



ADDIS ABABA UNIVERSITY

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History of the Internet

What is Internet?

The internet is a globally connected network system that uses TCP/IP to transmit data. It's a network of global exchanges connected by guided, wireless and fiber-optic technologies. Its primary purpose is to give a global access to a data and it's extremely efficient in delivering impersonal data. Communication, Socialization, and finding information are one of the main purposes of the internet. Although the terms Internet and World Wide Web are often used interchangeably, it is not synonym with the web. Internet is the whole system including hardware and infrastructure, while the web is a service of communication held over the internet.

History of the Internet

The internet, the most revolutionary invention when it comes to computer and communication. It is a very wide information infrastructure. Although people like J.C.R Licklider of MIT has envisioned a globally interconnected set of computers through which everyone could get a quick access of data and programs from any site in 1962, it was made back in 1969 by a research network called Advanced Research Project Agency Network (ARPANET). This network has expanded beyond the United States to every corner of the world as it grew to the Internet and it was on the idea of connecting multiple independent networks rather arbitrary design. ARPANET was a pioneer packet switching network which then transformed to held packet satellite networks, ground-based packet radio networks and other networks. The now internet has an open architecture networking which means that any individual network technology is not dictated by a particular network architecture.

The idea of open-architecture was first introduced by Khan in 1972. It was originally part of packet radio program but it become a separate program and called "Interneting".

Kahn first contemplated developing a protocol local only to the packet radio network since that would avoid having to deal with the multitude of different operation systems and continuing to

use NetWare Core Protocol (NCP), which is the file-sharing protocol between server and clients on a Novell NetWare network. NCP relied on ARPANET to provide end-to-end reliability. And it works by sending message to neighboring IMP, then the IMP would break the message into packets and send to IMP which is in nearest destination of HOST then reassemble the packets then pass to destination HOST. So if any packet were lost, the protocol will crush and NCP doesn't have the ability to address networks further than a destination IMP on the ARPANET and some changes was required. For this reason Kahn decided to develop a new version of the protocol which could meet the needs of an open-architecture network environment called Transmission Control Protocol/Internet Protocol (TCP/IP).

Four ground rules were critical:

- If packets didn't make it to final destination, they will be retransmitted from the source, so they would be effort basis.
- There will be no global control at the operations level.
- Black boxes (later called gateways and routers) would be used to connect networks.
- Each distinct network would have to stand on its own and it should connect to the internet without requiring changes.

Kahn begun to work on communication-oriented set of operating system principles while at BBN and documented his early thoughts in internal BBN memorandum by the tile "Communication Principles for Operating Systems". And he realized he should learn the implementation details of each Operating Systems. So after starting the internetting in 1973, he asked Vint Cerf, who already has knowledge on interfacing to existing operating systems, to work with him.

The original Cerf/Kahn paper on the internet described one protocol, called TCP, which provided all the transport and forwarding services in the internet. But Kahn recognized that some of the early work on advanced network applications, in particular packet voice in 1970's, made clear that in some cases packet losses should not be corrected by TCP, and left to the application to deal with. This led to creating a new protocol called IP which is provided only for addressing and forwarding of individual packets, and the separate TCP, which was concerned with service features such as flow control and recovery from lost packets.

The early implementation of TCP was done for large time sharing systems such as Tenex and TOPS20. When desktop computers first appeared, it was thought by some that TCP was too big and complex to run on personal computers. But David Clark and his research group at MIT showed that a simple implementation of TCP was possible.

The increase in size of the internet challenged the capabilities of the routers. Originally, there was a single distributed algorithm that was implemented uniformly by all the routers in the internet. As the number of networks in the internet exploded, the initial design could not expand as necessary, so it was replaced by hierarchical model of routing, with an Interior Gateway Protocol (IGP) used inside each region of the internet, and Exterior Gateway Protocol (EGP) used to tie the regions together.

Who owns Internet?

No government can lay claim to owning the Internet, nor can any company. There are organizations that determine the internet's structure and how it works, but doesn't have any ownership.

The Internet is like the telephone system, no one owns the whole thing. From another point of view, thousands of people and organizations own the Internet. It consists of lots of different bits and pieces, each of which has an owner.

Observation and assessment on websites.

I have chosen 5 of my best websites to observe and evaluate.

British Broadcasting Corporation

The first one is British Broadcasting Corporation, www.bbc.com. BBC News is an operational business division of the British Broadcasting Corporation responsible for the gathering and broadcasting of news and current affairs.

