

Who Says Women Can't Be Computer Programmers

Tanya Lee Stone

about Jane Addams, illustrated by Kathryn Brown (2015) Who Says Women Can't Be Computer Programmers?: The Story of Ada Lovelace, illustrated by Marjorie

Tanya Lee Stone (born 1965) is an American author of children's and young adult books. She writes narrative nonfiction for middle-grade students and young adults, as well as nonfiction picture books. Her stories often center women and people of color.

Her work has received an NAACP Image Award, Robert F. Sibert Medal, and Golden Kite Award, among others. She is also the author of the young adult verse novel, *A Bad Boy Can Be Good for a Girl*, which was the 44th-most banned and challenged book in the United States between 2010 and 2019, as well as the sixth most banned and challenged book in 2013.

Brianna Wu

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Brianna Wu (born July 6, 1977) is an American video game developer and computer programmer. She co-founded Giant Spacekat, an independent video game development studio, with Amanda Warner in Boston, Massachusetts. She is also a blogger and podcaster on matters relating to the video game industry.

In 2018, Wu unsuccessfully ran for Congress in Massachusetts's 8th congressional district. Wu began a second campaign for the primary in 2020; in April, she announced her departure from the race due to fears about the spread of COVID-19.

Year 2000 problem

argued that this was primarily due to the pre-emptive action of many computer programmers and information technology experts. Companies and organizations in

The term year 2000 problem, or simply Y2K, refers to potential computer errors related to the formatting and storage of calendar data for dates in and after the year 2000. Many programs represented four-digit years with only the final two digits, making the year 2000 indistinguishable from 1900. Computer systems' inability to distinguish dates correctly had the potential to bring down worldwide infrastructures for computer-reliant industries.

In the years leading up to the turn of the millennium, the public gradually became aware of the "Y2K scare", and individual companies predicted the global damage caused by the bug would require anything between \$400 million and \$600 billion to rectify. A lack of clarity regarding the potential dangers of the bug led some to stock up on food, water, and firearms, purchase backup generators, and withdraw large sums of money in anticipation of a computer-induced apocalypse.

Contrary to published expectations, few major errors occurred in 2000. Supporters of the Y2K remediation effort argued that this was primarily due to the pre-emptive action of many computer programmers and information technology experts. Companies and organizations in some countries, but not all, had checked, fixed, and upgraded their computer systems to address the problem. Then-U.S. president Bill Clinton, who

organized efforts to minimize the damage in the United States, labelled Y2K as "the first challenge of the 21st century successfully met", and retrospectives on the event typically commend the programmers who worked to avert the anticipated disaster.

Critics argued that even in countries where very little had been done to fix software, problems were minimal. The same was true in sectors such as schools and small businesses where compliance with Y2K policies was patchy at best.

Casualties of the Gaza war

killed hundreds of tech specialists, including "programmers, information technology experts, and computer engineering analysts";. In March 2024, Al Jazeera

As of 30 July 2025, over 63,000 people (61,805 Palestinians and 1,983 Israelis) have been reported killed in the Gaza war according to the Gaza Health Ministry (GHM) and Israeli Ministry of Foreign Affairs, as well as 217 journalists and media workers, 120 academics, and over 224 humanitarian aid workers, a number that includes 179 employees of UNRWA. Scholars have estimated 80% of Palestinians killed are civilians. A study by OHCHR, which verified fatalities from three independent sources, found that 70% of the Palestinians killed in residential buildings or similar housing were women and children.

The majority of casualties have been in the Gaza Strip. The GHM total casualty count is the number of deaths directly caused by the war. The demographic breakdown is a subset of those individually identified. On 17 September 2024, the GHM published the names, gender and birth date of 34,344 individual Palestinians whose identities were confirmed and continues to attempt to identify all casualties. The GHM count does not include those who have died from "preventable disease, malnutrition and other consequences of the war". An analysis by the Gaza Health Projections Working Group predicted thousands of excess deaths from disease and birth complications.

In January 2025, a peer-reviewed analysis of deaths in the Gaza war between October 2023 and 30 June 2024 was published in The Lancet. The paper estimated 64,260 deaths from traumatic injury during this period, and likely exceeding 70,000 by October 2024, with 59.1% of them being women, children and the elderly. It concluded that the GHM undercounted trauma-related deaths by 41% in its report, and also noted that its findings "underestimate the full impact of the military operation in Gaza, as they do not account for non-trauma-related deaths resulting from health service disruption, food insecurity, and inadequate water and sanitation." A comparable figure for May 2025 would be 93,000 (77,000 to 109,000), representing 4–5% of Gaza's pre-war population.

