

ADDIS ABABA UNIVERSITY

ADDIS ABABA INSTITUTE OF TECHNOLOGY

CENTER OF INFORMATION TECHNOLOGY AND SCIENTIFIC COMPUTING

**Assignment one**

**Title:- The Internet**

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# Introduction

This assignment has provided information starting from the background of the internet to the web sites that are favored by most people via the web archive and then to the different categories of websites that are described clearly. I have tried to give particular attention to the details of every aspect of each question and provide a suitable answer to all.Finally, I have concluded by listing out all the sources from which I managed to gather the data for this assignment.

# The History of the internet

# The Beginning

The internet stepped into the bigger stage through the work of different individuals and organizations. Most even argue that the internet is the single most powerful weapon to be created by the human beings. This invention has revolutionized our day to day lives everywhere. After computers became more popular, the need to communicate users over wide area networks was proposed by computer science studies. Continuous efforts to interconnect computer users forced the beginning of a whole new world called the internet. In the middle of the 1930s a man named H.G Wells predicted that there will some be a “World Brain” that can be accessible to anybody in any part of the world. Soon after that J C R Licklider stated that computers would become sufficiently capable of complex scientific and technical problems with a cooperation with humans. He was also the director at ARPANET (Advanced Research Project Agency Network) one of the leading companies in computer technology. This accumulation of different popular ideas towards creating a connection between computers developed the concept of “packet switching” a method that would later become one of the major building block of the internet. The first message was delivered on October 29,1969 by ARPANET. Although it crashed after delivering the first two letters of the full message, which was “LOGIN”, it was a big breakthrough. In order to send the message the ARPANET used a “node-to-node” communication from one computer located at UCLA and the other at Stanford;each with a size of a small house.

# From 1970s to 1980s

In 1971, the ARPANET added ALOHAnet, and years later it added London’s University College and the Royal Radar Establishment in Norway. As the networks multiplied, it become more difficult to integrate into single network using the old packet-switched computer networks.

The technology continued to grow in the 1970s after scientists Robert Kahn and Vinton Cerf developed Transmission Control Protocol and Internet Protocol, or TCP/IP, a communications model that set standards for how data could be transmitted between multiple networks.

ARPANET adopted TCP/IP on January 1, 1983, and from there researchers began to assemble the “network of networks” that became the modern Internet. Throughout the 1980s, scientists used it to send files and data from one computer to another.

# From 1990 to Present

Cerf’s protocol transformed the internet into a worldwide network. Throughout the 1980s, researchers and scientists used it to send files and data from one computer to another. However, in 1991 the internet changed again. That year, a computer programmer in Switzerland named Tim Berners-Lee introduced the World Wide Web: an internet that was not simply a way to send files from one place to another but was itself a “web” of information that anyone on the Internet could retrieve. Berners-Lee created the Internet that we know today.

While it’s often confused with the internet itself, the web is actually just the most common means of accessing data online in the form of websites and hyperlinks. In 1992, a sophisticated browser called Mosaic was developed by the University of Illinois. This browser offered a user-friendly interface to navigate across the web. Congress could benefit the commercial sector by providing variety services for consumers. Also, social networking sites recently has come into the big scenes to connect different types of people around the world.

# The Future

Over the last few decades, from the inaugural of the internet to now, the internet has enormously expanded both in quality and quantity. One of the leading ideas towards improving the service provided by the internet is that it needs to be upholding privacy of personal data and the power of the individual networks. Other is that it needs to be accessible, open and free to all as believed by Berners-Lee. And others believe that the internet must become faster and more pervasive. Generally, one thing we know for sure is that it will become more expansive and a force in many aspects of life.

# observation on 5 popular websites

## Instagram

It was firstly crawled by web archive in 2004. When it was officially launched in 2010, it looks very simple and plain. After three years, instagram has improved the user experience. It has enabled the user to edit profile account easily.In December 31,2016 crawl by web archive, it integrated the chatting content to its site. Most recently it has improved its picture quality and attracted users with a good layout website.

## Bloomberg

This popular news website came into the scene in the year 1996. Its first broadcast was about marketing and business news. A decade later, the site has improved in content. In 2016, the site has developed immensely and expanded its accessibility. On recent crawl taken by the web archive, the site has included different collection of information and links.

## Wikipedia

In 2001, it contains over 19000 articles and was aimed at over 100,000 articles in order to a complete encyclopedia from scratch. After years have passed the wikipedia site has enlarged itself and created the wikitravel, wikibook and other similar sites. It also included different languages. Currently, it is one of the most popular sites.