I start evaluating their website of year 2009, the year in which I found amazing because it was unexpected that such a big news company made a snap to their website only 16 times and in fact in March, April, May, November and December there have been no snap at all. Their snap shows that they were poor at handling the website that even their news headlines could last for many days. In October 2010, they seem to be started caring for their website and snaps started to be made more often and in November 2010 there were 25 snaps throughout the month which has shown to be greater than they have made in 2009 the whole year. And the structure is similar I only have noticed that they have deleted three buttons at the top including the button which allows users to add something to the page if they want.

Now let's see what happened in 2011, this is the year they have grown a lot. To see an example in the month January they have made 20 snaps in the website and in a single day 1st of December they have made 12 snaps. And the whole structure of their website have been changed to be more interesting, slideshows of news included and can hold more news at a time. In 2012 they have made a series of snaps in their website and there were no single day was missed. There haven't been a structural change compared to 2011's. And also 2013 and 2014 was similar to 2012 although there seem to be a bit less snap in October and snaps is made with full commitment in December. And in 2015 there become a structural change holding more stories and seems to be more interesting and feels like can roll on their website choosing what to see. And in 2016 there become a bit structural change to make the website hold more stories. And starting from there to the current day [3/3/2020] the website haven't made structural changes but there are tons of snaps as their snap rate is significantly increasing, being more responsive and easy to use.

Rakuten, Inc.

I have chosen the e-commerce Company Rakuten, www.rakuten.com. Rakuten, Inc. is a Japanese electronic commerce and online retailing company based in Tokyo, founded in 1997 by

Japanese businessman Hiroshi Mikitani. At the moment it's making great advertisement by sponsoring the Spanish football club Barcelona.

So as I started evaluating it from 2012, I was wondered that the website was basically written in Japanese and if users who doesn't know Japanese doesn't change to English from the popup that appears when the website loads at first, they won't even know the company's name They really have many products but there wasn't good snap in fact there was only one snap from January to August. Snaps started changing from February 2013. T websites structure modified to be well, many features added and also the basic language for it becomes English. And in December no single day was missed.

When we see their website in March of 2014, the structure of the website have changed to hold many more products and they have placed a table of categories of items. In 2015 there haven't been that much of a snap so many days left uncaptured even when compared to the previous year 2014 and also structure of the website have changed.

In January of 2016, the structure and snaps of the website haven't been changed when compared to 2017 in which the structure at the top of the website have changed a lot, but the interface of some buttons has been modified since 2016. Starting from January 2018, major changes have been made to the website and most of its structure has changed and also they started sponsoring Barcelona which has empowered their popularity. And in January 2019, the website becomes completely different. Since then the website was responsive, easy to use and modernized to follow nowadays website fashion and also their logo has changed from there.

WikiHow Org.

WikiHow (<http://www.wikihow.com/>), is an online wiki-style community consisting of an extensive database of how-to guides. Founded in 2005 by Internet entrepreneur Jack Herrick, the website aims to create the world's most helpful how-to instructions to enable everyone in the world to learn how to do anything.

I have started reviewing their website of January 2010. As I use and know their website more often the navigation bars green color was there. But the whole structure and coloring was

different in 2010 and 2011. And there wasn't that much of a good snap compared to now days and their logo was the same throughout from there. In 2013 and 2013 there seem to be there isn't a good snap and I tried to see the website in different days although it seems like a website without the CSS part hasn't been loaded but there were similarities in categories of items and many other more. And in 2014 up to 2016, the whole structure of the website has changed and it included big images that was weird when it comes to space taking the whole screen at once. In January of 2017, those big images which take whole screen were lost and there was absolute structural difference with the previous ones. There were many how-to guides on the body part of the website although the images were missing. The 2018 websites of WikiHow is similar to what it was before in 2017, I've noticed only one change, since the images haven't been crawled or they are waiting so long, there are three green dots which show loading sign as the images are loading and the navigation bar goes at the bottom. In 18th January of 2019s, it was almost similar with the previous ones but most of its images has shown and I don't think the website has fully loaded because some buttons width were full the screen. And here is the 2020s website which is currently at the moment. The website looks great and so many of its features has changed, the navigation bar has come to the top as new websites. They have a good looking search bar. And their old browse by category table has come to a list view at the right side and they have included comments from famous persons to add trust to the people using them.

