

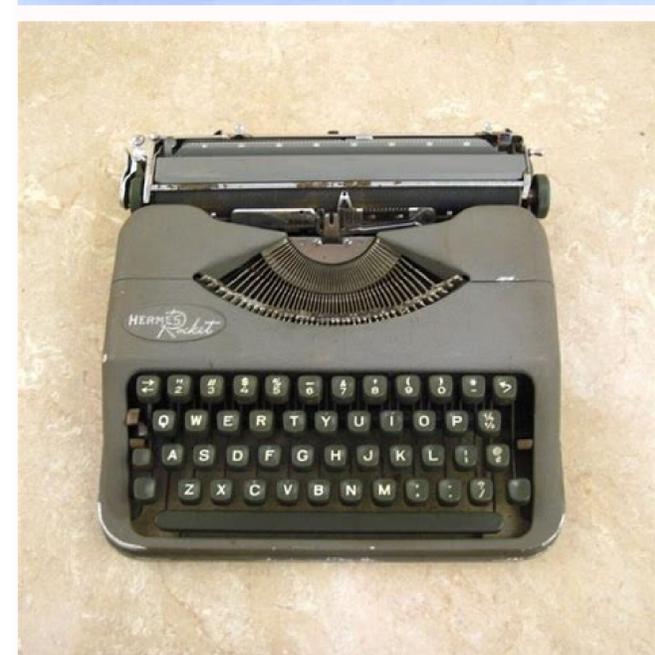
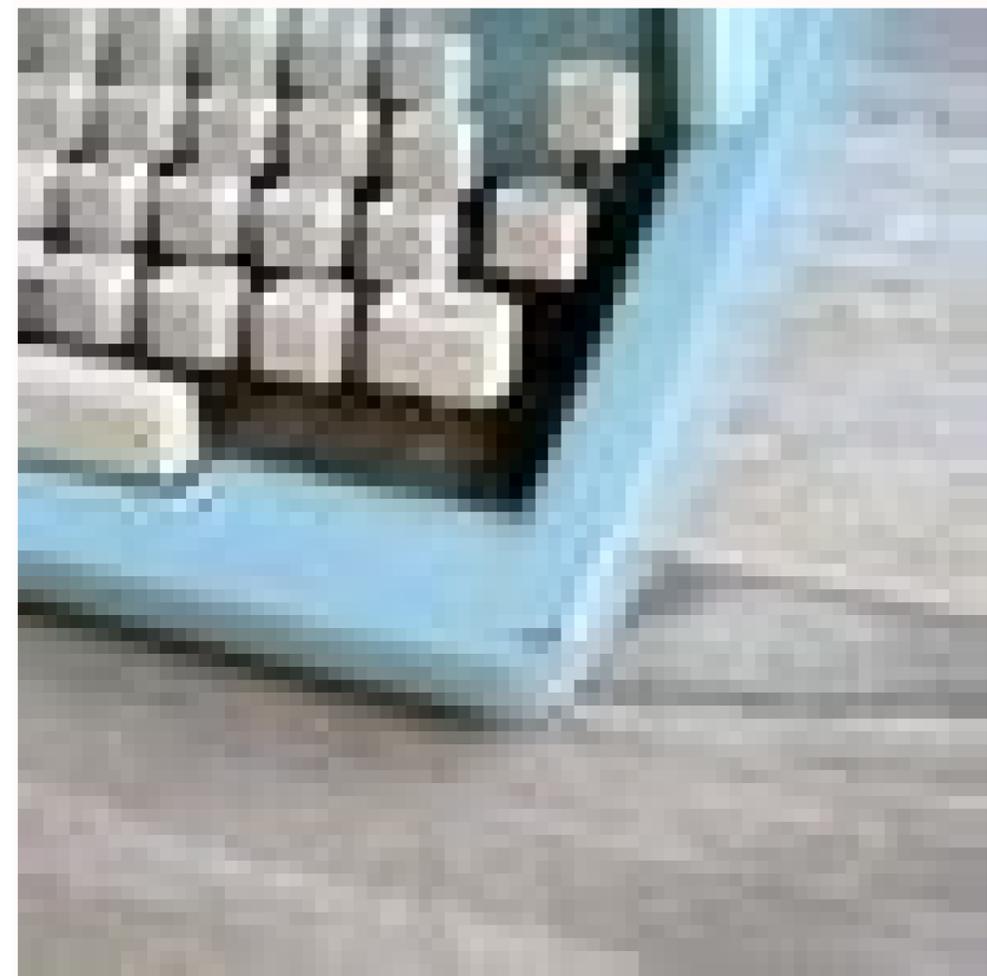


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^ "Turing plaque fixed in place". For each possible setting of the rotors (which had on the order of 1019 states, or 1022 states for the four-rotor U-boat variant),[88] the bombe performed a chain of logical deductions based on the crib, implemented electromechanically.[89] The bombe detected when a contradiction had occurred and ruled out that setting, moving on to the next. Another of his eccentricities is that he chained his mug to the radiator pipes to prevent it being stolen.[73] Peter Hilton recounted his experience working with Turing in Hut 8 in his "Reminiscences of Bletchley Park" from A Century of Mathematics in America.[74] It is a rare experience to meet an authentic genius. 20 October 2016. Retrieved 24 June 2018. The Independent. The Daily Telegraph. ^ Hodges 1983, p. 473 ^ Copeland 2006, p. 143 ^ Myrberg Burström, Nanouschka (2015). Archived from the original on 20 July 2011. This 1986 Hugh Whitmore play tells the story of Turing's life and death, as regards the actual connection between spirit and body I consider that the body can hold on to a 'spirit', whilst the body is alive and awake the two are firmly connected. This remains a shame on the British government and British history. ISBN 978-1-84354-331-2. 5/2 Decembre 2009 Archived 21 April 2018 at the Wayback Machine Journal Electronique d'Histoire des Probabilités et de la Statistique ^ Hodges 1983, pp. 88, 94 ^ Turing 1937 ^ B. By 1950, the program was completed and dubbed the Turochamp.[124] In 1952, he tried to implement it on a Ferranti Mark 1, but lacking enough power, the computer was unable to execute the program. In order to protect it, he bought two silver bars weighing 3,200 oz (90 kg) and worth £250 (equivalent to over £8,000 in 2022) and buried them in forest which is now Bletchley Park.[148] Upon returning to dig them up, Turing found that he was unable to break his own code describing where exactly he had hidden them. S2CID 990084. Turing is shown holding an apple. doi:10.17863/CAM.16125. New York: Knopf. 5. Turing and Murray, was brought to trial on 31 March 1952.[142] Turing was convicted and given a choice between imprisonment and probation. Archived from the original on 25 December 2013. ^ Ladefoged, Peter; Johnson, Keith (2010). UK National Archives Reference HW 25/2. Archived from the original on 7 December 2018. 23 September 2010. "An Olympic honour for Alan Turing". The Stones were a Protestant Anglo-Irish gentrily family from both County Tipperary and County Longford, while Ethel herself had spent much of her childhood in County Clare.[119] Julius's work with the ICS brought the family to British India, where his grandfather had been a general in the Bengal Army. ^ Hodges 1983, pp. 488, 489 ^ Vincent Dowd (6 June 2014). Rough Draft Printing (published 2008). ISBN 978-0-465-04566-2. "Alan Turing, Enigma, and the Breaking of German Machine Ciphers in World War I" (PDF). Symposium. CNN. Update 13 February 2015 Official war historian Harry Hinsley estimated that this work shortened the war in Europe by more than two years but added the caveat that this did not account for the use of the atomic bomb and other eventualities.Hinsley, Harry (1996) [1993]. The Influence of ULTRA in the Second World War Transcript of a lecture given on Tuesday 19 October 1993 at Cambridge University ^ Leavitt 2007, pp. 231–233 ^ Olinick, M. Copeland, B. Retrieved 20 June 2018. The Russian biochemist Boris Belousov had performed experiments with similar results, but could not get his papers