

**ADDIS ABABA UNIVERSITY**

**ADDIS ABABA INSTITUTE OF TECHNOLOGY**

**CENTER OF INFORMATION TECHNOLOGY AND SCIENTIFIC COMPUTING**

**DEPARTMENT OF SOFTWARE ENGINEERING**

**ASSIGNMENT 1: HISTORY OF INTERNET ASSIGNMENT**

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History of Internet

The Internet is at once a world-wide broadcasting capability, a mechanism for information dissemination, and a medium for collaboration and interaction between individuals and their computers without regard for geographic location.It has revolutionized the computer and communications world like nothing before.

The first recorded description of the social interactions that could be enabled through networking was a series of memos written by J.C.R. Licklider of MIT in August 1962 discussing his “Galactic Network” concept. He envisioned a globally interconnected set of computers through which everyone could quickly access data and programs from any site.

The Internet had its roots during the 1960's as a project of the United States government's Department of Defense, to create a non-centralized network.

This project was called ARPANET (Advanced Research Projects Agency Network),

created by the Pentagon's Advanced Research Projects Agency established in October 29, 1969 to provide a secure and survivable communications network for organizations engaged in defense-related research.

ARPA brought Larry Roberts, an old friend of Kleinrock's MIT, to manage the ARPANET project. Roberts turned to the work of British computer scientist Donald Davies and American Paul Baran for the data transport techniques they had invented.

He based the network on a brand-new concept called packet-switching," and thanks in large part to this choice, the ARPAnet would eventually morph into the modern internet.

ARPANET delivered its first message: a “node-to-node” communication from one computer to another. (The first computer was located in a research lab at UCLA and the second was at Stanford; each one was the size of a small house.) The message “LOGIN” was short and simple, but it crashed the fledgling ARPA network anyway: The Stanford computer only received the note’s first two letters.

In order to make the network more global a new sophisticated and standard protocol was needed. They developed IP (Internet Protocol) technology which defined how electronic messages were packaged, addressed, and sent over the network in the 1970s.

In 1973, Robert Kahn and Vinton Cerf [collaborate to develop a protocol](https://georgewbush-whitehouse.archives.gov/government/cerf-kahn-bio.html" \t "https://online.jefferson.edu/communications/internet-history-timeline/_blank" \o "Dr. Vinton Cerf and Dr. Robert Kahn: Medal of Freedom Recipients) for linking multiple networks together. This later becomes the Transmission Control Protocol/Internet Protocol (TCP/IP), a technology that links multiple networks together such that, if one network is brought down, the others do not collapse. While working at Xerox, Robert Metcalfe develops a system using cables that allows for [transfer of more data over a network](http://www.biography.com/people/robert-metcalfe-9542201" \t "https://online.jefferson.edu/communications/internet-history-timeline/_blank" \o "Robert Metcalfe Biography). He names this system Alto Aloha, but it later becomes known as Ethernet.

The standard protocol was invented in 1977 and was called TCP/IP (Transmission Control Protocol/Internet Protocol). In 1982, the PhoneNet system is established and is connected to ARPANET and the first commercial network, Telenet. This broadens access to the internet and allows for email communication between multiple nations of the world.

ARPANET adopted TCP/IP on January 1, 1983, and from there researchers began to assemble the “network of networks” that became the modern Internet. TCP/IP allowed users to link various branches of other complex networks directly to the ARPANET, which soon came to be called the Internet.

Internet usage has exploded since 1995, when researchers first started tracking this statistic. Although estimates vary from the Internet having 1 billion to 1.5 billion users, everyone agrees that the Net has room for growth as the worldwide population tops 6 billion. we are now experiencing the fourth scientific revolution.

Assessment of websites

It is important to be able to assess the quality of a website.  When using a website for a resource, it is mainly the quality of the information that must be assessed. But when creating a website or judging someone else's website, a number of different factors must be considered. This document uses currency, relevance, authority accuracy and purpose as Criteria for Assessing the Quality of Information. Using the criteria’s mentioned YouTube, Wikipedia, Facebook, British Broadcasting Corporation (BBC) and [Google](https://en.wikipedia.org/wiki/Google" \o "Google).

currency

YouTube is an American [video-sharing](https://en.wikipedia.org/wiki/Video_hosting_service" \o "Video hosting service) [platform](https://en.wikipedia.org/wiki/Web_platform" \o "Web platform) headquartered in [San Bruno, California](https://en.wikipedia.org/wiki/San_Bruno,_California" \o "San Bruno, California). created the service in February 2005 and companies update their terms of service all the time — this is YouTube’s third change just in 2019.

relevance

the audience appears to be at least 18 years old. YouTube allows users to upload, view, rate, favorites, share, add to playlists, flag, report, comment on [videos](https://en.wikipedia.org/wiki/Video" \o "Video), and [subscribe to other users](https://en.wikipedia.org/wiki/List_of_most-subscribed_YouTube_channels" \o "List of most-subscribed YouTube channels).

