

art of science

art of science represents the profound intersection where creativity meets empirical evidence, producing groundbreaking innovations and deep understanding of the natural world. This concept encompasses the skillful application of scientific principles combined with imaginative thinking and aesthetic appreciation. Exploring the art of science reveals how scientific inquiry is not merely a rigid pursuit of facts but also a dynamic process enriched by intuition, design, and interpretation. The synergy between artistic sensibilities and scientific rigor enhances problem-solving, communication, and discovery across disciplines. This article delves into the multifaceted nature of the art of science, highlighting its historical context, practical applications, and its role in education and innovation. Understanding this fusion offers valuable insights into advancing knowledge and fostering interdisciplinary collaboration. The following sections will outline the core themes related to the art of science.

- The Historical Evolution of the Art of Science
- Interdisciplinary Connections Between Art and Science
- The Role of Creativity in Scientific Discovery
- Visualization and Communication in the Art of Science
- Educational Implications and Future Directions

The Historical Evolution of the Art of Science

The art of science has a rich historical background, where early scientists and artists often shared roles, contributing to both fields simultaneously. During the Renaissance, figures such as Leonardo da Vinci exemplified this blend by combining anatomical studies with artistic illustrations, reflecting a holistic approach to knowledge. This historical interplay highlights that the development of scientific ideas frequently depended on artistic skills such as observation, representation, and interpretation.

Renaissance and the Birth of Scientific Illustration

Scientific illustration emerged as a vital tool during the Renaissance, enabling detailed documentation of discoveries in anatomy, botany, and astronomy. The art of science in this period was characterized by meticulous drawings that not only conveyed data but also enhanced understanding through visual clarity and aesthetic appeal.

Enlightenment and the Expansion of Scientific Inquiry

In the Enlightenment era, the art of science evolved with the rise of systematic experimentation and documentation. Art served as a medium to disseminate scientific knowledge via detailed engravings and diagrams, bridging the gap between complex concepts and public comprehension. This facilitated the wider acceptance of scientific

principles and encouraged innovation.

Interdisciplinary Connections Between Art and Science

The art of science thrives on interdisciplinary collaboration, where artistic methods and scientific techniques converge to solve complex problems. This intersection fosters new perspectives and methodologies that transcend traditional disciplinary boundaries, promoting innovation and comprehensive understanding.

Scientific Research and Artistic Techniques

Scientific research benefits from artistic techniques such as pattern recognition, spatial reasoning, and creative experimentation. These artistic approaches enhance data analysis and hypothesis generation, allowing scientists to visualize abstract concepts and formulate novel solutions.

Technology and Digital Art in Scientific Exploration

Advancements in technology have expanded the art of science by integrating digital art and computational tools. Virtual reality, 3D modeling, and computer-generated imagery enable immersive scientific exploration and more effective communication of complex data.

The Role of Creativity in Scientific Discovery

Creativity is a cornerstone of the art of science, driving innovation and the generation of new knowledge. Scientific breakthroughs often arise from creative thinking that challenges conventional wisdom and explores unconventional ideas.

Problem-Solving and Innovation

Creative problem-solving in science involves imagining alternative hypotheses, designing novel experiments, and synthesizing diverse information. This artistic approach to inquiry enables scientists to overcome obstacles and develop groundbreaking technologies.

Inspiration from Nature and Aesthetics

Many scientific discoveries are inspired by natural patterns and aesthetics, reflecting the deep connection between the art of science and the environment. Biomimicry is a prime example where natural designs inform technological innovation, illustrating the creative interplay between observation and application.

Visualization and Communication in the Art of Science

Effective visualization and communication are essential components of the art of science, facilitating the translation of complex data into understandable forms. Visual tools enable

scientists to share findings with diverse audiences and enhance collaborative efforts.

Data Visualization Techniques

Data visualization employs graphs, charts, and infographics to represent quantitative information clearly and compellingly. These artistic elements improve comprehension and reveal patterns that might remain hidden in raw data.

Scientific Illustration and Storytelling

Scientific illustration combines accuracy with artistic expression to tell stories about phenomena, experiments, and concepts. It plays a crucial role in textbooks, research publications, and public education by making science accessible and engaging.

