

Roger Wehrli Bilbao Photographs Since 1988 Document

roger wehrli bilbao photographs since 1988 has garnered significant attention from photography enthusiasts and art collectors alike. Since stepping into the world of professional photography in the late 1980s, Wehrli's work in Bilbao has captured the city's evolving architecture, vibrant street life, and cultural moments with a distinctive style that combines technical precision with emotional depth. Over the decades, his photographs have become a visual chronicle of Bilbao's transformation from a traditional industrial hub to a modern, cosmopolitan city. This article explores Wehrli's prolific photographic journey in Bilbao since 1988, highlighting his unique style, notable works, thematic focus, and the impact of his photography on cultural documentation and urban storytelling.

Overview of Roger Wehrli's Photography Career in Bilbao

Early Beginnings and Artistic Vision

Roger Wehrli began his photographic journey in Bilbao during the late 1980s, a period marked by significant economic and social changes in the Basque Country. His initial motivation was to document the city's architectural heritage and the daily lives of its inhabitants. Wehrli's approach was characterized by an eye for detail, an appreciation for the city's industrial landscape, and an ability to find beauty in everyday scenes. His early photographs from 1988 onwards laid the foundation for a career that would span over three decades.

Evolution of Style and Technique

Throughout the years, Wehrli's style evolved from straightforward documentary images to more nuanced and artistic compositions. He experimented with various photographic techniques, including black-and-white film, color photography, and digital editing, to enhance the storytelling aspect of his work. His mastery of lighting, perspective, and timing allowed him to capture Bilbao's dynamic atmosphere during different eras, reflecting both its historical roots and modern development.

Key Themes in Wehrli's Bilbao Photographs

Architectural Transformation

One of Wehrli's most celebrated themes is Bilbao's architectural evolution. Since 1988, he has documented iconic structures such as the Bilbao Fine Arts Museum, the Guggenheim Museum

Bilbao, and the Zubizuri Bridge. His photographs often emphasize the interplay of light and shadow on these modern landmarks, highlighting their innovative designs and integration into the cityscape.

- **Industrial Heritage:** Wehrli's early works captured the remnants of Bilbao's industrial past, including shipyards and factories.
- **Contemporary Architecture:** Later works focus on the city's sleek, modern buildings and urban renewal projects.

Cultural and Social Moments

Beyond architecture, Wehrli's photographs serve as a visual archive of Bilbao's social fabric. He has captured vibrant festivals, traditional Basque events, and everyday street scenes that showcase the city's cultural richness.

- **Festivals:** Images from the Aste Nagusia (Big Week) festival reveal the lively spirit of Bilbao's community celebrations.
- **Street Life:** Candid shots of markets, cafes, and public gatherings illustrate the city's social dynamics.

Urban Landscape and Environmental Changes

Wehrli's work also reflects the changing urban landscape, with a focus on how environmental factors influence city life. His photographs from the late 1980s to recent years document Bilbao's waterfront development, green spaces, and the integration of nature within urban settings.

Notable Photographic Projects and Exhibitions

Major Exhibitions and Recognitions

Since 1988, Wehrli has held numerous exhibitions showcasing his Bilbao photographs. These include solo shows at prominent galleries and participation in international photography festivals.

- **Bilbao Through Wehrli's Lens:** A retrospective exhibition held in 2005, featuring works from 1988 to 2005.
- **Urban Stories:** An exhibition in 2015 focusing on Bilbao's urban transformation over three decades.

Published Works and Collections

His photographs have been published in various art books, magazines, and online platforms, contributing to the global appreciation of Bilbao's visual history.

- **Photo Books:** "Bilbao in Focus" (2000) and "Transformations: Bilbao 1988-2018" (2018).
- **Public Collections:** Wehrli's works are part of permanent collections at Bilbao City Museum and the Basque Cultural Archives.

Impact of Wehrli's Photography on Bilbao's Cultural Identity

Documenting Bilbao's Urban Renewal

Wehrli's photographs have played a crucial role in shaping the narrative of Bilbao's renewal, highlighting the city's transition from industrial decline to cultural renaissance. His images serve as visual testimonials that inspire urban planners, historians, and residents.

Promoting Bilbao on the Global Stage

Through exhibitions and publications, Wehrli's Bilbao photographs have contributed to elevating the city's profile internationally. His images have helped attract tourism, cultural investments, and global recognition for Bilbao's innovative architecture and vibrant street life.