NASA Gov.

The National Aeronautics and Space Administration (<https://www.nasa.gov/>), is an independent agency of the United States Federal Government responsible for the civilian space program, as well as aeronautics and aerospace research. NASA was established in 1958, succeeding the National Advisory Committee for Aeronautics.

I started reviewing their website of 2010, since then there have been many snaps that was pretty good at that time. The website was very cool they have a nice background of space and nice navigation bar also at the right corner there were cool categories. They used most of the body's space wisely and from most of the web pages of 2010 it was very nice. In January of 2011, there have been some structural change over the previous categories. They have placed them under the

main article and that takes much space to be blank as the categories height is 5:2 to its width and their snaps have increased a bit. In 2012 and 2013, they have taken the categories to the previous 2010's structure and most of it looks like the 2010s. Here in 2014, the navigation bar of the website comes to be more fascinating by adding a background image and making the previous buttons to a white colored links which have a drop down menus. And the body's background color becomes white as a result the website seems to be more bright and easy to use. In their 2015, 2016, 2017 and 2018 websites are exactly similar, the whole structure of the website has changed and they have added more images covering the body part, as a result there were no background to be visible and the navigation bar is changed to be more like the previous 2010's but look good. And in 2019, most of the website is similar but there are some structural changes to the navigation bar, they have added a nice search bar and a share icon. And also they have added some categories with drop down menus. And now in 2020, it's exactly similar to the website of 2019's, but added more menus on the drop down ones.

Uber Technologies Inc.

Uber Technologies, Inc., commonly known as Uber, is an American multinational ride-hailing company offering services that include peer-to-peer ridesharing, ride service hailing, food delivery, and a micro mobility system with electric bikes and scooters.

I started visiting captures from 2011, the website looks it's made only with html except with some features. There is an old navigation bar and in the body a picture and a simple common texts were there. In 2012, they have updated a little bit of their simple navigation bar and they have also changed their logo. But in the body, even the picture wasn't changed.

And here comes the 2014s website, I thought I came to another site due to the fact that the website was completely different. It has come up to be a modern website by making a big slide show image at the navigation bar and in the body there comes a mouse pointer responsive images. The bottom navigation bar has changed a lot and there were so many captures seems like they have started to care for their website a lot. While in 2015s website, most of its features are like 2014's but they have added a transparent navigation bar and a menu which have a navigation drawer (navigation bar on the left side as of android apps). Where as in 2016, 2017 and 2018

they have added a big similar image to their navigation bar but the body part couldn't be loaded I have tried to see it many times.

While in 2020, they have changed the whole structure of the website. They have a nice white navigation bar, a modern body and a great bottom navigation bar.

Categories of Websites

The web is vast. 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. But it's helpful to remember that within that huge number of websites, you have a lot of different categories of types of websites trying to accomplish different things.

Ecommerce Websites

Ecommerce, also known as electronic commerce or internet commerce, refers to the buying and selling of goods or services using the internet, and the transfer of money and data to execute these transactions. Ecommerce is often used to refer to the sale of physical products online, but it can also describe any kind of commercial transaction that is facilitated through the internet.

Here I list 5 ecommerce websites I found according to

<https://www.top10ecommercesitebuilders.com/>.

- 1) Wix.com Ltd. (<https://www.wix.com/>) is an Israeli software company, providing cloud-based web development services. It allows users to create HTML5 websites and mobile sites through the use of online drag and drop tools.
- 2) Squarespace, Inc. (<https://www.squarespace.com/>) is a private American company, based in New York City that provides software as a service for website building and hosting. Its customers use pre-built website templates and drag and drop elements to create webpages.

- 3) Shopify Inc. (<https://www.shopify.com/>) is a Canadian multinational e-commerce company headquartered in Ottawa, Ontario. It is also the name of its proprietary E-Commerce platform for online stores and retail point-of-sale systems.
- 4) WordPress (<https://wordpress.com/>) is a free and open-source content management system written in PHP and paired with a MySQL or Maria DB database. Features include a plugin architecture and a template system, referred to within WordPress as Themes.
- 5) WooCommerce (<https://woocommerce.com/>) is an open-source e-commerce plugin for WordPress. It is designed for small to large-sized online merchants using WordPress. Launched on September 27, 2011, the plugin quickly became popular for its simplicity to install and customize and free base product.

