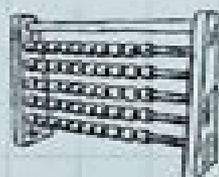


A brief history of

COMPUTERS

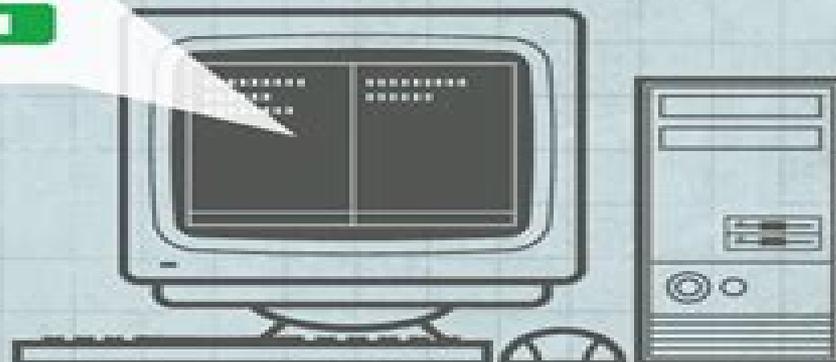
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2400 BC

The abacus, the first known calculator, was invented in Babylonia



300 BC

Pingala invented the binary number system



1492

Da Vinci depicts flying machines, the first mechanical calculator and one of the first programmable robots

1822

The Analytical Engine was invented by Charles Babbage



60AD

Heron of Alexandria invents machines which follow a series of instructions



1835

Samuel Morse invents Morse code

1642

Blaise Pascal invents the "Pascaline" a mechanical adding machine



1880

Alexander Graham Bell invents a telephone called the Photophone

1937

Alan Turing develops the concept of a theoretical computing



1924

Electromechanical television system was invented by John Logie Baird

1895

Radio signals invented by Guglielmo Marconi

Computer History

Terry C. Jones



Computer History:

Computer Martin Campbell-Kelly, William Aspray, Nathan Ensmenger, Jeffrey R. Yost, 2013-07-30 *Computer A History of the Information Machine* traces the history of the computer and shows how business and government were the first to explore its unlimited information processing potential Old fashioned entrepreneurship combined with scientific know how inspired now famous computer engineers to create the technology that became IBM Wartime needs drove the giant ENIAC the first fully electronic computer Later the PC enabled modes of computing that liberated people from room sized mainframe computers This third edition provides updated analysis on software and computer networking including new material on the programming profession social networking and mobile computing It expands its focus on the IT industry with fresh discussion on the rise of Google and Facebook as well as how powerful applications are changing the way we work consume learn and socialize *Computer* is an insightful look at the pace of technological advancement and the seamless way computers are integrated into the modern world Through comprehensive history and accessible writing *Computer* is perfect for courses on computer history technology history and information and society as well as a range of courses in the fields of computer science communications sociology and management

The History of Visual Magic in Computers Jon Peddie, 2026-01-01 Have you ever watched a captivating adventure or science fiction movie played an intricate and immersive computer game or seen a TV commercial where objects like cars gas pumps or biscuits act like people and wondered How do they do that If so then you ve witnessed the magic of 3D worlds created by computers It s a captivating field that blends artistry and technology to bring fictional worlds to life and this 2nd edition adds the unique combination of artistry technology and AI that goes into creating 3D worlds real and imaginary The roots of 3D graphics in computers lie in practical applications like representing automotive designs and illustrating the structure of molecules Over time these techniques evolved expanding to visualize simulated data and create artistic representations of imaginary worlds The goal was and still is to create images that feel real overcoming the visual cues that might make a viewer question the authenticity of what they re seeing To achieve realism developers had to find ways to work around the limitations of early computers They exploited the characteristics of the human eye and brain developing clever visual techniques to simulate reality This involved harnessing the way people perceive depth and movement and using tricks to create a convincing sense of three dimensions In this fully revised version *The History of Visual Magic in Computers* traces how in the 2020s AI enabled real time ray tracing became common and an expected capability The journey of 3D graphics is a long and collaborative effort Thousands of individuals over thousands of years have made crucial discoveries in mathematics and science laying the groundwork for these immersive 3D experiences The story of 3D graphics is a testament to the collective efforts of these individuals pushing the boundaries of what is possible and today there is a new partner in the process AI It traces back to the earliest understanding of three dimensional space followed by the development of foundational mathematical concepts to explain and

construct 3D worlds This history spans from the days of mechanical computers to the modern age of tablets and smartphones and ending up with AI enhancements There have been periods where breakthroughs in computer graphics seemed to happen all at once leading to exciting developments in algorithms and techniques As our understanding of how to draw lines and create realistic images improved 3D controllers for display hardware emerged paving the way for immersive technologies like stereovision virtual reality and enhanced image processing using AI

