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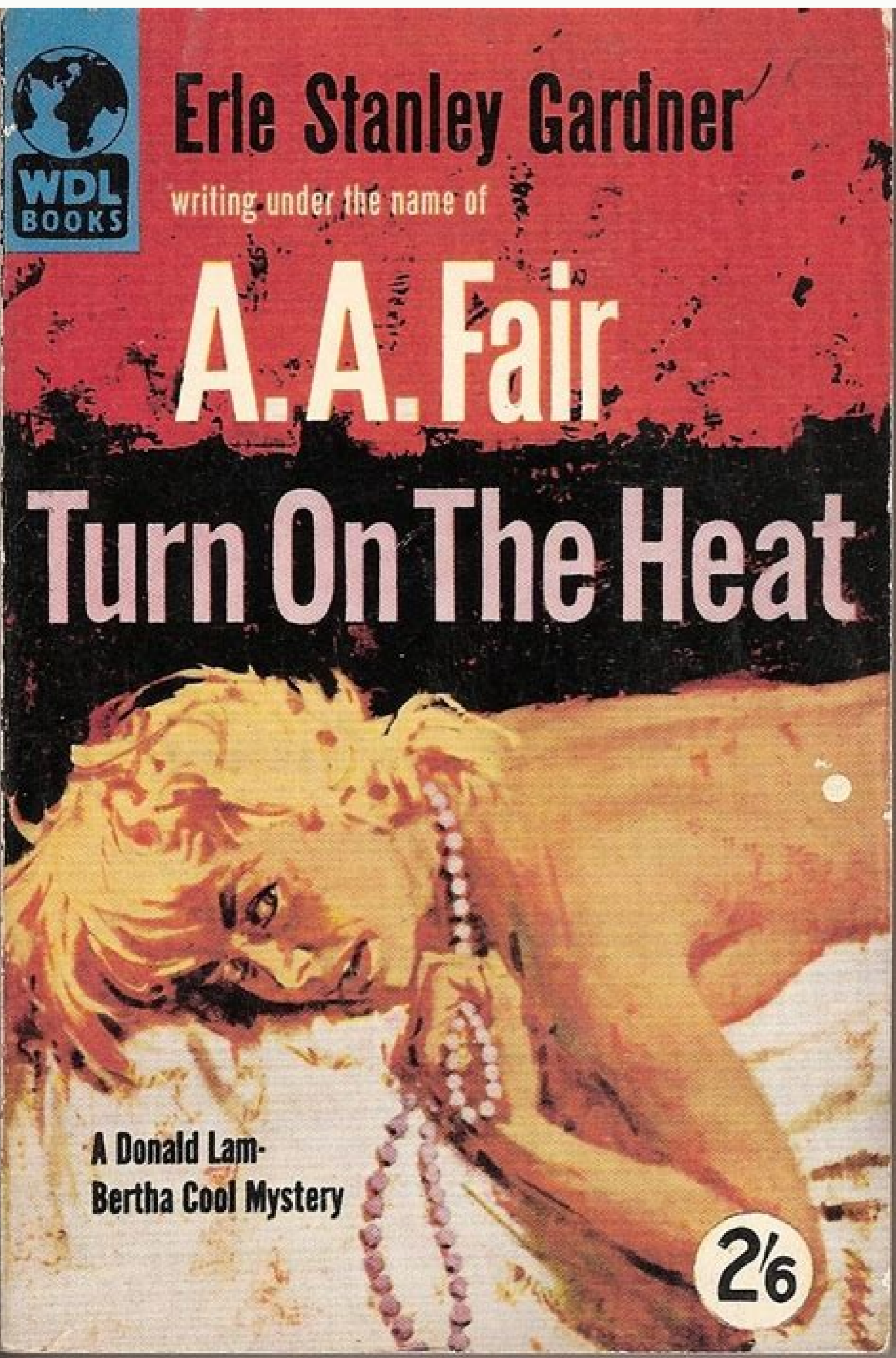
Turn Down the Heat - Annotated Notes — Robert D. Cormia February 18, 2014

This final project for Coursera's 'Turn down the heat' summarizes the key learning outcomes for the class:

1. We are already experiencing significant impacts from ~0.6 to 0.8 deg Celsius warming, with at least another 0.6 to 0.8 deg in the pipeline
2. We are headed straight at 450 ppm CO_2 (by 2035), potentially a 'tipping point' for climate change and widespread ecosystem damage
3. Warming of 2 degrees C may not be advisable (Hansen 2013) and further warming from amplifying feedbacks could take us to 3 deg C and even warmer

Three looming factors include deglaciation of ice sheets, ocean acidification, and methane hydrate release, in addition to heat storms. Ocean acidification itself becomes an ever growing threat, within 20 years the ocean pH of 8 will lead to loss of 90% of all coral, and potentially the productivity of plankton, the base of the food chain.

The course provided a wonderful foundation for understanding the integrated impacts of climate change, and why we MUST do everything possible to stay under 450 ppm CO_2 and 2 deg of warming

James Hansen Columbia University and formerly NASA GISS, published in PLoS: Assessing dangerous climate change (Nov 2013) making the following similar points:

1. We are experiencing significant climate impacts from droughts, heat storms, floods, fires, pest migration at barely 1 deg Celsius warming
2. While scientists in the past have argued that 2 deg C is the edge of what might be considered safe (or barely sane) climate interference, recent data argues against that. 2 deg might not only be too much, we may not be able to stop warming there, and as amplifying feedbacks (albedo and methane hydrates) could take us to 3 deg C even without more fossil fuel combustion
3. The rate of warming may have already triggered irreversible deglaciation of Greenland ice sheets, the Arctic Ocean may be 'open sea' by 2015, triggering instability in methane hydrates on the sea floor

The upshot of the Hansen article is that staying under 2 deg C would be better than reaching that level, and in order to do so, we should try to limit fossil fuel combustion to no more than 1,000 GT. From my calculations, and observing that we are at 400 ppm CO_2 at 3790 bn combustion, and adding 2+ ppm CO_2 annually (at ~ 10GT carbon combustion), we don't have that much room, and need to stop at 625 to 700GT, and we will crash through 450 ppm by 2030 to 2035 at today's rate of growth. After reading Hansen's article, I no longer believe that we can avert disastrous climate impacts (storms, droughts, floods) and could be headed to catastrophic impacts (based on research published by the International Arctic Research Center, that has observed a doubling in arctic methane release from ocean (bed) methane hydrates (17 GT and 6 ppb atmospheric CH_4). In my estimation, opening of sea ice in the arctic will destabilize sea floor permafrost, leading to increasing rates of methane release, leading to releases of 500 TG annually by 2030. An eventual release of 50GT methane (over decades) with a GWP (Global Warming Potential) would be equivalent to 1000GT carbon, the ENTIRE carbon budget that Hansen states we MUST NOT burn through.

Slide 3 – temperature anomaly chart

A key figure in Hansen's article is a chart showing temperature anomaly and cumulative anthropogenic carbon emissions (GtC). The chart shows we have marched halfway up a path to 2 degrees Celsius. Having burned ~ 375 GtC, another 375 GtC might be burned in as little as 25 to 30 years.

