# **BRIEF HISTORY OF TIME**

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**Is A Brief History of Time a hard read?** The book was addictive despite being a slightly difficult read as, once you understand an idea, you want to understand how it relates to other topics of the book. Hawking has a quirky sense of humour and along with ideas being developed also shares various life events of scientists.

What is the summary of A Brief History of Time? A simple summary of A Brief History of Time goes all the way from the beginning of the universe to its end, explaining things like space and time, the expanding universe, the uncertainty principle, black holes, wormholes, and time travel along the way. It sold over 25 million copies.

What age is the brief history of time appropriate for? Hawking's book is written with an astounding clarity. It seems like a story rather than science. Hence there's no minimum age limit. 'The Brief History of Time' book is a book targeted to people of all ages.

How successful was A Brief History of Time? The first run sold out in the United States in a matter of days, and soon the 200-some-page account of the origin and fate of the universe was flying off the shelves worldwide. It spent 147 weeks on the New York Times bestseller list and a record-breaking 237 weeks on the Times of London bestseller list.

#### What is the most difficult book to read ever?

How many people actually read A Brief History of Time? Very few people finish reading most books. Look at the percentage of people who finished a Brief History of Time (6.6%), Infinite Jest (6.4%), and Thinking Fast and Slow (6.8%).

What disease did Stephen Hawking have? Hawking was diagnosed with Amyotrophic Lateral Sclerosis (ALS), commonly referred to in the U.S. as Lou Gehrig's disease. As ALS progresses, the degeneration of motor neurons in the brain interfere with messages to muscles in the body. Eventually, muscles atrophy and voluntary control of muscles is lost.

**Did Stephen Hawking believe in time travel?** According to Stephen Hawking, time travel is possible, and not just in the way we might think. Backward time travel is not supported by Hawking's theories, because new matter (a new you) would need to be created – one existing in the past and one in the present, traveling back in time.

What was Stephen Hawking's conclusion on A Brief History of Time? Hawking ultimately proposes the conclusion that the universe might be finite, but boundless. In other words, it may have no beginning nor ending in time, but merely exist with a finite amount of matter and energy. The concept of quantum gravity is also discussed in this chapter.

Will I be able to understand A Brief History of Time? Nonetheless, because of the complexity and gravity of those concepts, it can be an easy book to get lost in. A Brief History of Time is cumulative in the sense that you will not be able to skip around it with much comprehension unless you have a very thorough scientific background.

How long does it take to read A Brief History of Time? The average reader, reading at a speed of 300 WPM, would take 3 hours and 12 minutes to read A Brief History of Time by Stephen Hawking.

What is the argument of A Brief History of Time? In his book "A Brief History of Time" physicist Stephen Hawking made the claim that if his "no-boundary cosmology" was correct then there would be no need for a creator. His cosmological model proposes that there was no precise moment when the universe "began", because there was no precise moment when time began.

How many hours did Stephen Hawking used to sleep? He slept a regular 8 to 9 hours, and thought being well rested and healthy was instrumental to his productivity.

What was Stephen Hawking's theory? What was Stephen Hawking famous for? Stephen Hawking worked on the physics of black holes. He proposed that black holes would emit subatomic particles until they eventually exploded. He also wrote best-selling books, the most famous of which was A Brief History of Time: From the Big Bang to Black Holes (1988).

**Is A Brief History of Time a good read?** As one would expect of a book that spent many weeks on the New York Times best-seller list, this book is well written, descriptive but not too technical, and sprinkled with humor.

What is the 3 most read book in the world?

What is the 1st most read book in the world? ?The Holy Bible The 'Holy Bible' holds the title for the most-read book in the world.

What is the most forbidden book in the world?

What was the matter with Stephen Hawking? In early 1963, just shy of his 21st birthday, Hawking was diagnosed with motor neuron disease, more commonly known as Lou Gehrig's disease or amyotrophic lateral sclerosis (ALS). Doctors told Hawkings that he would likely not survive more than two years with the disease.

How big is the book A Brief History of Time?

How many books does the average human read per year? The average number of books read by adults in the US is 12 per year. In the UK, the average number of books read per year is 10. On average, women tend to read more books than men. Adults over the age of 65 tend to read more books than any other age group.

What were Stephen Hawking's final words?