Educational Implications and Future Directions

The art of science significantly influences education by promoting interdisciplinary learning and encouraging creative thinking. Integrating artistic methods into science curricula fosters deeper engagement and enhances critical skills among students.

Integrating Art into Science Education

Incorporating art into science education supports diverse learning styles and stimulates curiosity. Activities such as drawing scientific concepts, designing experiments, and engaging in creative problem-solving cultivate a holistic understanding of scientific principles.

Future Trends in the Art of Science

Emerging trends point to increased collaboration between artists, scientists, and technologists. The art of science will continue to evolve through innovations in digital media, augmented reality, and interdisciplinary research, shaping the future of knowledge creation and dissemination.

- Historical roots combining art and scientific inquiry
- Interdisciplinary approaches enhancing innovation
- Creativity as a driver of scientific breakthroughs
- Visualization techniques improving communication
- Educational strategies fostering integrated learning

Frequently Asked Questions

What is meant by the 'art of science'?

The 'art of science' refers to the creative and intuitive aspects involved in scientific inquiry, where imagination and innovation play a crucial role alongside empirical methods.

How does creativity influence scientific discoveries?

Creativity allows scientists to formulate novel hypotheses, design innovative experiments, and interpret data in unique ways, often leading to groundbreaking discoveries.

Can scientific research be considered an art form?

Yes, scientific research can be considered an art form because it involves skill, creativity, and interpretation, much like traditional arts, especially in how scientists approach problem-solving and experimentation.

What role does visualization play in the art of science?

Visualization helps scientists communicate complex data and concepts effectively, making abstract ideas more tangible and facilitating better understanding and collaboration.

How do interdisciplinary approaches enhance the art of science?

Interdisciplinary approaches combine methods and perspectives from different fields, fostering innovative solutions and enriching scientific understanding through diverse viewpoints.

In what ways has technology impacted the art of science?

Technology has expanded the tools and techniques available to scientists, enabling more precise experiments, advanced data analysis, and new forms of creative expression within scientific research.

Why is storytelling important in the art of science?

Storytelling helps scientists convey their findings compellingly, making complex information accessible and engaging to broader audiences, thus bridging the gap between science and society.

Additional Resources

1. *The Art of Scientific Investigation*

This classic book by W.I.B. Beveridge explores the creative processes behind scientific discovery. It delves into how intuition, imagination, and insight play critical roles in scientific breakthroughs, bridging the gap between art and science. The book is a timeless guide for understanding the human elements behind research and innovation.

2. *Visual Explanations: Images and Quantities, Evidence and Narrative*

Edward R. Tufte's work focuses on the power of visual communication in science. It demonstrates how carefully designed graphics can clarify complex data and reveal new insights. This book is essential for anyone interested in the intersection of art, data visualization, and scientific storytelling.

3. *Art & Science*

Edited by S. DeLano, this collection of essays investigates how artistic and scientific thinking intersect and inform one another. The book covers various disciplines, showing how creative processes in art and science overlap. It encourages readers to appreciate the synergy between these two fields for innovation.

4. *The Art of Innovation: Lessons in Creativity from IDEO, America's Leading Design Firm*

Tom Kelley reveals how the design firm IDEO integrates creative thinking and scientific methods to develop groundbreaking products. The book offers practical advice on fostering innovation through collaboration and experimentation. It highlights the artistic elements involved in scientific problem-solving.

5. *Science and Art: The Painted Surface*

This book explores the scientific techniques behind artistic materials and methods. It investigates how chemistry, physics, and biology contribute to the creation and preservation of art. Readers gain insights into the technical artistry that underpins masterpieces.

6. *Leonardo da Vinci: The Mind of the Renaissance*

Leonardo da Vinci epitomizes the fusion of art and science. This book examines his notebooks and works, revealing how his artistic skills informed his scientific inquiries and vice versa. It celebrates the holistic approach to knowledge during the Renaissance.

7. *The Artful Universe: The Cosmic Connection*

By John D. Barrow, this book explores the intrinsic beauty of the universe as revealed through scientific discovery. It discusses how art and science together help us appreciate the cosmos in a deeper, more meaningful way. The book provides a philosophical perspective on the aesthetics of science.