Slide 4 – Era of consequences

At just 0.8 deg C warming, we are already experiencing record heat storms, droughts, fires, superstorms, pest migration, crop and soil stress, heat related disease and death, and property and insurance loss.
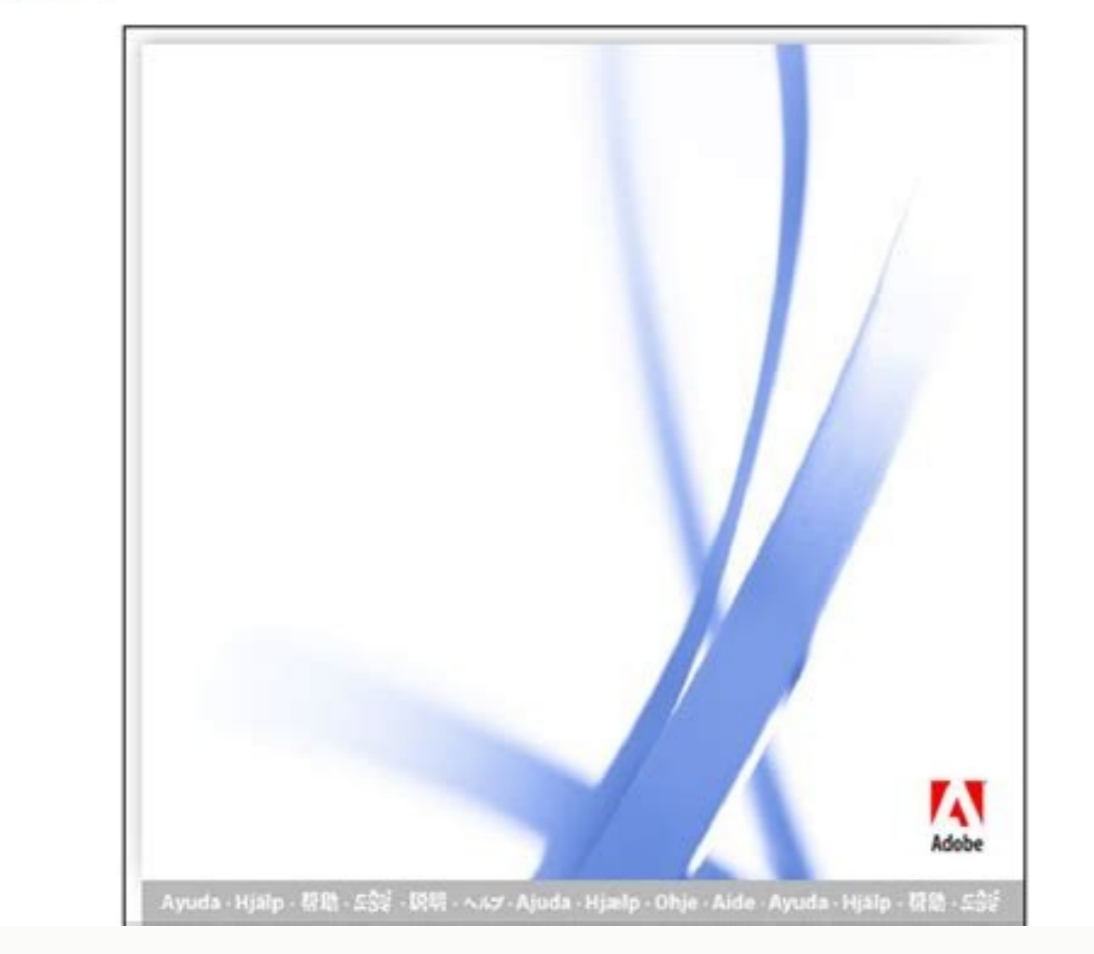
RULES AND REGULATIONS. 89

steamer to give his entire time to the interest of the fire department, and he shall at all times be in attendance at his engine house.

He shall be held personally responsible for the care of the engine and heater. He shall accompany the engine to all fires and alarms of fire, and shall have full charge of the running of the engine, subject to the orders of the captain and all superior officers.

He shall see that at all times his engine is ready for use. Should an alarm of fire occur during the absence of either of the drivers, he must drive in his stead. He must also assist in the care of the house.

He shall do all repairs, if possible, when so ordered by his superior officers.

STOKERS.—The stoker may be assigned to that position from among the call men by the captain, and shall, under the direction of the engineer, assist in the care and management of the engine at fires.

They shall see that the engine is properly supplied with fuel, and perform such other duties as may be required of them by the engineer.

DRIVERS.—It shall be the duty of the drivers of each engine, hose wagon and hook and ladder truck to be in constant attendance at their respective houses. They shall have charge of the horses, harness and stables, &c., and have them well cleaned each morning.

They shall take charge of the horses of the company during the service of their apparatus at fires.