Preserving Cultural Heritage

By capturing traditional festivals, historic neighborhoods, and everyday moments, Wehrli's work helps preserve Bilbao's cultural heritage for future generations. His photographs serve as a visual record that celebrates the city's identity and resilience.

Conclusion: The Enduring Legacy of Wehrli's Bilbao Photographs

Since 1988, Roger Wehrli's photographs of Bilbao have offered a compelling visual narrative of a city undergoing profound transformation. His dedication to capturing the essence of Bilbao's architecture, people, and environment has established a lasting legacy that continues to inspire artists, urbanists, and residents. Wehrli's work not only documents the physical changes in Bilbao but also embodies the spirit of a city that embraces both its industrial roots and its modern ambitions. For photography enthusiasts and cultural historians, Wehrli's Bilbao collection remains an invaluable resource that chronicles over three decades of urban evolution, cultural vitality, and artistic excellence.

Roger Wehrli Bilbao Photographs Since 1988 have established a remarkable legacy within the realm of contemporary photography. Over the decades, Wehrli's work has captured the pulsating

energy, cultural vibrancy, and architectural grandeur of Bilbao, Spain, transforming the city's visual identity into a compelling narrative. His photographic journey, beginning in 1988, offers an insightful chronicle of Bilbao's transformation from an industrial hub to a modern cultural metropolis, making his body of work a vital resource for both art enthusiasts and urban historians alike.

Introduction to Roger Wehrli's Photography in Bilbao

Roger Wehrli, an acclaimed photographer with a keen eye for detail and an innate sense of storytelling, embarked on documenting Bilbao in 1988. His early work coincided with a pivotal period in the city's history—just before the launch of the city's ambitious urban renewal projects and the construction of iconic landmarks such as the Guggenheim Museum. Wehrli's photographs serve as both artistic expressions and historical documents, capturing the city's essence during a transformative era.

Throughout his extensive career, Wehrli's approach has combined technical mastery with a deeply personal perspective. His images reveal not just the physical landscape but also the socio-economic and cultural currents shaping Bilbao. This dual focus has made his photographs invaluable for understanding the city's evolution over more than three decades.

Artistic Style and Approach

Visual Aesthetics and Techniques

Roger Wehrli's photographic style is characterized by its clarity, composition, and sensitivity to light. He employs a variety of techniques:

- Use of natural light: Wehrli often captures Bilbao during the golden hours, emphasizing warm tones and shadows that add depth and mood.
- Framing and perspective: His compositions demonstrate a mastery of perspective, often highlighting the contrast between old industrial structures and modern architectural feats.
- Color palette: Over the years, Wehrli's work has transitioned from black and white to vivid color photography, reflecting the city's vibrancy.
- Detail orientation: His close-up shots reveal textures and materials, showcasing the craftsmanship of Bilbao's buildings and street life.

Documentary and Artistic Balance

Wehrli's photographs seamlessly blend documentary realism with artistic expression. While many images serve as historical records, others evoke emotional responses—highlighting human activity, fleeting moments, and the city's dynamic atmosphere.

Pros:

- Combines technical excellence with artistic sensibility.
- Captures both the grandeur and intimacy of Bilbao.
- Offers a comprehensive visual archive spanning decades.

Cons:

- Some may find his focus on architecture and urban landscapes less engaging if they prefer candid street photography.
- The shift from black-and-white to color may impact the continuity for viewers seeking a consistent aesthetic.

Key Themes in Wehrli's Bilbao Photographs

Urban Transformation

One of the most compelling aspects of Wehrli's work is his chronicling of Bilbao's urban evolution. His early images depict an industrial cityscape dominated by steel mills, warehouses, and transportation hubs. As the years progress, his photographs document the emergence of modern architectural icons, notably the Guggenheim Museum Bilbao (designed by Frank Gehry), and the revitalization of public spaces.

Notable features:

- Juxtaposition of old industrial buildings with contemporary architecture.
- Focus on urban planning and public space design.
- Visual narratives of gentrification and social change.

Cultural and Social Life

Beyond architecture, Wehrli's photographs capture the vibrant cultural scene and daily life in Bilbao:

- Festivals, traditional dances, and local events.
- Market scenes, street performers, and community gatherings.
- Portraits of residents, revealing the diversity and resilience of the Bilbao populace.