What was Stephen Hawking's IQ when he died? Who has a similar IQ? Stephen Hawking is known for his genius IQ. It has been estimated that he has an IQ of 160-190.

How long did Lou Gehrig live after being diagnosed with ALS? Gehrig would live less than two years after that afternoon, passing away at his home in the Bronx on June 2, 1941, by coincidence 16 years to the day from when he had replaced BRIEF HISTORY OF TIME

Wally Pipp at first base for the Yankees, beginning his streak of consecutive games played.

Why did no one come to Stephen Hawking? Why did no one turn up to Hawking's time traveller party? Despite being one of the most famous names in physics in the early 21st century, it's possible that it's still too long before time travel is invented for anyone to be aware of the scientist's invitation.

Why does Stephen Hawking believe we need to leave Earth? In Brief Answers to the Big Questions, Hawking wrote that humans need to leave the Earth in order to avoid annihilation. Hawking wrote he is worried about the possibility of nuclear war and the devastating effects of climate change. He also said a catastrophic asteroid collision will certainly happen in the future.

What did Albert Einstein say about time travel? His idea was that, theoretically, the closer we come to traveling at the speed of light (186,000 miles per second), the more time would appear to slow down for us from the perspective of someone who, in relation to us, was not moving. He called the slowing of time due to motion time dilation.

What is linear block coding? What is Linear Block Codes? It is a simple error control coding technique used for error detection and correction. Information data is partitioned into blocks of length K pieces for example Information word. Every information word is then coded into a block of length n bits called a codeword.

**How to find linear block code?** The linear block code (n,k), using the language of vector spaces, can be defined as a subspace of a vector space over finite field GF(q), with q being the prime power. Every space is described by its basis – a set of linearly independent vectors. The number of vectors in the basis determines the dimension of the space.

**How to decode linear code?** Given a linear code C of dimension k, an efficient way to encode and decode messages from (F2)k is by using a k×n matrix G where the rows form a basis for C. The encoding map is then given by x 7? GT x and the decoding map is given by y 7? G(GT G)-1y.

What is an example of a block code? Such limitations often take the form of bounds that relate different parameters of the block code to each other, such as its rate and its ability to detect and correct errors. Examples of block codes are Reed–Solomon codes, Hamming codes, Hadamard codes, Expander codes, Golay codes, Reed–Muller codes and Polar codes.

What is the 7 4 linear block code? Block codes -- the (7,4) Hamming code We now study a simple block code that makes use of `parity check bits'. of length N bits, where, in order to add redundancy, N will of course be greater than K. A neat example of a block code is the (7,4) Hamming code, which transmits N=7 bits for every K=4 source bits.

What is meant by the syndrome of linear block code? Syndrome decoding is an efficient way to decode linear block codes. We will study it in the context of decoding single-bit errors; specifically, providing the following semantics: If the received word has 0 or 1 errors, then the decoder will return the correct transmitted message.

What is a linear block? The codewords in a linear block code are blocks of symbols that are encoded using more symbols than the original value to be sent. A linear code of length n transmits blocks containing n symbols. For example, the [7,4,3] Hamming code is a linear binary code which represents 4-bit messages using 7-bit codewords.

What is the code rate for a linear block? The code rate is k/n. Block code: k message bits encoded to n code bits i.e., each of 2k messages encoded into a unique n-bit codeword via a linear transformation. Key property: Sum of any two codewords is also a codeword? necessary and sufficient for code to be linear. (n,k) code has rate k/n.

**How to tell if a code is linear?** A code is a linear code if it is determined by the null space of some matrix H?Mm×n(Z2).

What is a good linear code? An [n, k] linear code C is said to be an optimal linear [n, k] code if the minimum weight of C achieves the theoretical upper bound on the minimum weight of [n, k] linear codes. Magma currently has databases for best known linear codes over GF(q) for q=2, 3, 4, 5, 7, 8, 9.

**How do you decrypt a linear cipher?** To decode we have to first undo the addition performed in the encryption process. Afterwards, we undo the multiplication. Say, the encryption function is C=3\*P + 1 mod 26. To find the decoding function, we solve for P: Subtract 1 to get C-1=3\*P mod 26.

**How are block codes generated?** Explanation: Block codes are generated using generator matrix and cyclic codes are generated using generator polynomial. Explanation: Extended go-lay code is formed by adding overall parity bit with the perfect bit known as the golay code.

