

mars retrograde dates history

Mars Retrograde Dates History: Exploring the Cosmic Dance of the Red Planet

mars retrograde dates history is a fascinating topic that blends astronomy, astrology, and cultural beliefs into a cosmic narrative that has intrigued humanity for centuries. When Mars appears to move backward in the sky, known as retrograde motion, it sparks curiosity and speculation among stargazers and astrologers alike. Understanding the history and significance of Mars retrograde dates allows us to appreciate not only the celestial mechanics behind this phenomenon but also its impact on human culture and personal reflection.

What Is Mars Retrograde?

Before diving into the historical timeline, it's important to grasp what Mars retrograde actually is. Mars retrograde occurs when the Red Planet seems to reverse its direction in the sky from our perspective on Earth. This optical illusion happens because of the relative speeds and positions of Earth and Mars in their respective orbits around the Sun.

The Astronomical Explanation

As Earth, moving faster on an inner orbit, overtakes Mars, Mars appears to slow down, stop, and move backward against the backdrop of stars for several weeks. This apparent backward motion is what astronomers call retrograde. After this period, Mars resumes its usual eastward motion, known as direct or prograde motion.

The Frequency and Duration of Mars Retrograde

Mars retrograde happens approximately every 26 months, lasting roughly 2 to 2.5 months each time. This cyclical event has been observed and recorded for thousands of years, offering a rich history that connects ancient sky watchers with modern-day astrologers.

Mars Retrograde Dates History: A Timeline of Notable Retrogrades

Tracking the mars retrograde dates history reveals patterns and insights that have influenced both scientific understanding and cultural interpretations. Here are some notable retrograde periods from recent history and distant past:

Ancient Civilizations and Mars Retrograde Observations

Long before telescopes, ancient civilizations such as the Babylonians, Greeks, and Egyptians meticulously tracked Mars' movements. The Babylonians were among the first to document retrograde motion in cuneiform tablets around 700 BCE, recognizing its cyclical nature. For them, Mars was associated with war and conflict, and its retrograde periods were often interpreted as times of upheaval or significant change.

Mars Retrograde in the Middle Ages

During the Middle Ages, astronomers like Ptolemy expanded on the geocentric model, explaining retrograde motion through complex epicycles—small circles on which planets moved while orbiting Earth. Although the understanding was incorrect by modern standards, the meticulous records allowed for predicting Mars retrograde dates with reasonable accuracy.

Modern Era and Mars Retrograde Dates

With the advent of the heliocentric model by Copernicus in the 16th century and later advancements by Kepler and Newton, the true cause of Mars retrograde became clear. Today, astronomers can precisely calculate Mars retrograde dates centuries in advance. Some recent retrograde periods include:

- September 9, 2022 - November 13, 2022
- October 30, 2020 - January 12, 2021
- June 26, 2018 - August 27, 2018

These dates not only help astronomers but also astrologers who interpret retrogrades as significant for personal and collective energies.

The Astrological Significance of Mars Retrograde Dates History

Mars retrograde carries a different weight in astrology compared to astronomy. Known as the planet of action, energy, and aggression, Mars' retrograde phase is often seen as a time to pause, reflect, and reconsider one's drives and motivations.

How Mars Retrograde Influences Personal Energy

When Mars goes retrograde, its typical fiery and assertive energy is thought to become internalized or confused. People might experience delays in projects, misunderstandings in communication, or a re-evaluation of their goals. The history of Mars retrograde in astrology emphasizes the importance of patience and strategic planning during these phases.

Historical Events and Mars Retrograde

Interestingly, some historians and astrologers look back at major historical events to find correlations with Mars retrograde periods. For example, certain military conflicts, political upheavals, or social movements have coincided with Mars retrograde, reinforcing the planet's association with conflict and transformation.

Tracking Mars Retrograde Today: Tools and Resources

Thanks to modern technology, it's easier than ever to follow the Mars retrograde dates history and anticipate future retrogrades. There are numerous tools and resources that provide detailed information:

- **Online Ephemerides:** Tables that list planetary positions and retrograde periods.
- **Astrology Apps:** Many apps notify users of upcoming retrogrades and offer personalized insights.
- **Astronomy Software:** Programs like Stellarium allow users to visualize Mars' motion in real time.