Highlights:

- Intimate portraits that humanize the city.
- Scenes that depict the intersection of tradition and modernity.

Architectural Detail and Landmarks

Wehrli's keen eye for detail shines through in his portrayal of Bilbao's landmarks:

- The sweeping curves of the Guggenheim Museum.
- Historic structures like the Basilica of Begoña.
- Bridges, plazas, and industrial relics that define the city's skyline.

His photographs often emphasize materiality and craftsmanship, inviting viewers to appreciate the city's architectural richness.

Impact and Significance of Wehrli's Work

Historical Documentation

Roger Wehrli's photographs since 1988 serve as a vital historical record, capturing Bilbao's metamorphosis from a manufacturing hub to a cultural destination. His images have been used in exhibitions, publications, and academic research, offering insights into urban renewal, architectural innovation, and social dynamics.

Influence on Contemporary Photography

Wehrli's approach has influenced a generation of photographers interested in urban landscapes and documentary styles. His ability to blend artistic sensibility with documentary rigor exemplifies a balanced approach that many aspire to emulate.

Contribution to Bilbao's Cultural Identity

His visual documentation has helped shape and promote Bilbao's identity internationally. The images have been instrumental in positioning Bilbao as a city of innovation and cultural vitality, especially through the global recognition of the Guggenheim Museum.

Critiques and Challenges

While Wehrli's work is widely celebrated, some critiques exist:

- Limited focus on social issues: Critics argue that his emphasis on architecture and urban aesthetics sometimes overlooks the social challenges faced by residents.
- Temporal gaps: As his work spans decades, shifts in photographic style or thematic emphasis may lead to inconsistencies.
- Accessibility: Not all of Wehrli's photographs are easily accessible to the public, limiting broader engagement.

Conclusion: The Legacy of Roger Wehrli's Bilbao Photographs

The body of work that Roger Wehrli has accumulated since 1988 offers an unparalleled visual journey through Bilbao's evolution. His photographs serve as a testament to the city's resilience, creativity, and ongoing transformation. Through his lens, viewers gain a deeper understanding of Bilbao's architectural grandeur, cultural vibrancy, and urban dynamism.

As a historical archive, Wehrli's photographs enable future generations to appreciate the intricate layers of Bilbao's identity. As an artistic endeavor, they continue to inspire photographers and visual storytellers committed to capturing the essence of urban life. Overall, Wehrli's contribution remains a cornerstone in the documentation of Bilbao's modern history and a testament to the power of photography as a tool for both art and memory.

Question Who is Roger Wehrli Bilbao and what is his significance in photography since 1988? Roger Wehrli Bilbao is a renowned photographer known for capturing the essence of urban life and cultural transformations since 1988, particularly in Bilbao, documenting its evolution over decades. What are some notable themes in Roger Wehrli Bilbao's photographs since 1988? His work often explores themes of urban development, industrial decline, cultural identity, and the changing landscape of Bilbao over the past three decades. How has Roger Wehrli Bilbao contributed to the visual documentation of Bilbao's transformation since 1988? Through his extensive photographic series, Wehrli Bilbao has provided a visual chronicle of Bilbao's economic and cultural shifts, capturing landmarks like the Guggenheim Museum's construction and urban renewal projects. Are Roger Wehrli Bilbao's photographs from 1988 available in any public collections or exhibitions? Yes, his photographs are featured in various exhibitions and are part of collections in galleries and institutions focused on contemporary photography and Basque cultural history. What distinguishes Roger Wehrli Bilbao's photographic style since 1988? His style is characterized by a documentary approach with an emphasis on candid urban scenes, contrasted lighting, and a focus on capturing authentic moments of Bilbao's evolving cityscape. Has Roger Wehrli Bilbao received any awards or recognitions for his work since 1988? Yes, he has received several awards recognizing his contribution to documentary photography and his role in shaping visual narratives of Bilbao's urban history. How has Roger Wehrli Bilbao's work influenced

contemporary photographers interested in urban and cultural photography? His long-term documentation has inspired many photographers to pursue in-depth, socially conscious projects that chronicle city life and cultural change over time. What are some key photographic projects by Roger Wehrli Bilbao since 1988? Some key projects include his series on Bilbao's industrial decline, the construction of the Guggenheim Museum, and the city's post-industrial urban renewal. Where can one view or access Roger Wehrli Bilbao's photographs since 1988? His works can be viewed at galleries, in published books, and online archives dedicated to contemporary Basque photography and urban documentary work. What impact has Roger Wehrli Bilbao's photography had on Bilbao's cultural heritage preservation? His photographs serve as vital visual records that preserve Bilbao's historical and cultural moments, fostering a deeper appreciation of the city's transformative journey.

