

Point Blank An Alex Rider Adventure PDF

Point Blank: An Alex Rider Adventure takes readers on a high-octane journey filled with espionage, danger, and unexpected twists. As the tenth novel in the acclaimed Alex Rider series by Anthony Horowitz, *Point Blank* continues to captivate fans with its gripping storyline, dynamic characters, and adrenaline-pumping action. This book not only expands the thrilling universe of teenage spy Alex Rider but also explores themes of trust, loyalty, and resilience. Whether you're a longtime fan or new to the series, understanding what makes *Point Blank* a standout adventure is essential for appreciating its place in modern young adult fiction.

Overview of *Point Blank*

Plot Summary

Point Blank picks up with Alex Rider recovering from his previous missions, trying to lead a normal life. However, his past quickly catches up when he is unexpectedly drawn back into the world of espionage. The story revolves around Alex's attempt to uncover the truth behind a mysterious threat that could jeopardize global security. The novel takes Alex from the bustling streets of London to the dangerous landscapes of Eastern Europe, as he faces off against a shadowy organization intent on causing chaos.

The central conflict involves Alex infiltrating a secret facility where a deadly weapon is being developed. Along the way, he encounters allies and enemies alike, navigating a treacherous landscape of deception and betrayal. The novel masterfully combines fast-paced action sequences with moments of introspection, showcasing Alex's growth as both a spy and a young person.

Key Characters

- **Alex Rider:** The protagonist, a teenage spy with exceptional skills, bravery, and a strong moral compass.
- **Yassen Gregorovich:** A complex assassin whose loyalties are ambiguous, adding depth and tension to the story.
- **Jack Rider:** Alex's protective and supportive guardian, who provides emotional grounding amidst chaos.
- **Sabina Pleasure:** Alex's resourceful friend who aids him with crucial information and support.
- **Major Winston Yu:** An antagonist representing the shadowy organization behind the threat, embodying danger and cunning.

Themes and Messages in *Point Blank*

Trust and Betrayal

One of the central themes in *Point Blank* is the fragile nature of trust. Alex must decide whom to believe and whom to suspect, often facing betrayal from those he previously trusted. The novel highlights how deception can be a powerful weapon in espionage and underscores the importance of intuition and discernment.

Resilience and Courage

Alex's journey emphasizes resilience, showcasing his ability to adapt and persevere despite overwhelming odds. His courage in confronting dangerous enemies and risking his life reflects the spirit of a true hero. The story inspires readers to face their fears and stand up for what is right.

Technology and Modern Warfare

The novel explores the role of advanced technology in modern espionage. From surveillance devices to cutting-edge weaponry, *Point Blank* illustrates how technological advances can be used for both good and evil. This theme resonates with young readers interested in science, technology, and current global issues.

Action and Adventure Elements

High-Intensity Chase Sequences

Point Blank is packed with adrenaline-pumping chase scenes, whether on foot, in vehicles, or through complex facilities. These sequences keep readers on the edge of their seats and showcase Alex's agility and quick thinking.

Strategic Espionage

Beyond physical action, the novel delves into espionage strategies, including undercover missions, hacking, and decoding messages. These elements add depth to the story and highlight the intelligence required in spy work.

Unexpected Twists

Anthony Horowitz masterfully incorporates plot twists that challenge readers' expectations. The revelations about characters' true motives and the shifting allegiances keep the narrative unpredictable and engaging.

Why *Point Blank* Stands Out in the Alex Rider Series

Development of Alex Rider's Character

Point Blank marks a significant point in Alex's development, showing his transition from a reluctant hero to a more confident and strategic spy. The novel explores his internal struggles with trust, morality, and the burden of responsibility.

Realistic Depictions of Espionage

Compared to earlier books, *Point Blank* offers a more mature and nuanced portrayal of spy work. The complexities of covert operations and the moral ambiguities faced by agents are depicted realistically, making the story compelling and thought-provoking.

Engaging Writing Style

Anthony Horowitz's fast-paced narrative, sharp dialogue, and cinematic descriptions create an immersive reading experience. His ability to balance action with character development ensures that readers remain invested from start to finish.

Impact and Reception of *Point Blank*

Critical Acclaim

Point Blank has received praise for its suspenseful plot, well-rounded characters, and seamless integration of action and emotional depth. Critics commend Horowitz for maintaining the series' high standards while introducing new complexities.

Fan Reception

Longtime fans appreciate the book's thrilling storyline and the evolution of Alex Rider. New readers are often drawn in by the gripping adventure and relatable protagonist, making *Point Blank* a popular entry point into the series.