By combining historical data with these modern tools, enthusiasts and professionals alike can deepen their understanding of Mars retrograde's influence.

Practical Tips for Navigating Mars Retrograde

Whether you approach Mars retrograde from an astronomical curiosity or an astrological perspective, there are practical ways to make the most of this period:

1. **Reflect on Goals:** Use the slower energy to reassess ambitions and strategies.
2. **Practice Patience:** Avoid rushing decisions, especially in conflict or negotiation.

3. **Focus on Inner Work:** Channel Mars' energy inward to build resilience and self-awareness.
4. **Stay Informed:** Keep track of the specific dates and phases to better plan activities.

Understanding the mars retrograde dates history can empower you to align your actions with cosmic rhythms, turning potential challenges into growth opportunities.

Looking Ahead: Future Mars Retrograde Dates

For those curious about what's coming next, the upcoming Mars retrograde periods offer a glimpse into future cycles of reflection and recalibration. Future retrograde spans include:

- December 6, 2024 - February 23, 2025
- February 18, 2027 - April 12, 2027
- May 1, 2029 - June 15, 2029

By marking these dates, you can prepare to harness the unique energy of Mars retrograde in your personal or professional life.

Mars retrograde dates history is a captivating intersection of science, spirituality, and culture. Whether you're charting the stars with a telescope or reflecting on your inner fire, the retrograde cycle of Mars offers a powerful invitation to pause, reconsider, and move forward with greater awareness. The Red Planet's backward dance is not just a celestial event but a timeless symbol of transformation woven into the fabric of our shared human story.

Frequently Asked Questions

What is Mars retrograde?

Mars retrograde is an astrological phenomenon where the planet Mars appears to move backward in its orbit from the perspective of Earth, typically lasting about 2 to 2.5 months.

How often does Mars go retrograde?

Mars goes retrograde approximately every 26 months, or about every 2 years and 2 months.

Why is Mars retrograde significant in astrology?

In astrology, Mars retrograde is believed to affect energy, motivation, and aggression, often causing delays, frustrations, and a need to reassess actions and goals.

When was the most recent Mars retrograde period?

The most recent Mars retrograde occurred from October 30, 2022, to January 12, 2023.

What were the Mars retrograde dates in 2020?

Mars retrograde in 2020 lasted from September 9, 2020, to November 13, 2020.

How far back can we trace Mars retrograde dates historically?

Mars retrograde dates can be traced back thousands of years using astronomical records and calculations, as Mars' retrograde motion is a predictable celestial event.

How does Mars retrograde affect historical events?

Some astrologers believe Mars retrograde correlates with periods of conflict, delays in military actions, or reconsideration of aggressive strategies, though these connections are speculative.

What are the upcoming Mars retrograde dates?

The next Mars retrograde period will be from December 6, 2024, to February 23, 2025.

How can one find historical Mars retrograde dates?

Historical Mars retrograde dates can be found using astronomical software, ephemerides, or online databases that track planetary movements over time.

Additional Resources

Mars Retrograde Dates History: A Comprehensive Analysis of Celestial Patterns and Their Significance

mars retrograde dates history reveals a fascinating chronology of the Red Planet's apparent backward motion as observed from Earth. This celestial phenomenon, known as Mars retrograde, has intrigued astronomers, astrologers, and historians alike for centuries. Understanding the timeline and implications of Mars retrograde events not only enriches our knowledge of planetary dynamics but also sheds light on cultural interpretations and astrological beliefs tied to this cosmic occurrence.

The Phenomenon of Mars Retrograde Explained

Mars retrograde is an optical illusion caused by the relative positions and motions of Earth and Mars in their orbits around the Sun. When Mars appears to move westward against the background of stars, rather than its usual eastward trajectory, it is said to be in retrograde motion. This phenomenon typically occurs approximately every 26 months and lasts for about 70 to 80 days.

The historical tracking of Mars retrograde dates provides valuable insights into the orbital mechanics of our solar system. Early astronomers, from ancient Babylonians to Renaissance scholars, meticulously recorded these periods to refine their models of planetary motion. Such records contributed significantly to the eventual development of the heliocentric model and Kepler's laws of planetary motion.