In cold and stormy weather, on arriving at a fire, they

Reagle, Joseph (2007). "Wikipedia is twenty. 89-153. Archived from the original on September 9, 2016. Retrieved February 3, 2022. Archived from the original on January 10, 2022. "Wikipedian Justice". ^ "Wikimedia Traffic Analysis Report – Wikipedia Page Views Per Country". Editors who fail to comply with Wikipedia cultural rituals, such as signing talk page comments, may implicitly signal that they are Wikipedia outsiders, increasing the odds that Wikipedia insiders may target or discount their contributions. ^ "Wikipedia experience sparks national debate". Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI). ^ Thiel, Thomas (September 27, 2010). NBC News. ISBN 978-0262014472. ^ "Server roles at wikitech.wikimedia.org". Reuters. Stuart Geiger; Morgan, Jonathan T.; Riedl, John (2012). ^ Wikimedia ^ "Licensing update/Questions and Answers". ^ a b Rawlinson, Kevin (August 8, 2011). (Includes video.) Wales, Jimmy (December 9, 2016). ^ "Version: Installed extensions". ^ a b c Sanger, Larry (April 18, 2005). External links Wikimedia Commons has media related to 11b1ref. ^ "Wikishtetl: Commemorating Jewish Communities that Perished in the Holocaust through the Wikipedia Platform :: Quest CDEC journal". "Academia and Wikipedia". New York Magazine, issue of November 25, 2013, p. June 30, 2014. ^ Heart Internet. "Is Wikipedia Cracking Up?" The Independent, February 3, 2009. Taylor, Chris (May 29, 2005). He said that the lack of such freedom forced Wikipedia, "the seventh most consulted website", to forbid all images of modern Italian buildings and art, and claimed this was hugely damaging to tourist revenues.[339] Wikipedia, an introduction – Erasmus Prize 2015 Jimmy Wales accepts the 2008 Quadriga A Mission of Enlightenment award on behalf of Wikipedia On September 16, 2007, The Washington Post reported that Wikipedia had become a focal point in the 2008 US election campaign, saying: "Type a candidate's name into Google, and among the first results is a Wikipedia page, making those entries arguably as important as any ad in defining a candidate. ^ Public Information Research, Wikipedia Watch ^ Raphel, JR (August 26, 2009). archive.firstamendmentcenter.org. There was a greater concentration of females in the "people and arts" category, while males focus more on "geography and science".[211] Coverage of topics and selection bias Research conducted by Mark Graham of the Oxford Internet Institute in 2009 indicated that the geographic distribution of article topics is highly uneven. "Everyone's Encyclopedia". Columbia Journalism Review. The Economist. Retrieved April 22, 2013. Archived from the original (PDF) on March 6, 2008. Interrogazione a Rutelli. "You Can Now Donate to Wikipedia in Bitcoin". "Wikipedia and W.H.O. Join to Combat Covid-19 Misinformation". arXiv:1109.1746. February 16, 2007. It is particularly popular with the well-educated and current college-age students. This made it a poor choice for a general reference work: for example, the GFDL requires the reprints of materials from Wikipedia to come with a full copy of the GFDL text. According to a study by Pnina Shachaf in the Journal of Documentation, the quality of the Wikipedia reference desk is comparable to a standard library reference desk, with an accuracy of 55 percent.[298] Mobile access See also: Help:Mobile access The mobile version of the English Wikipedia's main page, from August 3, 2019 Wikipedia's original medium was for users to read and edit content using any standard web browser through a fixed Internet connection. "Phantom authority, self-selective recruitment and retention of members in virtual communities: The case of Wikipedia". British Comedy Guide. "All the News That's Fit to Print Out". "World of Knowledge" (PDF). Archived (PDF) from the original on July 9, 2016. Archived (PDF) from the original on February 18, 2016. Archived from the original (Video) on April 12, 2011. (October 23, 2009). CiteSeerX 10.1.1.246.4536. ^ English Wikipedia's protection policy ^ English Wikipedia's full protection policy ^ Harrison, Stephen; Benjakob, Omer (January 14, 2021). Elsevier Computer Networks 53 (11), pp. The English Wikipedia passed the mark of two million articles on September 9, 2007, making it the largest encyclopedia ever assembled, surpassing the Yongle Encyclopedia made during the Ming Dynasty in 1408, which had held the record for almost 600 years.[341] Citing fears of commercial advertising and lack of control, users of the Spanish Wikipedia forked from Wikipedia to create Enciclopedia Libre in February 2002.[35] Wales then announced that Wikipedia would not display advertisements, and changed Wikipedia's domain from wikipedia.com to wikipedia.org.[36][37] Though the English Wikipedia reached three million articles in August 2009, the growth of the edition, in terms of the numbers of new articles and of editors, appears to have peaked around early 2007.[38] Around 1,800 articles were added daily to the encyclopedia in 2006; by 2013 that average was roughly 800.[39] A team at the Palo Alto Research Center attributed this slowing of growth to the project's increasing exclusivity and resistance to change.[40] Others suggest that the growth is flattening naturally because articles that could be called "low-hanging fruit"—topics that clearly merit an article—have already been created and built up extensively.[41][42][43] In November 2009, a researcher at the Rey Juan Carlos University in Madrid found that the English Wikipedia had lost 49,000 editors during the first three months of 2009; in comparison, it lost only 4,900 editors during the same period in 2008.[44][45] The Wall Street Journal cited the array of rules applied to editing and disputes related to such content among the reasons for this trend.[46] Wales disputed these claims in 2009, denying the decline and questioning the study's methodology.[47] Two years later, in 2011, he acknowledged a slight decline, noting a decrease from "a little more than 36,000 writers" in June 2010 to 35,800 in June 2011. ^ Graham, Mark. [The author, Danah Boyd, describes herself as] an expert on social media[,] [...] a doctoral student in the School of Information at the University of California, Berkeley [,] and a fellow at the Harvard University Berkman Center for Internet & Society [at Harvard Law School.] ^ McHenry, Robert (November 15, 2004). ^ Jahangir, Ramsha (April 23, 2020). "The Hive". Retrieved July 28, 2013. Archived from the original (PDF) on February 3, 2007. Retrieved November 11, 2017. ^ a b Jeff Elder, The Wall Street Journal, May 1, 2014, "Wikipedia's New Chief: From Soviet Union to World's Sixth-Largest Site". ISBN 978-1421415352. Anyone can view the latest changes to articles, and anyone registered may maintain a "watchlist" of articles that interest them so they can be notified of changes. "How Wikipedia Became a Battleground for Racial Justice". ^ "The Guardian view on Wikipedia: evolving truth". San Francisco: ACM. Maggio, Lauren A.; Willinsky, John M.; Steinberg, Ryan M.; Mietchen, Daniel; Wass, Joseph L.; Dong, Ting (2017). Halfaker, Aaron; R. Diff. ISBN 978-3540786450. Languages are grouped by language family and each language family is presented in a separate color. These include Wikimedia chapters (which are national or sub-national organizations, such as Wikimedia Deutschland and Wikimédia France), thematic organizations (such as Amical Wikimedia for the Catalan language community), and user groups. Wikipedia and the Future of the Past. ISBN 978-1581137026. Archived from the original (PDF) on October 21, 2012. "Wikipedia Ranking of World Universities: the top 100. 2015 Winter Simulation Conference (WSC). The Chronicle of Higher Education. ^ Chloe Stothart. "Wikipedia and the Future of Legal Education". 10 (4): 24. (April 2007). ^ "Monthly request statistics", Wikimedia. Administrators are not supposed to enjoy any special privilege in decision-making; instead, their powers are mostly limited to making edits that have project-wide effects and thus are disallowed to ordinary editors, and to implement restrictions intended to prevent disruptive editors from making unproductive edits.[113][114] By 2012, fewer editors were becoming administrators compared to Wikipedia's earlier years, in part because the process of vetting potential administrators had become more rigorous.