


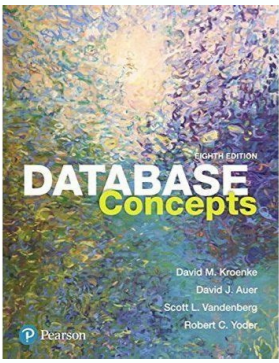
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So, when Turing turned down a position at Princeton, and went back to Cambridge in 1938, his experiences stateside came in handy. Later in the war, he developed a speech scrambling device which he named 'Delilah'. The young genius mind, however, outside of a vacuum, does not necessarily coalesce easily with the world around it. However, by engaging in such "sexual perversion," Turing had placed himself outside of the protection of the law. Brewster portrayed the human body as a machine; one with duties, tasks, functions, and, perhaps more importantly, one that could be understood through the faculties of reason. © 1996-2014, Amazon.com, Inc. at Bletchley Park then this is probably not — repeat not the Turing book for you. Furthermore, this was the point at which Turing made a huge leap in the conceptual connection between abstract symbols and the physical world. Having decided that homosexuals presented a "security risk," Turing was banned from the United States as a whole. At a any given moment, one square is "in the machine," this is the scanned square, and it bears the scanned symbol. Alan's ability (and desire) to bridge the gap between mathematics and engineering was, for the first time, seen by others as an asset. Things just didn't work out as planned. Turing's conception (based on the idea of a typewriter) is that there is a machine that has a tape , which is divided into squares . "Before the war my work was in logic and my hobby was cryptanalysis, and now it is the other way round." How so? Alan's experiences were what they were because of who he was, and, in turn, these experiences made him into the man, the enigma he became. In a twisted, endless loop, intolerance for homosexuality put any homosexual at risk for blackmail, which, in turn, made homosexuals a security risk, thereby increasing the intolerance with which we began. Alan Turing 23 June, 1912 - 7 June, 1954Proximate Cause & Goodness of FitI'm not too proud to admit that the impetus for my picking up this biography was a trailer for the upcoming film on Alan Turing and his involvement with cracking the Enigma code during WWII (The Imitation Game). Turing's thought experiments were being translated into actual electronic machinery—the Bombe (below), and the Colossus . Next to his bed was a half-eaten apple. The two were briefly engaged, but this was broken off in 1941 when Turing informed Clarke of his homosexuality. America was no better (just ask Lou Reed —his parents sent him for electroshock therapy, and that was for bisexuality). However, the Colossus was the first computer that approached Turing's conception of "universality" in that it was programmable . An Ordinary English Homosexual Atheist MathematicianThough, unlike Christopher, Alan did not win a scholarship to his first choice, Trinity, he was admitted and matriculated to King's College, Cambridge in 1931. Turing returned to Bletchley in March 1943, where he continued his work in cryptanalysis. The identified the cause as cyanide poisoning, and the post-mortem inquest easily ruled it a suicide. Like Schrödinger's cat, the Universal Turing Machine was a thought experiment, the elegance of which lies in its simplicity. This method fed into work by others at Bletchley in understanding the 'Lorenz' cipher machine. With an emphasis good citizenship, and the individual's duty to fit into the system of their small society for the greater good (none of which included becoming a "man of science), Sherborne was not a good fit for Alan. Legacy In 1952, Alan Turing was arrested for homosexuality - which was then illegal in Britain. ...more Turing was sentenced not to prison, but chemical castration by estrogen injections. Not knowing much about Cambridge (or really any university) in the 1940s, I was not clear as to whether Hodges' references to the life of an "ordinary english homosexual..." were made in jest. "Alan Turing might be Valiant-for-Truth, but even he had been led into the work of deception by science, and by sex into lying to the police." Outside of the cloistered world of Cambridge, England was not exactly gay-friendly (didn't Oscar Wilde get hard labor for that?). As one might expect of a book with an introduction by Douglas Hofstadter, it is an examination of both function and form. Unlike Alan, however, Morcom was able to integrate these interests with scholastic success. Doesn't sound like much, I know, but here's the thing: the state of the machine (with its finite table of actions) can be determined by a singly expression using the symbols (which can be limited to two)...and there's recursion. This was certainly true of Alan's early experiences in the English public school environment.* Alan was what some might refer to as "extremely pick-on-able." Thus, when he received a copy of Edwin Tenney Brewster's Natural Wonders Every Child Should Know on behalf of an unnamed benefactor in 1922, Alan was undoubtedly relieved to be able to escape into a world of science, numbers and natural order. Morcom, one year ahead of Alan at Sherburn and a member of a different "house," shared Alan's passion for science, maths, and exploration of the natural world. An inquest ruled that it was suicide. Decidability, Computability & the EntscheidungsproblemIt is because of my own descriptive shortcomings that I won't be saying much about the content of the foundational problems (and paradoxes) in math and logic being asked and addressed by Turing and his contemporaries in the 1920s and 1930s. In his house they found a jar of potassium cyanide, and a jam jar of cyanide solution. Whilst working for the National Physical Laboratory (NPL), Turing published a design for the ACE (Automatic Computing Engine), which was arguably the forerunner to the modern computer. The legacy of Alan Turing's life and work did not fully come to light until long after his death. The Enigma & Bletchley ParkPrior to Britain's declaration of war, Alan Turing was (surprisingly) the first and only mathematician recruited to work at the super secret Government Code and Cypher School (GC&CS) , and later moved to the cryptanalytic HQ at Bletchley Park . Princeton was the height of wealth and aristocratic excess from Turing's point of view, and Turing was proving again the difference between having brilliant ideas and impressing them on the world. And, of course there was decryption of Enigma messages