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**ADDIS ABABA INSTITUTE OF TECHNOLOGY**

**CENTER OF INFORMATION TECHNOLOGY AND SCIENTIFIC COMPUTING**

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Introduction to web and WWW

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Contents

[**The History of internet.** 1](#_Toc34374694)

[What is internet? 1](#_Toc34374695)

[The evolution of internet. 1](#_Toc34374696)

[**Popular websites observation and assessment** 2](#_Toc34374697)

[1) Google 2](#_Toc34374698)

[2) YouTube: 3](#_Toc34374699)

[3) Addis Ababa university 5](#_Toc34374700)

[4) Massachusetts institute of technology 5](#_Toc34374701)

[5) Twitter: 5](#_Toc34374702)

[**Categories of websites** 7](#_Toc34374703)

[Advocacy Websites. 7](#_Toc34374704)

[Portal websites. 7](#_Toc34374705)

[News: 7](#_Toc34374706)

[Business/marketing websites 8](#_Toc34374707)

[Social Network 8](#_Toc34374708)

[Wiki 8](#_Toc34374709)

[Content aggregator: 9](#_Toc34374710)

[Informational website 9](#_Toc34374711)

[Entertainment website 9](#_Toc34374712)

[Educational 10](#_Toc34374713)

[Personal websites 10](#_Toc34374714)

[**Guidelines for Evaluating Web Sites** 11](#_Toc34374715)

[Objectivity. 11](#_Toc34374716)

[Technical considerations. 11](#_Toc34374717)

[Content 11](#_Toc34374718)

[Authority 12](#_Toc34374719)

[Accuracy 12](#_Toc34374720)

[**Judgment of websites using guidelines** 13](#_Toc34374721)

[University of advanced Technology 13](#_Toc34374722)

[Google: 14](#_Toc34374723)

[Netflix: 16](#_Toc34374724)

[**References** 1](#_Toc34374725)

List of figures

[Figure 1 google in 1996 3](#_Toc34375146)

[Figure 2 YouTube in July 2005 4](#_Toc34375147)

# **The History of internet.**

## What is internet?

The internet is a network of computers or we can say network of networks linking many different types of computers all over the world. Or we can define internet as a global computer network providing a variety of information and communication facilities, consisting of interconnected networks using standardized communication protocols.

## The evolution of internet.

The internet was first introduced the US Army in the Pentagon's Defense Department of America. During the Cold War, it was essential to have communication links between military and university computers that would not be disrupted by bombs or enemy attacks. In order to solve the problem, in 1968 (about) DARPA (Defense Advanced Research Projects Agency) made contracts with BBN (Bolt, Bernanke and Newman) to create ARPANET (Advanced Research Projects Agency Network). Then ARPAnet became the first networking project which was use in war for transforming confidential instruction.

Bob Kahn came over to ARPA from BBN in 1972. He started working on expanding Arpanet’s capabilities for the military, thinking about wireless networking via. packet radio, and networking via. satellite. He tried to think about how the network’s protocol should be expanded from an engineering perspective, to accommodate the other uses he was thinking about (wireless and satellite, and any others that hadn’t been thought about yet).

ARPAnet used the ARPA network. The ARPA network originally used NCP (Network Control Protocol), but as time progressed, the ARPA network adapted a new protocol called TCP/IP (Transmission Control Protocol/ Internet Protocol) in the year 1983. Three working groups were set up to create the first TCP/IP implementations. These implementations were completed in 1975. Then one of the most important events that happened in the 1990s was the invention of the World Wide Web (WWW). The first Web was started in November 1990 by Tim Berners-Lee at CERN. With the start of WWW and browsers start to surf the Internet.

2.View the 5 – 10 popular websites of your choice from web archive URL and put your observation and assessment

# **Popular websites observation and assessment**

Web design has come a long way since the days of plain white pages and lists of blue links. In the last twenty years, it has evolved in ways most people who were around during the infancy of the World Wide Web could have never imagined. I am presenting an overview of some websites by dividing at the start, some years later and at present.

## Google

Google has its origin in 1996 by Larry Page and Sergey Brine. as it created it contain like as seen in figure 1.

* Poor or dated visual design,
* Low standard of written content,
* Hidden details or no obvious point of contact. But later modifications are added to the website and it became good compared to the first one.

When we some years later in 2006 it avoids some of the problems which are found in google. But at this time also it has some lacks and problems. As HTML5 and CSS3 have advanced components but they are not developed at that time.