Computer Martin Campbell-Kelly, William F. Aspray, Jeffrey R. Yost, Honghong Tinn, Gerardo Con Díaz, 2023-06-19 Computer A History of the Information Machine traces the history of the computer and its unlimited information processing potential Comprehensive and accessibly written this fully updated fourth edition adds new chapters on the globalization of information technology the rise of social media fake news and the gig economy and the regulatory frameworks being put in place to tame the ubiquitous computer Computer is an insightful look at the pace of technological advancement and the seamless way computers are integrated into the modern world The authors examine the history of the computer including the first steps taken by Charles Babbage in the nineteenth century and how wartime needs and the development of electronics led to the giant ENIAC the first electronic computer For a generation IBM dominated the computer industry In the 1980s the desktop PC liberated people from room sized mainframe computers Next laptops and smartphones made computers available to half of the world s population leading to the rise of Google and Facebook and powerful apps that changed the way we work consume learn and socialize The volume is an essential resource for scholars and those studying computer history technology history and information and society as well as a range of courses in the fields of computer science communications sociology and management

Computer William Aspray, Martin Campbell-Kelly, 1997-06-11 Blending strong narrative history and a fascinating look at the interface of business and technology Computer A History of the Information Machine traces the dramatic story of the invention of the computer More than just the tale of a tool created by scientists to crunch numbers this book suggests a richer story behind the computer s creation one that shows how business and government were the first to explore the unlimited potential of the machine as an information processor Not surprisingly at the heart of the business story is IBM A story of old fashioned entrepreneurship in symbiotic relationship with scientific know how it begins way back when computers were people who did the computational work of scientists and Charles Babbage attempted in vain to mechanize the process But it also shows how entrepreneurs like Herman Hollerith seeing a business opportunity in a machine that could mechanically tabulate the U S census created a punched card tabulator that became the technology that created IBM The authors show how ENIAC the first fully electronic computer emerged out of the wartime need of the military for computers that performed at lightning speed and did not need human intervention at any stage of the process Most interesting is the story of how the computer began to reshape broad segments of our society when the PC enabled new modes of computing that liberated people from dependence on room sized enormously expensive mainframe computers Filled with lively insights many about the world of

computing in the 1990s such as the strategy behind Microsoft Windows as well as a discussion of the rise and creation of the World Wide Web here is a book no one who owns or uses a computer will want to miss

A History of the Personal Computer Roy A. Allan, 2001 This book is an exciting history of the personal computer revolution Early personal computing the first personal computer invention of the microprocessor at Intel and the first microcomputer are detailed It also traces the evolution of the personal computer from the software hacker to its use as a consumer appliance on the Internet This is the only book that provides such comprehensive coverage It not only describes the hardware and software but also the companies and people who made it happen

A History of Computing Technology Michael R. Williams, 1997-04-10 This second edition of the popular reference and textbook outlines the historical developments in computing technology The book describes historical aspects of calculation and concentrates on the physical devices used to aid people in their attempts at automating the arithmetic process A History of Computing Technology highlights the major advances in arithmetic from the beginning of counting through the three most important developments in the subject the invention of the zero logarithms and the electronic computer It provides you with an understanding of how these ideas developed and why the latest tools are in their current forms In addition it tells many of the interesting stories about both the machines and the scientists who produced them It focuses on the extraordinary accomplishments of those computer pioneers whose work will stand as proof of their genius and hard work

Computing Paul E. Ceruzzi, 2012-06-15 Discover the history of computing through 4 major threads of development in this compact accessible history covering punch cards Silicon Valley smartphones and much more In an accessible style computer historian Paul Ceruzzi offers a broad though detailed history of computing from the first use of the word digital in 1942 to the development of punch cards and the first general purpose computer to the internet Silicon Valley and smartphones and social networking Ceruzzi identifies 4 major threads that run throughout all of computing s technological development Digitization the coding of information computation and control in binary form The convergence of multiple streams of techniques devices and machines The steady advance of electronic technology as characterized famously by Moore s Law Human machine interface The history of computing could be told as the story of hardware and software or the story of the Internet or the story of smart hand held devices In this concise and accessible account of the invention and development of digital technology Ceruzzi offers a general and more useful perspective for students of computer science and history