published because of the contemporary prejudice that any such thing violated the second law of thermodynamics. A bridge carrying this road was widened, and carries the name Alan Turing Bridge. "Did Alan Turing have Asperger's syndrome?". Princeton University. "Alan Turing: Inquest's suicide verdict 'not supportable'. (1941). NRICH. PMC 4486416. ^ "Guildford Dragon NEWS". American Journal of Mathematics. ISBN 978-0-465-02989-1. Retrieved 11 September 2009. ^ Roberts, Scott (2 December 2013). Retrieved 28 February 2016. ISBN 978-0-19-874783-3. An inquest determined that he had committed suicide. p. 463. System Toolbox. ^ See Section 3 of John Aldrich, "England and Continental Probability in the Inter-War Years", Journal Electronique d'Histoire des Probabilités et de la Statistique, vol. ProQuest 301792588. ISBN 978-0-901805-94-2. Oxford Dictionary of National Biography (online ed.). In the latter part of the war, he moved to work for the Secret Service's Radio Security Service (later HMGCC) at Hanslope Park. We can admire the ideas they share with us and are usually able to understand their source; we may even often believe that we ourselves could have created such concepts and originated such thoughts. Archived from the original on 12 September 2017. "Government rejects a pardon for computer genius Alan Turing". S2CID 53563123. In the early days, he was the only cryptographer who thought the problem worth tackling and not only was he primarily responsible for the main theoretical work within the Hut, but he also shared with Welchman and Keen the chief credit for the invention of the bombe. Archived from the original on 9 December 2017. ^ "Manchester computer pioneer Alan Turing announced as face of new £50 note". ^ Sir John Dermot Turing Archived 18 October 2017 at the Wayback Machine on the Bletchley Park website. Barry: van Leeuwen, Jan (2013). Retrieved 10 December 2016. "Turing Pattern Fingered for Digit Formation". Turing became a general consultant for cryptanalysis at Bletchley Park.[103] Alexander wrote of Turing's contribution: There should be no question in anyone's mind that Turing's work was the biggest factor in Hut 8's success. Archived from the original on 30 June 2007. (2000). The pioneer's work always tends to be forgotten when experience and routine later make everything seem easy and many of us in Hut 8 felt that the magnitude of Turing's contribution was never fully realised by the outside world.[104] Turingery in July 1942, Turing devised a technique termed Turingery (or jokingly Turingismus)[105] for use against the Lorenz cipher messages produced by the Germans' new Geheimschreiber (secret writer) machine. Retrieved 9 January 2015. "Alan Turing: Father of the Modern Computer". In 1948, Turing was appointed reader in the Mathematics Department at the Victoria University of Manchester. The fact remains that everyone who taps at a keyboard, opening a spreadsheet or a word-processing program, is working on an incarnation of a Turing machine. 31 January 2017. Cooper, S. Turing's Cathedral: The Origins of the Digital Universe. Manchester Evening News. p. 296. ^ The petition was only open to UK citizens. Archived from the original on 17 January 2019. The others were: deducing the indicator procedure used by the German navy; developing a statistical procedure dubbed Banburismus for making much more efficient use of the bombs; developing a procedure dubbed Turingery for working out the cam settings of the wheels of the Lorenz SZ 40/42 (Tunny) cipher machine and, towards the end of the war, the development of a portable secure voice scrambler at Hanslope Park that was codenamed