## Yahoo

In the middle of the 1990s, yahoo firstly launched its site. The site was easy and informative. In 2005, it enclosed messaging, shopping and other different services were provided. In recent years the website has to become one of the leading websites of our generation.

# 12 CATEGORIES OF WEBSITES VIEWED THROUGH DIFFERENT WEB ARCHIVES

## News

* NewYorkTimes(NYT)..…[https://web.archive.org/web/20200301000000\*/www.newyorktimes.com](https://web.archive.org/web/20200301000000*/www.newyorktimes.com)
* HuffingtonPost…[https://web.archive.org/web/\*/www.huffingtonpost.com.au](https://web.archive.org/web/*/www.huffingtonpost.com.au)
* Al jazeera……. [https://web.archive.org/web/\*/english.aljazeera.net](https://web.archive.org/web/*/english.aljazeera.net)
* NBC News…[https://web.archive.org/web/\*/nbcnews.com](https://web.archive.org/web/*/nbcnews.com)
* Fox News….[https://web.archive.org/web/20180301000000\*/www.foxnews.com](https://web.archive.org/web/20180301000000*/www.foxnews.com)

## Entertainment

* YouTube…..[https://web.archive.org/web/20180301000000\*/www.you tube.com](https://web.archive.org/web/20180301000000*/www.you tube.com)
* Netflix…..[https://web.archive.org/web/20180301000000\*/netflix.com](https://web.archive.org/web/20180301000000*/netflix.com)
* Vimeo..[https://web.archive.org/web/20180301000000\*/www.vimeo.com](https://web.archive.org/web/20180301000000*/www.vimeo.com)
* Spotify…..[https://web.archive.org/web/20180301000000\*/www.spotify.com](https://web.archive.org/web/20180301000000*/www.spotify.com)
* FoodNetwork….[https://web.archive.org/web/20180301000000\*/www.foodnetwork.com](https://web.archive.org/web/20180301000000*/www.foodnetwork.com)

## Educational

* KhanAcademy….[https://web.archive.org/web/20180301000000\*/khanacademy.com](https://web.archive.org/web/20180301000000*/khanacademy.com)
* Bigthink…[https://web.archive.org/web/20180301000000\*/www.bigthink.com](https://web.archive.org/web/20180301000000*/www.bigthink.com)
* Thefutureschannel…….[https://web.archive.org/web/20180301000000\*/thefutureschannel.com](https://web.archive.org/web/20180301000000*/thefutureschannel.com)
* Brightstorm…[https://web.archive.org/web/20180301000000\*/www.brightstorm.com](https://web.archive.org/web/20180301000000*/www.brightstorm.com)
* Edx…[https://web.archive.org/web/20180301000000\*/www.edx.com](https://web.archive.org/web/20180301000000*/www.edx.com)

## Business/Marketing

* Fortune….[https://web.archive.org/web/20180301000000\*/www.fortune.com](https://web.archive.org/web/20180301000000*/www.fortune.com)
* EventMarketer…..[https://web.archive.org/web/20180301000000\*/www.eventmarketer.com](https://web.archive.org/web/20180301000000*/www.eventmarketer.com)
* SocialNomics….[https://web.archive.org/web/20180301000000\*/www.socialnomics.net](https://web.archive.org/web/20180301000000*/www.socialnomics.net)
* ClickZ….[https://web.archive.org/web/20180301000000\*/www.clickz.com](https://web.archive.org/web/20180301000000*/www.clickz.com)
* AdAge……[https://web.archive.org/web/20180301000000\*/www.adage.com](https://web.archive.org/web/20180301000000*/www.clickz.com)

## Social Network

* Facebook…….[https://web.archive.org/web/20180301000000\*/facebook.com](https://web.archive.org/web/20180301000000*/facebook.com)
* Instagram…..[https://web.archive.org/web/20180301000000\*/www.instagram.com](https://web.archive.org/web/20180301000000*/www.instagram.com)
* Whatsapp…..[https://web.archive.org/web/20180301000000\*/www.whatsapp.com](https://web.archive.org/web/20180301000000*/www.whatsapp.com)
* Twitter…..[https://web.archive.org/web/20180301000000\*/twitter.com](https://web.archive.org/web/20180301000000*/twitter.com)
* Snapchat….[https://web.archive.org/web/20180301000000\*/www.snapchat.com](https://web.archive.org/web/20180301000000*/www.snapchat.com)