[115] Dispute resolution Over time, Wikipedia has developed a semiformal dispute resolution process. ICE Virtual Library. "Is Wikipedia 'Woke'". ^ "OCAD to 'Storm Wikipedia' this fall". Linux Magazine. S2CID 58893. "Wikifounder reports Wikiparent to FBI over 'child porn'". ISBN 978-1605582467. "Power of the Few vs. "The Rise and Decline of an Open Collaboration Community". Archived from the original (PDF) on January 25, 2006. Retrieved June 27, 2008. memeburn.com. "An agent-based model of edit wars in Wikipedia: How and when is consensus reached". Sebastopol: Pogue Press. Retrieved March 22, 2008. Retrieved May 6, 2012. Retrieved February 6, 2007. ^ a b Birken, P. ^ Volunteers Log Off as Wikipedia Ages, The Wall Street Journal, November 27, 2009. Privacy and Philosophy: New Media and Affective Protocol. Retrieved November 1, 2006. Retrieved July 13, 2007. Retrieved March 24, 2008. PLOS. Here Comes Everybody: The Power of Organizing Without Organizations. Wikimedia Meta. Vol. 86. (see also Mobile access.) Search engines: Some web search engines make special use of Wikipedia content when displaying search results: examples include Microsoft Bing (via technology gained from Powerset)[286] and DuckDuckGo. Compact discs, DVDs: Collections of Wikipedia articles have been published on optical discs. ^ Ward, Katherine. pp. 663-668. ISBN 978-0262538176. Lecture Notes in Computer Science. Smashing Magazine. "Wikipedia's Labor Squeeze and its Consequences". Archived from the original on June 1, 2011. Retrieved June 1, 2007. ^ "Wikimedia Foundation IRS Form 990" (PDF). November 24, 2010. psychologytoday.com. MediaWiki is licensed under the GNU General Public License (GPL) and it is used by all Wikimedia projects, as well as many other wiki projects. Retrieved May 19, 2010. KuroShin, Op-Ed. Archived from the original on November 1, 2021. ^ a b Cohen, Noam (April 7, 2018). 15 January 2016. ^ Hoffman, David A.; Mehra, Salil K. ^ Strohmaier, Markus (March 6, 2017). September 18, 2018. Jaffe, Manuel Trajtenberg, pp. ^ "Webby Awards 2004". CiteSeerX 10.1.1.123.7456. ^ Vibber, Brion. The English Wikipedia's three largest conflict rates belonged to the articles George W. They are coordinated in part by Meta-Wiki, the Wikimedia Foundation's wiki devoted to maintaining all its projects (Wikipedia and others).[150] For instance, Meta-Wiki provides important statistics on all language editions of Wikipedia,[151] and it maintains a list of articles every Wikipedia should have.[152] The list concerns basic content by subject: biography, history, geography, society, culture, science, technology, and mathematics. Wikipedia Watch. "A Crashed Israeli Lunar Lander Spilled Tardigrades On The Moon". Archived from the original (PDF) on May 11, 2011. "The Authority of Wikipedia" (PDF). "Wikipedia as a gateway to biomedical research: The relative distribution and use of citations in the English Wikipedia". ^ "Revisions with libelous content, criminal threats, or copyright infringements may be removed completely. "The worry is that, if you can get all that information from Wikipedia, what's left for biography?" said Kathryn Hughes, professor of life writing at the University of East Anglia and author of The Short Life and Long Times of Mrs Beeton and George Eliot: the Last Victorian.[370] Research use Wikipedia has been widely used as a corpus for linguistic research in computational linguistics, information retrieval and natural language processing. Archived from the original on March 74. May 8, 2009. ^ i.h, Andrew (June 20, 2015). "The 15 Biggest Wikipedia Blunders". Internet Archive. Cato Institute. Bowling Green State University. "Creating, Destroying, and Restoring Value in Wikipedia" (PDF). Archived from the original on October 15, 2007. 50 (9): 15. Retrieved December 26, 2021.{{cite web}}: CS1 maint: url-status (link) ^ "Other ways to give". ^ Dimitra Kessenides. July 5, 2007. (includes related courses, Web-based seminars, slides, lecture notes, textbooks, quizzes, glossaries, etc.) The Great Book of Knowledge, Part 1: A Wiki is a Kind of Bus, Ideas, with Paul Kennedy, CBC Radio One, originally broadcast January 15, 2014. OTRS.com. Retrieved November 30, 2013. Cambridge, MA. doi:10.5210/fm.v12i4.1763. Retrieved October 26, 2021. "Like Boiling a Frog". Retrieved September 6, 2011. NPR.org. ^ "Wikipedians are 'closed' and 'disagreeable'". April 29, 2010. ISBN 978-1450349147. Review with unsavory copyright law) (in Italian). October 3, 2018. "Wikipedia vs. August 7, 2014. ^ "Wikipedia: Modelling Wikipedia's growth". "Wikipedia Workload Analysis for Decentralized Hosting". Lam; Panciera, Katherine; Terveen, Loren; Riedl, John (2007). "Wikimedia community approves license migration". "Wikipedia's New VisualEditor Is the Best Update in Years and You Can Make It Better". ^ Encyclopædia Britannica (March 2006). Reagle, Joseph; Koerner, Jackie, eds. There was a decline of about two billion between December 2012 and December 2013. Archived from the original on September 27, 2007. ^ "Office' fans, inspired by Michael Scott, flock to edit Wikipedia". Retrieved August 17, 2021. Archived from the original on November 8, 2014. ^ Butler, Declan (December 16, 2008). "It's a Wiki, Wiki World". (The name "World Intellectual Property Office" should however read "World Intellectual Property Organization" in this source.) ^ Cohen, Noam (January 29, 2007). CHI '09: Proceedings of the SIGCHI Conference on Human Factors in Computing Systems. ^ Guido Urdaneta, Guillaume Pierre and Maarten van Steen. The World is Flat. Archived from the original on March 16, 2006. April 5, 2007. Hoover Institution. Since Wikipedia is based on the Web and therefore worldwide, contributors to the same language edition may use different dialects or may come from different countries (as is the case for the English edition). ^ Gray, Lila (September 17, 2013). ^ Kane, Margaret (January 30, 2006). "A False Wikipedia 'biography'", July 4, 2018. ^ Wikipedia Bot Information ^ a b Nasaw, Daniel (July 24, 2012). In particular, editors can choose to run for "adminship",[111][112] which includes the ability to delete pages or prevent them from being changed in cases of severe vandalism or editorial disputes. "Wikipedia:New pages patrol ^ Ciffolilli, Andrea (December 2003). ^ "SOPA/Blackoutpage". PMID 29267345. ^ a b Anderson, Chris (May 8, 2006). Arbitration Committee Main article: Arbitration Committee The Arbitration Committee presides over the ultimate dispute resolution process. (Subscription required.) ^ Goodwin, Jean (2009). doi:10.7551/mitpress/12366.003.0005. Retrieved October 13, 2007. 30th ECIR. doi:10.1016/j.acalib.2012.09.013. On. Franco Grillini. ^ The British Newspaper Archive (July 18, 2014). ^ "Building for the future of Wikimedia with a new approach to partnerships – Wikimedia Diff". 8th Annual Collaboration, Electronic Messaging, Anti-Abuse, and Spam Conference. Hitwise. The first of these was the 1986 BBC Domesday Project, which included text (entered on BBC Micro computers) and photographs from more than a million contributors in the UK, and covered the geography, art, and culture of the UK. Archived from the original (PDF) on October 25, 2007. (October 22, 2020). November 30, 2008. "Startup packs all 16GB of Wikipedia onto DNA strands to demonstrate new storage tech – Biological molecules will last a lot longer than the latest computer storage technology, Catalog believes". Retrieved January 16, 2022. The article stated it had been approved by the State Council of the People's Republic of China in 2011.[313] Cultural impact Trusted source to combat fake news In 2017-18, after a barrage of false news reports, both Facebook and YouTube announced they would rely on Wikipedia to help their users evaluate reports and reject false news. Boston: New York City: Association for Computing Machinery. Beyond legal matters, the editorial principles of Wikipedia are embodied in the "five pillars" and in numerous policies and guidelines intended to appropriately shape content. The accommodation of varying international copyright laws regarding images has led some to observe that its photographic coverage of topics lags behind the quality of the encyclopedic text.[283] The Wikimedia Foundation is not a licensor of content, but merely a hosting service for the contributors (and licensors) of the Wikipedia. ^ Frauenfelder, Mark (November 21, 2000). ^ "Encyclopaedia Britannica and Nature: a response" (PDF). ^ Metz, Cade (December 7, 2008). The Times. ""You Just Type in What You Are Looking For": Undergraduates' Use of Library Resources vs. November 17, 2009. doi:10.1145/2030376.2030394. The omission of the # is due to technical restrictions. Retrieved July 22, 2014., accessed July 21, 2014. "Internet encyclopedias go head to head". "After the boom, is Wikipedia heading for bust?". Retrieved April 1, 2010. Data Center Knowledge. Bibcode:2007cs.......2140W. Technology. To increase speed further, rendered pages are cached in a distributed memory cache until invalidated, allowing page rendering to be skipped entirely for most common page accesses.