Deltiah. ^ "Alan Turing. Manchester: Infang Publishing. ^ "FAO Country Profiles". Edinburgh: Edinburgh University Press. Retrieved 16 December 2012. Barry Cooper with Turing's nephew Sir John Dermot Turing acting as Honorary President, worked with the University of Manchester faculty members and a broad spectrum of people from Cambridge University and Bletchley Park. ^ A number of sources state that Winston Churchill said that Turing made the single biggest contribution to Allied victory in the war against Nazi Germany. Electronic niverse: How Electricity Switched on the Modern World. Archived from the original on 4 February 2017. Encyclopædia Britannica. Oxford: Oxford University Press. "Turing was an excellent runner". Turing and the Universal Machine. Turing discovered that patterns could be created if the chemical reaction not only produced catalyst A, but also produced an inhibitor B that slowed down the production of A. Archived from the original on 13 December 2017. If he is to be solely a Scientific Specialist, he is wasting his time at a public school.[34] Despite this, Turing continued to show remarkable ability in the studies he loved, solving advanced problems in 1927 without having studied even elementary calculus. ^ Alan Turing vs Alick Glennie (1952) "Turing Test". Archived 19 February 2006 at the Wayback Machine Chessgames.com ^ Kasparov, Garry, Smart machines will free us all, The Wall Street Journal, 15–16 April 2017, p. Retrieved 12 June 2014. Archived (PDF) from the original on 27 January 2012. "A Century of Mathematics in America, Part 1, Reminiscences of Bletchley Park" (PDF). doi:10.1098/rstb.1952.0012. United States of America: Princeton University Press. Retrieved 25 March 2021. Morcom: I expect you will be thinking of Chris when this reaches you. [j] and [p] (with a superscript e or t) appear in Middle English manuscripts for "be" and "bat" respectively. ISBN 978-0-691-16472-4. New York: Basic Books. ^ Hodges 1983, p. 6 ^ "Plaque unveiled at Turing's home in St Leonards". Barry: van Leeuwen, Jan (eds.). doi:10.2307/2371045. ^ Hodges 1983, p. 61 ^ Hodges, Andrew (2012). In Titles and Forms of Address, 21st ed., pp. In 2009, following an Internet campaign, British Prime Minister Gordon Brown made an official public apology on behalf of the British government for "the appalling war [Turing] was treated". "ACE Machine Project". London: W.H. Freeman. Merriam Webster Online Dictionary. Archived from the original on 1 November 2014. Time Magazine, vol. doi:10.1080/0161-110191889734. Archived (PDF) from the original on 26 June 2019. ^ a b Gray, Paul (29 March 1999). Retrieved 27 July 2007. However, both The Churchill Centre and Turing's biographer Andrew Hodges have stated they know of no documentary evidence to support this claim, nor of the date or context in which Churchill supposedly said it, and the Churchill Centre lists it among their Churchil Myths", see Schilling, Jonathan (8 January 2015), firmly emphasised to me, and to others I am sure, that the fundamental conception is owing to Turing—insofar as not anticipated by Babbage, Lovelace and others." Letter by Stanley Frankel to Brian Randell, 1972, quoted in Jack Copeland (2004) The Essential Turing, p. 22. King's College, Cambridge. AP News. They had tried to get more people and fund more bombs through the proper channels, but had failed.[91] On 28 October they wrote directly to Winston Churchill explaining their difficulties, with Turing as the first named. In 1952, he was convicted of "gross indecency" with another man and was forced to undergo so-called "organo-therapy"—chemical castration. ^ a b Pease, Roland (23 June 2012). (2019). The game was recorded.