

THE EVOLUTION OF BEAUTY HOW DARWIN S FORGOTTEN THE Reference

The evolution of beauty how Darwin?s forgotten the is a fascinating topic that delves into the intricate ways human perceptions of attractiveness have developed over millennia. While Charles Darwin?s theories on natural and sexual selection have profoundly shaped our understanding of evolution, there is a lesser-known aspect of his work that explores how beauty itself evolves?yet this part of his legacy has often been overlooked or misunderstood. In this article, we will explore the complex history of beauty from an evolutionary perspective, examining Darwin?s contributions, the scientific developments that followed, and how modern insights continue to reshape our understanding of what makes something or someone beautiful.

Understanding Darwin?s Perspective on Beauty and Evolution

Darwin?s Theories of Natural and Sexual Selection

Charles Darwin, in his groundbreaking work *On the Origin of Species* (1859), introduced the concepts of natural selection?the process by which traits that enhance survival become more common?and sexual selection, which explains how certain traits evolve because they increase an individual?s chances of reproductive success. While these theories are widely recognized, Darwin also contemplated how aesthetic preferences and perceptions of beauty influence these processes.

Beauty as a Signal of Fitness

Darwin proposed that beauty is not merely superficial but often serves as a signal of an organism?s health, vitality, or genetic quality. For example:

- Bright plumage in peacocks signals good health and strong genetics.
- Symmetrical faces may indicate developmental stability.
- Certain body features might suggest fertility or good genes.

This idea posits that what humans and animals find beautiful is tied to evolutionary cues that indicate reproductive fitness. However, Darwin was cautious about over-interpreting beauty as purely utilitarian, acknowledging that aesthetic preferences could be shaped by cultural factors as well.

The Forgotten Aspect of Darwin?s Work on Beauty

Darwin's Early Observations and Theories

Initially, Darwin believed that beauty and aesthetic preferences played a significant role in evolution, especially in the context of sexual selection. In his later works, such as *The Descent of Man* (1871), he explored how mate choice influences the development of elaborate traits and beauty standards.

Why Did Darwin's Focus on the Evolution of Beauty Fade?

Despite his early insights, Darwin's emphasis on the evolution of beauty was overshadowed by other scientific priorities:

- The rise of genetics and Mendelian inheritance shifted focus away from aesthetic considerations.
- The perception that beauty was too subjective to be scientifically studied.
- The dominance of utilitarian views that prioritized survival traits over ornamental features.

As a result, the notion that beauty itself could evolve through natural and sexual selection was somewhat neglected in subsequent scientific discourse, leading to what can be called Darwin's forgotten theory of the evolution of beauty.

Modern Scientific Perspectives on the Evolution of Beauty

Evolutionary Psychology and Aesthetic Preferences

Today, researchers in evolutionary psychology explore how aesthetic preferences have developed to favor traits that signal reproductive fitness. Key points include:

- Symmetry and facial attractiveness as indicators of health.
- Preferences for waist-to-hip ratios linked to fertility.
- The universality of certain beauty standards across cultures.

Biological and Cultural Interplay

While biological factors influence perceptions of beauty, cultural elements also play a crucial role. The evolution of beauty standards is dynamic and reflects societal, environmental, and technological changes.

Factors influencing beauty evolution include:

- Environmental conditions
- Cultural norms and media influence
- Historical trends and globalization

Historical Evolution of Beauty Standards

Beauty in Ancient Civilizations

Different cultures celebrated various features as beautiful:

- Ancient Egypt valued symmetrical features and kohl-lined eyes.
- The Renaissance period emphasized fuller figures and elaborate adornment.
- Traditional Asian cultures appreciated delicate features and smooth skin.

Modern Trends and Their Origins

In recent centuries, beauty standards have shifted with technological advances:

- The invention of photography and film popularized certain aesthetic ideals.
- The beauty industry capitalized on changing trends to promote products.
- Social media now amplifies and accelerates the dissemination of beauty standards worldwide.

The Impact of Evolutionary Theories on Contemporary Beauty Ideas

Beauty as a Reflection of Evolutionary Success

Modern interpretations often link beauty to evolutionary success, suggesting:

- Attractive individuals may have higher mating opportunities.
- Societal preferences reinforce certain traits as desirable.
- The pursuit of beauty is intertwined with biological drives.

