

# WEB BROWSERS AND SEARCH ENGINES

Edited by  
Dr. Gajanana Prabhu B.  
Assistant Professor  
Department of P G Studies in Physical Education  
Kuvempu University

# WEB BROWSER-Meaning

- A web browser is considered a software application that allows people to access, retrieve and view information on the internet.
- It allows to view/browse websites on the internet
- The information that may be “browsed” can be in the form of text content on a web page, an image, video, audio etc.
- The most popular web browsers currently in use are Firefox, Google Chrome, Internet Explorer, Opera and Safari.

## HOW POPULAR WEB BROWSERS WORK



**Mozilla  
Firefox**



**Google  
Chrome**



**Microsoft  
Internet  
Explorer**



**Apple  
Safari**



**Opera**

# The web browsing process begins with

1. User inputting a URL (Uniform Resource Locator) like http, https, ftp, file etc. example: <https://www.wikipedia.org/>
2. The browser then displays the resource by passing the HTML (main markup language for web pages) to the browser's layout engine to be translated from markup to an interactive document that can be viewed on the screen.

# SEARCH ENGINE- Meaning

- They are software programs that search for websites based on keywords that the user types in.
- It is a website that allows to search for content on the internet.
- The main purpose of a search engine is to search for information on the Internet.
- The search engine then goes through their databases of information in order to locate the information that is looked for.
- the search engine should be given a query/search phrase/keyword and it returns a list of web pages it feels best answer the query.
- The main search engines currently used are Google, Bing, and Yahoo.

# Top 10 Search Engines In The World



YAHOO!



Aol.



Yandex

# How do search engines work?

- Search engines send out “web crawlers” or “spiders” (automated computer programs that browse the internet in a methodical and automated manner) to create a copy of all the web pages they have been to.
- the search engine will then index the pages to create web site listings that facilitate faster searches.
- search engine then sorts through millions of pages in its database to find a match to that specific query.
- At last it produces the results to your query in a ranked order according to relevancy.



## WEB BROWSERS



## SEARCH ENGINE



# Difference between web browser and search engine

- Browser is basically used to access information on the Internet while Search Engine is used to point in the right direction of a website that relates to the words typed in.
- Browser has to be used to get to a search engine, for example; typing in [www.google.com](http://www.google.com) which will then take you to the google web page.
- The main difference between browser and search engine is that a browser is a software application that helps to access and display [websites](#) in [WWW](#) while search engine is a software application helps to search for websites in WWW.

# **BROWSER ENGINE**

## **VERSUS**

# **SEARCH ENGINE**

BROWSER ENGINE	SEARCH ENGINE
A software application for accessing information on WWW	A software system that is designed to search for information on WWW
Allows accessing and displaying websites	Allows searching and filtering websites
Locally installed on the user's device	A software system that runs on WWW
Chrome, Firefox, Internet Explorer and Safari are examples	Google, Bing, Yahoo and Ask.com are some examples
	Visit <a href="http://www.PEDIAA.com">www.PEDIAA.com</a>