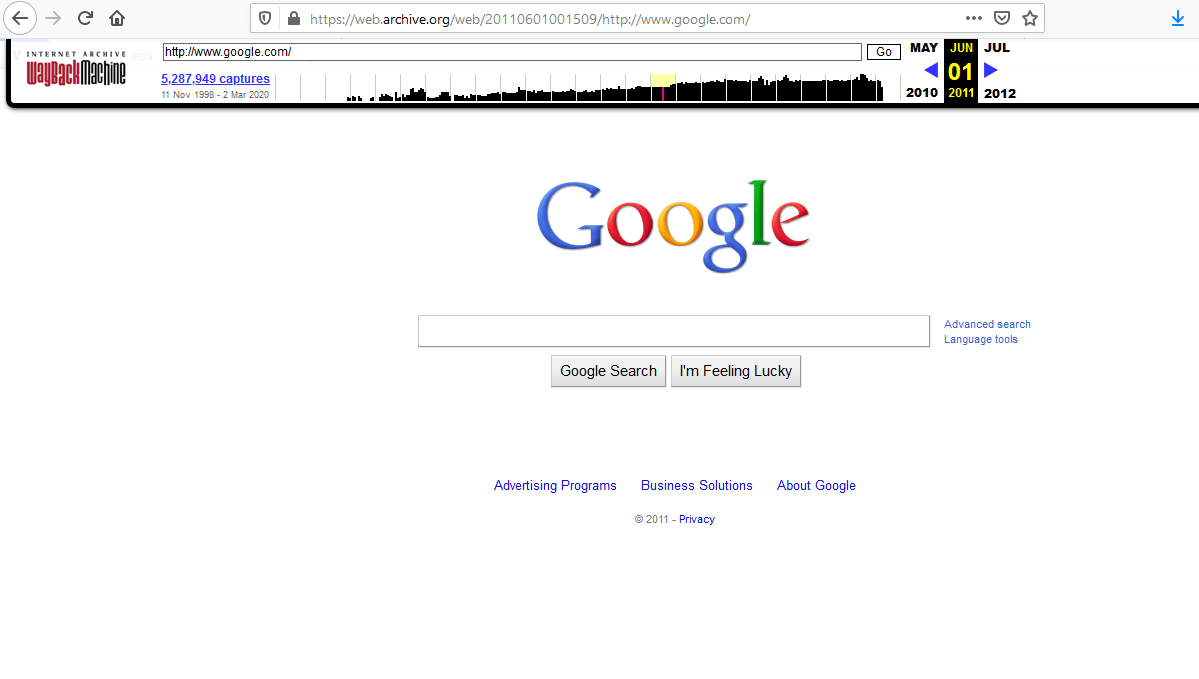


Figure 1 google in 1996

Nowadays google has become more advanced using Further innovations in technologies like HTML5, CSS3, and JavaScript have enabled and it became more advanced and complex website than before further emphasized by the addition of mobile and apps.

## YouTube:

* YouTube was first introduced in 2005.
* At that time YouTube was
* As it introduced in to the web it is not interesting and attractive because at that time most advanced forms of html and css are not take place.
* It contains html and css
* Basic JavaScript
* It has flash player