8. *Design and Science: The Life and Work of Christopher Alexander*

This biography discusses Christopher Alexander's contributions to architecture and design through a scientific lens. It highlights how his work blends empirical research with artistic intuition to create harmonious spaces. The book is a study in the integration of scientific principles with creative design.

9. *The Science of Art: Optical Themes in Western Art from Brunelleschi to Seurat*

Martin Kemp investigates the role of optical science in the development of Western art. The

book traces the influence of scientific discoveries about light and perception on artistic techniques. It provides a historical journey through the art-science relationship in visual representation.

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art of science: *Art and Science* Siân Ede, 2012-11-13 Is science the new art? Scientists weave incredible stories, invent wild hypotheses and ask difficult questions about the meaning of life. They have insights into the workings of our bodies and minds which challenge the myths we make about our identities and selves. They create visual images, models and scenarios that are gruesome, baffling or beguiling. They say and do things that are ethically and politically shocking. Contemporary scientists frequently talk about 'beauty' and 'elegance'; artists hardly ever do. While demonstrating how science is affecting the creation and interpretation of contemporary art, this book proposes that artistic insights are as important on their own terms as those in science and that we can and should accommodate both forms of knowledge. Featuring the work of artists such as Damien Hirst, Christine Borland, Bill Viola and Helen Chadwick, and art-science collaborative ventures involving Dorothy Cross, Eduardo Kac and Stelarc, it looks at the way new scientific explanations for the nature of human consciousness can influence our interpretation of art, at the squeamish interventions being produced by artists relishing in new technologies and at art which takes on the dangers facing the fragile environment. Seeing the world from the other point of view can inform the practice of both sides - this book will provide new insights to artists, scientists and the wider public.

art of science: New Art and Science Affinities Andrea Grover, 2011 New Art/Science Affinities was written and designed in one week by four authors (Andrea Grover, Régine Debatty, Claire Evans, and Pablo Garcia) and two designers (Thumb), using a rapid collaborative authoring process known as a book sprint. The topic of New Art/Science Affinities is contemporary artists working at the intersection of art, science, and technology, with explorations into maker culture, hacking, artist research, distributed creativity, and technological and speculative design. Chapters include: Program Art or Be Programmed, Subvert!, Citizen Science, Artists in White Coats and Latex Gloves, The Maker Moment, and The Overview Effect. 60 international artists and art collaboratives are featured, including Agnes Meyer-Brandis, Atelier Van Lieshout, Brandon Ballengée, Free Art and Technology (F.A.T.), Rafael Lozano-Hemmer, Openframeworks, C.E.B. Reas, Philip Ross, Tomás Saraceno, SymbioticA, Jer Thorp and Marius Watz. ISBN# 0977205347. Details: www.cmu.edu/millergallery/nasabook

art of science: Exploring the Invisible Lynn Gamwell, 2002 This sumptuous and stunningly illustrated book shows through words and images how directly, profoundly, and indisputably modern science has transformed modern art. Beginning in the mid-nineteenth century, a strange and exciting new world came into focus--a world of microorganisms in myriad shapes and colors, prehistoric fossils, bizarre undersea creatures, spectrums of light and sound, molecules of water, and atomic particles. Exploring the Invisible reveals that the world beyond the naked eye--made visible by advances in science--has been a major inspiration for artists ever since, influencing the subjects they choose as well as their techniques and modes of representation. Lynn Gamwell traces

the evolution of abstract art through several waves, beginning with Romanticism. She shows how new windows into telescopic and microscopic realms--combined with the growing explanatory importance of mathematics and new definitions of beauty derived from science--broadly and profoundly influenced Western art. Art increasingly reflected our more complex understanding of reality through increasing abstraction. For example, a German physiologist's famous demonstration that color is not in the world but in the mind influenced Monet's revolutionary painting with light. As the first wave of enthusiasm for science crested, abstract art emerged in Brussels and Munich. By 1914, it could be found from Moscow to Paris. Throughout the book are beautiful images from both science and art--some well known, others rare--that reveal the scientific sources mined by Impressionist and Symbolist painters, Art Nouveau sculptors and architects, Cubists, and other nineteenth- and twentieth-century artists. With a foreword by astronomer Neil deGrasse Tyson, *Exploring the Invisible* appears in an age when both artists and scientists are exploring the deepest meanings of life, consciousness, and the universe.