**Is block code easy?** Block-based programming languages are easy to use. Block-based coding allows children to quickly design a tangible object with which they can interact. This motivates them to continue learning. The entry hurdle is low.

What does block coding look like? Block-based coding means that instead of typing a coding language, you drag and drop jigsaw-like pieces together to build things using tools like Scratch or Thunkable.

How do you write code blocks?

How do you solve linear block codes?

What is the basis of a linear code? Definition 7 (Linear code) If ? is a field and C? ?n is a subspace of ?n then C is said to be a linear code. As C is a subspace, there exists a basis c1,c2,...,ck where k is the dimension of the subspace. Any codeword can be expressed as the linear combination of these basis vectors.

**What is a 5 2 block code?** A 5.2linear block code is defined by their code words as, C=00000, 10100, 01111, 11011The minimum distance of the code dminis.

What are the disadvantages of linear block codes? Unfortunately, the main disadvantage of block codes is that we cannot extract the information until the whole code is received. In addition, the entire block has to be retransmitted in case of error. Convolutional encoders: In several applications the message bits are transmitted serially rather than blocks.

What is the minimum distance for linear block codes? The minimum distance, or minimum weight, of a linear block code is defined as the smallest positive number of nonzero entries in any n-tuple that is a codeword. wt = gfweight(genmat) returns the minimum distance of the linear block code whose generator matrix is genmat.

### What are the two types of block codes?

What is the property to be satisfied by a linear block code? Linearity property A binary code is linear if and only if the modulo-2 sum of 2 codewords is also a codeword. One can check that the sum of any 2 codewords in this code is also a codeword. A desirable structure for a block code to possess is linearity, which greatly reduces the encoding complexity.

**How do you know if a code is linear?** A linear code is usually defined as a subspace of Fn for some field F (since you're talking about bits, you can take  $F=F2=\{0,1\}$ ). The code C generated by a generating matrix G is the span of the rows of G. The span of a set of vectors in Fn is a subspace of Fn, so C is a linear code.

Which code is a linear block code over GF 2? Definition: A block code of length n and 2k code words is called a linear (n, k) code if and only if its 2k code words form a k-dimensional subspace of the vector space of all the n-tuples over the field GF(2).

What is syndrome decoding of linear block codes? Syndrome decoding is an efficient way to decode linear block codes. We will study it in the context of decoding single-bit errors; specifically, providing the following semantics: If the received word has 0 or 1 errors, then the decoder will return the correct transmitted message.

What is block linear? Block linear layout is to optimize the coherence of 2D (and 3D) access patterns both for reading and writing purposes. This has related ideas to Shared Memory? For block linear surfaces, depends on the architecture, it will have a different vertical arrangement.

What does linear mean in code? A linear code is a one-to-one mapping, f, of k-tuples from the message space to n-tuples,  $f: V \ k ? \ V \ n$ , with n > k. The n-tuples selected as codewords form a subspace of V(k)n? Vn spanned by the k linearly independent vectors.

What is the optimal linear code? A linear code C is called optimal in this context if there is no linear code of the same length and higher minimum distance. There are bounds [8] giving limits for the optimal minimum distance of a linear code of fixed length n. There is a lower bound, saying there is a known linear code having this minimum distance.

**Is linear code more readable?** Linear coding style helps in that. When I refer to "linear code", I generally mean code that is written in a straightforward, top-down manner without nested structures, which can be more readable because it tends to follow a single, simple path of execution.

What is the dimension of a linear code? A linear code is a linear subspace of a vector space of finite dimension d over a prime field ? p, i.e. a vector space isomorphic to (? p) d, for some prime number p (often p=2). The dimension d of the vector space is also called the length of the linear code.

What is a linear block? The codewords in a linear block code are blocks of symbols that are encoded using more symbols than the original value to be sent. A linear code of length n transmits blocks containing n symbols. For example, the [7,4,3] Hamming code is a linear binary code which represents 4-bit messages using 7-bit codewords.

What does linear mean in coding? A linear programming algorithm finds a point in the polytope where this function has the largest (or smallest) value if such a point exists. Linear programs are problems that can be expressed in standard form as. Here the components of are the variables to be determined, and are given vectors, and is a given matrix.