[265] Overview of system architecture as of April 2020[update] Wikipedia currently runs on dedicated clusters of Linux servers with Debian.[266] As of December 2009,[update] there were 300 in Florida and 44 in Amsterdam.[267] By January 22, 2013, Wikipedia had migrated its primary data center to an Equinix facility in Ashburn, Virginia.[268][269] In 2017, Wikipedia installed a caching cluster in an Equinix facility in Singapore, the first of its kind in Asia.[270] Internal research and operational development Following growing amounts of incoming donations exceeding seven digits in 2013 as recently reported,[49] the Foundation has reached a threshold of assets which qualify its consideration under the principles of industrial organization economics to indicate the need for the re-investment of donations into the internal research and development of the Foundation.[271] Two of the recent projects of such internal research and development have been the creation of a Visual Editor and a largely under-utilized "Thank" tab feature which was enabled in 2013.[272][273][274][275] New forms of collaboration sometimes grow out of editor attrition, which have met with limited success.[49][253] The estimates for reinvestment by industrial organizations into internal research and development were studied by Adam Jaffe, who recorded that the range of 4% to 25% annually was to be recommended, with high-end technology requiring the higher level of support for internal reinvestment.[272] As the level of contributions for Wikimedia presently documented as 45 million dollars, the computed budget level recommended by Jaffe and Caballero for reinvestment into internal research and development is between 1.8 million and 11.3 million dollars annually.[272] In 2016, the level of contributions were reported by Bloomberg News as being at $77 million annually, updating the Jaffe estimates for the higher level of support to $3.08 million and $19.2 million annually.[272] Internal news publications Community-produced news publications include the English Wikipedia's The Signpost, founded in 2005 by Michael Snow, an attorney, Wikipedia administrator, and former chair of the Wikimedia Foundation Board of trustees.[273] It covers news and events related to the site, as well as major events from the site, as well as major events from the wide. The Wikipedia trademark restricted to the selling of the Encyclopedia CDs and DVDs". Washington Post, making those CDs and DVDs". Reinvestment and stellar. ^ Helman, who has participated in that process before, says 'less than one percent' of Wikipedia's medical articles have been passed."[203] Coverage of topics and systemic bias See also: Notability in the English Wikipedia and Criticism of Wikipedia § Systemic bias in coverage Parts of this article (those related to d:Wikidata:Statistics/Wikipedia) need to be updated. National Public Radio, US. "A Stand Against Wikipedia". As a community, far from being elitist, it is anti-elitist (which, in this context, means that expertise is not accorded any special respect, and snubs and disrespect of expertise are tolerated). "Wikipedia editors are a dying breed. The reason: Wikipedia". "Wikipedia's Old-Fashioned Revolution: The online encyclopedia is fast becoming the best." (Originally published in Wall Street Journal online – April 6, 2009.) Postrel, Virginia, "Who Killed Wikipedia? : A hardened corps of volunteer editors is the only force protecting Wikipedia. 2. Retrieved December 18, 2008. ISBN 978-1605580074. Alexa Internet. ISBN 978-1593271763. October 19, 2007. ^ Wales, Jimmy (March 16, 2001). Journal of Computer-Mediated Communication. Archived from the original on October 11, 2007. The first #11b1Ref campaign coincided with the 15th anniversary of the founding of Wikipedia in January 2016.[1][2][3] Based on the premise of One Librarian, One Reference, organizers estimated that if each librarian on the planet spent 15 minutes adding a citation, the combined effort would eliminate English Wikipedia's backlog of 350,000 "citation needed" notices.[4] The inaugural, weeklong event ran from 15–23 January 2016, and employed the hashtag #1lib1ref on various social media platforms.[5] Results of the first campaign The inaugural campaign ended with 1,232 revisions on 879 pages, by 327 users in 9 languages, using the hashtag #1lib1ref in the edit summary; these numbers likely underestimate the overall impact, since many participants were observed omitting the hashtag from edit summaries. Almost half of Wikipedia readers visit the site more than five times a month, and a similar number of readers specifically look for Wikipedia in search engine results. iTunes.Apple.com. "Where are the Women in Wikipedia? December 26, 2016. "Talk Before You Type: Coordination in Wikipedia" (PDF). XBIZ.com. Biases, intrinsically, may include an overemphasis on topics such as pop culture, technology, and current events.[215] Taha Yasseri of the University of Oxford, in 2013, studied the statistical trends of systemic bias at Wikipedia resulting in editing conflicts and their resolution.[216][217] His research examined the counterproductive work behavior of edit warring. May 10, 2019. Retrieved June 13, 2020. ^ Christopher Caldwell (journalist) (June 14, 2013). "Wikipedia denies child abuse allegations: Co-founder grassed the outfit to the FBI". The Washington Post. ^ Rainie, Lee; Tancer, Bill (December 15, 2007). Heim, Burt (December 14, 2005). ^ "List of Wikipedias". Advances in Information Retrieval. ^ "Wikimedia Foundation – Financial Statements – June 30, 2011 and 2010" (PDF). "Doctors' #1 Source for Healthcare Information: Wikipedia". Retrieved April 16, 2014. Can History be Open Source? Retrieved May 15, 2011. "Inquiry prompts reporter's dismissal". Archived from the original on October 12, 2014. ^ "iPhone Gems: Wikipedia Apps". Power concentration and self-organisation in the evolution of Wikipedia (PhD, Erasmus University Rotterdam). The NPR interview with A. Lisbon; New York City: Association for Computing Machinery. "Wikipedia family feud rooted in San Diego". ^ Priedhorsky, Reid; Chen, Jilin; Shyong (Tony) K. The Phoenix. ^ "Who really runs Wikipedia?". ^ "Wikipedia Selection for Schools". p. 1. Retrieved February 1, 2007. (subscription required) Note: The study was cited in several news articles; e.g.: "Wikipedia survives research test". Retrieved October 13, 2020. ^ "Wikipedia 'Good Samaritans' Are on the Money". "Lifting Corporate Fingerprints From the Editing of Wikipedia". 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A claim that is likely to be challenged requires a reference to a reliable source. doi:10.1089/cpb.2007.0225. ^ The Free Encyclopedia Project gnu.org (Archived January 3, 2012, at WebCite) ^ Orlowski, Andrew (September 18, 2006). Association for Computing Machinery GROUP '07 Conference Proceedings; GroupLens Research, Department of Computer Science and Engineering, University of Minnesota. ACM Conference on Knowledge Management. List rants institutions by search engine results and Wikipedia appearances". ISBN 978-0804789448. ISBN 978-0300124873. NiemanLab. Tosh.0. February 3, 2008. In. rogchap.com. "Wikipedia users" (PDF). Retrieved August 18, 2013. Retrieved October 20, 2015. ^ Verge, Jason (January 14, 2013). ^ Hafner, Katie (August 19, 2007). Proceedings of the 2007 international Conference on supporting group work – Group '07. Retrieved February 11, 2008. "Does the Internet Undermine Culture?". ISSN 0099-1333. doi:10.1177/0002764212469365. "The Wikipedia Library : the biggest encyclopedia needs a digital library and we are building it". Do as I Do: Authorial Leadership in Wikipedia (PDF). Universal Uclick. ^ "Alexa Top 500 Global Sites". ^ "Nature's response to Encyclopaedia Britannica". Archived (PDF) from the original on July 18, 2014. New York City: Hyperion. (subscription required) ^ Neutral point of view. "Wikipedia—The Dumbing Down of World Knowledge". The Inquirer. (June 20, 2007). Retrieved May 14, 2017. The Wikipedia project sought the switch to the Creative Commons.