Business Websites

A business website is an integral part of a larger marketing plan. It is therefore important to understand the role it must play. A website is usually the cornerstone of an online marketing plan, providing a presence for a business. It's the online equivalent of owning a high street shop or prominent office.

Here are 5 business websites according to <https://www.allbusiness.com/>.

- 1) All Business (<http://AllBusiness.com>), this is one of the most comprehensive sites on the Web for entrepreneurs and growing businesses. AllBusiness.com features articles, advice, forms, agreements, and videos covering small business topics, M&A, venture capital, angel financing, sales and marketing, careers, and more. The site offers over 33,000 articles written by experts from many different fields.
- 2) Bloomberg Business (<http://www.bloomberg.com>) provides up-to-the-minute U.S. and international news on financial markets, commodities, currencies, company earnings, technology, and more. The site has numerous articles, feature stories, and videos.
- 3) Business Insider (<http://www.businessinsider.com>) is a business news site that certainly knows how to grab the reader's attention with its catchy headlines. The articles and videos cover the

markets, technology, companies, personal finance, venture capital, investing, start-ups as well as more commercial stories on culture and entertainment.

- 4) The Financial Times (<http://www.ft.com>) is a print and digital publisher based in London covering the world economy and markets. The site has particularly strong coverage of European companies and markets providing feature stories, analyses, and data insights.
- 5) Forbes (<http://www.forbes.com/forbes/welcome/>) has great and comprehensive content across every business category: the stock market, entrepreneurship, personal finance, M&A, technology, careers, and more. It contains many popular lists, including “The World’s Billionaires” and the “Most Valuable Brands.” It has numerous staff writers and over 1,800 contributing experts who generate a great quantity of articles, which results in over 75 million visitors a month to the site.

Entertainment Websites

These websites are designed to be easy to navigate and frequently updated in order to keep users coming back for more information. They can be made more engaging by using dynamic content, such as videos, podcasts, slideshows, etc.

Here are some Internet websites and their description.

- 1) Eonline is the most popular entertainment news source, providing us with information about almost everything that deals with the entertainment world. Being one of the fastest-growing, most influential properties on the Internet, Eonline reaches more than 28 million unique users per month in the U.S. alone across its digital platforms. Eonline delivers breaking entertainment news and in-depth coverage on television, movies, music, celebrities, fashion, beauty and lifestyle – everything pop culture. The company is known for its live-event coverage around major news events, movie premieres, and awards shows.
- 2) The reason we chose Variety is the fact that it actually deals (mainly) with the entertainment news and not with the gossip that surrounds it. Since 1905, the most influential leaders in the industry have turned to Variety for timely, credible and straightforward news and analysis —

information vital to their professions. Recognized and respected throughout the world of show business, Variety is the premier source of entertainment news.

- 3) The term “Thirty Mile Zone” originated in the 1960s, when due to the growth of location shoots, studios established a “thirty mile zone” to monitor rules for filming in Hollywood. Launched in 2005, TMZ’s meteoric rise followed its exclusive on two of the biggest stories in entertainment: Mel Gibson’s DUI arrest and subsequent encounter with law enforcement, and Michael Richards’ ill-fated trip to the Laugh Factory. TMZ also broke the news of the breakup of Britney Spears and Kevin Federline’s marriage. TMZ altered the entertainment news landscape by changing the way the public gets its news –Instant, with lots of juicy headlines, and full of gossip.
- 4) Cubano and Miami native Perez Hilton is the internet’s most notorious gossip columnist. Since launching in 2004, PerezHilton.com — originally named PageSixSixSix.com– has become one of the leading go-to sites for celebrity news. We chose this site because when we consume our daily dose of celebrity gossip, we want it to be as yellow as it can get!
- 5) IMDb (Internet Movie Database) is the world’s most popular and authoritative source for movie, TV and celebrity content. IMDb is the #1 movie website in the world with a combined web and mobile audience of more than 160 million unique monthly visitors. It offers a searchable database of more than 130 million data items including more than 2 million movies, TV and entertainment programs and more than 4 million cast and crew members. With all that said you can easily understand why we think it is probably the best entertainment source when it comes to TV shows and the movies.

Portfolio Websites

A **portfolio** site is an extension of a freelancer's (or company's) The ultimate purpose of Portfolio sites are vital for freelancers working in the digital age. While all freelancers can hand out business cards and certain freelancers, such as photographers, can distribute physical portfolios to potential clients, a portfolio website provides a way for any freelancer in any industry to reach

more clients on a global scale. It also provides a way for you to get creative with the information and intricate details you share about yourself and your work.

