ADDIS ABABA INSTITUTE OF TECHNOLOGY

CENTER OF INFORMATION TECHNOLOGY AND SCIENTIFIC COMPUTING

**DEPARTMENT OF SOFTWARE ENGINEERING**

Fundamentals of Web Design and Development: Assignment 1

Submitted by: Ruth Zaid Woldegebriel (ATR/2541/11)

Submitted to: Mr. Fitsum Alemu

March 2020

BRIEF HISTORY OF THE INTERNET

The internet was the work of many scientists, programmers and engineers. In the early 1960s, computer scientists developed the concept of packet switching which is a way of transmitting electronic data. This was a major breakthrough as it allowed for the creation of ARPANET (Advanced Research Projects Agency Network) in 1969. ARPANET used packet switching to allow computers to communicate on a single network. On October 29, 1969, a node-to-node communication was made between a computer at UCLA and a computer at Stanford. In the 1970s scientists developed Transmission Control Protocol and Internet Protocol (TCP/IP), a communications model that set standards for how data could be transmitted between multiple networks. The official “birthday” of the Internet is considered to be January 1, 1983 when ARPANET adopted to TCP/IP. Researchers then assembled the internet which is simply a huge network of networks. The internet was popularized among the public when the World Wide Web was invented in 1990.

THE 12 CATEGORIES OF WEBSITES WITH EXAMPLES

News

HuffPost: [www.huffpost.com](http://www.huffpost.com) (American news website for The Huffington Post)

CNN: [www.cnn.com](http://www.cnn.com) (American news-based media company owned by AT&T’s WarnerMedia)

The New York Times: [www.nytimes.com](http://www.nytimes.com) (American newspaper based in New York City)

The Guardian: [www.theguardian.com](http://www.theguardian.com) (British daily newspaper)

BBC: [www.bbc.com](http://www.bbc.com) (British Broadcasting Corporation, public service broadcaster)

Educational

MIT OpenCourseWare: [www.ocw.mit.edu](http://www.ocw.mit.edu) (publication of MIT course content)

Khan Academy: [www.khanacademy.org](http://www.khanacademy.org) (a set of online tools that help educate students)

GeeksforGeeks: [www.geeksforgeeks.org](http://www.geeksforgeeks.org) (well explained computer science articles)

W3Schools: [www.w3schools.com](http://www.w3schools.com) (educational website for learning web technologies online)

TutorialsPoint: [www.tutorialspoint.com](http://www.tutorialspoint.com) (online tutorials on programming subjects)

Entertainment

BuzzFeed: [www.buzzfeed.com](http://www.buzzfeed.com) (fun quizzes, entertainment videos, celeb news, etc.)

YouTube: [www.youtube.com](http://www.youtube.com) (video-sharing platform)

The Onion: [www.theonion.com](http://www.theonion.com) (satirical news stories)

SoundCloud: [www.soundcloud.com](http://www.soundcloud.com) (free online music distribution platform)

Mashable: [www.mashable.com](http://www.mashable.com) (fun articles and videos on tech and entertainment)

Business

Maria Tash: [www.mariatash.com](http://www.mariatash.com) (luxury piercings and fine jewelry)

DevaCurl: [www.devacurl.com](http://www.devacurl.com) (curly hair products and stylists)

Nike: [www.nike.com](http://www.nike.com) (sportswear attire)

La Petite Nail Shop: [www.lapetitenailshop.com](http://www.lapetitenailshop.com) (nail salon in San Francisco, California)

X/S Tattoo: [www.xstattoo.ca](http://www.xstattoo.ca) (tattoo and piercing studio in Montreal, Canada)

Social Network

Facebook: [www.facebook.com](http://www.facebook.com)

* (connect with friends and family, share photos and videos, send messages)

Instagram: [www.instagram.com](http://www.instagram.com)

* (photo and video-sharing social networking service owned by Facebook)

LinkedIn: [www.linkedin.com](http://www.linkedin.com)

* (business and employment-oriented networking service, manage professional identity)

Twitter: [www.twitter.com](http://www.twitter.com)

* (microblogging service on which users post messages known as "tweets")

Tumblr: [www.tumblr.com](http://www.tumblr.com)

* (microblogging website where multimedia can be posted to a short-form blog)

Content Aggregator

Google News: [www.news.google.com](http://www.news.google.com)

* google’s own news aggregator

Popurls: [www.popurls.com](http://www.popurls.com)

* single-page news aggregator

Flipboard: [www.flipboard.com](http://www.flipboard.com)

* personal magazine aggregator pulling in content from websites on a variety of topics

Panda: [www.usepanda.com](http://www.usepanda.com)

* tech aggregator that follows Dribble, Behance, Product Hunt, GitHub and more

Stumble Upon: [www.stumbleupon.com](http://www.stumbleupon.com)

* corresponds to interest category (gadgets, interior design, photography, etc.)