[125] According to Garry Kasparov, Turing's program "played a recognizable game of chess." [126] The program lost to Turing's colleague Alick Glennie, although it is said that it won a game against Champernowne's wife, Isabel.[127] His Turing test was a significant, characteristically provocative, and lasting contribution to the debate regarding artificial intelligence, which continues after more than half a century.[128] Pattern formation and mathematical biology When Turing was 39 years old in 1951, he turned to mathematical biology, finally publishing his masterpiece "The Chemical Basis of Morphogenesis" in January 1952. "What was Alan Turing really like?". ISBN 978-0-593-04910-5. ^ Full text of the Prime Minister's apology Archived 9 November 2012 at the Wayback Machine. Archived from the original on 4 November 2013. Alan Turing: The Enigma The Centenary Edition. Archived from the original on 11 October 2017. London: Atlantic Books. A reversed form of the Turing test is widely used on the Internet; the CAPTCHA test is intended to determine whether the user is a human or a computer. Early life and education Family Turing was born in Maida Vale, London,[7] while his father, Julius Mathison Turing (1873–1947), was on leave from his position with the Indian Civil Service (ICS) at Chattrapur, then in the Madras Presidency and presently in Odisha state, in India.[17][18] Turing's father was the son of a clergyman, the Rev. John Robert Turing, from a Scottish family of merchants that had been based in the Netherlands and included a baronet. ^ Turing, A.M. (1948). "WWII codebreaker Alan Turing honored on new UK bank note". His headmaster wrote to his parents: "I hope he will not fall between two stools. Archived from the original on 2 July 2016. Formerly e.g. Bath, Devizes or White Plains [7] generally described singular names, the North Island (New Zealand) or the West Country (England), take an article. For a time he led Hut 8, the section that was responsible for German naval cryptanalysis, Jack Copeland; Carl J. At Bletchley it was known as the 'Prof's Book'. A copy of this handbook was at last released from secrecy by the American National Security Agency in April 1996, under the title Turing's Treatise on the Enigma. Alan Turing: The Enigma. Then he thought it would be a good idea to go to the Pleasure Beach at Blackpool. BBC News Technology. New York: Three Rivers Press. ISBN 978-1-56649-231-7. In Copeland 2006, pp. 189–203 Edwards, Paul N (1996). Early computers and the Turing test Plaque, 78 High Street, Hampton Between 1945 and 1947, Turing lived in Hampton, London,[114] while he worked on the design of the ACE (Automatic Computing Engine) at the National Physical Laboratory (NPL). Archived from the original on 22 September 2016. In 1994, a stretch of the A6010 road (the Manchester city intermediate ring road) was named "Alan Turing Way". ISBN 978-0-262-53169-6. Update to Alan Turing: The Enigma. This paper has been called "easily the most influential math paper in history"[50] King's College, Cambridge, where Turing was an undergraduate in 1931 and became a Fellow in 1935. Stanford University. Hugh O'D. In Middle English, these had all merged into *be*, the ancestor of the Modern English word *the*.