Here are some of the best websites according to <https://wpamelia.com/portfolio-websites/> they are personal websites.

- 1) Lotta Nieminen (<http://www.lottanieminen.com/>) Studio is a graphic design, art direction and illustration studio creating holistic visual solutions for clients across disciplines.
- 2) Matt Pamer (<http://www.mattpamer.com/>) another great example of graphic designer portfolio websites comes from Matt Pamer. Matt Pamer is an art director, designer, and illustrator with over 15 years of experience.
- 3) Jane Song (<https://www.jane-song.com/>) she is an illustrator based in Atlanta, Georgia. Right now she is doing fun things at MailChimp and taking on the occasional side project.
- 4) Danny Jones (<http://yasly.com/work/>) is a 3D Designer in SF, specializing in 3D interaction + visual design.
- 5) Kimi Lewis Studio (<https://www.kimilewis.com/>) is a full-service branding outfit in Los Angeles that creates powerful storytelling through distinct visual language. They have yet another beautiful example of graphic designer portfolio websites.

Media Websites

Social media refers to websites and applications that are designed to allow people to share content quickly, efficiently, and in real-time. Many people define social media as apps on their smartphone or tablet, but the truth is, this communication tool started with computers.

Here are some of the best ones according to <https://buffer.com/library/social-media-sites>

- 1) Facebook is the biggest social media site around, with more than two billion people using it every month. That's almost a third of the world's population! There are more than 65 million businesses using Facebook Pages and more than six million advertisers actively promoting their business on Facebook, which makes it a pretty safe bet if you want to have a presence on social media.
- 2) YouTube is a video-sharing platform where users watch a billion hour of videos every day. To get started, you can create a YouTube channel for your brand where you can upload videos for your subscribers to view, like, comment, and share. Besides being the second biggest social media site, YouTube (owned by Google) is also often known as the second largest search engine after Google. (So if you want your brand to be on YouTube, I would recommend reading up on YouTube SEO.) Finally, you can also advertise on YouTube to increase your reach on the platform.
- 3) WhatsApp is a messaging app used by people in over 180 countries. Initially, WhatsApp was only used by people to communicate with their family and friends. Gradually, people started communicating with businesses via WhatsApp. (When I was in Bangkok to buy a new suit, I communicated with the tailor via WhatsApp.) WhatsApp has been building out its business platform to allow businesses to have a proper business profile, to provide customer support, and to share updates with customers about their purchases. For small businesses, it has built the WhatsApp Business app while for medium and large businesses, there's the WhatsApp Business API. Here are some stories of how businesses have been using WhatsApp.
- 4) Messenger used to be a messaging feature within Facebook, and since 2011, Facebook has made Messenger into a standalone app by itself and greatly expanded on its features. Businesses can now advertise, create chatbots, send newsletters, and more on Messenger. These features have given businesses a myriad of new ways to engage and connect with their customers.
- 5) WeChat grew from a messaging app, just like WhatsApp and Messenger, into an all-in-one platform. Besides messaging and calling, users can now use WeChat to shop online and make

payment offline, transfer money, make reservations, book taxis, and more. WeChat is most popular in China and some parts of Asia. If you are doing business in those areas (where social media platforms like Facebook are banned), WeChat could be a good alternative.

Brochure website

A Brochure site gives your company or product a Web presence and acts as an online version of a business card. Brochure sites convey a sense of permanence and credibility to your customers, and also provides them with valuable information, such as contact details, opening times and a way to contact you.

Here are some of the best ones according to <https://fliphtml5.com/>

- 1) FlipHTML5 (<https://fliphtml5.com/digital-publishing-platform.php>) is one of the leading brochures making websites that allows you to convert PDF into online flipping brochures with concise layout to boost sales. It is easy to design the book-like reading interface for that FlipHTML5 prepares a great number of templates and themes for you. You can also define the background and enrich the content with videos, hotspots and more modern elements. FlipHTML5 also provides the online realistic bookcase for digital brochures storage. You can also share the brochures on social networks or email to target customers to expand business. This brochure making website also provides you the online access statistics which you can know the readers behaviors to optimize the marketing strategies.
- 2) Canva (<https://www.canva.com/>) you can easily create a professional brochure that will hook your audience with Canva online brochure maker. With an account on Canva website, you can create a professional brochure, customize your brochure and brand your brochures. Canva provides over 1 million stock images and other graphic elements with you to design the online brochures.
- 3) AnyFlip provides the online magazine publishing platform for the users to upload PDF online. You can customize the brochure title, description and keywords for the search engine

optimization. After finishing PDF to flipping brochure conversion, you can customize the privacy settings to allow that only authorized users can read your brochures.