Computer History Notes - Herong's Tutorial Notes Herong Yang, 2020-12-20 This book is a collection of notes on computer history Major topics include 1957 FORTRAN Language by IBM 1970 UNIX OS by ATT Bell Labs 1971 FTP by Abhay Bhushan 1972 C Language by Dennis Ritchie 1976 vi Editor by Bill Joy 1977 Apple II by Steve Jobs and Steve Wozniak 1977 The Bourne Shell by Stephen Bourne 1983 Sendmail by Eric Allman 1984 Macintosh by Apple Inc 1984 X Window System by a MIT Team 1991 WWW by Tim Berners Lee 1991 Python by Guido van Rossum 1995 Java Developed by Sun Microsystems 1995 PHP by Rasmus Lerdorf 2009 Bitcoin by Satoshi Nakamoto Updated in 2026 Version v3 14 with minor

changes For latest updates and free sample chapters visit <https://www.herongyang.com> Computer History

The History of the Computer Rachel Ignatofsky, 2022-05-17 A MATHICAL HONOR BOOK A strikingly illustrated overview of the computing machines that have changed our world from the abacus to the smartphone and the people who made them by the New York Times bestselling author and illustrator of Women in Science A beautifully illustrated journey through the history of computing from the Antikythera mechanism to the iPhone and beyond I loved it Eben Upton Founder and CEO of Raspberry Pi ONE OF THE BEST BOOKS OF THE YEAR The New York Public Library Computers are everywhere and have impacted our lives in so many ways But who created them and why How have they transformed the way that we interact with our surroundings and each other Packed with accessible information fun facts and discussion starters this charming and art filled book takes you from the ancient world to the modern day focusing on important inventions from the earliest known counting systems to the sophisticated algorithms behind AI The History of the Computer also profiles a diverse range of key players and creators from An Wang and Margaret Hamilton to Steve Jobs and Sir Tim Berners Lee and illuminates their goals their intentions and the impact of their inventions on our everyday lives This entertaining and educational journey will help you understand our most important machines and how we can use them to enhance the way we live You ll never look at your phone the same way again

The Technical and Social History of Software Engineering Capers Jones, 2014 Pioneering software engineer Capers Jones has written the first and only definitive history of the entire software engineering industry Drawing on his extraordinary vantage point as a leading practitioner for several decades Jones reviews the entire history of IT and software engineering assesses its impact on society and previews its future One decade at a time Jones assesses emerging trends and companies winners and losers new technologies methods tools languages productivity quality benchmarks challenges risks professional societies and more He quantifies both beneficial and harmful software inventions accurately estimates the size of both the US and global software industries and takes on unexplained mysteries such as why and how programming languages gain and lose popularity

We Are What We Sell Danielle Sarver Coombs, Bob Batchelor, 2014-01-15 For the last 150 years advertising has created a consumer culture in the United States shaping every facet of American life from what we eat and drink to the clothes we wear and the cars we drive In the United States advertising has carved out an essential place in American culture and advertising messages undoubtedly play a significant role in determining how people interpret the world around them This three volume set examines the myriad ways that advertising has influenced many aspects of 20th century American society such as popular culture politics and the economy Advertising not only played a critical role in selling goods to an eager public but it also served to establish the now world renowned consumer culture of our country and fuel the notion of the American dream The collection spotlights the most important advertising campaigns brands and companies in American history from the late 1800s to modern day Each fact driven essay provides insight and in depth analysis that general readers will find fascinating as well as historical details and

contextual nuance students and researchers will greatly appreciate These volumes demonstrate why advertising is absolutely necessary not only for companies behind the messaging but also in defining what it means to be an American

A History of Computing Technology Michael Roy Williams,1985 This second edition of the popular reference and textbook outlines the historical developments in computing technology The book describes historical aspects of calculation and concentrates on the physical devices used to aid people in their attempts at automating the arithmetic process A History of Computing Technology highlights the major advances in arithmetic from the beginning of counting through the three most important developments in the subject the invention of the zero logarithms and the electronic computer It provides you with an understanding of how these ideas developed and why the latest tools are in their current forms In addition it tells many of the interesting stories about both the machines and the scientists who produced them It focuses on the extraordinary accomplishments of those computer pioneers whose work will stand as proof of their genius and hard work

The History of Computing Doron Swade,2022-07-28 Very Short Introductions Brilliant Sharp Inspiring This lively Very Short Introduction reviews the central events machines and people that feature in established accounts of the history of computing critically examining received perceptions and providing a fresh look at the nature and development of the modern electronic computer The book begins by discussing a widely accepted linear narrative of the history of computing centred around innovatory highlights that start with the use of knotted cords to aid calculation all the way to the smartphones of the present day It discusses the problems and simplifications present in such a narrative and offers instead an account centred on users that identifies four distinct historical threads calculation automatic computing information management and communication These threads are examined individually tracing their paths and the convergences of related technologies into what has come to be called the information age