to be done. However, though Hodges is clear that this was not an easy life, it seems that it was much easier in the context of King's College. Christopher was both Alan's mentor and, as portrayed by Hodges, his first love. The Universal Turing Machine In 1936, Turing had invented a hypothetical computing device that came to be known as the 'universal Turing machine'. But the work of Bletchley Park - and Turing's role there in cracking the Enigma code - was kept secret until the 1970s, and the full story was not known until the 1990s. After the Second World War ended, he continued his research in this area, building on his earlier work and incorporating all he'd learnt during the war. While Andrew Hodges thoroughly covers Turing's activities during the Second World War, this is just one piece of the whole. It makes more sense if you read it from the experts! To Oz and BackIt's the mid-1930s at this point, and Princeton is a pretty happening place. On June 8th, 1954 Alan Turing was found dead in his home, lying in his bed. Alan, who had long dreamed of a chess-playing machine, suddenly had a practical problem for his obsession. His impact on computer science has been widely acknowledged: the annual Turing Award* has been the highest accolade in that industry since 1966. What is certain is that they saved countless lives and helped to determine the course and outcome of the conflict. Whilst there, he also saw the latest American progress on a top secret speech enciphering system. Each square can bear a symbol. In 1954, he was found dead from cyanide poisoning. It's not clear whether this intimacy between the two was physical in nature, but the magnitude of Christopher's place in Alan's heart was made acutely and painfully clear when Christopher died suddenly of bovine tuberculosis in 1930. In "exile" in Manchester, our ordinary English homosexual atheist, when burgled by the friends of a young man he brought home, reported the larceny to the police. However, Turing did have a good time at Princeton when taking part in "treasure hunts" consisting of series of encrypted clues. Turing travelled to the United States in December 1942, to advise US military intelligence in the use of Bombe machines and to share his knowledge of Enigma. or its affiliates In July 1942, Turing developed a complex code-breaking technique he named 'Turingery'. Before you say, 'well who cares?' Let it be known that the very notion of "computability" (in a time when what was meant by "computer" is akin to what we think of as a "writer" - one doing the writing/one doing the computing) was new. Turing, offered a fellowship there, crossed the pond to work with John von Neumann (who Hodges likens to the Wizard of Oz). Many of those working at Bletchley were Wrens (seen below with the Colossus), members of the Women's Royal Naval Service. The letters between Alan and Christopher during vacations from Sherborne are filled with an excited energy that comes with having someone with whom to share new discoveries. At the National Physical Laboratory (NPL) Turing completed the design for an Automatic Computing Engine (ACE), but in the face of bureaucracy and departmental divisiveness, he had almost no control over its engineering and construction. The Heart in ExileTuring had been afforded more freedom during the war than he, perhaps, realized at the time. The experience changed Alan in many ways, including a renewed dedication to honoring Christopher's memory by pursuing the interests they had shared (which, despite their youth, had included quantum physics, and Einstein's Relativity: The Special and the General Theory). Suffice it to say that if you're operating under the impression that any system of mathematical logic can be complete, consistent and decidable, you might want to take a gander at some of Kurt Gödel's early work, and Turing's On Computable Numbers (though some might direct you toward the papers of Alonzo Church). Well, von Neumann's theory of 'minimax' strategies (the application of probabilities to any game between two players such that one chooses the "least bad" option) — one of making decisions in the absence of perfect information, had direct applications in strategic combat. The Young Turing MachineAndrew Hodges, and Henrik Olesen, the artist behind "Some Illustrations to the Life of Alan Turing," both depict the young Alan Turing as a child inquisitive, and bright beyond his years. Though Alan remained secluded at King's, he was well-suited to its norms. He was found guilty of 'gross indecency' (this conviction was overturned in 2013) but avoided a prison sentence by accepting chemical castration. However, things began to turn around for Alan in 1928, when he met Christopher Morcom. Alan, even in his earliest years, exhibited what Hodges refers to as a "desert island" mentality. Obedience to Authority & The Imitation GameIn 1926, at the age of 13, Alan (left, below) was sent to the Sherborne School . Lorenz enciphered German strategic messages of high importance: the ability of Bletchley to read these contributed greatly to the Allied war effort. * For those of you who, like myself, live west of the Atlantic, "public school" in Britain is pretty much the opposite of what it means here (basically, it's the equivalent of the American private/boarding school...although most of us don't spend 15 years there). The ACE project was not taken forward, however, and he later left the NPL. It has been estimated that the efforts of Turing and his fellow code-breakers shortened the war by several years. In 1945, Turing was awarded an OBE for his wartime work. The letters between Christopher Morcom's mother and Alan (a correspondence that continued for many years) reflect their shared grief in losing Christopher. If Alan had a problem, he relied on his own ingenuity to find an answer (e.g. inventing a machine to count gear revolutions and make adjustments as needed for his broken bicycle chain). In addition to the academic caliber of his professors and classmates, it was a socially and politically liberal environment; and it was in this context, that Alan became somewhat matter-of-factly open in his homosexuality. However, if you are interested exclusively (or even primarily) in the cryptanalytic exploits of Turing et al. To be clear, it was the Bombe that was used to crack the Enigma. For Turing this was his first contact with women, including Joan Clarke .

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