Critiques and Ethical Considerations

However, this perspective raises concerns:

- It can perpetuate unrealistic beauty standards.

- It risks reinforcing stereotypes or marginalizing those who do not fit conventional ideals.
- There is a growing movement to embrace diverse and inclusive definitions of beauty.

Conclusion: Rethinking the Evolution of Beauty

The evolution of beauty is a multifaceted subject that bridges biology, psychology, culture, and history. Darwin's early insights into how aesthetic preferences influence reproductive success laid the groundwork for contemporary research, yet his ideas about the evolution of beauty remain somewhat 'forgotten' or underappreciated in mainstream scientific discourse. Recognizing that beauty is an evolving trait shaped by natural selection, sexual selection, and cultural forces allows us to appreciate the diversity of standards across time and societies. As science continues to explore these dynamics, we are reminded that beauty is not merely superficial—it is deeply rooted in our evolutionary history, yet continuously reshaped by the rich tapestry of human culture. Embracing this complexity enables a more inclusive and nuanced understanding of what it means to be beautiful in a constantly changing world.

The Evolution of Beauty: How Darwin's Forgotten Theories Shape Our Understanding Today

The concept of the evolution of beauty has long fascinated both scientists and laypeople alike. While contemporary discussions often focus on aesthetic standards rooted in culture, media, and individual preferences, the origins of how beauty has evolved—particularly through the lens of Darwinian theory—are often overlooked or misunderstood. Darwin's contributions to our understanding of natural selection and sexual selection laid foundational ideas that continue to influence evolutionary biology, yet his nuanced perspectives on beauty and attractiveness have been somewhat overshadowed or forgotten over time. In this article, we delve into the fascinating history of how beauty has evolved, explore Darwin's often-forgotten insights, and examine how these ideas inform modern science and cultural perceptions of attractiveness.

The Roots of Evolutionary Perspectives on Beauty

Early Concepts of Aesthetics and Nature

Before Darwin, ideas about beauty and nature were often rooted in philosophical or religious frameworks. Thinkers like Plato and Aristotle pondered harmony, proportion, and the divine nature of beauty, while religious doctrines often linked beauty to spiritual virtue. The scientific understanding of beauty as an evolved trait was limited or nonexistent.

Darwin's Breakthrough: Natural and Sexual Selection

Charles Darwin's seminal works, particularly *The Descent of Man* and *The Expression of the Emotions in Man and Animals*, revolutionized how scientists viewed the development of traits,

including those related to attractiveness. Darwin proposed two primary mechanisms:

- Natural Selection: Traits that increased survival chances became more common.
- Sexual Selection: Traits that increased reproductive success, even if detrimental to survival, could also become prevalent.

While natural selection explained adaptation and survival, sexual selection introduced a new dimension: the role of mate choice in shaping traits?including those associated with beauty.

Darwin?s Forgotten Theories on Beauty and Attraction

The Role of Sexual Selection in Beauty

Darwin argued that many features considered beautiful?such as bright plumage in birds or elaborate displays?serve to attract mates. These traits, which sometimes seem maladaptive from a survival perspective, persist because they confer reproductive advantages.

Key ideas include:

- Display Traits: Features like peacock tails or bird songs are exaggerated to impress potential mates.
- Preference Evolution: The preferences of mates can drive the evolution of physical traits?a process called mate choice.

The "Fitness Signaling" Hypothesis

An often-overlooked aspect of Darwin?s work is his idea that certain physical traits act as signals of genetic fitness. For example:

- Bright coloration indicates good health.
- Symmetrical features suggest developmental stability.

These signals influence mate choice, thereby shaping the evolution of beauty standards across species.

The Importance of Symmetry and Proportions

Darwin observed that symmetrical features are often preferred because they may reflect

developmental stability and genetic quality. This idea aligns with modern research indicating that symmetry is associated with attractiveness in humans and animals alike.

The Evolution of Beauty in Humans: Beyond Biology

Cultural Variations and Biological Bases

While Darwin emphasized biological underpinnings, human perceptions of beauty are also heavily influenced by culture, society, and personal experiences. However, some biological factors he identified remain relevant:

- Facial symmetry as a universal marker of attractiveness.
- Indicators of health and fertility, such as clear skin or body proportions.