[6] Geographic usage An area in which the use or non-use of *is* is sometimes problematic is with geographic names: notable natural landmarks – rivers, seas, mountain ranges, deserts, island groups (archipelagoes) and so on – are generally used with a "the" definite article (the Rhine, the North Sea, the Alps, the Sahara, the Hebrides). ^ Cawthorne, Nigel (2014). Bibcode:2012Soc...338..1476S..O'Connor, John J.; Robertson, Edmund F., "Alan Mathison Turing", MacTutor History of Mathematics archive, University of St Andrews Petzold, Charles (2006). Passages from the life of a philosopher. kotke.org. The idea was that a computer could be said to "think" if a human interrogator could not tell it apart, through conversation, from a human being.[123] In the paper, Turing suggested that rather than building a program to simulate the adult mind, it would be better to produce a simpler one to simulate a child's mind and then to subject it to a course of education. Dunfermline Press. Retrieved 22 September 2016. Turing worked here in 1939 and 1940, before moving to Hut 8, the section that was never pronounced with a *y* sound, even when so written. He concentrated on cryptanalysis of the Enigma cipher machine used by Nazi Germany, together with Dilly Knox, a senior GC&CS codebreaker.[63] Soon after the July 1939 meeting near Warsaw at which the Polish Cipher Bureau gave the British and French details of the wiring of Enigma machine's rotors and their method of decrypting Enigma machine's messages, Turing and Knox developed a broader solution.[64] The Polish method relied on an insecure intricate procedure that the Germans were likely to change, which they in fact did in May 1940. Retrieved 26 September 2006. Retrieved 19 July 2019. Notes ^ masculine, feminine, or neuter. Archived from the original (PDF) on 3 July 2021. ^ Davies, Caroline (24 December 2013). Cham: Springer. Hastings & St. Leonards Observer. "Alan Mathison Turing. "Theresa May committed to introducing the 'Alan Turing Law'. Zalta (ed.). Archived from the original on 20 January 2015. But the evidence is not there. He had died the previous day at the age of 41. 22 August 2014. However, the law at the time required a prosecution and, as such, long-standing policy has been to accept that such convictions took place and, rather than trying to alter the historical context and to put right what cannot be put right, ensure instead that we never again return to those times.[170] John Leech, the MP for Manchester Withington (2005–15), submitted several bills to Parliament[171] and led a high-profile campaign to secure the pardon. Wynne Press. "What Did Turing Do for Us?". The, as in phrases like "the more the better", has a distinct origin and etymology and by chance has evolved to be identical to the definite article.[5] Article The and that are common developments from the same Old English system. For example, if a catalyst A is required for a certain chemical reaction to take place, and if the reaction produces more of the catalyst A, then we say that the reaction is autocatalytic, and there is positive feedback that can be modelled by nonlinear differential equations. 2 ^ Hodges 1983, pp. 82–83 ^ "Alan Turing and the 'Nature of Spirit'". S2CID 20209254. Retrieved 23 June 2012. Cambridge, Massachusetts: MIT Press. ISBN 978-0-262-01899-0. OCLC 224640979. found that in mice, removal of Hox genes causes an increase in the number of digits without an increase in the overall size of the limb, suggesting that Hox genes control digit formation by tuning the wavelength of a Turing-type mechanism.[136] Later papers were not available until Collected Works of A. M. Turing was published in 1992.[137] Personal life Engagement In 1941, Turing proposed marriage to Hut 8 colleague Joan Clarke, a fellow mathematician and cryptanalyst, but their engagement was short-lived. The National Archives, Kew, Reference HW 25/1. Levin, Janna (2006). Banburismus could rule out certain sequences of the Enigma rotors, substantially reducing the time needed to test settings on the bombs.