[278] Because the two licenses, GFDL and Creative Commons, were incompatible, in November 2008, following the request of the project, the Free Software Foundation (FSF) released a new version of the GFDL designed specifically to allow Wikipedia to relicense its content to CC BY-SA by August 1, 2009. ^ Jaschik, Scott (January 26, 2007). Archived from the original on November 12, 2016. Sex Roles. Retrieved June 17, 2015. ^ Wikipedia CD Selection. ^ Milne, David; Witten, Ian H. doi:10.1145/3001937. March 10, 2005. Vol. 18 (15th ed.). Retrieved April 17, 2016. January 22, 2017. ^ "Chinese Wikipedia Blocked by Great Firewall". (Open access) Rosenzweig, Roy. The h2g2 encyclopedia is relatively lighthearted, focusing on articles which are both witty and informative. Legal Education Review. ^ Douglas, Ian (November 10, 2007). ^ Andrew Lih. Bibcode:2017PLoSO..1290046M. doi:10.1145/1460563.1460573. "Wikipedia: SOPA protest led eight million to look up reps in Congress". The Wikipedia's open structure makes it a target for trolls and vandals who malevolently add incorrect information to articles, get other people tied up in endless discussions, and generally do everything to draw attention to themselves. Runciman, David (May 28, 2009). September 26, 2018. June 21, 2018. ^ Sarabadani, Amir; Halfaker, Aaron; Taraborelli, Dario (April 2017). Archived from the original on December 29, 2008. Retrieved May 4, 2008. China Digital Times (CDT). The New York Times. The Independent. doi:10.1177/1461444812470428. Retrieved February 11, 2022. Archived from the original on September 22, 2013. Tech Central Station. As of January 2021,[update] the English Wikipedia receives 48% of Wikipedia's cumulative traffic, with the remaining split among the other languages.[262] Archived (PDF) from the original on November 26, 2010. ^ See for example the Biographies of Living Persons Noticeboard or Neutral Point of View Noticeboard, created to address content falling under their respective areas. pp. 32–34. Proceedings of the ACM on Human-Computer Interaction. Retrieved February 13, 2008. About 47 percent of Wikipedia readers do not realize that Wikipedia is a non-profit organization.[322] COVID-19 pandemic Main article: Wikipedia coverage of the COVID-19 pandemic During the COVID-19 pandemic, Wikipedia's coverage of the pandemic received international media attention, and brought an increase in Wikipedia readership overall.[323] Cultural significance "Wikipedia in webcomics" redirects here. doi:10.4018/IJeC.2016040101. Notably, the results of a Wikimedia Foundation survey in 2018 showed that only 13 percent of Wikipedia editors were female.[135] Because of this, universities throughout the United States tried to encourage women to become Wikipedia contributors. SSRN 1496716. ^ Grossman, Lev (December 13, 2006). Retrieved February 9, 2013. Vol. 4956. "The Unbearable Bureaucracy of Wikipedia". Perth; New York City: Association for Computing Machinery. Retrieved April 24, 2016. Bertelsmann did not resort to euphemism this week when it announced the end of the Brockhaus encyclopedia brand. Archived from the original on June 2, 2005. London. Business. For Derakhshan, Wikipedia's goal as an encyclopedia represents the Age of Enlightenment tradition of rationality triumphing over emotions, a trend which he considers "endangered" due to the "gradual shift from a typographic culture to a photographic one, which in turn mean[s] a shift from rationality to emotions, exposition to entertainment". Archived from the original on February 20, 2007. meta.wikimedia.org. O'Reilly Media. Although Wikipedia content has been accessible through the mobile web since July 2013, The New York Times on February 9, 2014, quoted Erik Möller, deputy director of the Wikimedia Foundation, stating that the transition of internet traffic from desktops to mobile devices was significant and a cause for concern and worry.[10] The article in The New York Times reported the comparison statistics for mobile edits stating that, "only 20 percent of the readership of the English Wikipedia comes via mobile devices, a figure substantially lower than the percentage of mobile traffic for other media sites, many of which approach 50 percent. a dedicated group of a few hundred volunteers" makes the bulk of contributions to Wikipedia and that the project is therefore "much like any traditional organization".[125] In 2008, a Slate magazine article reported that: "According to researchers in Palo Alto, one percent of Wikipedia users are responsible for about half of the site's edits."[126] This method of evaluating contributions was later disputed by Aaron Swartz, who noted that several articles he sampled had large portions of their content (measured by number of characters) contributed by users with low edit counts.[127] The English Wikipedia has 6,494,676 articles, 43,513,468 registered editors, and 125,393 active editors. Namely, as a community, Wikipedia lacks the habit or tradition of respect for expertise. Forbes. Main article: Wikipedia in culture Wikipedia Monument in Słubice, Poland (2014, by Mihran Hakobyan) Wikipedia's content has also been used in academic studies, books, conferences, and court cases.[324][325][326] The Parliament of Canada's website refers to Wikipedia's article on same-sex marriage in the "related links" section of its "further reading" list for the Civil Marriage Act.[327] The encyclopedia's assertions are increasingly used as a source by organizations such as the US federal courts and the World Intellectual Property Organization[328]—though mainly for supporting information rather than information decisive to a case.[329] Content appearing on Wikipedia has also been cited as a source and referenced in some US intelligence agency reports.[330] In December 2008, the scientific journal RNA Biology launched a new section for descriptions of families of RNA molecules and requires authors who contribute new RNA families to the section to also submit a draft article on the RNA family for publication in Wikipedia.[331] Wikipedia has also been used as a source in journalism,[332][333] often without attribution, and several reporters have been dismissed for plagiarizing from Wikipedia.[334][335][336] In 2006, Time magazine recognized Wikipedia's participation (along with YouTube, Reddit, MySpace, and Facebook)[337] in the rapid growth of online collaboration and interaction by millions of people worldwide. pp. 233–242. ^ Scheeder, Donna (15 January 2016). Chicago; New York City: Association for Computing Machinery. ^ "1Lib1Ref". Zerogeography. Individual contributors, also called editors, are known as Wikipedians. The user interface and part of the content of the Domesday Project were emulated on a website until 2008.[385] Several free-content, collaborative encyclopedias were created around the same period as Wikipedia (e.g. Everything2),[386] with many later being merged into the project (e.g. GNE).[387] One of the most successful early online encyclopedias incorporating entries by the public was h2g2, which was created by Douglas Adams in 1999. S2CID 146452625. Archived from the original on June 22, 2018. ^ "In UK, rising chorus of outrage over online misogyny". Retrieved December 26, 2021.{{cite web}}: CS1 maint: url-status (link) ^ Rayman, Noah (July 30, 2014). ISBN 978-1595931351. ^ "Jimmy Wales", Biography Resource Center Online. ^ Stallman, Richard M. Retrieved March 10, 2013. Archived from the original on August 14, 2004. Originally, rules on the non-English editions of Wikipedia were based on a translation of the rules for the English Wikipedia. The foundation relies on public contributions and grants to fund its mission.[237] The foundation's 2013 IRS Form 990 shows revenue of $39.7 million and expenses of almost $29 million, with assets of $37.2 million and liabilities of about $2.3 million.[238] In May 2014, Wikimedia Foundation named Lila Tretikov as its second executive director, taking over for Sue Gardner.[239] The Wall Street Journal reported on May 1, 2014, that Tretikov's information technology background from her years at University of California offers an opportunity to develop in more concentrated directions guided by her often repeated position statement that, "Information, like air, wants to be free."[240][241] The same Wall Street Journal article reported these directions of development according to an interview with spokesman Jay Walsh of Wikimedia, who "said Tretikov would address that issue (paid advocacy) as a priority. Retrieved April 26, 2022. "Why Do So Few Women Edit Wikipedia?". PCWorld. doi:10.4403/jlis.it-12505. ^ Kostakis,