A survey by PCPSR reported showed over 60% of Gazans have lost family members since the war began. Thousands of more dead bodies are thought to be under the rubble of destroyed buildings. The number of injured is greater than 100,000; Gaza has the most amputated children per capita in the world.

The 7 October attacks on Israel killed 1,195 people, including 815 civilians. Casualties have also occurred in other parts of Israel, as well as in southern Lebanon, Syria, Yemen, and Iran.

Curtis Yarvin

dissolved. 'You can't continue to have a Harvard or a New York Times past the start of April,' he told Anton. After that, he says, people should be allowed to

Curtis Guy Yarvin (born 1973), also known by the pen name Mencius Moldbug, is an American far-right political blogger and software developer. He is known, along with accelerationist philosopher Nick Land, for founding the anti-egalitarian and anti-democracy philosophical movement known as the Dark Enlightenment or neo-reactionary movement (NRx), which originated in the late 2000s. By the early 2020s, Yarvin and his ideas were noted as having growing ideological influence in the American Right, including among prominent

figures such as Vice President JD Vance, and venture capitalist and Republican megadonor Peter Thiel.

In his blog *Unqualified Reservations*, which he wrote from 2007 to 2014, and in his later newsletter *Gray Mirror*, which he started in 2020, he argues that American democracy is a failed experiment that should be replaced by an accountable monarchy, similar to the governance structure of corporations. In 2002, Yarvin began work on a personal software project that eventually became the Urbit networked computing platform. In 2013, he co-founded the company Tlon to oversee the Urbit project and helped lead it until 2019. He made a return to the company in 2024, described as having a "wartime C.E.O." role.

Yarvin has been described as a "neo-reactionary", "neo-monarchist" and "neo-feudalist" who "sees liberalism as creating a Matrix-like totalitarian system, and who wants to replace American democracy with a sort of techno-monarchy". He has defended the institution of slavery, and has suggested that certain races may be more naturally inclined toward servitude than others. He has argued that whites have inherently higher IQs than black people, and opposes U.S. civil rights programs.

Yarvin has influenced some prominent Silicon Valley investors and Republican politicians. Political strategist Steve Bannon has read and admired his work. Vice President JD Vance "has cited Yarvin as an influence himself". Michael Anton, the State Department Director of Policy Planning during Trump's second presidency, has also discussed Yarvin's ideas. In January 2025, Yarvin attended a Trump inaugural gala in Washington; Politico reported he was "an informal guest of honor" due to his "outsize[d] influence over the Trumpian right".

COBOL

giving programmers the ability to control the data each part of the program could access. COBOL-85 then added nested subprograms, allowing programmers to

COBOL (; an acronym for "common business-oriented language") is a compiled English-like computer programming language designed for business use. It is an imperative, procedural, and, since 2002, object-oriented language. COBOL is primarily used in business, finance, and administrative systems for companies and governments. COBOL is still widely used in applications deployed on mainframe computers, such as large-scale batch and transaction processing jobs. Many large financial institutions were developing new systems in the language as late as 2006, but most programming in COBOL today is purely to maintain existing applications. Programs are being moved to new platforms, rewritten in modern languages, or replaced with other software.

COBOL was designed in 1959 by CODASYL and was partly based on the programming language FLOW-MATIC, designed by Grace Hopper. It was created as part of a U.S. Department of Defense effort to create a portable programming language for data processing. It was originally seen as a stopgap, but the Defense Department promptly pressured computer manufacturers to provide it, resulting in its widespread adoption. It was standardized in 1968 and has been revised five times. Expansions include support for structured and object-oriented programming. The current standard is ISO/IEC 1989:2023.

COBOL statements have prose syntax such as `MOVE x TO y`, which was designed to be self-documenting and highly readable. However, it is verbose and uses over 300 reserved words compared to the succinct and mathematically inspired syntax of other languages.

The COBOL code is split into four divisions (identification, environment, data, and procedure), containing a rigid hierarchy of sections, paragraphs, and sentences. Lacking a large standard library, the standard specifies 43 statements, 87 functions, and just one class.

COBOL has been criticized for its verbosity, design process, and poor support for structured programming. These weaknesses often result in monolithic programs that are hard to comprehend as a whole, despite their local readability.

For years, COBOL has been assumed as a programming language for business operations in mainframes, although in recent years, many COBOL operations have been moved to cloud computing.