art of science: The Art of Science Richard Hamblyn, 2011 Science is about discovery, a journey towards knowledge. With authors as diverse as Galileo and Lewis Carroll, the extracts featured in this anthology span centuries and continents; they include startling revelations that changed the way we think and tackle more prosaic questions such as why the sea is salty; they consider the natural beauty of the snowflake and the man-made wonder of the first computer. What links them all is a desire to understand, explain and enrich the world, and the ability to communicate this in original, clear and engaging prose.

art of science: Art and Science , 1986

art of science: Practicing Art/Science Philippe Sormani, Guelfo Carbone, Priska Gisler, 2018-07-11 Over the last two decades, multiple initiatives of transdisciplinary collaboration across art, science, and technology have seen the light of day. Why, by whom, and under what circumstances are such initiatives promoted? What does their experimental character look like - and what can be learned, epistemologically and institutionally, from probing the multiple practices of art/science at work? In answer to the questions raised, *Practicing Art/Science* contrasts topical positions and insightful case studies, ranging from the detailed investigation of art at the nanoscale to the material analysis of Leonardo's *Mona Lisa* and its cracked smile. In so doing, this volume brings to bear the practice turn in science and technology studies on the empirical investigation of multifaceted experimentation across contemporary art, science, and technology in situ. Against the background of current discourse on artistic research, the introduction not only explains the particular relevance of the practice turn in STS to tackle the interdisciplinary task at hand, but offers also a timely survey of varying strands of artistic experimentation. In bringing together ground-breaking studies from internationally renowned scholars and upcoming researchers in sociology, art theory and artistic practice, as well as history and philosophy of science, *Practicing Art/Science* will be essential reading for practitioners and professionals in said fields, as well as postgraduate students and representatives of higher education and research policy more broadly.

art of science: Art, Science, and the Politics of Knowledge Hannah Star Rogers, 2022-05-17 How the tools of STS can be used to understand art and science and the practices of these knowledge-making communities. In *Art, Science, and the Politics of Knowledge*, Hannah Star Rogers suggests that art and science are not as different from each other as we might assume. She shows how the tools of science and technology studies (STS) can be applied to artistic practice, offering new ways of thinking about people and objects that have largely fallen outside the scope of STS research. Arguing that the categories of art and science are labels with specific powers to order social worlds—and that art and science are best understood as networks that produce knowledge—Rogers shows, through a series of cases, the similarities and overlapping practices of these knowledge communities. The cases, which range from nineteenth-century artisans to contemporary bioartists, illustrate how art can provide the basis for a new subdiscipline called art, science, and technology studies (ASTS), offering hybrid tools for investigating art-science collaborations. Rogers's subjects include the work of father and son glassblowers, the Blaschkas,

whose glass models, produced in the nineteenth century for use in biological classification, are now displayed as works of art; the physics photographs of documentary photographer Berenice Abbott; and a bioart lab that produces work functioning as both artwork and scientific output. Finally, Rogers, an STS scholar and contemporary art-science curator, draws on her own work to consider the concept of curation as a form of critical analysis.

art of science: Art + Science Now Stephen Wilson, 2013-01-08 “In the face of ridicule and cultural prejudice, the artists/scientists in this book show that good art and good science are not so very different, and that when they find their joint niche, their joining can make something powerful, interesting, and beautiful.” —The Art Book In the twenty-first century, some of the most dynamic works of art are being produced not in the studio but in the laboratory, where artists probe cultural, philosophical, and social questions connected with cutting-edge scientific and technological research. Their work ranges across disciplines—microbiology, the physical sciences, information technologies, human biology and living systems, kinetics, and robotics—taking in everything from eugenics and climate change to artificial intelligence. Art + Science Now provides an overview of this new strand of contemporary art, showcasing the best international work. Featuring some 250 artists, it presents a broad range of projects, from body art to bioengineering of plants and insects, from computer-controlled video performances to large-scale visual and sound installations.

art of science: The Art of Science Rossella Lupacchini, Annarita Angelini, 2014-07-22 In addition to linear perspective, complex numbers and probability were notable discoveries of the Renaissance. While the power of perspective, which transformed Renaissance art, was quickly recognized, the scientific establishment treated both complex numbers and probability with much suspicion. It was only in the twentieth century that quantum theory showed how probability might be molded from complex numbers and defined the notion of “complex probability amplitude”. From a theoretical point of view, however, the space opened to painting by linear perspective and that opened to science by complex numbers share significant characteristics. The Art of Science explores this shared field with the purpose of extending Leonardo’s vision of painting to issues of mathematics and encouraging the reader to see science as an art. The intention is to restore a visual dimension to mathematical sciences – an element dulled, if not obscured, by historians, philosophers, and scientists themselves.