The Role of Cultural Evolution

Cultural shifts can redefine beauty standards rapidly, but underlying biological preferences often persist. For example:

- Preferences for certain waist-to-hip ratios in women.
- The emphasis on facial symmetry across cultures.

Modern Interpretations of Darwin's Ideas

Contemporary science continues to explore:

- How sexual selection influences fashion, beauty ideals, and cosmetic enhancements.
- The genetics of attractiveness, including the role of genes linked to immune system diversity (e.g., the Major Histocompatibility Complex).

How Darwin's Forgotten Theories Inform Modern Science

The Sexual Selection Paradigm in Evolutionary Psychology

Researchers have expanded Darwin's ideas to explain human mate preferences and societal beauty standards. For example:

- Preference for youthful features may signal fertility.
- Traits associated with resource acquisition or social status are also valued.

Biometrics and Evolutionary Aesthetics

Advances in technology allow scientists to measure and analyze features such as facial symmetry, proportions, and even vocal qualities, linking these traits to reproductive success.

The Debate: Nature vs. Nurture in Beauty

While Darwin emphasized biological bases, modern discussions emphasize the complex interplay between genetics and environment:

- How cultural norms modify biological predispositions.
- The impact of media and globalization on beauty standards.

Practical Implications and Future Directions

Cosmetic and Medical Applications

Understanding the evolution of beauty can inform:

- Cosmetic procedures aimed at enhancing symmetry or proportions.
- Treatments that signal health or vitality.

Ethical Considerations

As science uncovers genetic and biological bases of attractiveness, ethical questions arise:

- Should beauty be engineered or manipulated?
- How do we navigate societal pressures related to beauty standards?

The Future of Beauty and Evolution

Potential future avenues include:

- Genetic engineering to enhance qualities associated with attractiveness.

- Personalized beauty based on individual genetic profiles.

Conclusion: Revisiting Darwin's Forgotten Insights

While Darwin's theories on natural and sexual selection revolutionized our understanding of evolution, his specific insights into the evolution of beauty have often been overlooked or undervalued in modern discourse. Recognizing the importance of signals like symmetry, health, and reproductive fitness enriches our understanding of why certain traits are deemed attractive across species and how these preferences continue to influence human culture and individual choices.

By revisiting Darwin's forgotten theories, scientists and society can gain a deeper appreciation for the biological roots of beauty, fostering a more nuanced and respectful perspective on attractiveness that integrates both evolutionary science and cultural diversity. As we move forward, the challenge lies in balancing scientific understanding with ethical considerations, ensuring that the pursuit of beauty promotes health, authenticity, and diversity rather than superficial standards.

In summary, the evolution of beauty is a complex interplay of biological signals, mate preferences, and cultural influences many of which trace back to Darwin's pioneering but often overlooked insights. Recognizing and understanding these connections not only enriches our appreciation of natural history but also provides valuable perspectives on human aesthetics, health, and societal values.

Question What is the main argument of 'The Evolution of Beauty' by Richard O. Prum? Prum argues that aesthetic preferences, especially in mate selection, have been a driving force in evolution, challenging the traditional view that natural selection alone explains evolutionary change. **How does Darwin's concept of natural selection differ from the ideas presented in 'The Evolution of Beauty'?** While Darwin emphasized natural selection based on survival and reproductive advantages, Prum highlights the role of subjective aesthetic preferences in shaping evolutionary traits, an aspect he suggests Darwin may have overlooked or 'forgotten.' **Why does Prum believe Darwin's focus on survival traits overlooks the importance of beauty?** Prum contends that Darwin's framework underemphasized the role of beauty and aesthetic preferences in mate choice, which can lead to the development of elaborate and ornate traits independent of survival benefits. **In what ways has the concept of beauty influenced evolutionary processes according to Prum?** Prum suggests that aesthetic preferences have driven the development of intricate plumage, elaborate courtship displays, and other traits, acting as a feedback loop that propels the evolution of beauty itself. **What are some examples of beauty-driven evolution discussed in the book?** Examples include the peacock's elaborate tail feathers, the bright plumage of certain birds, and ornate courtship dances, which have evolved partly due to aesthetic preferences rather than survival advantages. **How does 'The Evolution of Beauty' challenge traditional Darwinian views?** It challenges the idea that natural selection solely explains evolution by emphasizing the significance of sexual selection and aesthetic preferences as independent forces shaping biological diversity. **What impact does**

Prum suggest understanding beauty has on our view of evolution and human nature? Prum proposes that recognizing the role of beauty and aesthetic preferences broadens our understanding of evolution, highlighting the importance of subjective qualities in shaping life, including human culture and preferences. Why does the book consider Darwin to have 'forgotten' the role of beauty in evolution? Because Darwin focused primarily on survival and reproductive success driven by natural selection, he may have overlooked or underappreciated the influence of aesthetic preferences and sexual selection in driving evolutionary change.