Authority

YouTube was founded by Steve Chen, Chad Hurley, and Jawed Karim, who were all early employees of PayPal  in [video-sharing](https://en.wikipedia.org/wiki/Video_hosting_service" \o "Video hosting service) [platform](https://en.wikipedia.org/wiki/Web_platform" \o "Web platform)

Accuracy

The majority of You-Tube video clips are not relevant educational materials. And has a risk for children encountering content that may not be appropriate for them

Objectivity

YouTube is used to watch music videos, comedy shows, how to guides, recipes, hacks and Create playlists to organize videos and group videos together and more

Currency

[Wikipedia](https://en.wikipedia.org/wiki/Wikipedia" \o "Wikipedia) began with its first edit on 15 January 2001 and Last updated: [2019-05-11](https://en.wikipedia.org/w/index.php?title=2019-05-11&action=edit&redlink=1" \o "2019-05-11 (page does not exist))

Relevance

Is relevant to a multilingual  [open collaboration](https://en.wikipedia.org/wiki/Open_collaboration" \o "Open collaboration) project by a [community of volunteer editors](https://en.wikipedia.org/wiki/Wikipedians" \o "Wikipedians) using a [wiki](https://en.wikipedia.org/wiki/Wiki" \o "Wiki)-based editing system

Authority

was founded by [Jimmy Wales](https://en.wikipedia.org/wiki/Jimmy_Wales" \o "Jimmy Wales) and [Larry Sanger](https://en.wikipedia.org/wiki/Larry_Sanger" \o "Larry Sanger)

Accuracy

Wikipedia is not a reliable source. Wikipedia can be edited by anyone at any time

Objectivity

The goal of a Wikipedia article is to present a [neutrally written](https://en.wikipedia.org/wiki/Wikipedia:Neutral_point_of_view" \o "Wikipedia:Neutral point of view) summary of [existing mainstream knowledge](https://en.wikipedia.org/wiki/Wikipedia:No_original_research" \o "Wikipedia:No original research) in a fair and [accurate manner](https://en.wikipedia.org/wiki/Wikipedia:Verifiability" \o "Wikipedia:Verifiability) with a straightforward, "[just-the-facts style](https://en.wikipedia.org/wiki/Wikipedia:Summary_style" \o "Wikipedia:Summary style)".

Currency

Facebook was founded in 2004 and have been four major redesigns. The last one is known as the new Facebook as of January 2020, the update for desktop users is missing in action

Relevance

This Facebook statistic also shows us that for the most part, young adults prefer to use similar social media platforms to interact with others their age.

Authority

The author of Facebook is Mark Elliot Zuckerberg

Accuracy

The accuracy of Facebook not accurate the user or their server might have a firewall interfering with the reporting process. And Facebook uses cookies while many website tracking platforms use session data so everything being stored on the user side

Purpose

To make the world more open and connected. Facebook's latest mission statement is that people use Facebook to stay connected with friends and family, discover what's going on in the world and share and express what matters to them.

Currency

The British Broadcasting Corporation (BBC) is a British [public service broadcaster](https://en.wikipedia.org/wiki/Public_service_broadcaster" \o "Public service broadcaster).it has had an online presence supporting its TV and radio programmes and web-only initiatives since April 1994,[[2]](https://en.wikipedia.org/wiki/BBC_Online" \l "cite_note-:0-2) but did not launch officially until 28 April 1997

Relivance

The BBC previously ran a page to help young people sort out their life difficulties entitled "Your Life" know provided regular answers to children's questions across the message boards.

Authority Most online BBC news articles do not have named authors

Accuracy BBC is considered generally reliable.because of its backing from A&E Networks and references to the website in news media.

Purpose

 To provide impartial news and information to help people understand and engage with the world around them and to support learning for people of all ages.

Currency

The [Google](https://en.wikipedia.org/wiki/Google" \o "Google) company was officially launched in 1998and  Last updated on February 25th, 2020

Authority

[Larry Page](https://en.wikipedia.org/wiki/Larry_Page" \o "Larry Page) and [Sergey Brin](https://en.wikipedia.org/wiki/Sergey_Brin" \o "Sergey Brin) while they were Ph.D. students at [Stanford University](https://en.wikipedia.org/wiki/Stanford_University" \o "Stanford University) in [California](https://en.wikipedia.org/wiki/California" \o "California). Together they own about 14 percent of its shares and control 56 percent of the stockholder voting power through [super voting](https://en.wikipedia.org/wiki/Preferred_stock" \o "Preferred stock) stock.

Accuracy

Purpose You can drag and drop all you want and it all magically becomes responsive and allows you to create a website without having to know how to code it yourself.

## Types of websites and their examples

## As of now, there are billions of websites online, all competing for some share of the attention people give to their online browsing each day.Here are twelve of the most popular types of websites and their examples with their URLs.

* Educational website An educational Web site Provides information related to students , teachers and educational institutions.

## Examples of educational websites

1. EdX: edx.org  it was founded by Harvard University and the most uesful educational website to students
2. Academic Earth: academicearth.org

Is usefull for academic options to student from traditional to contemporary studies.They provide online degree courses from accounting and economics to engineering

1. Futures Channel: thefutureschannel.com

this website is an educational channel for the learners,it is not just an online portal Unlike other websites, it only represent the significant data catering the problems faced by students. For example, students generally face problem in algebra, so they have created special section for the same.