- 4) MyCreativeShop (<https://www.mycreativeshop.com/>) It is said to be the easiest & fastest way to create awesome brochures online. MyCreativeShop offers a wide range of contemporary brochure templates for you to design the online brochure and reach the target customers.
- 5) Jukebox (<https://www.jukeboxprint.com/brochures>) is the free brochure creator that helps you to create the online brochures with simple operations. You can select your size and orientation and edit the outside and inside of the brochures. There are two different modes: portrait and landscape. You can choose the fold methods by yourself: no folding, tri-fold and half-fold. The tri-fold is most popular among the publishers.

Nonprofit Websites

Nonprofit websites don't aim to sell products or services to their visitors, but they still need to convince people to support their cause. Websites are one of the primary ways the charity organizations connect with their potential patrons. A nonprofit website should serve five main purposes.

Here are some of the best ones according to <https://doublethedonation.com/tips/top-nonprofit-websites/>

- 1) Greenbelt strives to help individuals, families, municipalities, and organizations meet their land conservation goals in the 34 cities and towns of Essex County, Massachusetts. Their work helps protect native plants, animals, and natural corridors, as well as ensure healthy food supply and maintain clean water.
- 2) The Butler County Family YMCA Association believes in strengthening their community by offering an opportunity to learn, grow, and thrive. The YMCA believes that lasting personal and

social change only occurs when everyone works together and invests in their kids, health, and community.

- 3) Along with being a home for animals, The Memphis Zoo is committed to all sorts of animal-related pursuits, from protecting endangered species to conducting research to improve zoo conditions and more. They also host plenty of events and exhibits to bring their community together and to teach people more about animals and what they can do to protect them.
- 4) Located in Providence, Rhode Island School of Design is one of the nation's oldest and most prestigious design schools. They offer hands-on, studio-based education programs in 19 art-related majors to around 2,300 undergrad and graduate students annually.
- 5) A philanthropic project of Knock (the web design company who created the site), the organization advocates for planting more trees, saving and recycling paper, and any other action people can take to be kinder to trees!

Educational Websites

Educational websites can include websites that have games, videos or topic related resources that act as tools to enhance learning and supplement classroom teaching. These websites help make the process of learning entertaining and attractive to the student, especially in today's age.

Here are some of the top ones according to <https://www.indiatoday.in/education-today/featurephilia/story/free-education-953499-2017-01-06>

- 1) EdX (<https://www.edx.org/>) This website can be most preferred by the students as it was founded by Harvard University and MIT in 2012. EdX is an online learning destination and MOOC provider, offering high-quality courses from the world's best universities and institutions to learners everywhere. Out of the 90 universities, it includes top global rankers.
- 2) Academic Earth: (<http://www.academicearth.org>), the website gives huge array of academic options to student from traditional to contemporary studies. They provide online degree courses

from accounting and economics to engineering and also carries material on niche subjects like behavioral psychology. Moreover, it has have a collaboration with a bunch of reputed colleges such as University of Oxford, Massachusetts Institute of Technology, Stanford University and many other. Keeping in mind the interest level of the students, the portal has videos and podcasts in all the subjects.

- 3) Internet Archive (<http://www.internetarchive.org>), from anything to everything, internet archive is an authentic website storing the originals from various big websites. For example, American libraries include the collection of free book directly attached with the college libraries' websites. This is one of the best websites imparting free and accessible knowledge. However, it does not give admission or certificates for learning.
- 4) Big Think (<http://www.bigthink.com>) has over 2,000 fellows who have received great fame in their forte. These experts write articles and record tutorials for the students, later the content is further refined by the editorial team of the website, giving authentic material to the students. Students can make great use of this website by creating their own distinct ideology, as it provide various opinions on one subject. Moreover, students can get views from experts as well.
- 5) Courcera (<http://www.cource.org>), the moment a student opens this website, he is bound to get sucked into the number of courses available in his topic of interest. It is a user-friendly website. Students can find big universities and a sharable electronic Course Certificate. "Courses include recorded video lectures, auto-graded and peer-reviewed assignments, and community discussion forums. When you complete a course, you'll receive a sharable electronic Course Certificate," assures the website.