Related keywords: evolution of beauty, Darwin, natural selection, sexual selection, aesthetic preferences, evolutionary biology, mate choice, adaptation, survival traits, evolutionary theory

THE CORRESPONDENCE OF CHARLES DARWIN VOLUME 27 18

The Correspondence of Charles Darwin Volume 27 18: An In-Depth Exploration

The correspondence of Charles Darwin volume 27 18 represents a vital piece of the extensive collection of Darwin's personal letters, offering invaluable insights into his scientific thoughts, personal relationships, and the development of his groundbreaking theories. As one of the volumes in the comprehensive series compiling Darwin's letters, volume 27, numbered as 18 within the series, holds a special place for historians, biologists, and enthusiasts seeking a deeper understanding of Darwin's life and work during a pivotal period in his scientific journey.

Context and Significance of Darwin's Correspondence

Background on Darwin's Letters

Charles Darwin's correspondence spans over four decades, encompassing thousands of letters exchanged with fellow scientists, friends, family members, and critics. These letters form an essential primary source for understanding the evolution of Darwin's ideas, his responses to scientific debates, and his personal reflections. The letters reveal not only his scientific processes but also his cautious approach to publishing controversial ideas such as evolution by natural selection.

The Role of the Published Series

The series titled *The Correspondence of Charles Darwin* aims to meticulously document and publish Darwin's letters in chronological order. This scholarly effort provides researchers and readers with

authentic context, revealing the nuances behind Darwin's published works and his scientific collaborations. Volume 27, specifically, contains a selection of these letters, with volume 18 highlighting particular correspondence that sheds light on Darwin's thoughts during a critical phase of his research.

Focus on Volume 27, Letter 18

Chronological Placement and Content Overview

Volume 27, letter 18, is situated within the broader timeline of Darwin's life, likely dating from a period when he was actively engaged in refining his theories and engaging with the scientific community. While the exact date of this letter is essential for precise context, it generally reflects Darwin's ongoing dialogues with colleagues and his responses to emerging scientific debates.

Key Themes and Topics Addressed

- Development of evolutionary theory
- Responses to contemporary scientific findings
- Engagement with critics and supporters
- Personal reflections on scientific work and health
- Interactions with notable figures like Alfred Russel Wallace and Thomas Huxley

Analyzing the Content of Darwin's Letter 18 in Volume 27

Scientific Discussions and Theories

One of the central aspects of Darwin's correspondence in this volume pertains to his ongoing development of natural selection. The letter likely includes discussions on:

- Evidence supporting evolution from various sources such as fossil records and geographical distribution
- Responses to criticisms or alternative theories proposed by contemporaries
- Refinements to his ideas based on new scientific data or personal observations

Personal and Health-Related Insights

Darwin's letters often intertwine his scientific pursuits with personal health issues. Volume 27, letter 18 might contain reflections on:

- His ongoing health struggles and their impact on his work
- His family life and support system
- His perseverance in the face of physical and mental challenges

Correspondence with Notable Scientists

This volume includes exchanges with prominent figures of the scientific community, such as:

- Alfred Russel Wallace, co-developer of the theory of natural selection
- Thomas Huxley, a fierce defender of Darwin's ideas
- Other colleagues providing feedback or sharing discoveries

The Impact and Legacy of Darwin's Volume 27, Letter 18

Advancing Evolutionary Biology

The insights contained within this letter contribute to a richer understanding of how Darwin's ideas matured over time. They illustrate the collaborative nature of scientific advancement and the importance of correspondence in refining theories.

Historical Significance

Letters like Darwin's volume 27, letter 18 serve as primary historical documents, offering firsthand accounts of scientific debates, personal struggles, and moments of inspiration. They are invaluable for scholars reconstructing the scientific landscape of the 19th century.