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A History of Modern Computing, second edition Paul E. Ceruzzi,2003-04-08 From the first digital computer to the dot com crash a story of individuals institutions and the forces that led to a series of dramatic transformations This engaging history covers modern computing from the development of the first electronic digital computer through the dot com crash The author concentrates on five key moments of transition the transformation of the computer in the late 1940s from a specialized scientific instrument to a commercial product the emergence of small systems in the late 1960s the beginning of personal computing in the 1970s the spread of networking after 1985 and in a chapter written for this edition the period 1995 2001 The new material focuses on the Microsoft antitrust suit the rise and fall of the dot coms and the advent of open source software particularly Linux Within the chronological narrative the book traces several overlapping threads the evolution of the computer s internal design the effect of economic trends and the Cold War

the long term role of IBM as a player and as a target for upstart entrepreneurs the growth of software from a hidden element to a major character in the story of computing and the recurring issue of the place of information and computing in a democratic society The focus is on the United States though Europe and Japan enter the story at crucial points on computing per se rather than on applications such as artificial intelligence and on systems that were sold commercially and installed in quantities

Giants of Computing Gerard O'Regan,2013-08-19 It has been upon the shoulders of giants that the modern world has been forged This accessible compendium presents an insight into the great minds responsible for the technology which has transformed our lives Each pioneer is introduced with a brief biography followed by a concise account of their key contributions to their discipline The selection covers a broad spread of historical and contemporary figures from theoreticians to entrepreneurs highlighting the richness of the field of computing Suitable for the general reader this concise and easy to read reference will be of interest to anyone curious about the inspiring men and women who have shaped the field of computer science

A People's History of Computing in the United States Joy Lisi Rankin,2018-10-08 Silicon Valley gets all the credit for digital creativity but this account of the pre PC world when computing meant more than using mature consumer technology challenges that triumphalism The invention of the personal computer liberated users from corporate mainframes and brought computing into homes But throughout the 1960s and 1970s a diverse group of teachers and students working together on academic computing systems conducted many of the activities we now recognize as personal and social computing Their networks were centered in New Hampshire Minnesota and Illinois but they connected far flung users Joy Rankin draws on detailed records to explore how users exchanged messages programmed music and poems fostered communities and developed computer games like The Oregon Trail These unsung pioneers helped shape our digital world just as much as the inventors garage hobbyists and eccentric billionaires of Palo Alto By imagining computing as an interactive commons the early denizens of the digital realm seeded today's debate about whether the internet should be a public utility and laid the groundwork for the concept of net neutrality Rankin offers a radical precedent for a more democratic digital culture and new models for the next generation of activists educators coders and makers

Archival Arrangement and Description Lois Hamill,2017-07-08 Archival Arrangement and Description Analog to Digital teaches the core functions of arrangement and description A historical summary grounds new archivists to assess proposed changes for digital files After presenting the basics of arrangement and description processing for analog materials the text segues to digital materials incorporating the OAIS preservation model into a detailed sample workflow Although accessioning and technical appraisal precede processing they are discussed because they are performed differently for digital materials and create a different starting point for processing digital files Description is external to the OAIS model but linked to it Recent advances in description and its delivery are presented along with concerns for the ability of smaller archives to participate in envisioned future developments that are technology reliant New specialties like digital curation and data curation show the

continued relevance of archival expertise for the digital future Rich with extras the text includes and points to many readily web accessible additional resources

Exploring Computers Joe Herz,2000-10

How the Computer Changed History Therese Naber,2015-08-01 How the Computer Changed History examines the development of the computer how it works and how it has become a standard machine used in businesses homes and industries Features include essential facts a glossary selected bibliography websites source notes and an index plus a timeline and maps charts and diagrams Aligned to Common Core Standards and correlated to state standards Essential Library is an imprint of Abdo Publishing a division of ABDO

A Brief History of Computing Gerard O'Regan,2008-02-01 Overview The objective of this book is to provide an introduction into some of the key topics in the history of computing The computing eld is a vast area and a truly comprehensive account of its history would require several volumes The aims of this book are more modest and its goals are to give the reader a avour of some of the key topics and events in the history of computing It is hoped that this will stimulate the interested reader to study the more advanced books and articles available The history of computing has its origins in the dawn of civilization Early hunter gatherer societies needed to be able to perform elementary calculations such as counting and arithmetic As societies evolved into towns and communities there was a need for more sophisticated calculations This included primitive accounting to determine the appropriate taxation to be levied as well as the development of geometry to enable buildings templates and bridges to be constructed Our account commenceswith the contributions of the Egyptians and Babylonians It moves on to the foundationalwork done by Boole and Babbage in the nineteenth century and to the importantwork on Boolean Logicand circuit design doneby Claude Shannon in the 1930s The theoretical work done by Turing on computability is considered as well as work done by von Neumann and others on the fundamental architecture for computers

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