Infopreneur Website

An **infopreneur** is an entrepreneur who identifies opportunities for creating enterprising information-based businesses by identifying knowledge deficiency situations and selling target-based information products and services, mainly through the internet.

Here are some of the best idea infopreneur websites according to

<https://smallbiztrends.com/2017/01/business-ideas-for-infopreneurs.html>

- 1) EBook author: But you don't have to go through a traditional publisher anymore. You can easily publish your own books online now and sell them as eBooks.
- 2) Guest Blogger: If you're well known in a specific niche or industry, you can also earn an income by offering your services as a guest blogger for other sites.
- 3) Affiliate marketer: Whether you have a blog, podcast, newsletter or other online venue, you can build a business by working with brands as an affiliate marketer that drives traffic to related websites.
- 4) Public speaking: If you prefer to share your expertise in person, you can make public speaking appearances at relevant events.
- 5) Membership site owner: Or you can build a website and charge a membership fee for those who want to access specific parts of the site or receive other benefits like bonus content via email.

Personal website

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, organization or institution.

Here are some of the best ones according to <https://www.themuse.com/advice/the-35-best-personal-websites-weve-ever-seen>

- 1) Krista Grey: (<http://www.kristagrays.com/>) Gray's homepage gives you all the basic information you need to know about her and her work in a clean, easy-to-read way. Plus, her "services" section explains exactly what she's looking for, making it easy for people to understand how they can work with her.

- 2) Ximena Venogecha: (<http://www.ximenavengoechea.com/>) The simple, clean design of this site makes the colors of Vengoechea's illustrations and user design screenshots really pop—helping her work shine even more.
- 3) Rachel G. King: (<http://www.rachaelgking.com/>) King uses her simple website to tell a compelling story about herself—and then give a clear call to action for people to reach out to her to work together. Plus, her social profiles stand out loud and proud, which is critical since she's a social media professional.
- 4) Devon Stank: (<http://www.devonstank.com/>) there's no question about what this guy does. But, in addition to the simple, clear welcome screen, Stank does a stellar job of integrating information about his skills and abilities with just enough personality to stand out.
- 5) Kristi Hines: (<http://kristihines.com/>) Hines has managed to make the examples of her writing work visual with the help of publication logos—plus, her testimonials page is second to none.

Web 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. Usually, each information source gets its dedicated area on the page for displaying information; often, the user can configure which ones to display.

Here are some of the best web portal sites according to <https://liferay.dev/blogs/-/blogs/15-awesome-web-portal-examples>

- 1) **Santander Bank** (<https://www.santanderbank.com/us/>), As one of the largest banks in the Eurozone, Santander looked to build a new enterprise web platform that would integrate with existing software (CMS, Search Engine, Product Catalog) while allowing room for new content and features. Their site includes several retail banking features and ability to open new accounts and manage day-to-day banking operations.

- 2) **CopperPoint** (<https://www.copperpoint.com/>), is Arizona's largest provider of workers compensation insurance and wanted to provide a better user experience for their policyholders and agents. Their site offers a flexible web design that enables payments and account management for clients, in addition to mobile notifications, push messages, email alerts, and more.
- 3) **Allianz Group** (<http://www.allianz.com/>), with a customer base of over 75 million, offers a site that is both dynamic and personal. With the "My Insurance Portfolio" customer site, users have the ability to retrieve historical records of purchased products and services along with integrated features to facilitate policy payments and renewals. The site also features easy-to-update contact information and communication preferences.
- 4) **UAB Medicine** (<http://www.uabmedicine.org/>), UAB's top-ranked medical professionals found a platform through which they can reach many visitors and actual patients with health concerns. Their site hosts a free patient portal with a directory of various healthcare providers categorized by specialty, gender and location. It also features various subsections for knowledge about conditions and treatments, locations, contact info and FAQs.
- 5) **Forest Hills Pediatrics** (<https://www.foresthillspediatrics.com/>), Right off the bat, you'll notice the beautiful layout and color scheme of the Forest Hills site. On top of that, this patient portal features the ability to request appointments and refills, review growth charts, print immunization records, and fill out surveys for check-ups and other portions of the medical record.