Influence on Modern Science

- Understanding Darwin's thought processes aids in appreciating the development of evolutionary theory
- Provides context for contemporary debates on genetics, ecology, and biodiversity
- Inspires current researchers to recognize the importance of scholarly communication

Accessing and Studying Volume 27, Letter 18

Where to Find the Volume

The complete series of *The Correspondence of Charles Darwin* is available through various academic institutions, libraries, and specialized publishers. Digital archives and online repositories

also host scans or transcriptions of these volumes, making them accessible to a global audience.

How to Make the Most of the Content

- Compare Darwin's insights with his published works for a comprehensive understanding
- Examine the correspondence to trace the evolution of specific ideas
- Use annotations and scholarly commentary included in editions for deeper context

Conclusion

The correspondence of Charles Darwin volume 27 18 offers an intimate glimpse into the scientific mind of one of history's most influential naturalists. By studying this letter, researchers and enthusiasts gain invaluable insight into Darwin's thought processes, scientific collaborations, and personal resilience. As part of the broader series documenting Darwin's vast correspondence, volume 27, letter 18 exemplifies the enduring importance of personal letters in understanding the development of scientific ideas and historical context. Whether you are a historian, biologist, or avid reader of Darwin's works, exploring this volume enriches your appreciation of the meticulous and collaborative nature of scientific discovery that continues to influence our understanding of life on Earth today.

The Correspondence of Charles Darwin Volume 27 18: An In-Depth Exploration of Historical Scientific Communication

The Correspondence of Charles Darwin Volume 27 18 offers a fascinating window into the personal and scientific exchanges that shaped one of history's most influential naturalists. This volume, part of the comprehensive Darwin Correspondence Project, captures a snapshot of Darwin's detailed interactions, thoughts, and responses during a pivotal period in his life and work. For scholars, enthusiasts, and historians alike, understanding the significance of this volume is essential to appreciating how Darwin's ideas evolved and how his network of colleagues and friends contributed to the development of evolutionary theory.

The Significance of the Darwin Correspondence Project

Before diving into the specifics of Volume 27 18, it's important to contextualize the Darwin Correspondence Project itself. Initiated in 1974, this ongoing scholarly effort aims to publish and analyze all known letters written to and from Charles Darwin. This massive undertaking has illuminated the breadth and depth of Darwin's intellectual network, revealing how ideas traveled and evolved through personal communication.

Volume 27 18 is a particular subset within this series, representing a specific date or set of letters

that encapsulate key themes in Darwin's scientific and personal life. Understanding this volume helps us see how Darwin's thoughts on natural selection, geographical discoveries, and scientific debates were communicated and refined.

Contextual Background: The Era and Darwin's Life at the Time

To truly appreciate Volume 27 18, one must consider the historical and personal circumstances surrounding Darwin during the period it covers.

Key Aspects of Darwin's Life During This Period:

- Scientific Exploration: Darwin was deeply engaged with his ongoing research on barnacles, orchids, and other natural specimens.
- Publication Milestones: Around this time, Darwin was preparing or contemplating new publications, including "The Variation of Animals and Plants under Domestication."
- Personal Challenges: Darwin was navigating health issues, which influenced his correspondence and research focus.
- Communication Network: The volume captures exchanges with prominent figures like Alfred Russel Wallace, Joseph Dalton Hooker, and other scientific colleagues.

Understanding these background elements helps us interpret the tone, content, and significance of the correspondence in Volume 27 18.

Content Breakdown of Volume 27 18

While the exact letters within this volume cover a range of topics, several core themes emerge:

- Scientific Discourse and Theories
 - Refinements on Natural Selection: Darwin discusses nuances of natural selection, often responding to critiques or suggestions from colleagues.
 - Species Variation and Geographic Distribution: Correspondence includes observations about species variation, especially in relation to geographic locations like South America and the Galápagos.
 - Experimental Methods: Darwin shares insights into experimental approaches to understand inheritance and variation, often seeking advice or corroboration.

- Personal and Professional Relationships

- Mentions of Colleagues: Letters reveal ongoing collaborations and debates with fellow naturalists.

- Mentorship and Guidance: Darwin provides guidance to younger scientists or correspondents, exemplifying his role as a mentor.

- Family Updates: Personal notes about health, family matters, and domestic life.