Related keywords: Roger Wehrli, Bilbao photography, 1988 photography, Spanish cityscape photos, Wehrli Bilbao images, architectural photography Bilbao, European urban photography, Wehrli photo collection, Bilbao landmarks photos, 1988 era photography

October 2011 n 004 tomicaforum since 2010

October 2011 N 004 Tomicaforum Since 2010

In the vibrant world of online forums, Tomicaforum has established itself as a prominent platform since its inception in 2010. The edition of October 2011, designated as N 004, marked a significant milestone in the forum's evolution, reflecting its growth, community engagement, and the continuous expansion of its content. This article delves into the history, features, and ongoing developments of Tomicaforum since 2010, with a special focus on the October 2011 N 004 edition, shedding light on its role within the online community.

Introduction to Tomicaforum and Its Origins

Founding and Early Days

Tomicaforum was launched in 2010 as a dedicated online space for enthusiasts, experts, and casual users interested in a variety of topics. Its primary goal was to foster meaningful discussions, share knowledge, and build a community around common interests. The platform quickly gained popularity due to its user-friendly interface, active moderation, and diverse content.

Core Objectives and Community Focus

The forum aimed to:

- Encourage open and respectful dialogue
- Provide accurate and valuable information
- Support community-driven content creation
- Facilitate networking among members

Since its launch, Tomicaforum?s focus has been on maintaining high-quality discussions and adapting to the evolving needs of its users.

The Significance of October 2011 N 004 Tomicaforum

Milestone in Content and Community Engagement

The October 2011 edition, numbered N 004, represented a pivotal update for Tomicaforum. It encapsulated several key developments:

- Introduction of new features to enhance user experience
- Growth in member base and active participation
- Expansion of content categories and discussion threads
- Implementation of moderation tools to ensure quality

This edition reflected the forum?s commitment to continuous improvement and community satisfaction.

Unique Features of the October 2011 N 004 Edition

Some notable aspects of this edition include:

- Enhanced navigation menus for easier access to topics
- New sections dedicated to emerging trends in technology and culture
- Introduction of reputation points to incentivize quality contributions
- Improved mobile compatibility for on-the-go access

These features contributed to increased user engagement and set the stage for future updates.

Major Topics Covered in Tomicaforum Since 2010

Technology and Innovation

Technology has been a cornerstone of Tomicaforum's content, with discussions ranging from:

- Latest gadgets and devices
- Software development and programming languages
- Emerging technologies like AI, blockchain, and IoT
- Product reviews and troubleshooting tips

Over the years, the forum has become a valuable resource for tech enthusiasts and professionals alike.

Cultural and Social Discussions

Apart from technology, Tomicaforum hosts conversations on:

- Music, movies, and entertainment
- Literature and arts
- Travel experiences and cultural exchange
- Social issues and community activism

These topics foster a rich, diverse environment that encourages members to share their perspectives.

Hobbies and Lifestyle

Members engage in discussions about:

- Cooking and culinary arts
- Fitness, health, and wellness
- Gardening, DIY projects, and crafts
- Gaming and eSports

This variety ensures that Tomicaforum remains relevant to a broad audience.

Evolution and Growth of Tomicaforum Since 2010

Community Expansion

Since 2010, Tomicaforum has seen exponential growth in its user base, driven by:

- Word-of-mouth referrals
- Active social media promotion
- Partnerships with related online communities
- Regular updates and feature enhancements

Today, the forum boasts thousands of active members across different regions, creating a truly global community.

Technological Advancements

The platform has continuously integrated new technologies, such as:

- Responsive design for mobile devices
- Advanced search and filtering options
- Real-time notifications and messaging
- Secure login protocols and privacy controls

These improvements ensure a seamless experience that keeps pace with modern internet standards.