[98] Later this sequential process of accumulating sufficient weight of evidence using decibans (one tenth of a ban) was used in Cryptanalysis of the Lorenz cipher.[99] Turing travelled to the United States in November 1942[100] and worked with US Navy cryptanalysts on the naval Enigma and bombe construction in Washington; he also visited their Computing Machine Laboratory in Dayton, Ohio. 1, 13 January 2014, p. 14. Turing's reaction to the American bombe design was far from enthusiastic: The American Bombe programme was to produce 336 Bombs, one for each wheel order. I shall too, and this letter is just to tell you that I shall be thinking of Chris and of you tomorrow. Archived from the original on 23 July 2019. Lewin, Ronald (1978). An inquest determined his death as a suicide, but it has been noted that the known evidence is also consistent with accidental poisoning. Globe Runner. (originally published in 1983); basis of the film The Imitation Game Turing, Sara (2012). 29 June 2012. doi:10.1126/science.1226804. References This article has an unclear citation style. Archived from the original on 10 January 2012. Their test (of commutators) can hardly be considered conclusive as they were not testing for the bounce with electronic stop finding devices. Diane (May 2004). "Alan Turing, Codebreaker and Computer Pioneer". Bibcode:1952RSPB...237...37T. A pardon can go some way to healing this damage. "Alan Turing's court convictions go on display for the first time". The TCAC, chaired by S. Associated Press. ^ "TURING, Ethel Sara (1891–1976, mother of Alan Turing)". ISBN 978-0-307-33598-2. Further reading Articles Turing, Alan (1950). ^ Turing, Alan (1938). Sherborne School, Dorset. ^ Good, Jack; Michie, Donald; Timms, Geoffrey (1945). General Report on Tunny: With Emphasis on Statistical Methods, Part 3 Organisation: 38 Wheel-breaking from Key, Page 293, UK Public Record Office HW 25/4 and HW 25/5, archived from the original on 21 April 2019, retrieved 13 April 2019 ^ Hodges 1983, pp. 242–245 ^ Turing, Alan M. "Turing's House: Copper Folly, 43 Adlington Road, Wilmslow, Cheshire, SK9 2BJ" (PDF). 8–9. Alan Turing's Manchester. Computability: Turing, Gödel, Church, and Beyond. ^ a b Anon (2021). Springer-Verlag, Metropolis, Charles Babbage Institute, University of Minnesota. Wer hat den Computer erfunden? Whilst he was a fellow at Cambridge, he published a proof demonstrating that some purely mathematical yes-no questions can never be answered by computation and defined a Turing machine, and went on to prove the halting problem for Turing machines is undecidable. Alan Turing: His Work and Impact. and Hodges, Andrew. Infoculture. While Turing was dealt with under the law of the time and we can't put the clock back, his treatment was of course utterly unfair and I am pleased to have the chance to say how deeply sorry I and we all are for what happened to him ... Advocate.com. Archived from the original on 16 August 2016. For the band, see The No. 1s. The references used may be made clearer with a different or consistent style of citation and footnoting. Retrieved 7 December 2014, p. 484. ^ "List of Countries, Territories and Currencies". Mahon, A.P. (1945). doi:10.1112/plms/2-45.1.161. Proceedings of the London Mathematical Society. PinkNews. Retrieved 5 April 2018. The first bombe was installed on 18 March 1940.