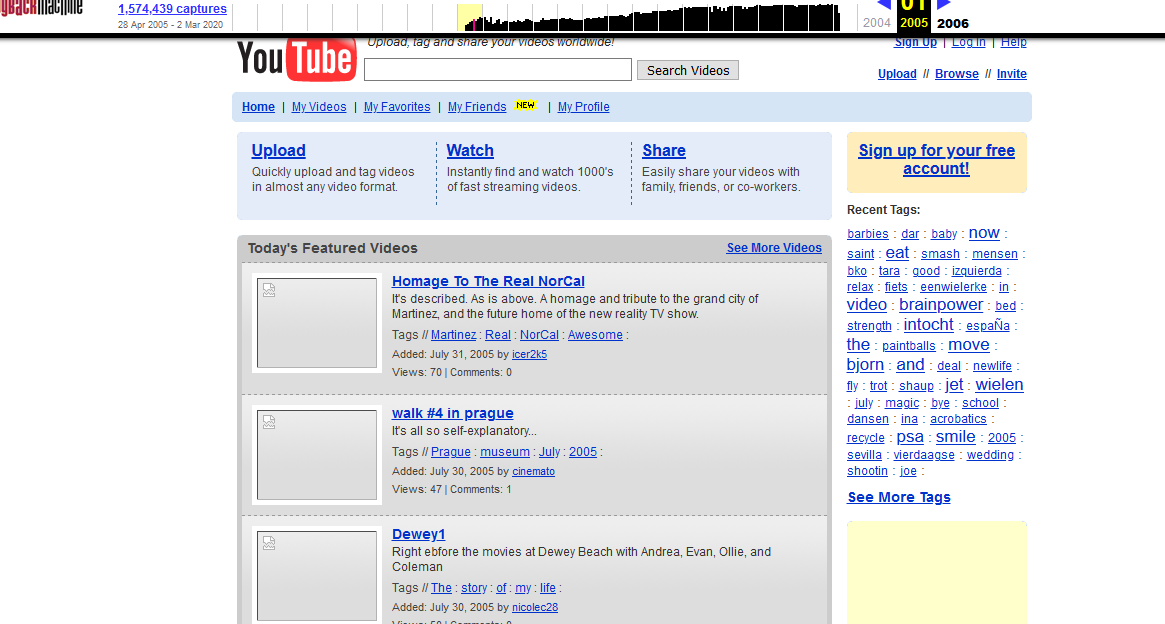


Figure 2 YouTube in July 2005

But as draw back as we see in the above image it seems totally different from the present YouTube website. It lacks organization and beauty. The contents are compacted.

If we see after 10 years in 2015:

* it gets some modifications and it seems more attractive and organized.
* It has best JavaScript usage and also web 2.0 come in to practice,
* While the term “web 2.0” might be unclear, it may be used to refer to the growth of multimedia applications, interactive content, and the introduction of social media platforms. All of these features started to gain prominence from around 2005 and onwards, and marked the definitive death of Flash.

But know YouTube has become one of the most used website in the world. Further innovations in technologies like HTML5, CSS3, and JavaScript have enabled YouTube to become more advanced and complex website than before.

1. Addis Ababa university [https://www.aau.edu.et](https://www.aau.edu.et/)

In 2002 the website looks like:

* it is made from CSS HTML and JavaScript
* it has comment provider it accepts comments from the students
* it has good organization

In 2009

* it seems improved than the past few years
* it contains links which fulfills all link properties link, hover, active, and visited that means it have good CSS usage.
* The home page contains more components than before
* it has articles and place for announcements.
* It has footer and clock in the top right corner.
* Authority is clearly defined.

In 2020

* it contains animations and hover photos
* it contains advertisements
* it contains drop down navigation
* searching box is added to the files.
* New coming announcements and advertisements have special code that means it have red animation which indicates it is new.

1. Massachusetts institute of technology https://web.mit.edu/

In 2002 the website looks like

* it seems it was made from the CSS HTML and java script.
* It contains searching material and we can simply search anything which found in the website.
* It contains footer and authorization

In 2010 the website looks like:

* it has navigation and header
* it contains searcher/finder
* it contains aside which contains advertisements and announcements
* it has good organization and placement

In 2020 MIT having the following improvements:

* the searching box is more improved and it animated words which indicates the customer what to search.
* It is simplified
* it contains images which is clickable.

1. Twitter: htttps://www.twitter.com

Twitter in 2001 it looks like:

* the navigation is at the bottom
* it seems it uses best java-script because it has even choices e.g. forget password
* it has authority.

Twitter in 2020

* it gives choice from the two sign in and login it does not give direct go to login form like as the 2001.
* it is organized and it contains very interesting and attractive homepage.
* It is not made using tables it is made using sections and div
* it is the best social media know in the world

## 

3) List 5 website each on the 12 categories you learned

* + Try to view their look in different years’ web archives

# **Categories of websites**

## Advocacy Websites.

* it is to promote or reinforce a change in policy, program or legislation
* MoveOn.Org [http://www.moveon.org](http://www.moveon.org/)/
* Security on Campus <http://www.campussafety.org/>
* World Wildlife Fund <http://www.panda.org/>
* Stand for Children <http://www.stand.org/>
* Freedom Forum <http://www.freedomforum.org/>

## Portal websites.

* A web portal is a specially designed website that brings information from diverse sources, like emails, online forums and search engines, together in a uniform way
* disability.org <http://www.disability.org/>
* india.gov.im https://www.india.gov.im/
* Addis Ababa university https:// www.aau.edu.et
* national resource directory https://nrd.gov/
* australia.gov.au https://www.australia.gov.au/

## News:

* News website is the site either governmental or personal which gives information about what happened in the world. There are many news websites like CNN, BBC etc.
* CNN <https://edition.cnn.com/>
* BBC <https://www.bbc.com/>
* New York Times <https://www.nytimes.com/>
* Daily Sun <https://www.dailysun.co.za/>
* Fox News <https://www.foxnews.com/>