Historical Records of Mars Retrograde

Historical documentation of Mars retrograde dates spans millennia. Ancient civilizations, including the Greeks and Romans, observed and cataloged the planet's movements, often linking its retrograde phases to mythological and agricultural cycles. Notable historical records include:

- **Babylonian Astronomical Diaries:** These detailed clay tablets from around 7th century BCE contain some of the earliest systematic observations of Mars' retrograde motion.
- **Ptolemy's Almagest (2nd century CE):** Claudius Ptolemy's geocentric model sought to explain Mars retrograde through complex epicycles, influencing astronomy for over a millennium.
- **Copernican Revolution (16th century):** Nicolaus Copernicus proposed a heliocentric system that naturally accounted for retrograde motions, marking a paradigm shift in understanding Mars' apparent backward movement.

These historical milestones underscore how Mars retrograde dates have been crucial in the evolution of astronomical thought.

Recent and Upcoming Mars Retrograde Dates

Modern astronomy precisely calculates Mars retrograde periods using advanced orbital mechanics. Tracking these dates allows both scientists and astrologers to anticipate the planet's apparent movement and its potential influences. The recent Mars retrograde periods include:

- **September 9, 2020 - November 13, 2020:** This retrograde was notable for occurring in the zodiac sign Aries, often associated with action and aggression in astrology.

- **October 30, 2022 - January 12, 2023:** Mars retrograde during this period took place in Gemini, emphasizing communication and adaptability themes.

Looking ahead, Mars retrograde dates scheduled for the near future are:

- **December 6, 2024 - February 23, 2025**
- **February 6, 2027 - April 26, 2027**

These dates are determined by precise celestial calculations and provide astronomers and astrologers with a framework for observation and interpretation.

Impact of Mars Retrograde on Astronomy and Astrology

While Mars retrograde is fundamentally an astronomical event, its influence extends beyond science into cultural and astrological realms. In astronomy, retrograde motion is a predictable, cyclical phenomenon that validates models of planetary orbits. It helps astronomers refine ephemerides and understand orbital eccentricities and velocities.

Astrologically, Mars retrograde is often interpreted as a time when the planet's energies—associated with drive, aggression, and ambition—are subdued or redirected. Practitioners observe these periods to advise caution in areas such as conflict resolution, physical activity, and decision-making. The historical data on Mars retrograde dates history enriches astrological charts, providing context for patterns of behavior and historical events.

Comparative Analysis: Mars Retrograde Versus Other Planetary Retrogrades

Mars is one of several planets that undergo retrograde motion, but it holds a distinctive place due to its association with energy and assertiveness. Comparing Mars retrograde with other outer planets like Jupiter, Saturn, and Mercury reveals both similarities and unique characteristics:

- **Duration:** Mars retrograde typically lasts around 70-80 days, shorter than Jupiter's or Saturn's retrogrades, which can last several months.
- **Frequency:** Mars retrograde occurs approximately every 26 months, more frequently than outer planets but less often than Mercury, which retrogrades three to four times a year.
- **Astrological Significance:** Mars retrograde is often associated with internalized energy and delayed action, whereas Mercury retrograde tends to relate to communication breakdowns and technological mishaps.

Understanding these distinctions enhances the interpretation of Mars retrograde dates history within broader planetary cycles.

Technological Advances in Tracking Mars Retrograde

The ability to chart Mars retrograde with precision has dramatically improved with advances in technology. From early naked-eye observations and rudimentary instruments to modern telescopes and space probes, the accuracy of Mars' orbital data has increased exponentially.

Space missions such as NASA's Mars rovers and orbiters contribute detailed information about Mars' position, motion, and physical characteristics. Meanwhile, computer simulations and celestial mechanics software now allow for the prediction of retrograde events centuries in advance, providing valuable tools for both scientific research and astrological forecasting.

The Role of Mars Retrograde in Historical Events and Cultural Narratives

Throughout history, Mars retrograde phases have been linked, sometimes anecdotally, to significant societal and political events. In various cultures, Mars' retrograde motion has been interpreted as an omen or a time of upheaval due to the planet's symbolic connection with war and conflict.

For example, some historians correlate periods of Mars retrograde with increased tensions or wars, though such connections remain speculative and require cautious interpretation. Nevertheless, exploring these associations enriches our understanding of how celestial events have shaped human narratives.