## Blog

* Tumblr…..[https://web.archive.org/web/20180301000000\*/www.tumblr.com](https://web.archive.org/web/20180301000000*/www.tumblr.com)
* Wordpress….[https://web.archive.org/web/20180301000000\*/wordpress.com](https://web.archive.org/web/20180301000000*/wordpress.com)
* Wix…..[https://web.archive.org/web/20200301000000\*/www.wix.com](https://web.archive.org/web/20200301000000*/www.wix.com)
* Weebly….[https://web.archive.org/web/20200301000000\*/weebly.com](https://web.archive.org/web/20200301000000*/weebly.com)
* Blogger….[https://web.archive.org/web/20200301000000\*/www.blogger.com](https://web.archive.org/web/20200301000000*/www.blogger.com)

## Advocacy

* Greenpeace….[https://web.archive.org/web/20200301000000\*/www.greenpeace.org](https://web.archive.org/web/20200301000000*/www.greenpeace.org)
* AmnestyInternational….[https://web.archive.org/web/20200301000000\*/www.amnesty.org](https://web.archive.org/web/20200301000000*/www.amnesty.org)
* Childeren’sDefenseFund…[https://web.archive.org/web/20200301000000\*/www.childrensdefense.org](https://web.archive.org/web/20200301000000*/www.childrensdefense.org)
* WorldWildlifeFund….[https://web.archive.org/web/20200301000000\*/www.panda.org](https://web.archive.org/web/20200301000000*/www.panda.org)
* NatureConservancy…[https://web.archive.org/web/20200301000000\*/www.nature.org](https://web.archive.org/web/20200301000000*/www.nature.org)

## Wiki

* Wikihow...[https://web.archive.org/web/20200301000000\*/www.wikihow.com](https://web.archive.org/web/20200301000000*/www.wikihow.com)
* Gamepedia……[https://web.archive.org/web/20200301000000\*/gamepedia.com](https://web.archive.org/web/20200301000000*/gamepedia.com)
* Wordreference…[https://web.archive.org/web/20200301000000\*/www.wordreference.com](https://web.archive.org/web/20200301000000*/www.wordreference.com)
* Wikibooks.…[https://web.archive.org/web/20200301000000\*/wikibooks.com](https://web.archive.org/web/20200301000000*/wikibooks.com)
* Wikitravel….[https://web.archive.org/web/20200301000000\*/wiki.travel.com](https://web.archive.org/web/20200301000000*/wiki.travel.com)

## Content Aggregator

* Reddit…[https://web.archive.org/web/\*/www.reddit.com](https://web.archive.org/web/*/www.reddit.com)
* Popurls…[https://web.archive.org/web/\*/www.popurls.com](https://web.archive.org/web/*/www.popurls.com)
* Feedly…[https://web.archive.org/web/\*/www.feedly.com](https://web.archive.org/web/*/www.feedly.com)
* Fark…[https://web.archive.org/web/\*/www.fark.com](https://web.archive.org/web/*/www.fark.com)
* Inbound…[https://web.archive.org/web/2019\*/www.inbound.com](https://web.archive.org/web/2019*/www.inbound.com)

## Informational

* Freshbooks…[https://web.archive.org/web/2019\*/www.freshbooks.com](https://web.archive.org/web/2019*/www.freshbooks.com)
* Airbnb…[https://web.archive.org/web/2019\*/www.airbnb.com](https://web.archive.org/web/2019*/www.airbnb.com)
* Mint…[https://web.archive.org/web/2019\*/www.mint.com](https://web.archive.org/web/2019*/www.mint.com)
* Dropbox…[https://web.archive.org/web/2019\*/www.dropbox.com](https://web.archive.org/web/2019*/www.dropbox.com)
* Polygon…[https://web.archive.org/web/2019\*/www.polygon.com](https://web.archive.org/web/2019*/www.polygon.com)

## Personal

* NiaShanks…[https://web.archive.org/web/2019\*/www.niashanks.com](https://web.archive.org/web/2019*/www.niashanks.com)
* SimonSinek…[https://web.archive.org/web/2019\*/simonsinek.com](https://web.archive.org/web/2019*/simonsinek.com)
* TimHarford….[https://web.archive.org/web/2019\*/www.timharford.com](https://web.archive.org/web/2019*/www.timharford.com)
* SethGodin….[https://web.archive.org/web/2019\*/www.sethgodin.com](https://web.archive.org/web/2019*/www.sethgodin.com)
* JoeMcnally….[https://web.archive.org/web/2019\*/www.joemcnally.com](https://web.archive.org/web/2019*/www.joemcnally.com)