Advocacy

Amnesty International: [www.amnesty.org](http://www.amnesty.org)

* non-governmental organization advocating human rights for all

Action on Smoking & Health: [www.ash.org](http://www.ash.org)

* a campaigning public health charity that works to eliminate the harm caused by tobacco

Stand for Children: [www.stand.org](http://www.stand.org)

* organization that advocates for better public education in the Unites States

UN Women: [www.unwomen.org](http://www.unwomen.org)

* a United Nations entity advocating for the empowerment of women

World Wildlife Fund: [www.wwf.org](http://www.wwf.org)

* organization that advocates for the conservation of the planet and habitats

Blog

i am a food blog – celebrating the awesomeness of food [www.iamafoodblog.com](http://www.iamafoodblog.com)

* (a recipe & travel blog written by husband and wife team Mike & Steph)

Making Sense of Cents – A Personal Finance Blog [www.makingsenseofcents.com](http://www.makingsenseofcents.com)

* (a personal finance and lifestyle blog managed by Michelle)

Pinch of Yum – a food blog [www.pinchofyum.com](http://www.pinchofyum.com)

* (a recipe blog managed by full time blogger Lindsay)

Abby Lawson | Organizing, Decorating, Blogging [www.justagirlandherblog.com](http://www.justagirlandherblog.com)

* (organization and decoration blog run by Abby Lawson)

Rose Atwater – finances. Faith. family. [www.roseatwater.com](http://www.roseatwater.com)

* (personal blog on finances, faith and family run by Rose Atwater)

Portal

Addis Ababa University: [www.portal.aau.edu.et](http://www.portal.aau.edu.et) (portal for AAU students to access grades)

OUAC: [www.ouac.on.ca](http://www.ouac.on.ca) (Ontario Universities’ Application Center, Canada)

CollegeBoard : [www.collegeboard.org](http://www.collegeboard.org) (portal to sign up for the SATs and access scores)

Common App: [www.commonapp.org](http://www.commonapp.org) (portal to apply to American Colleges)

grants.gov: [www.apply.grants.gov/apply/](http://www.apply.grants.gov/apply/) (portal for US citizens to apply for and manage funds)

Informational

GoodGuide: [www.goodguide.com](http://www.goodguide.com)

* (contains evaluations of the health and environmental impacts of different products)

50states.com: [www.50states.com](http://www.50states.com)

* (information on all 50 states in the US [flags, maps, capitals, colleges, fun facts, etc.])

Nobel Price: [www.nobelprize.org](http://www.nobelprize.org)

* (information on nobel prize nominees and winners)

Guinness World Records: [www.guinnessworldrecords.com](http://www.guinnessworldrecords.com)

* (lists world records of human achievements and the extremes of the natural world)

NASA: [www.nasa.gov](http://www.nasa.gov)

* (access latest news, images and videos from the space agency)

Personal

Hank Green [www.hankgreen.com](http://www.hankgreen.com) (youtuber and #1 best-selling author)

Joshua McCartney – Portfolio [www.joshuamccartney.com](http://www.joshuamccartney.com) (New-York based senior art director)

Portfolio of Charlie Waite [www.charliewaite.me](http://www.charliewaite.me) (designer, thinker, husband and father)

Ximena N. Larkin [www.ximenalarkin.com](http://www.ximenalarkin.com) (communication specialist and writer in Chicago)

Seth Godin [www.sethgodin.com](http://www.sethgodin.com) (American author)

Wiki

Wikimedia Commons:

* (online repository of free-use images, sounds and other media)

Wiktionary: [www.wiktionary.org](http://www.wiktionary.org)

* (free content dictionary of terms in all natural languages and some artificial languages)

Wikitravel: [www.wikitravel.org](http://www.wikitravel.org)

* (collaborative travel guide based on the wiki model)

Wikinews: [www.wikinews.org](http://www.wikinews.org)

* (free-content news source wiki)

Wikiquote: [www.wikiquote.org](http://www.wikiquote.org)

* (comprehensive wiki of notable quotes)

Wikiversity: [www.wikiversity.org](http://www.wikiversity.org)

* (offers tutorials and other materials for the purpose of learning)

GUIDELINES FOR EVALUATING THE VALUE OF A WEBSITE

The 6 important criteria for evaluating websites are the following . . .

* Authority: ask “who developed this site and do they have the credentials needed?”
* Purpose: ask “what is the purpose of this site?”
* Objectivity: ask “is the site biased?”
* Coverage: ask “in what depth are the topics on this site explored?”
* Accuracy: ask “is the information on this site reliable and verifiable?”
* Currency: ask “how current is the information on this site and how often is it updated?”

EXAMPLE 1: Making Sense of Cents: [www.makingsenseofcents.com](http://www.makingsenseofcents.com)

* Authority: Michelle, has a Finance MBA (clear authorship of someone qualified)
* Purpose: A blog to help improve their finances (clear purpose of informing)
* Objectivity: Info presented in a way to persuade people to make better financial choices
* Coverage: Comprehensive coverage of how to improve finances
* Accuracy: Author has credentials and is knowledgeable (info is accurate and reliable)
* Currency: Blog is updated regularly

EXAMPLE 2: GoodGuide: [www.goodguide.com](http://www.goodguide.com)

* Authority: GoodGuide is comprised of chemists, toxicologists and other experts (good)
* Purpose: To help guide more informed buying decisions (clear purpose)
* Objectivity: To drive consumers to safer, healthier, and sustainable products
* Coverage: In depth coverage of the status of products
* Accuracy: ingredient info collected from labels and from manufacturers (accurate)
* Currency: Website is updated regularly

EVOLUTION OF POPULAR WEBSITES

* Yahoo! [www.yahoo.com](http://www.yahoo.com)

The Yahoo homepage has changed a lot over the years. In the past, Yahoo’s homepage was very simple in design/style and consisted mostly of pure text. Yahoo’s homepage is much more dynamic now in terms of style and what it contains.

* Amazon [www.amazon.com](http://www.amazon.com)

Amazon has also changed over time. Amazon used to be very basic in terms of style and only sold books. Amazon is now one of the biggest e-commerce websites with a more effective portal and hosts all types of items.