Mars retrograde dates history also plays a role in astrology-based decision-making in areas such as agriculture, warfare, and personal planning, reflecting humanity's longstanding quest to find meaning in the stars.

The study of Mars retrograde dates history is a compelling intersection of astronomy, astrology, and cultural history. As our tools for observing and predicting celestial phenomena become ever more sophisticated, the legacy of Mars retrograde continues to inspire inquiry and interpretation across disciplines. Whether approached from a scientific or symbolic perspective, the Red Planet's retrograde motion remains a captivating subject in the tapestry of human understanding of the cosmos.

Mars Retrograde Dates History

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mars retrograde dates history: The Great Events of Global History, Vol. 9 Various, 2016-11-08 History, if we define it as the mere transcription of the written records of former generations, can go no farther back than the time such records were first made, no farther than the art of writing. But now that we have come to recognize the great earth itself as a story-book, as a keeper of records buried one beneath the other, confused and half obliterated, yet not wholly beyond our comprehension, now the historian may fairly be allowed to speak of a far earlier day. For unmeasured and immeasurable centuries man lived on earth a creature so little removed from the beasts that die, so little superior to them, that he has left no clearer record than they of his presence here. From the dry bones of an extinct mammoth or a plesiosaur, Cuvier reconstructed the entire animal and described its habits and its home. So, too, looking on an ancient, strange, scarce human skull, dug from the deeper strata beneath our feet, anatomists tell us that the owner was a man indeed, but one little better than an ape. A few æons later this creature leaves among his bones chipped flints that narrow to a point; and the archæologist, taking up the tale, explains that man has become tool-using, he has become intelligent beyond all the other animals of earth. Physically he is but a mite amid the beast monsters that surround him, but by value of his brain he conquers them. He has begun his career of mastery.

mars retrograde dates history: History of the Calendar in Different Countries Through the Ages Meghnad Saha, N. C. Lahiri, 1992

mars retrograde dates history: Star Gods of the Maya Susan Milbrath, 2010-01-01 "A prodigious work of unmatched interdisciplinary scholarship" on Maya astronomy and religion (Journal of Interdisciplinary History). Observations of the sun, moon, planets, and stars played a central role in ancient Maya lifeways, as they do today among contemporary Maya who maintain the traditional ways. This pathfinding book reconstructs ancient Maya astronomy and cosmology through the astronomical information encoded in Pre-Columbian Maya art and confirmed by the current practices of living Maya peoples. Susan Milbrath opens the book with a discussion of modern Maya beliefs about astronomy, along with essential information on naked-eye observation. She devotes subsequent chapters to Pre-Columbian astronomical imagery, which she traces back through time, starting from the Colonial and Postclassic eras. She delves into many aspects of the Maya astronomical images, including the major astronomical gods and their associated glyphs, astronomical almanacs in the Maya codices and changes in the imagery of the heavens over time. This investigation yields new data and a new synthesis of information about the specific astronomical events and cycles recorded in Maya art and architecture. Indeed, it constitutes the first major study of the relationship between art and astronomy in ancient Maya culture. "Milbrath has given us a comprehensive reference work that facilitates access to a very broad and varied body of literature spanning several disciplines." —Isis "Destined to become a standard reference work on Maya archaeoastronomy . . . Utterly comprehensive." —Andrea Stone, Professor of Art History, University of Wisconsin, Milwaukee

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and the advancement of the Greeks, Romans, Medieval Europe, and Renaissance Europe. The author begins each chapter by setting the historical backdrop that is pertinent to the mathematical material that is discussed, equipping readers with the knowledge to fully grasp the presented examples and derive the ellipse as the planetary pathway. All topics are presented in both historical and mathematical contexts, and additional mathematical excursions are clearly marked so that readers have a guidepost for the materials' relevance to the development of the ellipse. The Ellipse is an excellent book for courses on the history of mathematics at the undergraduate level. It is also a fascinating reference for mathematicians, engineers, or anyone with a general interest in historical mathematics.