Wiki or Community Forum Website

The Wiki hosting site known as Wikia has two features in operation, known as the Forum and Message Wall. The forum is used solely for discussion and works through editing, while the message wall works through posted messages more similar to a traditional forum.

Here are some of the best ones according to

<https://aelieve.com/rankings/websites/category/reference/best-wiki-sites/>

- 1) Wikipedia.Org, a free encyclopedia with millions of articles contributed collaboratively using Wiki software, in dozens of languages. Unique visitors, 1794600000.
- 2) Wikia.Com, Wikia is a community site that anyone can contribute to. Discover, share and add your knowledge. Unique visitors, 168500000.
- 3) Wikihow.Com, Learn how to do anything with wikiHow, the world's most popular how-to website. Easy, step-by-step, illustrated instructions for everything. Unique visitors, 76800000.
- 4) Wiktionary.Org, Collaborative project for creating a free lexical database in every language, complete with meanings, etymologies, and pronunciations. Unique visitors, 32500000.
- 5) Wordreference.Com, Free online dictionaries – Spanish, French, Italian, German and more. Conjugations, audio pronunciations and forums for your questions. Unique visitors, 24900000.

Guidelines for evaluating websites

Now a days there are billions of websites across millions of web servers. So it's a must when it comes to evaluating them using a proper guidelines. There are six criteria that should be applied when evaluating a website, and for more questions you answered 'yes' the more the website is one of quality. Here are the list of them.

- 1) **Authority:** It's important to relate ideas we find to a specific person or organization who is accountable for them. We should verify legitimacy and qualification of the organization or group. And also checking whether the information is from a reliable source have to be done.
- 2) **Accuracy:** The sources information should be clearly listed and can be verified from other sources. Also in this criteria we should check for spelling, grammatical and other typographical errors.

- 3) **Objectivity:** We should check whether if the information is not influenced by personal emotions or judgments. Or not influenced by sponsoring organization and advertisements differentiated from the informational content.
- 4) **Currency:** There should be a clear identification when it comes to timeliness of the informational content.
- 5) **Coverage:** The information should properly address the topics.
- 6) **Appearance:** Well organized and maintained page, working links. And a one should quickly access contents.

By using the above guidelines I'm going to evaluate two websites.

NASA Gov. (<https://www.nasa.gov/>)

Here we come again! NASA is independent agency of the United States Federal Government responsible for civilian space programs and aerospace research. It was established in 1958. So the authority and responsibility of this website is very well.

NASA is based of satellite images and scientific approaches, so their website most likely doesn't have any spelling or grammatical errors and I didn't find any by myself.

Their website is very objective as it is Aeronautics and Space Administration agency there are no other topics which aren't on this side.

NASA will inform any information's date, time and space. So when it comes to currency of the information out there, there is no doubt that it will fail.

As they are working in a lot of stuffs their website can't cover everything they do. And also it's a bit small contented when it comes to coverage.

When it comes to the appearance of the website, it is well organized and there aren't any not working links.

In general, to use or refer this website is a good option.

Wikipedia Org. (<https://www.wikipedia.org/>)

Wikipedia is a free encyclopedia created and edited by volunteers around the world and hosted by the Wikimedia Foundation.

When it comes to authority, their website can be created and edited by volunteers around the world. This has shared many opinions and knowledge from all the corners of the world, but as anyone could edit the information out there we can't be certain about it and relying on it could cause a problem as there is no accountable person or organization for that information. So as helpful as it is, it could be dangerous too.

Accuracy of the website is in trouble, as there are so many editors across the world, it is hard to expect a good grammar and spelling from it.

When it comes to objectivity, the website is very well indeed. Peoples edit some information on their topics.

Currency of the website is also in trouble. Everyone could edit some information and whether that's true or not depends on further research.

Also coverage of the topics depend on the editors and they may not address the proper topics.

When it comes to appearance of the website, it's well organized and maintained.

So in general, although it has many good sides, relying on its information or referencing it makes it hard.

Reference Links:

<https://www.techopedia.com/definition/2419/internet>

<https://web.archive.org/>

<https://www.webopedia.com/TERM/I/Internet.html>

<https://groups.google.com/forum/#!topic/alt.folklore.computers/bwtDfrtP56U>

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

<https://www.shopify.com/encyclopedia/what-is-ecommerce>

<https://www.top10ecommercesitebuilders.com/>

<https://lib.nmu.edu/help/resource-guides/subject-guide/evaluating-internet-sources>