## Business/marketing websites

* Is used to promote a productions and hopefully get more traffic to a website. Web marketing is the process of using the Internet to market your business.
* Alexander real estate https://www.alexanderealestate.com/
* Anderson Wise Architects <https://www.anderssonwise.com/>
* Gumption <https://www.shopgumption.com/>
* Gogoro <https://www.gogoro.com/>
* World Financial Group <http://worldfinancialgroup.com/>

## Social Network

* Social media refers to websites and applications that are designed to allow people to share content quickly, efficiently, and in real-time. Shared files may be photos, opinions, events, etc. in real-time has transformed the way we live and, also, the way we do business.
* Facebook <https://www.facebook.com/>
* Telegram https://www.telegram.com/
* Twitter https://www.Twitter.com/
* Instagram https://www.Instagram.com/
* WhatsApp <https://www.whatsap.com/>

## Wiki

* A wiki is a knowledge base website on which users collaboratively modify and structure content directly from a web browser. In a typical wiki, text is written using a simplified markup language and often edited with the help of a rich-text editor.
* Gamepedia https://www.gamepedia.com/
* Wikipedia https://www.wikipedia.org/
* Wikitionary https://www.wiktionary.org/
* Conservapedia https://www.conservapedia.com/
* Ethiopia Wikipedia encyclopedia http://en.wikipedia.org/wiki/Ethiopia

## Content aggregator:

* Websites that are certainly something that we have run into at least a few times in our life on the web. But when it comes time to think about examples of content aggregator websites, our mind might be going blank.
* Popurls <http://m.popurls.com/>
* WP news Desk <http://wpnewsdesk.com/>
* Freedly <https://feedly.com/>
* Pocket <https://getpocket.com/>
* Blog Engage <http://www.blogengage.com/>

## Informational website

* Informational websites are those sites that are created in order to provide a customized and branded resource for potential and active customers, members, investors and so forth. These websites are usually content and design-driven. A great informational website can act as an excellent sales tool for the company.
* Mentalfloss.com https://www.mentalfloss.com/
* Mashable https://mashable.com/
* Trip Advisor https://www.trip.com
* Cisco https://www.cisco.com
* MIT course ware https://ocw.mit.edu/courses/

## Entertainment website

This is the website which entertain the people by giving recreational information like music, movie or any more.

#### Netflix <https://www.netflix.com/>

#### Bare Feet <https://www.travelbarefeet.com/>

#### Tobias Mein hart <https://tobiasmeinhart.com/>

#### Vinegar Hill <https://vinegarhill.co.uk/>

* Vineyard Music and Events [*https://www.vineyardworship.com/*](https://www.vineyardworship.com/)

## Educational

* It is the site which educates the people. It is sometimes the one which gives online courses and gives certificate.
* Coursera <https://online-learning.harvard.edu/>
* Big Think <https://bigthink.com/>
* Khan academy <https://www.khanacademy.org/>
* CISCO <https://www.cisco.com/>
* Academia <https://www.academia.edu/>

Blog

* A blog is an online journal or informational website displaying information in the reverse chronological order, with the latest posts appearing first. It is a platform where a writer or even a group of writers share their views on an individual subject**.**
* Microsoft Stories. <https://news.microsoft.com/stories/>
* The Good Trade <https://www.thegoodtrade.com/>
* Hooping heels <http://hoppingheels.com/index.html>
* Sincerely Jules <https://sincerelyjules.com/>
* Fubuzi media <http://www.fubiz.net/en/>

## Personal websites

* Personal web pages are world wide web pages created by an individual to contain content of a personal nature rather than content pertaining to a company**.**
* Charlie waite http://www.charliewaite.me/
* [Joshua McCartney](https://www.joshuamccartney.com/) [Joshua McCartney](https://www.joshuamccartney.com/)
* [Josh James](http://www.joshjames.com/) [http://joshjames.com/](https://web.archive.org/web/2/http:/joshjames.com/)
* Teddy afro http://www.teddyafro.com

4) What are the guidelines for evaluating the value of a Web site? Try to evaluate 2-5 websites based on the guideline and put your judgment.

# **Guidelines for Evaluating Web Sites**

## Objectivity.

Objectivity of the site means the website should be clear. sites that contain bias or do not admit its bias freely are not consistent websites. Objective sites present information with a minimum of bias. For example, for Evaluating a marketing or business web site for objectivity we can ask questions like Does the website advertising conflicts with the content? Or Is the site trying to explain, inform, persuade, or sell something?