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art of science: Art & Science Catherine Wagner, Cornelia Homburg, William H. Gass, Helen E. Longino, 1996

art of science: From Art to Science Cyril Stanley Smith, 1980 This catalog is based on the exhibit, Aspects of Art and Science, held at the Smithsonian Institution's National Museum of History and Technology and MIT's Compton Gallery in the summer and fall of 1978. It illustrates and discusses 72 objects and rare books from museums and private collections in the United States and Great Britain. These include art masterpieces, workaday objects, pieces associated with major scientific figures and long-extinct cultures—all manifesting the themes of Cyril Stanley Smith's research into the relationships among art, science, and technology. Smith, a distinguished metallurgist and historian of technology, now professor emeritus at MIT, has argued persuasively that time and again, the artist and artisan have discovered and exploited subtle properties of matter prior to their use in serious technology and long before they attracted scientific attention. Students of science and technology, art historians, and interested readers will enjoy the lavish illustrations, many in full color, of beautiful and historically significant vases, swords, beads, medallions, stamps, illuminated manuscripts, crystals, and much more. In addition, the text provides a store of information showing how the decorative arts, especially ceramics and metals, have contributed to scientists' understanding of the structure and properties of matter.

art of science: Co-creating in Schools Through Art and Science Petru Sandu, Valentina Tudisca, Adriana Valente, 2021-06-03 This book represents an applied, up-to-date work on RRI developments and their potential positive impact on societies. The societal challenges of the 21st century require the ability to integrate the knowledge and expertise of different societal actors, using more

innovative, efficient and open approaches. Educational methodologies are in perpetual development in their attempt to provide tentative answers to three ever-changing digital age challenges: the challenge of speed, the challenge of form/at and the challenge of persistency. The current book aims to address these issues by presenting relevant case studies in the field of art, science and giving value to territory that, by the means of projects and initiatives using RRI consistent methodologies, have succeeded in their attempt to: preserve and valorise cultural heritage by using digital storytelling or crowddreaming methodology, develop educational strategies grounded on RRI and Open Schooling principles, contribute to new ways of thinking in the school environment by using RRI and promote gender equality and stimulate critical reflections on women's role in science by the means of storytelling and RRI concepts.

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art of science: On Art and Science Shyam Wuppuluri, Dali Wu, 2019-11-02 Einstein once remarked After a certain high level of technical skill is achieved, science and art tend to coalesce in aesthetics, plasticity, and form. The greatest scientists are always artists as well. In this volume, some of the world's leading thinkers come together to expound on the interrelations between sciences and arts. While one can segregate art and place it outside the scientific realm, it is, nevertheless, inextricably linked to our essential cognitive/emotional/perceptual modalities and abilities, and therefore lies alongside and in close contact with the method of science and philosophy. What inspiration can scientists draw from art and how can scientific spirit foster our understanding and creation of aesthetic works? How are art and science grounded in our cognition? What role does perception play in science and art? Are criteria for beauty in art and science the same? How does evolution shape our understanding of art? How do science, art and scientifico-artistic frameworks shape society as a whole and help us address its pressing issues? The epistemological and ontological aspects haunt artists, philosophers and scientists alike. The essays in this volume address these manifold questions while also elucidating the pragmatic role they play in our daily life.