What do you mean by line and block coding? Block Coding – unlike line codes which operate on a stream of. information bits, block codes operate on block. of information bits. • redundant bit(s) are added to each block of information. bits to ensure synchronization and error detection.

What does block mean in coding? In computer programming, a block or code block or block of code is a lexical structure of source code which is grouped together. Blocks consist of one or more declarations and statements.

**How to tell if a code is linear?** A code is a linear code if it is determined by the null space of some matrix H?Mm×n(Z2).

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### How do you code linear programming?

What is an example of linear programming? Linear programming (LP) uses many linear inequalities pertaining to a given scenario to determine the "optimal" value one can obtain under those constraints. A classic example would be calculating the "optimal" production levels to maximize profits, given the restrictions of supplies and personnel.

**Is linear programing easy?** Considerations of subjectivity aside, linear programming is likely one of the easiest topics to learn since linear structures are, relatively speaking, straightforward to contend with. A next step up in generality is convex optimization, of which linear programming is a particular case.

What is the difference between linear code and block code? Block code is the one that encodes data within the block and is a type of error?correcting code that takes a block of k input bits and produces a block of n output bits. A linear block code is a type of block code that satisfies the condition that the sum of any two codewords gives another codeword.

Why is it called block code? Hamming code is called a block code because information is blocked into bit sequences of finite length to which a number of redundant bits are added. When k information bits are provided to a block encoder, n? k redundancy bits are appended to the information bits to form a...

**Is block coding real coding?** Block coding is a valid form of coding, although it's different from the traditional text-based style.

What is a basic block in code? In compiler construction, a basic block is a straightline code sequence with no branches in except to the entry and no branches out except at the exit. This restricted form makes a basic block highly amenable to analysis.

Why is Code::Blocks used? The Code::Blocks debugger has full breakpoint support. It also allows the user to debug their program by having access to the local function symbol and argument display, user-defined watches, call stack, disassembly, custom memory dump, thread switching, CPU registers and GNU Debugger Interface.

What is a logical block of code? Logic blocks are often paired with control blocks to allow you to create conditional statements, control program flow, and execute specific actions based on predefined conditions.

# **How to Speak English Around Town**

Q: Where can I find people to practice speaking English with?

- Coffee shops and cafes: Many coffee shops and cafes have a relaxed atmosphere that encourages conversation. Strike up a chat with someone sitting nearby or join a group that looks friendly.
- Libraries and bookstores: Libraries often host language exchange groups or conversation circles. Bookstores sometimes have author readings or book clubs where you can engage with locals.
- Parks and public spaces: Take a stroll through a park or sit on a bench in a public square. You might encounter people who are open to chatting or practicing their English.

Q: How can I overcome my fear of speaking English in public?

• **Start small:** Begin by practicing with one person or a small group. As you become more comfortable, gradually increase the number of people you

speak with.

- **Use self-talk:** Talk to yourself in English when you're alone. This helps build confidence and fluency.
- Join a language exchange group: Language exchange groups provide a safe and structured environment to practice speaking English with native speakers.

### Q: What are some tips for speaking English confidently?

- **Prepare in advance:** Think about what you want to say and how you can express it in English.
- Slow down and enunciate: Take your time when speaking and make sure to pronounce words clearly.
- **Don't be afraid to make mistakes:** Mistakes are a natural part of language learning. Use them as opportunities to improve.
- **Listen more than you talk:** Pay attention to how native speakers speak and try to mimic their pronunciation and grammar.

#### Q: How can I improve my English vocabulary?

- **Read widely:** Read books, articles, and newspapers in English to expose yourself to new words and phrases.
- **Use flashcards or apps:** Create flashcards or use language learning apps to memorize new vocabulary.
- Watch movies and TV shows in English: Subtitles can help you understand the meaning of words, but try to focus on listening to the language as much as possible.

#### Q: What are some resources for practicing English speaking?

- Online language learning platforms: Platforms like Duolingo, Babbel, and Rosetta Stone offer interactive exercises and lessons to improve speaking skills.
- Language exchange apps: Apps like Tandem and HelloTalk connect you
  with native speakers who are willing to practice English in exchange for help

with their language.

 Tutoring or language classes: Consider taking private tutoring or enrolling in a language class to receive personalized feedback and structured learning opportunities.