mars retrograde dates history: Retrograde Planets Erin Sullivan, 2006-10-11 Geocentricity might well be egocentricity the phenomenon of retrograde motion is based on our Earth-centered view of the solar system, but the movement and cycles of retrograde planets are based entirely on the apparent motion of the Sun through the zodiac. Sullivan organizes and explains retrograde motion from a systems-view-point the system of the Sun and planets and interprets retrograde planets natally, by progression, and in transit.

mars retrograde dates history: The History of Science and Technology in the Spring and Autumn Period and the Warring States Period Li Shi, The book is the volume of "The History of Science and Technology in the Spring and Autumn Period and the Warring States Period" among a series of books of "Deep into China Histories". The earliest known written records of the history of China date from as early as 1250 BC, from the Shang dynasty (c. 1600-1046 BC) and the Bamboo Annals (296 BC) describe a Xia dynasty (c. 2070-1600 BC) before the Shang, but no writing is known from the period The Shang ruled in the Yellow River valley, which is commonly held to be the cradle of Chinese civilization. However, Neolithic civilizations originated at various cultural centers along both the Yellow River and Yangtze River. These Yellow River and Yangtze civilizations arose millennia before the Shang. With thousands of years of continuous history, China is one of the world's oldest civilizations, and is regarded as one of the cradles of civilization. The Zhou dynasty (1046-256 BC) supplanted the Shang and introduced the concept of the Mandate of Heaven to justify their rule. The central Zhou government began to weaken due to external and internal pressures in the 8th century BC, and the country eventually splintered into smaller states during the Spring and Autumn period. These states became independent and warred with one another in the following Warring States period. Much of traditional Chinese culture, literature and philosophy first developed during those troubled times. In 221 BC Qin Shi Huang conquered the various warring states and created for himself the title of Huangdi or emperor of the Qin, marking the beginning of imperial China. However, the oppressive government fell soon after his death, and was supplanted by the longer-lived Han dynasty (206 BC - 220 AD). Successive dynasties developed bureaucratic systems that enabled the emperor to control vast territories directly. In the 21 centuries from 206 BC until AD 1912, routine administrative tasks were handled by a special elite of scholar-officials. Young men, well-versed in calligraphy, history, literature, and philosophy, were carefully selected through difficult government examinations. China's last dynasty was the Qing (1644-1912), which was replaced by the Republic of China in 1912, and in the mainland by the People's Republic of China in 1949. Chinese history has alternated between periods of political unity and peace, and periods of war and failed statehood - the most recent being the Chinese Civil War (1927-1949). China was occasionally dominated by steppe peoples, most of whom were eventually assimilated into the Han Chinese culture and population. Between eras of multiple kingdoms and warlordism, Chinese dynasties have ruled parts or all of China; in some eras control stretched as far as Xinjiang and Tibet, as at present. Traditional culture, and influences from other parts of Asia and the Western world (carried by waves of immigration, cultural assimilation, expansion, and foreign contact), form the basis of the modern culture of China.

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notion of motion and unique insights into the fundamental physics behind it all - including relativity. The physics of motion is so fundamental to science and the technological age in which we live that four of the most illustrious names in the annals of science owe their towering reputations, in large part, to their milestone work on the physics of motion. This book relates the stories of Johannes Kepler, Galileo Galilei, Isaac Newton, and Albert Einstein as they each stalked the elusive notion of motion. Following in their footsteps, both the layperson with no formal background in mathematics or physics and the practicing engineer/scientist will better understand those physical principles which eluded the best minds for centuries. As Aristotle observed over two thousand years ago, in order to know the natural world, one must first understand motion. Alan Kubitz lives in the heart of California's silicon valley where he spent many years as an electrical engineer designing computer peripheral devices. Throughout his engineering career and subsequent retirement, he has been deeply interested in the history of science, with an emphasis on the fifteenth through the nineteenth centuries. His particular interest is the physics of motion and the pioneering scientists (natural philosophers) such as Galileo and Newton who bequeathed to us the intellectual crown jewels which comprise the foundation of modern physics. Mr. Kubitz has accumulated a substantial reference library on these subjects and enjoys writing about them. Other interests include music, book collecting and, with his wife, their four grandchildren. He holds a Bachelor of Science degree in electrical engineering from Stanford University and a Master of Science degree in electrical engineering from the University of California, Santa Barbara.