art of science: Art and Science Amelia Kennison, University of Florida Digital Collections, 2013 As we go about our normal daily activities we are surrounded by the beauty of nature. This aspect of our everyday life inspires artists and art making everywhere. The main purpose for this capstone research project is to explore the mysteries and beauty that nature and science has to offer the art world. I am interested in how art and science can be blended in a high school art program. At the start of my research I created two resource archives and a working blog to house information from articles to images. Based on these archives and my blog, www.scienceluvart.blogspot.com, I then created a curriculum resource in the form of a website that brings science into the art room, www.ameliakenniso6.wix.com/scienceluvart. I collected articles and writings about science and science education in a bookmarking site called Scoop-it, www.scoop.it/u/amelia-kennison. I also collected images and developed some Pinterest boards that helped me archive and organize images that are influenced by science concepts, www.pinterest.com/ameliak29/art-science/. These visual images inspired lesson ideas for projects to use in art and science lessons. My pin boards are organized under the following titles: outer space art, scientific art, art inspired by the human body, art inspired by botany, and my largest board is Art and Science. The research blog was a great source for me to compile information and focus on organization, idea development, and application to art education curriculum development. My research blog reflects my thoughts about useful facts, resources, cool images, and my ideas for interdisciplinary lesson plans. My website brought all of this together into an organized curricular resource with lesson ideas, materials, and links to relevant sites. Having these online tools, my blog, Scoop-it, Pinterest boards, and website easily available helped me build content for my curriculum research and at the same time become a possible resource for other art educators.

art of science: Colliding Worlds: How Cutting-Edge Science Is Redefining Contemporary Art Arthur I. Miller, 2014-06-16 A dazzling look at the artists working on the frontiers of science. In

recent decades, an exciting new art movement has emerged in which artists utilize and illuminate the latest advances in science. Some of their provocative creations—a live rabbit implanted with the fluorescent gene of a jellyfish, a gigantic glass-and-chrome sculpture of the Big Bang (pictured on the cover)—can be seen in traditional art museums and magazines, while others are being made by leading designers at Pixar, Google's Creative Lab, and the MIT Media Lab. In *Colliding Worlds*, Arthur I. Miller takes readers on a wild journey to explore this new frontier. Miller, the author of *Einstein*, *Picasso* and other celebrated books on science and creativity, traces the movement from its seeds a century ago—when Einstein's theory of relativity helped shape the thinking of the Cubists—to its flowering today. Through interviews with innovative thinkers and artists across disciplines, Miller shows with verve and clarity how discoveries in biotechnology, cosmology, quantum physics, and beyond are animating the work of designers like Neri Oxman, musicians like David Toop, and the artists-in-residence at CERN's Large Hadron Collider. From NanoArt to Big Data, Miller reveals the extraordinary possibilities when art and science collide.

art of science: The Poetry and Music of Science Tom McLeish, 2019-02-21 What human qualities are needed to make scientific discoveries, and which to make great art? Many would point to 'imagination' and 'creativity' in the second case but not the first. This book challenges the assumption that doing science is in any sense less creative than art, music or fictional writing and poetry, and treads a historical and contemporary path through common territories of the creative process. The methodological process called the 'scientific method' tells us how to test ideas when we have had them, but not how to arrive at hypotheses in the first place. Hearing the stories that scientists and artists tell about their projects reveals commonalities: the desire for a goal, the experience of frustration and failure, the incubation of the problem, moments of sudden insight, and the experience of the beautiful or sublime. Selected themes weave the practice of science and art together: visual thinking and metaphor, the transcendence of music and mathematics, the contemporary rise of the English novel and experimental science, and the role of aesthetics and desire in the creative process. Artists and scientists make salient comparisons: Defoe and Boyle; Emerson and Humboldt, Monet and Einstein, Schumann and Hadamard. The book draws on medieval philosophy at many points as the product of the last age that spent time in inner contemplation of the mystery of how something is mentally brought out from nothing. Taking the phenomenon of the rainbow as an example, the principles of creativity within constraint point to the scientific imagination as a parallel of poetry.

art of science: Science Within Art Lynette I. Rhodes, Cleveland Museum of Art, 1980

art of science: Why Science Needs Art Richard A. P. Roche, Roche Richard, Francesca Farina, Seán Commins, 2018 *Art, Science and the Brain* explores the relationship between art and science, considering how these seemingly polarised fields have historically informed and influenced each other. Reflecting on a time when art and science were considered inseparable and symbiotic pursuits, the book discusses how public perception of the relationship between these disciplines has changed, with common opinion that they are fundamentally opposite. The authors argue that art and science are not disparate disciplines, and that there are many examples of the role that art has played for science. The book concludes with insights into the emerging field of neuroaesthetics, and the role it will play in this complex relationship.

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