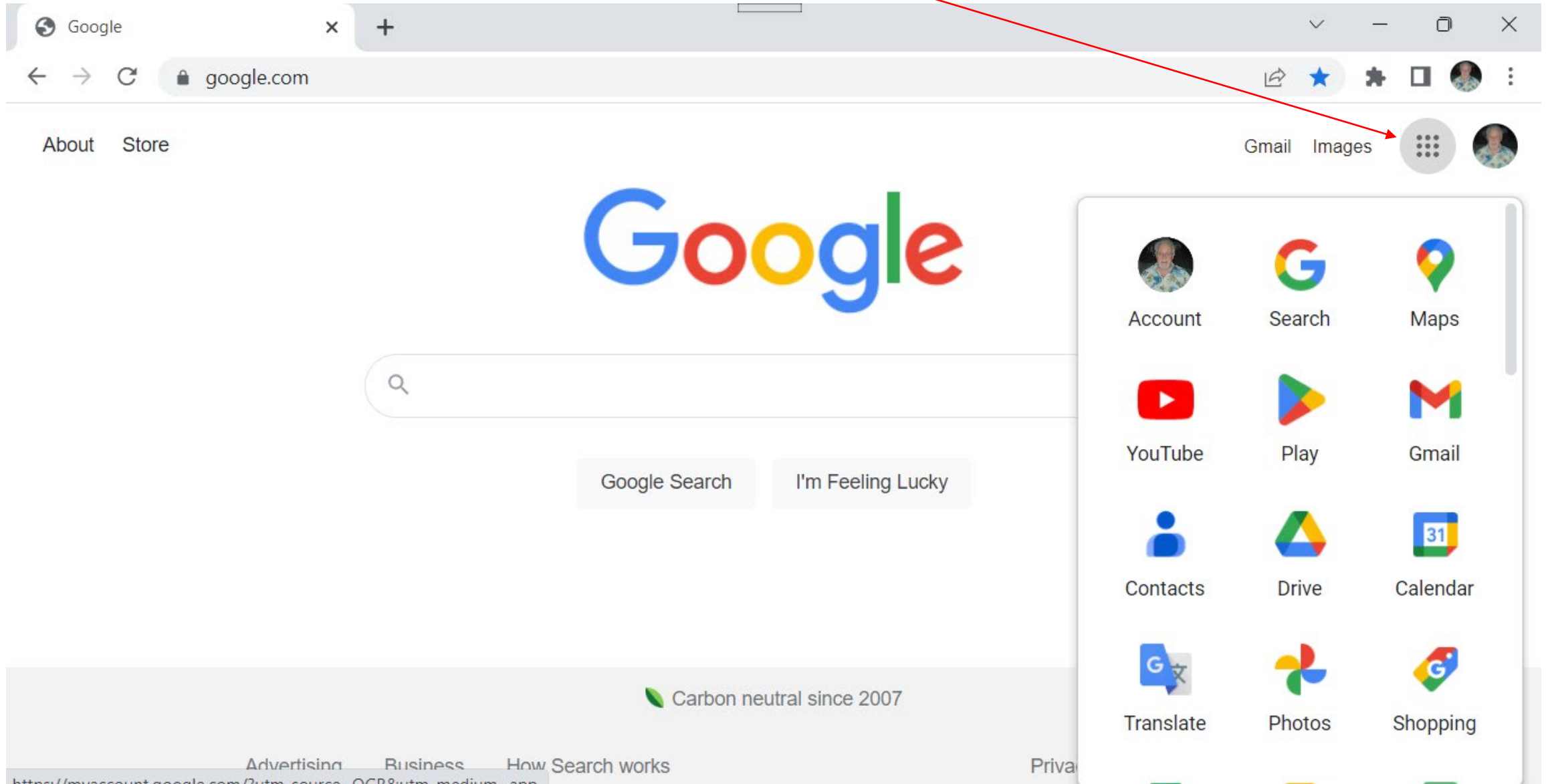
- Email
- Facebook
- Twitter
- Reddit



The **3 vertical dots** all the way on the right side, brings up a list of items, such as the **History** of the pages you went to, in case you want to find one.



When you click on the circle with the square of 9 dots in it, it will bring up the top of the screen of 12 icons out of the total of 36 programs they offer. .



The description of each one is shown below the icon.

Some of the most helpful ones:

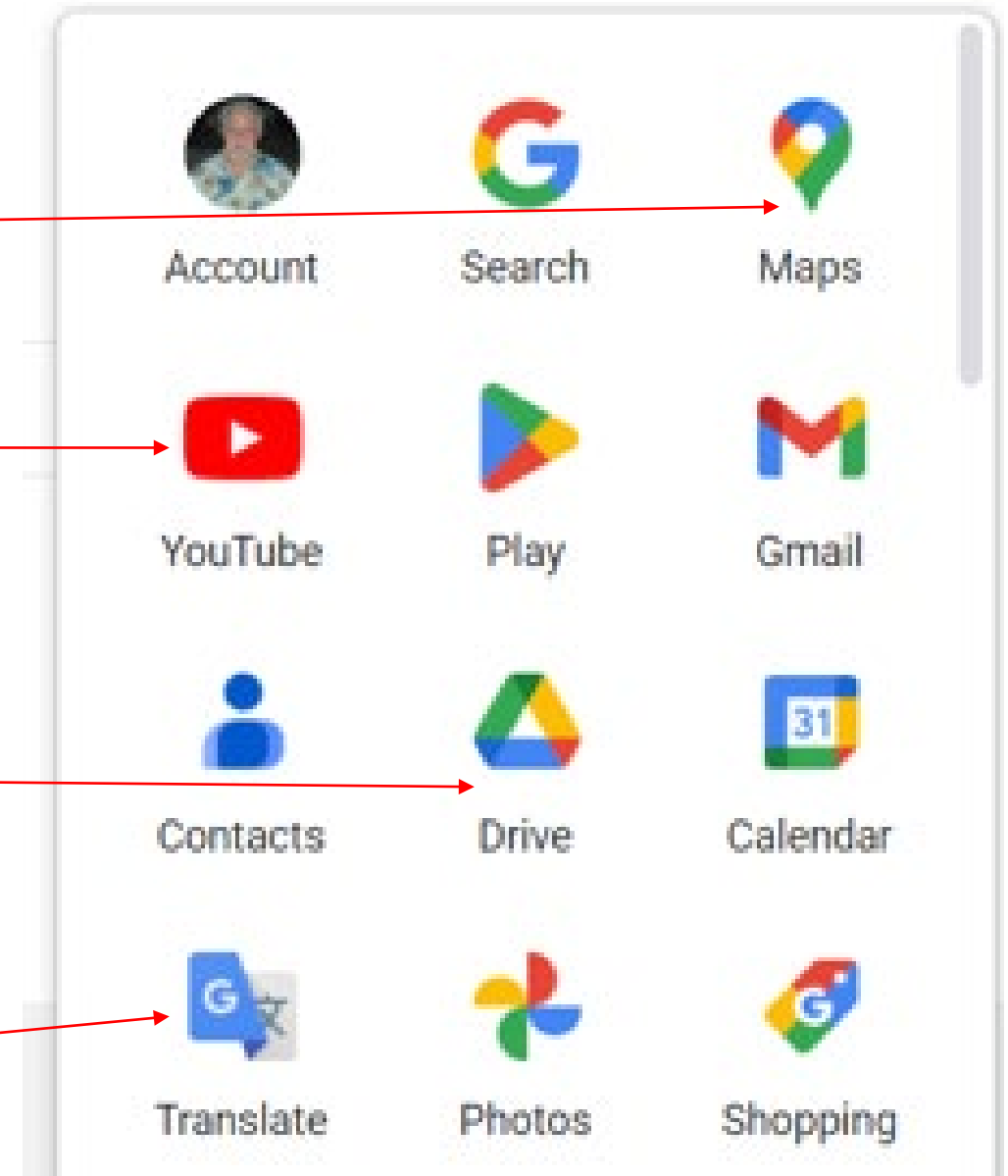
Maps helps you find a good map to anywhere in the World and also to get a set of driving directions.

YouTube gives you all the videos of songs, movies, directions on how to fix anything (once you describe it accurately), that you would ever want.

Drive is an abbreviation for **Google Drive** for file storage which lets users store documents, pictures, etc., in the Cloud.

This lets you retrieve them when you want to or share them with others.

(For Translate, see the next page)



GOOGLE TRANSLATE

<https://translate.google.com/>

<https://edu.gcfglobal.org/en/google-tips/translating-with-google/1/>

Google Translate - A Personal Int x Google Translate x +

translate.google.com/?hl=en&tab=iT

Google Translate

Text Images Documents Websites

DETECT LANGUAGE ENGLISH SPANISH FRENCH ENGLISH SPANISH ARABIC

Search languages

Afrikaans	Frisian	Latvian	Sesotho
Albanian	Galician	Lingala	Shona
Amharic	Georgian	Lithuanian	Sindhi
Arabic	German	Luganda	Sinhala
Armenian	Greek	Luxembourgish	Slovak
Assamese	Guarani	Macedonian	Slovenian
Aymara	Gujarati	Maithili	Somali

TRANSLATED WITH GOOGLE TRANSLATE

SPANISH MESSAGE FROM A CO-INSTRUCTOR/FRIEND OF MINE, ON HIS BIRTHDAY:

Mil gracias a todos los que se tomaron un momentito para felicitar me por mi cumpleaños. Espero poder verlos y celebrar la vida con cada uno en un futuro no muy lejano!

Thanks to everyone that took a moment to think about me on my birthday. I hope to see you and celebrate life with you sometime in the future!

HIS SAME MESSAGE, BUT IN FRENCH:

Merci à tous qui m'ont félicité hier pour mon anniversaire. J'espère que je puisse célébrer la vie avec tous dans un futur proche!

Thank you to everyone who congratulated me yesterday on my birthday. I hope I can celebrate life with everyone in the near future!





News



Meet



Chat



My Ad Ce...



Finance



Docs



Books



Blogger



Hangouts



Keep

Google

Google Search

I'm Feeling Lucky



Carbon neutral since 2007

Arch works

Private



Jamboard



Classroom



Earth



Collections



Sheets



Slides



Arts and C...



Google Ads



Podcasts



Google One



Travel



Forms

THE COMPUTER IS AN EXCELLENT TOOL TO SEARCH THE INTERNET
USE IT WISELY !!!



BIBLIOGRAPHY

<https://www.gcflearnfree.org/>

THE END