

MSc III Sem – Life Sciences

Course – Bioinformatics

Web Browsers and Search Engines

Web Browsers

- ❖ Web browsers (and this tutorial will use the term “browser”) are **computer software programs that access and display content from Internet [websites](#)**. Browsers interpret Web programming code and present it in a way that is easy to view and (in most cases) support user interactions.
- ❖ Information on the Web can be stored and accessed from many different physical locations around the World.
- ❖ How each [browser](#) interprets, displays and interacts with web sites is (usually) different.
- ❖ Web technologies are continually changing, and new technologies added. It is important to use modern, updated browsers in order to successfully and effectively interact with websites built on these technologies.

Web Browsers: Basic Features

- There are many brands of web browsers, each with their own specific look, and the way they interpret and interact with web pages.
- Before selecting a browser, it is helpful to first understand more about what a browser is, and some examples of what it can do.

Browsers can:

- ❖ Display text and images (static; not able to be changed).
- ❖ Read and send E-mail.
- ❖ Search for information on the Internet (using a search engine).
- ❖ Play audio and video files, and other presentations (may require a plug-in).
- ❖ Access and provide social interaction with Web 2.0 websites, and computer-based applications (can add/edit website content).

Desktop browsers ranking



Chrome
52%



Safari
14%



UC Browser
9%



Firefox
7%



IE
4%

Mobile browsers ranking



Chrome
46%



Safari
18%



UC Browser
17%



Samsung Internet
7%

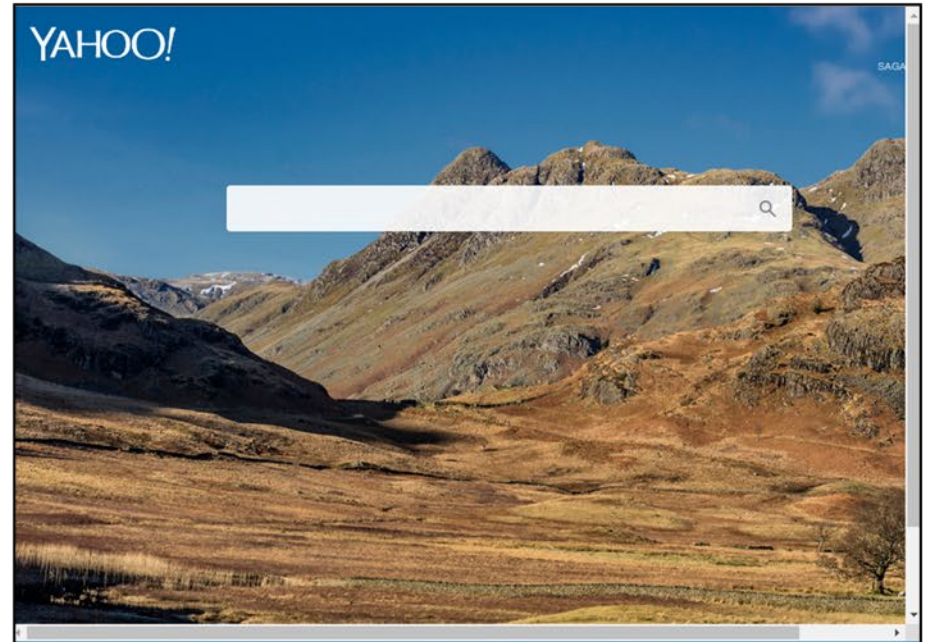
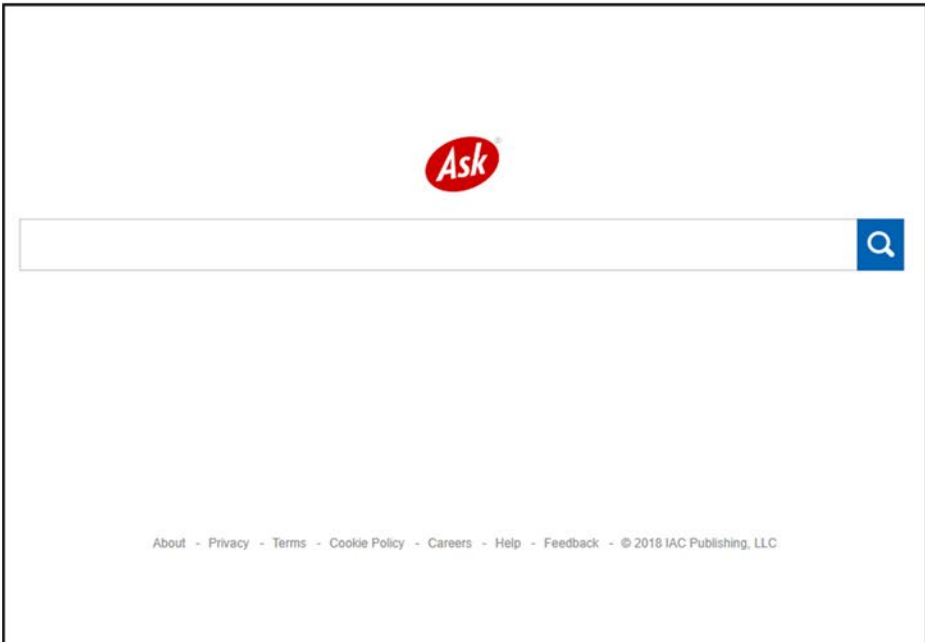
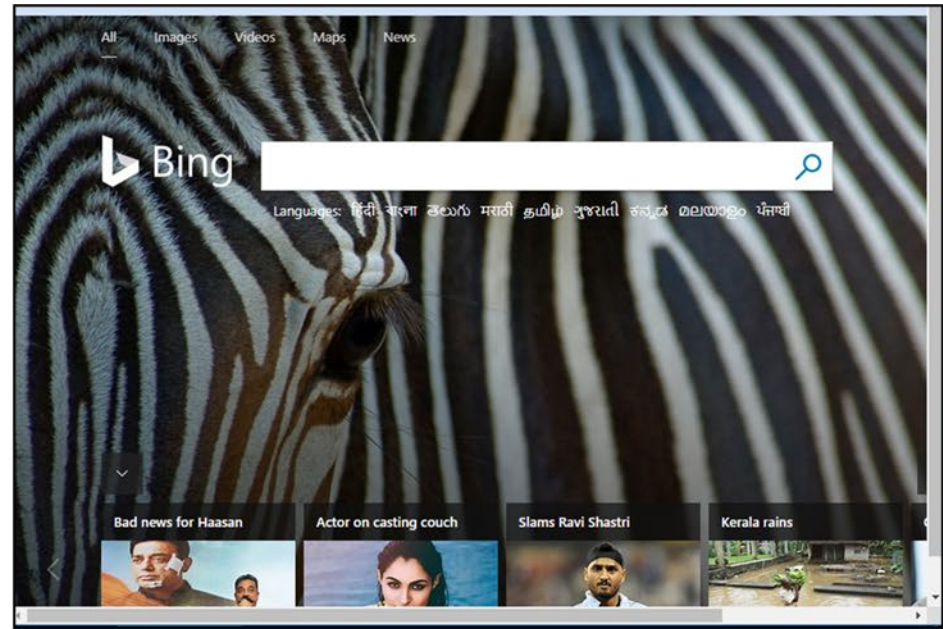
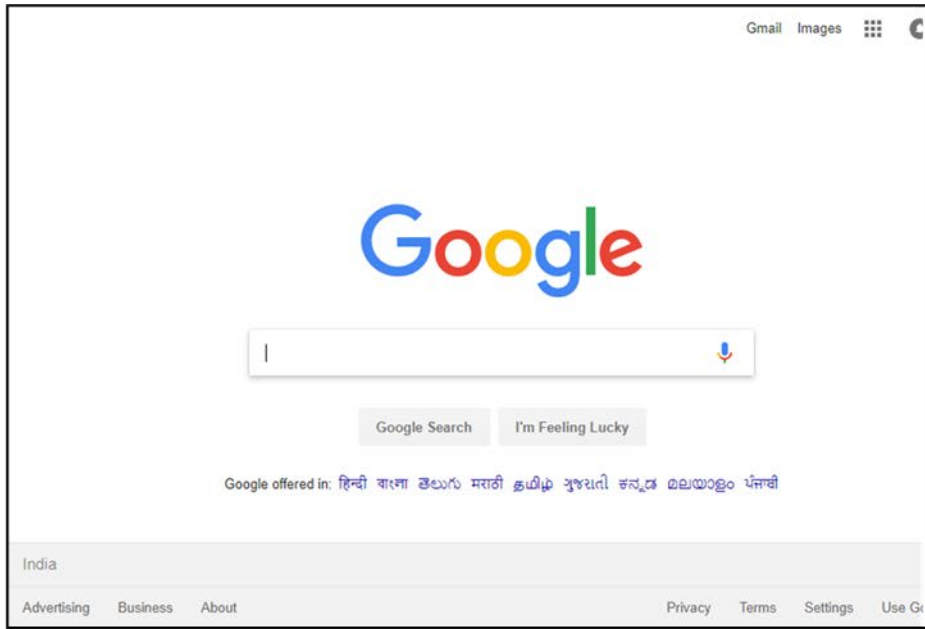


Opera*
6%

Search Engines

A web search engine or Internet search engine is a software system that is designed to carry out web search, which means to search the World Wide Web in a systematic way for particular information specified in a textual web search query.