## Technical considerations.

For technical considerations we can verify that the Web site's important capabilities, such as graphics or animations critical to the subject matter, can be utilized with the technology we have available. The page should be stable, that is, consistently available. All the links and special features such as audios must be functioning. If there is a fee for using the site, the site should provide a secure way to send payment.

## Content

A site's content should be comprehensible, appropriate, and of value to the intended audience. Awards won by a site may suggest quality but may also be little more than advertising banners for the issuing agencies. There should be enough information to make visiting the site worthwhile. Information on how often the site is visited may indicate its usefulness. That means the site must be logical. And it mustn’t promote social bias.

If there are large amounts of information on the site, there should at least be a site map or outline of topics that allows users to find topics and move among them easily. A search function for locating information within the site would also be useful. The information should be accurate and updated.

## Authority

Authority reveals that the person, institution or agency responsible for a site has the qualifications and knowledge to do so. For evaluating a web site for authority means that a website:

* Contact information should be clearly provided: e-mail address, phone number, and fax number
* should be clear who developed the site.
* Credentials that the author should state the qualifications, credentials or personal background that gives them authority to present information.
* Should be Checked by any user to see if the site supported by an organization or a commercial body

## Accuracy

There are few standards to verify the accuracy of information on the web. It is the responsibility of the reader to assess the information presented. Evaluating a web site for accuracy we can see by asking the following criteria’s.

1. References: do statistics and other factual information receive proper references as to their origin?
2. Does the reading you have already done on the subject make the information seem accurate?
3. Is the information comparable to other sites on the same topic?
4. Does the text follow basic rules of grammar, spelling and composition?
5. Is a bibliography or reference list included? And many more other questions can be asked to see the websites accuracy is correct or not.

# **Judgment of websites using guidelines**

University of advanced Technology <https://www.uat.edu/>

I am going to judge this website based on the guidelines which I listed above.

1) Technical considerations

In this Web site important capabilities, such as graphics or animations critical to the subject matter, can’t utilized with the technology we have available today. For example, in the home page it has not secure.

2) content:

The sites content is not clear. It is university site but it almost only talks about the students which graduates from the university

know a day’s most people hear Advancing and Technology together, but here we expect a website that will inspire us. this inspired fear thinking about the graduates that will be produced from the University. we can hardly find any information we are looking for and do not be surprised if the home page takes about 5 seconds to start loading.

Authority;

* It is clear who developed the site
* Contact information is clearly provided: e-mail address, snail mail address
* phone number, and fax number
* the site supported by an organization
* Credentials are not clearly provided this is the only draw back

accuracy:

* it is Reliable: the author affiliated with a known, respectable institution but not clearly define about the institution
* the developer of the site does statistics and other factual information receive proper references as to their origin.
* The information seems accurate
* the text didn't follow basic rules of grammar, spelling and composition it has some errors
* a bibliography or reference list included.

As we see in the above using guidelines it is not good website it must undergone some modification and improvement.

Google: <https://www.google.com>

Objectivity:

* in the google website the information is presented with a particular bias that is searching.

The site has no advertising conflict with the content

* the site is simple and every one can search easily.
* Links lead to so many levels that it is difficult for users to get back to the page they started from.

Technical consideration

* All the links and special features such as audios are all functioning; it is disconcerting. There is no error message happened.
* It has no video search and photo search that means we can't search by inserting images and video.

Authority:

* it is authorized by google. So all information is provided well.

Accuracy:

* it is accurate.

Conclusion:

* So as we see in the above google almost satisfy all guidelines for evaluating websites. So I said google as best website.

Netflix: https://www.netflix.com/et/

It is entertainment website.

Accuracy:

* References: do statistics and other factual information receive proper references as to

their origin all references are put In the about page.

* When I read I have already done on the subject which make the information seem accurate and I had been using since a year ago.
* The information is comparable with other sites with the same content so I saw it is correct and reliable.
* The text follows basic rules of grammar, spelling and composition but at some places it has some alphabetical error and also reference list included.
* It satisfies accuracy in my view

Technical consideration:

* There is enough information to make visiting the site worthwhile. Information on how often the site is visited indicates its usefulness.
* It contains best graphical and animation critical to the subject matter but structural it contains some lacks like if the search box has border radius it becomes very attractive.
* The page is consistent it consistently available that is why most people including me used the site.

Purpose:

* Netflix’s purpose is clear, and its content’s reflect that purpose, it is entertaining the people by accessing the Hollywood and Bollywood movies to all access them in time freely.
* Advertising should not overshadow the content. So its purpose is clearly defined.

Conclusion:

* We can say this website as good entertainment website.

# 

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