[90] By late 1941, Turing and his fellow cryptanalysts Gordon Welchman, Hugh Alexander and Stuart Milner-Barry were frustrated. hdl:11693/24997. However, the meaning of the coded message is disputed, as the 'u' in 'ADXUO'. It is always difficult to say that anyone is 'absolutely indispensable', but if anyone was indispensable to Hut 8, it was Turing. A GCHQ mathematician, "who identified himself only as 'Richard', " said at the time that the fact that the contents had been restricted under the Official Secrets Act for some 70 years demonstrated their importance, and their relevance to post-war cryptanalysis.[70] [He] said the fact that the contents had been restricted "shows what a tremendous importance it has in the foundations of our subject". 338 (6113): 1406. (1985). Ultra Goes to War: The Secret Story. Singular derivations from "island" or "land" that hold administrative rights – Greenland, England, Christmas Island and Norfolk Island – do not take a "the" definite article. p. 110. Archived from the original on 6 July 2017. Fontana History of the Human Sciences. Government of the United Kingdom. Retrieved 13 April 2019 - via National Archives, p. 18. This would result in harm, of a less than substantial nature, to the significance of the listed buildings and landscape, and by extension the conservation area.[204] Notes and references Notes ^ Turing's death was officially determined as a suicide by an inquest, but this has been disputed. "In Praise of Bad Men". pp. 481–485. After admitting his homosexuality to his fiancée, who was reportedly "unfazed" by the revelation, Turing decided that he could not go through with the marriage.[138] Conviction for indecency In January 1952, Turing was 39 when he started a relationship with Arnold Murray, a 19-year-old unemployed man. Although Turing's proof was published shortly after Alonzo Church's equivalent proof using his lambda calculus,[51] Turing's approach is considerably more accessible and intuitive than Church's.[52] It also included a notion of a "Universal Machine" (now known as a universal Turing machine), with the idea that such a machine could perform the tasks of any other computation machine (as indeed could Church's lambda calculus). Sipser, Michael (2006). Turing wrote the first version of the Programmer's Manual for this machine, and was recruited by Ferranti as a consultant in the development of their commercialised machine, the Ferranti Mark 1. Vol. 42. ISBN 978-0-09-152130-1. ^ "Alan Turing (Statutory Pardon Bill)". In: Epstein, Robert & Peters, Grace (Eds.) Parsing the Turing Test: Philosophical and Methodological Issues in the Quest for the Thinking Computer. He was interested in morphogenesis, the development of patterns and shapes in biological organisms. Old English had a definite article *sē* (in the masculine gender), *sēo* (feminine), and *hæt* (neuter). doi:10.1017/s079096670007503. christies.com. Cambridge University Press. "The Mind and the Computing Machine: Alan Turing and others". Turing's mother, who survived him by many years, wrote this 157-page biography of her son, glorifying his life. A 2019 BBC series, as voted by the audience, named him the greatest person of the 20th century. Gleick, James (2011). Retrieved 29 July 2019. Despite these accomplishments, Turing was never fully recognised in Britain during his lifetime because much of his work was covered by the Official Secrets Act.[15] Turing was prosecuted in 1952 for homosexual acts. Make sure they have all they want on extreme priority and report to me that this has been done.". On 18 November, the chief of the secret service reported that every possible measure was being taken.[92] The cryptographers at Bletchley Park did not know of the Prime Minister's response, but as Milner-Barry recalled, "All that we did notice was that almost from that day the rough ways began miraculously to be made smooth." [93] More than two hundred bombs were in operation by the end of the war.