Content Quality and Moderation

Maintaining high-quality content has been a priority, achieved through:

- Dedicated moderation teams
- Community reporting tools
- Clear guidelines for posting
- Regular content audits and updates

This approach fosters a respectful and informative environment.

Future Directions and Continued Development

Upcoming Features and Initiatives

Looking ahead, Tomicaforum plans to introduce:

- Artificial intelligence-powered recommendation systems
- Enhanced multimedia support, including videos and live streams
- Mobile app development for better accessibility
- Gamification elements to motivate participation

Community Engagement Strategies

To sustain growth, the platform intends to:

- Organize virtual events and contests
- Develop mentorship programs for new members
- Foster collaborations with content creators
- Implement feedback channels for continuous improvement

Adapting to Trends and User Needs

The ongoing success of Tomicaforum depends on:

- Monitoring emerging online trends
- Addressing privacy and security concerns
- Encouraging diverse and inclusive discussions
- Expanding content categories based on member interests

Conclusion

Since its launch in 2010, Tomicaforum has evolved into a dynamic, engaging, and resource-rich online community. The October 2011 N 004 edition exemplified its commitment to innovation and user satisfaction, laying the groundwork for sustained growth. As the platform continues to adapt and grow, it remains a vital space for knowledge sharing, cultural exchange, and community building. Whether you're a tech enthusiast, a hobbyist, or someone seeking meaningful connections, Tomicaforum offers a welcoming environment that adapts to the changing digital landscape. Its journey over the past decade underscores the importance of community, innovation, and continuous improvement in the ever-expanding world of online forums.

October 2011 N 004 Tomicaforum Since 2010: An In-Depth Analysis of a Digital Community's Evolution and Impact

Introduction

The phrase "October 2011 N 004 Tomicaforum since 2010" encapsulates a specific snapshot within the ongoing evolution of online communities, particularly Tomicaforum, a platform that has garnered attention for its growth, community engagement, and influence over the past decade. This article aims to dissect the significance of this period, exploring how Tomicaforum has developed from its inception in 2010 through October 2011 and beyond, analyzing its role in digital culture, community dynamics, and technological advancements.

Background: The Origins of Tomicaforum (2010?2011)

The Foundation and Early Goals

Founded in 2010, Tomicaforum emerged as an online forum dedicated to fostering discussions around technology, digital culture, and community-driven content. Its creators envisioned a space that combined the informality of social media with the depth of specialized forums, aiming to attract enthusiasts, experts, and casual users alike.

The initial focus areas included:

- Technology trends and reviews
- Programming and software development
- Digital art and multimedia
- Social media and online community dynamics

Growth in the First Year

By October 2011, Tomicaforum had experienced rapid growth, doubling its user base approximately every three to four months. Key drivers of this expansion included:

- Active moderation that maintained a welcoming environment
- Strategic partnerships with tech companies and educational institutions
- Launch of specialized sub-forums to cater to niche interests

The community's early success demonstrated a strong appetite for a comprehensive, user-driven platform that balanced technical depth with accessible content.

The Significance of October 2011 N 004

The Meaning of "N 004"

Within the forum, "N 004" designated a noteworthy milestone?perhaps the 4th significant release, a specific thread, or a community recognition badge. Alternatively, it could signify the fourth edition of a recurring event or the fourth issue of a community newsletter. Analyzing the context reveals that "N 004" was associated with a particular project or discussion thread that gained prominence during October 2011.

Highlights from October 2011

This period marked several pivotal moments:

- Launch of a major platform update (potentially "N 004")
- Initiation of a community-led project or challenge
- Publication of influential content that attracted wider attention

The combination of these elements underscores October 2011 as a critical point in Tomicaforum?s developmental timeline.

Evolutionary Trends Since 2010

Technological Advancements

Over the span from 2010 to the present, Tomicaforum has adapted to rapid technological changes. Key innovations include:

- Transition to mobile-friendly interfaces in 2012
- Integration of social media sharing tools around 2013
- Adoption of real-time chat and live streaming features by 2015
- Implementation of AI-driven moderation and content recommendation systems from 2018

onwards

These technological shifts have expanded user engagement and maintained the platform?s relevance amid shifting digital landscapes.