What is IBM full at motherboard? The original AT motherboard, later known as "Full AT", is  $13.8 \times 12$  inches ( $351 \times 305$  mm), which means it will not fit in "mini desktop" or "minitower cases". The board's size also means that it takes up space behind the drive bays, making installation of new drives more difficult.

What was the first IBM motherboard? The first motherboard, originally called a "planar" by #IBM, was used in the IBM Personal #Computer (IBM 5150) in 1981.

What is IBM for? IBM (International Business Machines Corporation) is a multinational technology company headquartered in Armonk, N.Y. It was founded in 1911 as the Computing-Tabulating-Recording Company (CTR) and was later renamed to IBM in 1924. IBM is one of the world's largest IT companies, with operations in over 170 countries.

What is the IBM PC used for? The IBM PC could connect to a television and enabled users to process text and play games. It streamlined business operations, spurred the development of the software industry and vaulted computing into the mainstream. Like many other companies at the time, IBM had been selling computers only to businesses.

**Does IBM still exist?** International Business Machines Corporation (using the trademark IBM), nicknamed Big Blue, is an American multinational technology company headquartered in Armonk, New York and present in over 175 countries.

When did IBM stop making PCs? Almost as soon as the PC reached the market, rumors of clones began, and the first legal PC-compatible clone—the MPC 1600 by Columbia Data Products—was released in June 1982, less than a year after the PC's debut. Eventually, IBM sold its PC business to Lenovo in 2004.

What is the old name of IBM? CTR was renamed International Business Machines (IBM) in 1924. The individual companies continued to operate using their established names until the businesses were integrated in 1933 and the holding company

eliminated.

**Is IBM owned by Lenovo?** Lenovo acquired IBM's personal computer business in 2005, including the ThinkPad laptop and ThinkCentre desktop lines. Lenovo's acquisition of IBM's personal computer division accelerated access to foreign markets while improving Lenovo's branding and technology.

**Who owns IBM?** The ownership structure of International Business Machines (IBM) stock is a mix of institutional, retail and individual investors. Approximately 46.58% of the company's stock is owned by Institutional Investors, 0.39% is owned by Insiders and 53.04% is owned by Public Companies and Individual Investors.

What is so great about IBM? IBM has a rich history of being a leader in diversity, equity, and inclusion. Since its founding in 1911, IBM has been dedicated to building a culture of conscious inclusion and providing opportunities for all IBMers to make a positive impact on societies around the world while bringing their authentic selves to work.

Why does IBM no longer dominate the computer industry? By the mid-2000s, the PC market had become extremely competitive with slim profit margins. IBM's CEO cited a lack of room for innovation in the PC space as a reason for their exit, but the reality was that they were also losing money. In 2005, IBM sold off their entire PC division to Lenovo.

What was the best computer in 1981? 1981: IBM PC Model 5150 A loaded system with 64K of memory, one floppy drive, and a monochrome monitor cost about \$3,000. The 5150's design made several compromises—its Intel 8088 CPU had 16-bit registers but an 8-bit external data bus allowing cheaper support and peripheral chips.

Why was the IBM PC so successful? On August 12, 1981, IBM released the IBM Personal Computer. One of the most far-reaching decisions made for IBM PC was to use an open architecture, leading to a large market for third party add-in boards and applications; but finally also to many competitors all creating "IBM-compatible" machines.

What is IBM as full form? What is the Full form of IBM? The full form of IBM is International Business Machines. IBM Corporation is a global IT and outsourcing company, a respected name in the IT sector.

What is the full form of AT in the IBM PC at? The term "advanced technology" is its complete form. The IBM Personal Computer AT, occasionally also referred to as the PC AT or PC/AT, is referred to as "Advanced Technology" (abbreviated as "AT"). It was a second-generation IBM computer with a 6 MHz Intel 80286 CPU.

What is the full form of IBM board? The International Business Machines Corporation (IBM) is an American multinational technology company headquartered in Armonk, New York, United States, with operations in over 170 countries.

What is a full AT motherboard? Commonly called AT (advanced technology) and full-size AT, Full AT is a motherboard form factor introduced by IBM in August 1984, and was widely used in the 1980s. The Full AT is 12" wide x 13.8" deep and only fits into a full size AT tower case.

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