1. Coursera: courser.org

It is a user-friendly website. Students can find big universities and a sharable electronic Course Certificate after completing the course. "Courses include recorded video lectures, and community discussion forums.

1. Brightstorm: brightstorm.com

High school scholars can use this site for reference. They provide help in all subjects from mathematics to science, history and other subjects. Entrance exams are generally quite gruelling for students, and this website can solve the problem.

* A content aggregator is an individual or organization that gathers Web content (and/or sometimes applications) from different online sources for reuse.

## Examples of A content aggregator website

The following sites are some of the best and most popular examples of successful content aggregator websites.

1. Alltop -<https://alltop.com/> founded by startup legend Guy Kawasaki, [Alltop](https://alltop.com/" \t "https://wpmayor.com/6-best-examples-content-aggregator-websites/_blank) is one of the biggest names in content aggregation. It allows a search for specific topics and then view aggregated content .
2. Popurls -<http://popurls.com/>

Popurls pulls in content from a variety of social networks, blogs, and news organizations Unlike Alltop, you can’t submit your own website to Popurls.

1. The Web List

[The Web List](http://theweblist.net/" \t "https://wpmayor.com/6-best-examples-content-aggregator-websites/_blank) functions similarly to Popurls in that it’s a one-page content aggregator website that collects content from a huge variety of sources

1. WP News Desk <http://wpnewsdesk.com/>

[WP News Desk](http://wpnewsdesk.com/" \t "https://wpmayor.com/6-best-examples-content-aggregator-websites/_blank) is a content aggregator website that focuses specifically on WordPress. It automatically pulls in content from a variety of WordPress blogs and companies and displays posts on the front page.

1. Travel Blogger Community

[Travel Blogger Community](http://travelbloggercommunity.com/" \t "https://wpmayor.com/6-best-examples-content-aggregator-websites/_blank) is for travel bloggers what WP News Desk is for WordPress. That is, Travel Blogger Community aggregates content from travel bloggers all around the world in one accessible place.

* An Informational Web site is one whose purpose is to present factual information. The URL Address frequently ends in .edu or .gov, as many of these pages are sponsored by educational institutions or government agencies. Examples: Dictionaries, thesauri, directories, transpor tation schedules, calendars of events, statistical data.
* An entertainment Website - offers an interactive and engaging environment. Popular entertainment Web sites offer music, videos, sports, games, chat rooms.
* Wiki - A website that allows anyone to add, delete, or revise content by using a web browser. Also called wiki engine,wiki application. the software used to create a wiki. adjective. of, relating to Wikipedia
* online social network - It is a Web site that encourages members in its online community to share their interests, Ideas, stories, photos, music, and videos with other registered users. •An online social network, also called a social networking Web Site. Some Online Social network Websites facebook.com ,twitter.com
* A blog - short for Weblog, is an informal Web site consisting of time-stamped articles, or posts, in a diary or journal format

A micro blog allows users to publish short messages, usually between 100 and 200 characters, for others to read. Twitter is a popular micro blog.

A blog that contains video clips is called a video blog or v-log building43.com and coachtvblog.com .

* A business/marketing Website - contains content that promotes or sells products or services . Nearly every enterprise has a business/marketing Web site.
* Personal website - A private individual or family not usually associated with any organization may maintain a personal Web site. People publish personal Web pages as they simply want to share life experiences with the world faizluckyshah.weebly.com.
* portal A website that provides a starting point or a gateway to other resources on the Internet is called portal. • Popular portals include AltaVista, AOL, GO.com, iGoogle, MSN, and Yahoo.

Yahoo The search engine that helps you find exactly what you're looking for live scores from Yahoo!. Complete sport coverage with football results, cricket scores The latest news and headlines from Yahoo! News. Get breaking news stories and in-depth coverage with videos and photos.

* A news Web site - contains news material including stories and articles relating to current events, life, money, sports, and the weather. News papers ,television and radio stations are some of the media that maintain news Web site.
* An advocacy Web site - contains content that describes a cause, opinion, or idea. These Web sites usually present views of a particular group or association Aspca.org .

Reference

Raphael Cohen-Almagor, University of Hull,UK Internet History,April-June 2011

History, <https://www.history.com/news/who-invented-the-internet>,Februayr 2020

<https://arxiv.org/html/cs/9901011>,Februayr 2020

<https://www.bbc.com/aboutthebbc/governance/mission>

<https://www.change.org/p/bbc-require-named-authors-on-bbc-news-website-articles>

<https://libguides.cmich.edu/web_research/examples>

<https://en.wikipedia.org/wiki/Wikipedia:Purpose>

<https://www.socialmediaexaminer.com/purpose-how-facebook-built-an-empire/>

<https://www.socialmediatoday.com/social-networks/8-reasons-why-your-facebook-ad-stats-may-not-be-accurate>

<https://www.hostgator.com/blog/popular-types-websites-create/>