Bill Gates

bugs in the operating system to obtain free computer time. The four students formed the Lakeside Programmers Club to make money. At the end of the ban,

William Henry Gates III (born October 28, 1955) is an American businessman and philanthropist. A pioneer of the microcomputer revolution of the 1970s and 1980s, he co-founded the software company Microsoft in 1975 with his childhood friend Paul Allen. Following the company's 1986 initial public offering (IPO), Gates became a billionaire in 1987—then the youngest ever, at age 31. Forbes magazine ranked him as the world's wealthiest person for 18 out of 24 years between 1995 and 2017, including 13 years consecutively from 1995 to 2007. He became the first centibillionaire in 1999, when his net worth briefly surpassed \$100 billion. According to Forbes, as of May 2025, his net worth stood at US\$115.1 billion, making him the thirteenth-richest individual in the world.

Born and raised in Seattle, Washington, Gates was privately educated at Lakeside School, where he befriended Allen and developed his computing interests. In 1973, he enrolled at Harvard University, where he took classes including Math 55 and graduate level computer science courses, but he dropped out in 1975 to co-found and lead Microsoft. He served as its CEO for the next 25 years and also became president and chairman of the board when the company incorporated in 1981. Succeeded as CEO by Steve Ballmer in 2000, he transitioned to chief software architect, a position he held until 2008. He stepped down as chairman of the board in 2014 and became technology adviser to CEO Satya Nadella and other Microsoft leaders, a position he still holds. He resigned from the board in 2020.

Over time, Gates reduced his role at Microsoft to focus on his philanthropic work with the Bill & Melinda Gates Foundation, the world's largest private charitable organization, which he and his then-wife Melinda French Gates co-chaired from 2000 until 2024. Focusing on areas including health, education, and poverty alleviation, Gates became known for his efforts to eradicate transmissible diseases such as tuberculosis, malaria, and polio. After French Gates resigned as co-chair following the couple's divorce, the foundation was renamed the Gates Foundation, with Gates as its sole chair.

Gates is founder and chairman of several other companies, including BEN, Cascade Investment, TerraPower, Gates Ventures, and Breakthrough Energy. In 2010, he and Warren Buffett founded the Giving Pledge, whereby they and other billionaires pledge to give at least half their wealth to philanthropy. Named as one of the 100 most influential people of the 20th century by Time magazine in 1999, he has received numerous other honors and accolades, including a Presidential Medal of Freedom, awarded jointly to him and French Gates in 2016 for their philanthropic work. The subject of several documentary films, he published the first of three planned memoirs, *Source Code: My Beginnings*, in 2025.

Kathy Sierra

the Java programmers' online community JavaRanch. She is the co-creator of the Head First series of books on technical (primarily computer) topics, along

Kathy Sierra is an American programming instructor, game developer, author, and the curator of *Intrizen*.

Mark V. Shaney

for) the girls. You can't settle the issue. It seems I've forgotten what it is, but I don't. I know about violence against women, and I really doubt they

Mark V. Shaney is a synthetic Usenet user whose postings in the net.singles newsgroups were generated by Markov chain techniques, based on text from other postings. The username is a play on the words "Markov chain". Many readers were fooled into thinking that the quirky, sometimes uncannily topical posts were written by a real person.

The system was designed by Rob Pike with coding by Bruce Ellis. Don P. Mitchell wrote the Markov chain code, initially demonstrating it to Pike and Ellis using the Tao Te Ching as a basis. They chose to apply it to the net.singles netnews group.

The program is fairly simple. It ingests the sample text (the Tao Te Ching, or the posts of a Usenet group) and creates a massive list of every sequence of three successive words (triplet) which occurs in the text. It then chooses two words at random, and looks for a word which follows those two in one of the triplets in its massive list. If there is more than one, it picks at random (identical triplets count separately, so a sequence which occurs twice is twice as likely to be picked as one which only occurs once). It then adds that word to the generated text.

Then, in the same way, it picks a triplet that starts with the second and third words in the generated text, and that gives a fourth word. It adds the fourth word, then repeats with the third and fourth words, and so on. This algorithm is called a third-order Markov chain (because it uses sequences of three words).

Naomi Wu

single-board microcontroller for computer education in China, and the first Chinese open-source hardware product to be certified by the Open Source Hardware

Naomi Wu, also known as Sexy Cyborg (simplified Chinese: 性感赛博; traditional Chinese: 性感賽博; pinyin: Jǐxìè Yǐjī; lit. 'Machinery Enchantress'), is a Chinese DIY maker and internet personality. As an advocate of women in STEM, transhumanism, open source hardware, and body modification, she attempts to challenge gender and tech stereotypes with a flamboyant public persona, using objectification of her appearance to inspire women.

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