mars retrograde dates history: *Archaeoastronomy* Giulio Magli, 2015-10-30 This book provides the first complete, easy to read, up-to-date account of the fascinating discipline of archaeoastronomy, in which the relationship between ancient constructions and the sky is studied in order to gain a better understanding of the ideas of the architects of the past and of their religious and symbolic worlds. The book is divided into three sections, the first of which explores the past relations between astronomy and people, power, the afterworld, architecture, and landscape. The fundamentals of archaeoastronomy are then addressed in detail, with coverage of the celestial coordinates; the apparent motion of the Sun, Moon, stars, and planets; observation of celestial bodies at the horizon; the use of astronomical software in archaeoastronomy; and current methods for making and analyzing measurements. The final section reviews what archaeoastronomy can now tell us about the nature and purpose of such sites and structures as Stonehenge, the Pyramids of Giza, Chichen Itza, the Campus Martius, and the Valley of the Temples of Agrigento. In addition, a set of exercises is provided that can be performed using non-commercial free software, e.g., Google Earth or Stellarium, and will equip readers to conduct their own research. Readers will find the book an ideal introduction to what has become a wide-ranging multidisciplinary science.

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mars retrograde dates history: The Astrological Magazine , 2007

mars retrograde dates history: *Imago Cosmi* Daniele L. R. Marini, 2023-09-07 This book takes the reader on an exploration of the Cosmos, from Mesopotamia and Egypt to China; it unveils the fascinating development of astronomy and mathematics. After an overview of the origins of these subjects, highlighting the contributions of Greek astronomers, the Arab culture, and Copernicus' solar system model, the book delves into the revolutionary work of Tycho Brahe, Johannes Kepler, Galileo Galilei, and Isaac Newton, leading to a comprehensive understanding of the solar system. Special attention is given to the instruments used by ancient astronomers, including the most important astronomical clocks and planetary machines. In light of this, the author examines Kepler's almost unknown design of a planetary machine and offers an interpretation using virtual reality techniques. The book also highlights the Chinese view of the Cosmos and the evolution of its astronomy and astronomical machines, offering readers a unique perspective and insight into the relationship between astronomy and technology in different cultures. Finally, the author provides a practical approach to understanding the construction and mechanics of astronomical machines, exploring the process of designing and manufacturing a Tellurium. The reading is enriched with short videos of the Tellurium, along with a translation of the description of the planetary machine by Christiaan Huygens. In addition, it provides a unique glimpse into the religious influences on astronomical studies during the mid-1700s through the translation of Johann Albrecht Bengel's book *Cyclus*. This book is a must-read for anyone interested in the history of science and technology. It appeals to astronomers, mathematicians, physicists, and historians of science and technology alike, providing fascinating descriptions and insightful analysis of the vision of the Cosmos from its earliest conceptions to the present day.

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mars retrograde dates history: *The Works of Ibn Wāḍiḥ al-Yaʿqūbī (Volume 3)* Matthew S. Gordon, Chase F. Robinson, Everett K. Rowson, Michael Fishbein, 2018-03-20 The Works of Ibn Wāḍiḥ al-Yaʿqūbī, a three volume set, contains a fully annotated translation of the extant writings of Abū al-ʿAbbās al-Yaʿqūbī, a Muslim imperial official and polymath of the third/ninth century, along with an introduction to these works and a biographical sketch of their author. The most important of the works are the History (Taʾrikh) and his Geography (Kitab al-buldan). It also contains a new

translation of al-Ya'qūbī's political essay (Mushakalat al-nas) and a set of fragmentary texts drawn from other Arabic medieval works. Al-Ya'qūbī's writings are among the earliest surviving Arabic-language works of the Islamic period, and thus offer an invaluable body of evidence on patterns of early Islamic history, social and economic organization, and cultural production. Contributors: Laila Asser, Paul Cobb, Lawrence I. Conrad, Elton Daniel, Fred Donner, Michael Fishbein, Matthew S. Gordon, Sidney H. Griffith, Wadad Kadi (al-Qāḍī), Lutz Richter-Bernberg, Chase F. Robinson, Everett K. Rowson The hardback edition of this title is also available as part of a 3-volume set (hardback, ISBN 978-90-04-35608-5), [click here](#).

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