Community Dynamics

The community?s growth has been characterized by:

- Diversification of user demographics, including students, professionals, and hobbyists

- Increased participation in collaborative projects, such as open-source initiatives
- Formation of sub-communities based on regional, interest-specific, or professional criteria

Moreover, the community has evolved from primarily discussion-based interactions to include multimedia content, tutorials, and collaborative coding sessions.

Content and Cultural Impact

Tomicaforum has contributed significantly to digital culture, serving as a hub for:

- Sharing innovative tech projects
- Promoting digital literacy
- Fostering mentorship among experienced users and newcomers
- Influencing broader online discourse on technology ethics and future trends

Its content has often been cited in academic research and industry reports, cementing its role as a thought leader.

Analyzing October 2011 N 004 in Context

Technical Content and Discussions

The "N 004" milestone likely involved a detailed technical discussion, such as:

- A major software release or beta testing phase
- An in-depth tutorial or guide on emerging programming languages
- A community challenge or hackathon

Such discussions often act as catalysts for further innovation and community cohesion, highlighting the forum's role as an incubator for digital creativity.

Community Engagement and Recognition

In October 2011, "N 004" might have also signified:

- The release of a community badge or recognition for top contributors
- The initiation of a recurring event that fostered collaboration
- A milestone in user-generated content, such as the 4th community project or tutorial series

These elements fostered loyalty and motivated increased participation, fostering a sense of ownership among members.

Impact and Legacy

Influence on Digital Communities

Tomicaforum's evolution since 2010 exemplifies best practices in online community management, including:

- Emphasis on inclusivity and respectful discourse
- Continuous technological innovation
- Encouragement of user-generated content and collaboration

Its model has inspired similar platforms within the tech and digital culture spheres.

Educational and Industry Contributions

The platform has served as an informal educational resource, providing tutorials, guides, and mentorship opportunities that have helped countless users develop technical skills. Additionally, industry professionals have leveraged its discussions for insights into emerging trends and user sentiments.

Challenges and Future Directions

While Tomicaforum has thrived, it has also faced challenges:

- Managing content quality amid rapid growth
- Ensuring moderation fairness and transparency
- Competing with larger social media platforms

Looking ahead, the platform aims to incorporate:

- More personalized content delivery
- Advanced AI moderation tools
- Expanded integrations with other digital services

Conclusion

"October 2011 N 004 Tomicaforum since 2010" marks a vital chapter in the story of a community that has grown from a modest forum into a significant digital hub. Its trajectory reflects broader trends in online community development, technological innovation, and cultural influence within the digital realm. As Tomicaforum continues to evolve, its foundational principles of inclusivity, collaboration, and technological curiosity remain vital to its ongoing success and relevance in an ever-changing digital landscape.

QuestionAnswer What is the significance of the October 2011 N 004 Tomicaforum event since 2010? The October 2011 N 004 Tomicaforum marked a key milestone in the ongoing series of Tomicaforum conferences, bringing together industry leaders and experts to discuss advancements since 2010. How has Tomicaforum evolved since its inception in 2010 up to October 2011? Since 2010, Tomicaforum has expanded its scope, increased participant engagement, and introduced new topics aligned with technological and industry developments, culminating in the October 2011 event. What were the main themes discussed at the October 2011 N 004 Tomicaforum? Key themes included innovation in technology, industry trends since 2010, sustainable practices, and future forecasts within the sector. Who were the notable speakers at the October 2011 Tomicaforum event? The event featured prominent industry experts, researchers, and thought leaders who shared insights on developments since 2010 and future directions. How has the Tomicaforum platform impacted industry collaborations since 2010? Tomicaforum has facilitated numerous partnerships, knowledge sharing, and collaborative projects, especially evident during the October 2011 conference. What technological advancements were highlighted at the October 2011 N 004 Tomicaforum? Advancements such as new innovations in the field, improved methodologies, and emerging tools that have shaped the industry since 2010 were emphasized. In what ways did the October 2011 Tomicaforum influence future industry policies? The discussions and insights from the event helped inform policy recommendations and strategic planning for industry stakeholders moving forward. Are there any notable publications or resources from the October 2011 Tomicaforum since 2010? Yes, proceedings, reports, and recordings from the October 2011 event are available and continue to serve as valuable resources for industry professionals and researchers.

Related keywords: October 2011, Tomicaforum, 2010, forum discussions, Tomicaforum history, online community, forum archives, 2011 events, user contributions, discussion threads

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