- Search by Keywords (e.g. Google, Bing, AltaVista, Excite, and Northern Light)
- Search by categories (e.g. Yahoo!, Ask)
- Specialize in other languages (e.g. Chinese Yahoo!, Yahoo! Japan, Naver South Korea)



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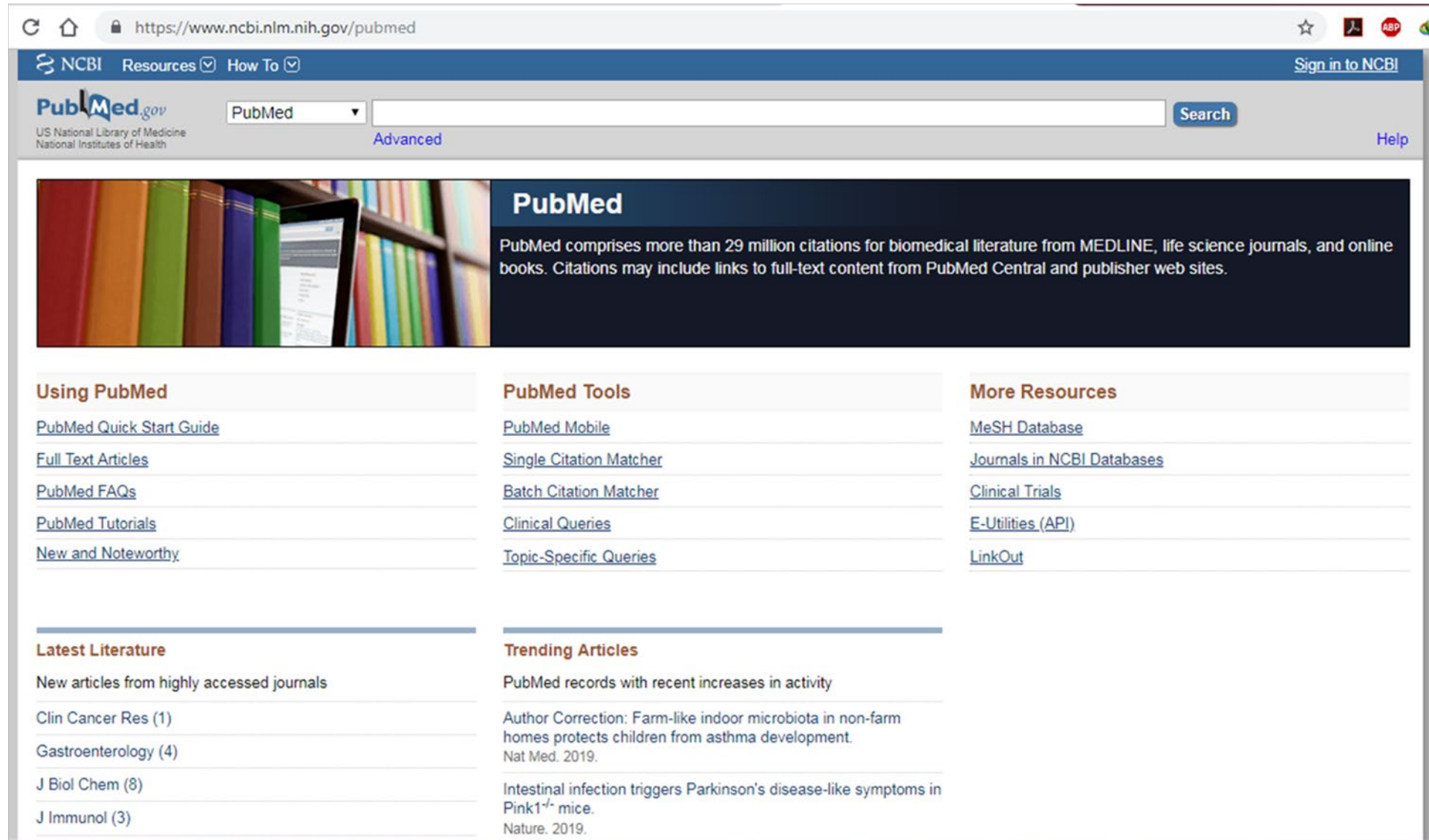
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Scientific Search Engine: NCBI PUBMED

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The screenshot shows the NCBI PubMed website. At the top, there is a navigation bar with the NCBI logo, "Resources", and "How To" menus. The main header features the PubMed logo, a search bar with a dropdown menu set to "PubMed", and a "Search" button. Below the header, there is a large banner image of a bookshelf with a tablet displaying a search result. To the right of the image, the text reads: "PubMed comprises more than 29 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites."

The main content area is divided into three columns:

- Using PubMed:** Includes links for "PubMed Quick Start Guide", "Full Text Articles", "PubMed FAQs", "PubMed Tutorials", and "New and Noteworthy".
- PubMed Tools:** Includes links for "PubMed Mobile", "Single Citation Matcher", "Batch Citation Matcher", "Clinical Queries", and "Topic-Specific Queries".
- More Resources:** Includes links for "MeSH Database", "Journals in NCBI Databases", "Clinical Trials", "E-Utilities (API)", and "LinkOut".

At the bottom, there are two sections:

- Latest Literature:** "New articles from highly accessed journals" with a list: "Clin Cancer Res (1)", "Gastroenterology (4)", "J Biol Chem (8)", and "J Immunol (3)".
- Trending Articles:** "PubMed records with recent increases in activity" with two examples: "Author Correction: Farm-like indoor microbiota in non-farm homes protects children from asthma development. Nat Med. 2019." and "Intestinal infection triggers Parkinson's disease-like symptoms in Pink1^{-/-} mice. Nature. 2019."

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