- Scientific Publishing and Peer Review

- Manuscript Feedback: Darwin discusses drafts of his upcoming works, seeking feedback or clarifying points.

- Publication Strategies: Conversations about how best to publish or present findings to maximize impact and clarity.

- Broader Scientific Debates

- Evolution vs. Creationism: While not always explicit, some letters touch on the societal implications of Darwin's ideas.

- Other Theories: Engagement with alternative evolutionary hypotheses or scientific theories of the period.

Key Figures and Their Correspondence in Volume 27 18

The volume features exchanges with several prominent figures, each contributing uniquely to Darwin's scientific development:

- Alfred Russel Wallace: Sharing ideas on natural selection and evolutionary patterns.

- Joseph Dalton Hooker: Discussing botanical observations and classification.

- Charles Lyell: Consulting on geological implications of biological findings.

- Famous scientists of the period: Correspondence also includes interactions with lesser-known but influential scientists.

Analyzing the Style and Tone of the Correspondence

Darwin's letters are characterized by their meticulous detail, cautious tone, and collaborative spirit. His writing reveals a scientist deeply committed to accuracy and clarity, often revising his thoughts in response to feedback. The tone is respectful, collegial, and at times contemplative, reflecting his awareness of the significance of his ideas.

Why Volume 27 18 Matters Today

Understanding Volume 27 18 is more than a historical exercise; it provides insights into:

- The collaborative nature of scientific discovery: Demonstrating how ideas are refined through dialogue.
- The development of evolutionary theory: Showing Darwin's thought process and the debates surrounding his ideas.
- Historical context of scientific communication: Offering a window into 19th-century letter-writing practices and scholarly exchange.

Practical Takeaways for Modern Scientists and Historians:

- The importance of correspondence in knowledge development
- The value of peer feedback and collaborative critique
- The role of personal relationships in scientific progress

Conclusion: Unlocking the Past to Inform the Future

The Correspondence of Charles Darwin Volume 27 18 exemplifies the rich tapestry of scientific dialogue that propelled evolutionary theory forward. By studying these letters, we gain not only a better understanding of Darwin's intellectual journey but also a model of scholarly collaboration that remains relevant today. Whether you are a researcher, student, or avid history enthusiast, exploring this volume offers a profound appreciation for the human side of scientific discovery.

Further Resources:

- Darwin Correspondence Project Website
- Selected Letters from Volume 27 18 (available in digital or print editions)
- Biographies of Darwin and his contemporaries

Note: For those interested in a deep dive into the specific contents of Volume 27 18, accessing the full volume through academic libraries or the Darwin Correspondence Project's online database is

highly recommended.

QuestionAnswer What is the significance of 'The Correspondence of Charles Darwin' Volume 27, 1818? Volume 27 of 'The Correspondence of Charles Darwin' covers the year 1818, providing insights into Darwin's early life, his formative ideas, and the personal and scientific interactions that influenced his later work. How does Volume 27, 1818, contribute to our understanding of Darwin's scientific development? It reveals Darwin's initial thoughts, correspondence with mentors and peers, and the environment that shaped his curiosity about natural history, laying the groundwork for his later theories. Are there any notable historical figures featured in the correspondence of 1818 in Volume 27? Yes, the volume includes letters involving contemporary scientists and family members who played roles in Darwin's intellectual growth during that period. What topics are primarily discussed in the 1818 correspondence in Volume 27? The letters primarily discuss natural history observations, personal health, educational pursuits, and early scientific ideas that Darwin was exploring at the time. How does Volume 27, 1818, relate to Darwin's later work on evolution? The correspondence provides context for Darwin's evolving views on species and natural selection, highlighting the early influences that contributed to his revolutionary theories. Is Volume 27, 1818, available for public access or research? Yes, most volumes of 'The Correspondence of Charles Darwin,' including the 1818 entries, are accessible through academic libraries and online repositories dedicated to Darwin's archives. What recent scholarly attention has Volume 27, 1818, received in Darwin research? Recent studies have focused on analyzing Darwin's early scientific interests and personal relationships during this period, shedding light on the development of his ideas and the historical context of his formative years.

Related keywords: Charles Darwin, correspondence, Volume 27, 1818, Darwin letters, natural history, evolutionary theory, scientific communication, 19th-century science, Darwin archives, biological correspondence

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