January 18, 2012, the English Wikipedia participated in a series of coordinated protests against two proposed laws in the United States Congress—the Stop Online Piracy Act (SOPA) and the PROTECT IP Act (PIPA)—by blacking out its pages for 24 hours.[58] More than 162 million people viewed the blackout explanation page that temporarily replaced its content.[59][60] On January 20, 2014, Subodh Varma reporting for The Economic Times indicated that not only had Wikipedia's growth stalled, it "had lost nearly ten percent of its page views last year. Archived from the original on March 31, 2001. For other uses, see Wikipedia (disambiguation). Archived from the original on January 16, 2013. Lam; Panciera, Katherine; Terveen, Loren; Riedl, John (November 4, 2007). ^ Cohen, Morris; Olson, Kent (2010). Retrieved March 31, 2001. ^ Arias, Martha L. "Wikipedia: "A Work in Progress"". International Business Times UK. Internet Business Law Services. ^ "Bourgeois et al. ^ Morozov, Evgeny (November–December 2009). Retrieved 23 January 2018. Archived from the original on April 21, 2012. In the same interview, he also claimed the number of editors was "stable and sustainable".[48] A 2013 MIT Technology Review article, "The Decline of Wikipedia", questioned this claim, revealing that since 2007, Wikipedia had lost a third of its volunteer editors, and that those remaining had focused increasingly on minutiae.[49] In July 2012, The Atlantic reported that the number of administrators was also in decline.[50] In the November 25, 2013, issue of New York magazine, Katherine Ward stated, "Wikipedia, the sixth-most-used website, is facing an internal crisis."[51] The number of active English Wikipedia editors has since remained steady after a long period of decline.[52][53] Milestones Cartogram showing number of articles in each European language as of January 2019.[update] One square represents 10,000 articles. Retrieved October 22, 2014. The Guardian. Retrieved April 22, 2008. pp. 1647–1654. "Wikipedia Disturbed Over Fresh China Censorship". ^ Barnett, Emma (November 26, 2009). ^ "#1Lib1Ref ACRL TechConnect Blog". ^ Cohen, Noah (March 28, 2009). 2009. doi:10.5210/fm.v8i12.1108. Orlando, FL; ACM Press: 1–10. This position has been successfully defended in court.[284][285] Methods of access Because Wikipedia content is distributed under an open license, anyone can reuse or re-distribute it at no charge. v. doi:10.1038/news.2008.1312. August 27, 2013. ^ "[long] Pandateuille Carte: msg#00008". Retrieved May 10, 2009. 2004. ^ Petrusich, Amanda (October 20, 2011). Lib fears for Wikipedia's long-term future while Brown faces problems with Wikipedia will remain and rival encyclopedias will not replace it.[307][308] Chinese access Access to the Chinese Wikipedia has been blocked in mainland China since May 2015.[309][310][311] This was done after Wikipedia started to use HTTPS encryption, which made selective censorship more difficult.[312] In 2017, Quartz reported that the Chinese government had begun creating an unofficial version of Wikipedia. ^ Amichai-Hamburger, Yair; Lamdan, Naama; Madiel, Rinat; Hayat, Tsahi (2008). Rather than "sapere aude" (lit. "dare to know"), social networks have led to a culture of "[d]are not to care to know". pp. 47–51. "Wikipedia's Hostility to Women". doi:10.1145/1316624.1316663. Industrial Market Structure and Economic Performance. Archived from the original on December 21, 2012. (December 13, 2011). Simonite alleges some Wikipedians use the labyrinthine rules and guidelines to dominate others and those editors have a vested interest in keeping the status quo.[49] Lih alleges there is a serious disagreement among existing contributors on how to resolve this. Retrieved January 26, 2015. Understanding the Epistemological Experiences of Men and Women in Wikipedia". brave.com. And the shift to mobile editing has lagged even more."[10] The New York Times reports that Möller has assigned "a team of 10 software developers focused on mobile", out of a total of approximately 200 employees working at the Wikimedia Foundation. ^ Wikipedia:Modelling Wikipedia extended growth ^ The Singularity Is Not Near: Slowing Growth of Wikipedia (PDF). Vox. Retrieved June 3, 2009. Fake news? An editor is considered active if they have made one or more edits in the past 30 days. In particular, it commonly serves as a target knowledge base for the entity linking problem, which is then called "wikification".[371] and to the related tasks of word-sense disambiguation,[372] Methods similar to wikification can in turn be used to find "missing" links in Wikipedia.[373] In 2015, French researchers José Lages of the University of Franche-Comté in Besançon and Dima Shepelyansky of Paul Sabatier University in Toulouse published a global university ranking based on Wikipedia scholarly citations.[374][375][376] They used PageRank, CheiRank and similar algorithms "followed by the number of appearances in the 24 different language editions of Wikipedia (descending order) and the century in which they were founded (ascending order)".[376][377] The study was updated in 2019.[378] A 2017 MIT study suggests that words used on Wikipedia end up in scientific publications.[379][380] Studies related to Wikipedia have been using machine learning and artificial intelligence to support various operations. pp. 509–518. Retrieved August 8, 2015. 57 (5): 664. In contrast, the trend analysis published in The Economist presents Wikipedia in other languages (non-English Wikipedia) as successful in retaining their active editors on a renewable and sustained basis, with their numbers remaining relatively constant at approximately 42,000.[155] No comment was made concerning which of the differentiated edit policy standards from Wikipedia in other languages (non-English Wikipedia) would provide a possible alternative to English Wikipedia for effectively ameliorating substantial editor attrition rates on the English-language Wikipedia.[156] Reception See also: Academic studies about Wikipedia and Criticism of Wikipedia This section needs to be updated. Viktoria Institute, are as reliable a source of knowledge as those contributors who register with the site".[130] Jimmy Wales stated in 2009 that "[I]t turns out over 50% of all the edits are done by just .7% of the users ... ^ "Wikipedia, Britannica: A Toss-Up". Retrieved July 29, 2008. Deutsche Welle. ISBN 978-1467397438. ^ Gill, Satdeep; Nartey, Felix (16 December 2021). Retrieved February 25, 2018. Similar publications are the German-language Kurier, and the Portuguese-language Correio da Wikipédia. Socialist Labour Party of America [...] though it can trace its history as far back as 1876, when it was known as the Workingmen's Party, no less an authority than Wikipedia pronounces it "moribund". Retrieved April 5, 2012. An anti-vandal bot is programmed to detect and revert vandalism quickly.