## Portal

* AddisAbabaUniversity….[https://web.archive.org/web/2019\*/portal.aait.edu.et](https://web.archive.org/web/2019*/portal.aait.edu.et)
* Santander….[https://web.archive.org/web/20200301000000\*/www.santander.pt](https://web.archive.org/web/20200301000000*/www.santander.pt)
* qq.com….[https://web.archive.org/web/20200301000000\*/qq.com](https://web.archive.org/web/20200301000000*/qq.com)
* FederalGovernmentPortal…[https://web.archive.org/web/20200301000000\*/www.grants.gov](https://web.archive.org/web/20200301000000*/www.grants.gov)
* Allianz…[https://web.archive.org/web/20200301000000\*/www.allianz.pt](https://web.archive.org/web/20200301000000*/www.allianz.pt)

As we have seen so far most users visit the sites in the news, entertainment, social network and business/marketing categories. Most of the sites we named above are on top of their respective class.

# Guidelines for evaluating a website

## 6 Criteria for Websites

These six criteria deal with the content of Web sites rather than the graphics

or site design. Apply these criteria when you research on the internet.

1.AUTHORITY

* Who developed the site
* Contact information
* Credentials
* Is the site supported by an organization

1. PURPOSE

* Is the site persuasive, entertaining, state an opinion or parody something or someone
* Does the content support the purpose of the site
* Is the information aimed at a specific group of audience
* Does the site evaluate the links

1. COVERAGE

* Is the site selective or comprehensive
* Compare the value of the site’s information compared to other similar sites
* Does the site provide information with no relevant outside links

1. CURRENCY

* Is the site updated or maintained
* Has the site been under construction for some time
* Are the links provided up to date

1. OBJECTIVITY

* Does the site present information with a minimum of bias
* Does the site advertising conflict with the content
* Is the site trying to persuade the audience

1. ACCURACY

* Reliability
* References
* Is the information comparable to other sites on the same topic

# Amazon

# Authority

Amazon is one of the biggest e-commerce companies that was founded by the Jeff Bezos in July 1994. He choose Seattle because Microsoft was located there. The company officially went public on May 1997. It is mostly handy for the elite team to use the email address [jeff@amazon.com](mailto:jeff@amazon.com) his public email. The phone number for contacting is provided as follows 1-800-372-8066. You can contact amazon via their fax number 206-266-1838. The site is supported by the American multinational technology company called Amazon.com,Inc.

Purpose

The purpose of the site is aimed at start ups, enterprises and government agencies. Also buyers and sellers of goods are customers of amazon. Amazon is a fully functional and properly organized website. The links that are used inside the website are appropriate and easily accessible.

Coverage

The site provides a comprehensive approach of coverage.The topics are explored pretty well. In comparison with similar e-commerce sites like Alibaba, it looks similar in many aspects. Most of the links don't go outside of the

website itself.

Currency

Amazon first began as online book store in July 1995. Since then it has been updated throughout the years to become one of the leading e-commerce websites.

Objectivity

The information provided in these types of commercial websites are mostly very reliable because they need to attract customers. Audiences are attracted easily through the visuals and the price tags of the goods. Because the site is commercial site it is definitely trying to persuade the buyers to buy.

Accuracy

The website is very reliable as it is affiliated with one of the biggest companies in the world. Reliability is also a key part of the site. When comparing to other e-commerce sites, it is parallel.

# Facebook

Authority

Facebook was firstly co-founded by an American internet entrepreneur and philanthropist Mark Zuckerberg. The site is support by one of the biggest social media companies Facebook,Inc. There are different contact information from different sources but to name some Facebook customer care helpline is +1-866-216-7161 and 650-543-4800.

PURPOSE

The site is very much attractive and entertaining with so much content in one place. The most amazing thing towards this site is that it is not created for a specific group of people. It connects variety of cultures and peoples around the world.

CURRENCY

The site is upgraded most of the time. Due to security concerns over the years the site has been under scrutiny. The site tries to improve the users experience by upgrading the site.

OBJECTIVITY

The site has many problems in this area. Minimizing biased information has been the failure of the site overall. The site needs to have more control over fake and false information from spreading.

ACCURACY

Also another problem is that the site does not provide reliable information. References to different biased information are not known. In comparison with similar other social media sites it is more or less the same but more valuable to false and biased information.

# Reference

* <https://web.archive.org/>…………………………… Web archive
* <https://www.forbes.com/>………………………….. Forbes
* <https://www.nap.edu/>……………………………… The national academic press
* <https://www.wikipedia.org/>……………………….. Wikipedia
* <https://www.webhostface.com/>………………….. Web host face
* <https://www.liferay.com/>………………………….. Liferay