[94] Statue of Turing by Stephen Kettle at Bletchley Park, commissioned by Sidney Frank, built from half a million pieces of Welsh slate.[95] Hut 8 and the naval Enigma Turing decided to tackle the particularly difficult problem of German naval Enigma "because no one else was doing anything about it and I could have it to myself".[96] In December 1939, Turing solved the essential part of the naval indicator system, which was more complex than the indicator systems used by the other services.[96][97] That same night, he also conceived of the idea of Banburismus, a sequential statistical technique (what Abraham Wald later called sequential analysis) to assist in breaking the naval Enigma, "though I was not sure that it would work in practice, and was not, in fact, sure, until some days had actually broken "[96] For this, he invented a measure of weight of evidence that he called the ban. Basic Books. Grammatical article in English For other uses, see The (disambiguation). Engineering Trustworthy Software Systems. "Alan Turing pardon sails through House of Lords". (2012). Retrieved 5 February 2017. Retrieved 1 November 2014. His probation would be conditional on his agreement to undergo hormonal physical changes designed to reduce libido. ^ "Who was Alan Turing?". The Churchill Centre: Myths, Gannon, Paul (2007) [2006]. 11 September 2009. We don't know what the fortune-teller said,[1] but he obviously was deeply unhappy. Leech made the case in the House of Commons that Turing's contribution to the war made him a national hero and that it was "ultimately just embarrassing" that the conviction still stood.[172] Leech continued to take the bill through Parliament and campaigned for several years, gaining the public support of numerous leading scientists, including Stephen Hawking [173] [174] At the British premiere of a film based on Turing's life, The Imitation Game, the producers thanked Leech for bringing the topic to public attention and securing Turing's pardon.[175] Leech is now regularly described as the "architect" of Turing's pardon and subsequently the Alan Turing Law which went on to secure pardons for 75,000 other men and women convicted of similar crimes.[176][177][178][180][181][182] On 26 July 2012, a bill was introduced in the House of Lords to grant a statutory pardon to Turing for offences under section 11 of the Criminal Law Amendment Act 1885, of which he was convicted on 31 March 1952.[183] Late in the year in a letter to The Daily Telegraph, the physicist Stephen Hawking and 10 other signatories including the Astronomer Royal Lord Rees, President of the Royal Society Sir Paul Nurse, Lady Trumpington (who worked for Turing during the war) and Lord Sharpe (the bill's sponsor) called on Prime Minister David Cameron to act on the pardon request.[184] The government indicated it would support the bill,[185][186][187] and it passed its third reading in the House of Lords in October.[188] At the bill's second reading in the House of Commons on 29 November 2013, Conservative MP Christopher Chope objected to the bill, delaying its passage. Archived from the original on 19 October 2017. ^ "4th, adv.1." OED Online. ^ Alan Mathison (April 2016). 183, no. Stanford Encyclopedia of Philosophy (Winter 2009 ed.). Oakley, Brian, ed. Archived from the original on 7 February 2019. The bombe, with an enhancement suggested by mathematician Gordon Welchman, became one of the primary tools, and the major automated one, used to attack Enigma-enciphered

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