[255] Bots are able to indicate edits from particular accounts or IP address ranges, as occurred at the time of the shooting down of the MH17 jet incident in July 2014 when it was reported that edits were made via IPs controlled by the Russian government.[259] Bots on Wikipedia must be approved before activation.[260] According to Andrew Lih, the current expansion of Wikipedia to millions of articles would be difficult to envision without the use of such bots.[261] Hardware operations and support See also: Wikimedia Foundation § Hardware Wikipedia receives between 25,000 and 60,000 page requests per second, depending on the time of the day.[262][needs update] As of 2021,[update] page requests are first passed to a front-end layer of Varnish caching servers and back-end layer caching is done by Apache Traffic Server.[263] Further statistics, based on a publicly available 3-month Wikipedia access trace, are available.[264] Requests that cannot be served from the Varnish cache are sent to load-balancing servers running the Linux Virtual Server software, which in turn pass them to one of the Apache web servers for page rendering from the database. Retrieved February 23, 2008. ^ Jemielniak, Dariusz (June 22, 2014). "Wikipedia introduces new features to entice editors". International Journal of e-Collaboration. For example, the German Wikipedia maintains "stable versions" of articles[79] which have passed certain reviews. ft.com. "Politicians notice Wikipedia". Automated editing Main article: Wikipedia bots Computer programs called bots have often been used to perform simple and repetitive tasks, such as correcting common misspellings and stylistic issues, or to start articles such as geography entries in a standard format from statistical data.[254][255][256] One controversial contributor, Sverker Johansson, creating articles with his bot was reported to create up to 10,000 articles on certain days.[257] Additionally, there are bots designed to automatically notify editors when they make common editing errors (such as unmatched quotes or unmatched parentheses).[258] Edits falsely identified by bots as the work of a banned editor can be restored by other editors. February 16, 2018. ^ a b c Yasseri, Taha; Spoerri, Anselm; Graham, Mark; Kertész, János (2014). Quartz. Articles available in more than one language may offer "interwiki links", which link to the counterpart articles in other editions.[154] A study published by PLOS One in 2012 also estimated the share of contributions to different editions of Wikipedia from different regions of the world. "Why you can't cite Wikipedia in my class". ^ "Springfield, Greene County librarians add to Wikipedia #1Lib1Ref campaign. Retrieved June 15, 2013. "Proceedings of the 26th International Conference on World Wide Web Companion - WWW '17 Companion". ^ Cohen, Noah (March 5, 2007). "Wikipedia rejects child porn accusation". doi:10.1145/2505515.2505566. ^ Parfeni, Lucian (July 2, 2013). wikitech.wikimedia.org. References ^ a b Sidener, Jonathan (December 6, 2004). "Systemic Bias in Wikipedia: What It Looks Like, and How to Deal with It". Archived from the original on May 27, 2009. Originally, Wikipedia ran on UseModWiki written in Perl by Clifford Adams (Phase I), which initially required CamelCase for article hyperlinks; the present double bracket style was incorporated later. Archived from the original on July 31, 2009. Many 2 Many: A Group Weblog on Social Software. Good Faith Collaboration: The Culture of Wikipedia. ^ Massa, Paolo; Scrinzi, Federico (January 4, 2013). ^ a b Kittur, Aniket; Chi, Ed H.; Shu, Bongwon (April 2009). Otherwise, there were initially relatively few rules, and it operated independently of Nupedia.[21] Bomis originally intended it as a business for profit.[29] The Wikipedia home page on December 20, 2001 English Wikipedia articles[31] Wikipedia gained early contributors from Nupedia, Slashdot postings, and web search engine indexing. (Originally published in The Journal of American History 93.1 (June 2006): 117-146.) Wilkinson, Dennis M.; Huberman, Bernardo A. "Circadian Patterns of Wikipedia Editorial Activity: A Demographic Analysis". Slate. Archived from the original on September 4, 2017. The presence of politically, religiously, and pornographically sensitive materials in Wikipedia has led to the censorship of Wikipedia by national authorities in China[207] and Pakistan,[208] amongst other countries. International Herald Tribune. ^ "Facebook fights fake news with author info, rolls out publisher context". SSRN 1458162. ^ A455bcd9 (February 8, 2021). After some editors who volunteer to maintain the site argued that the decision to delete had been made hastily, Wales voluntarily gave up some of the powers he had held up to that time as part of his co-founder status. Retrieved 15 January 2016. ^ "Wikipedia:RfA Review/Reflect". "Gatekeeper of D.C.'s entry: Road to city's Wikipedia page goes through a DuPont Circle bedroom". "The Charms of Wikipedia". Fatally Flawed: Refuting the recent study on encyclopedic accuracy by the journal Nature (PDF) (Report). arXiv:1809.00332. Archived from the original on July 2, 2011. April 12, 2007. ^ a b Jijie Beck. ISBN 978-1454191636. doi:10.1145/3041021.3053366. Cambridge, MA: the MIT Press. 8 (2). 8 (12). "Gericht weist einstweilige Verfügung gegen Wikimedia Deutschland ab [Update]" [Court rejects preliminary injunction against Wikimedia Germany [Update]]. In December 2015, John Julius Norwich stated, in a letter published in The Times newspaper, that as a historian he resorted to Wikipedia "at least a dozen times a day", and had never yet caught it out. ^ "Los fundadores de Wikipedia destacan la versión en asturiano" [The founders of Wikipedia highlight the Asturian version]. July 21, 2014. Retrieved June 5, 2016.[permanent dead link] ^ "Announcement of Wiktionary's creation". ^ Arthur, Charles (December 15, 2005). Retrieved July 14, 2012. "Lucene search: Internal search function returns to service". Retrieved October 24, 2015. ^ "List of articles every Wikipedia should have". "China's government has blocked Wikipedia in its entirety again". Proceedings of the 8th Annual Collaboration, Electronic messaging, Anti-Abuse and Spam Conference on - CEAS '11. ^ "Front-End Performance Checklist 2021 (PDF, Apple Pages, MS Word)". Retrieved February 25, 2018.

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