Educational Value

Beyond entertainment, *Point Blank* encourages readers to think about themes like ethics in technology, the importance of teamwork, and resilience in adversity. It can serve as a catalyst for discussions on global security and personal responsibility.

Where to Read *Point Blank* and Other Alex Rider Adventures

- **Bookstores and Online Retailers:** Available in hardcover, paperback, and e-book formats across major platforms.
- **Libraries:** Widely accessible in public and school libraries for free borrowing.
- **Audiobooks:** Perfect for multitasking or on-the-go listening, available on various audiobook services.

Conclusion: Why *Point Blank* Is a Must-Read for Young Adventure Enthusiasts

Point Blank: An Alex Rider Adventure exemplifies the perfect blend of action, intrigue, and character growth. It stands out as a thrilling installment that pushes the boundaries of teenage espionage stories. With its compelling plot, multidimensional characters, and relevant themes, it appeals to readers who crave excitement and meaningful narratives alike. Whether you're diving into the series for the first time or returning as a dedicated fan, *Point Blank* promises an unforgettable adventure that will keep you hooked from start to finish.

For fans of spy thrillers, young adult fiction, or anyone seeking an exciting read packed with suspense, *Point Blank* is an essential addition to your bookshelf. Prepare for a journey full of danger, deception, and heroism?because in Alex Rider?s world, the stakes are always high.

Point Blank: An Alex Rider Adventure is a compelling addition to the acclaimed series of young adult spy novels created by Anthony Horowitz. As the seventh book in the series, it continues to explore the thrilling world of Alex Rider, a teenage spy tasked with dangerous missions that often blur the lines between heroism and peril. This novel stands out not only for its high-octane action but also for its deeper exploration of themes such as loyalty, identity, and the cost of secrecy. In this guide, we will delve into the story's key elements, analyze its characters and themes, and examine what makes *Point Blank* a pivotal installment in the Alex Rider saga.

Overview of "Point Blank" in the Alex Rider Series

"Point Blank" picks up immediately after the events of the previous books, immersing readers in Alex Rider?s ongoing journey as a reluctant spy. Set primarily in the Middle East, the novel introduces new environments and challenges that test Alex's ingenuity and resilience. The story involves a covert mission to thwart a terrorist plot involving biological weapons, which raises the stakes considerably.

This novel is notable for blending fast-paced action with intricate plotting, showcasing Horowitz?s skill in creating suspenseful narratives that appeal to both young readers and adult fans. It also expands the series? universe, introducing new characters and geopolitical complexities that enrich the overarching storyline.

Plot Breakdown and Key Events

The Mission Begins: A New Threat Emerges

The story kicks off with Alex Rider being pulled into a new mission after intelligence suggests a biological threat in a Middle Eastern country. His assignment is to infiltrate a clandestine organization believed to be developing a deadly virus. The stakes are high, and Alex's own safety is always in question.

Development of the Villain: The Shadowy Opponent

A central aspect of "Point Blank" is the introduction of a formidable antagonist who operates in the shadows. The villain's motives, background, and methods are gradually unveiled, adding depth to the narrative. This character embodies themes of corruption and moral ambiguity, challenging Alex's black-and-white view of good versus evil.

The Journey Through Dangerous Terrain

Much of the story takes place in unfamiliar, hostile environments—desert landscapes, abandoned facilities, and bustling markets. These settings serve as a backdrop for intense action sequences, including chases, covert infiltrations, and tense negotiations.

Climax: Confrontation and Resolution

The climax involves a daring confrontation where Alex must stop the spread of the biological weapon, often relying on quick thinking and resourcefulness. The resolution leaves lingering questions about the true nature of heroism and the personal costs of espionage.

Character Analysis

Alex Rider: The Reluctant Hero

Throughout "Point Blank," Alex continues to evolve from a reluctant schoolboy into a seasoned spy. His intelligence, bravery, and moral compass are put to the test. Unlike traditional heroes, Alex's vulnerabilities and internal conflicts are portrayed realistically, making him a relatable and compelling protagonist.

New Characters and Allies

The novel introduces allies such as local informants and international agents who assist Alex. These characters bring diverse perspectives and skills, emphasizing themes of teamwork and trust.

The Villain: A Complex Adversary

The antagonist's layered personality and motivations challenge readers' assumptions about good and evil. This complexity adds richness to the narrative and prompts reflection on moral grey areas.

Themes and Messages

Loyalty and Trust

"Point Blank" explores the importance of loyalty not only to country and mission but also to personal values and friends. Alex's relationships are tested, highlighting the importance of trust in high-stakes situations.

The Cost of Secrecy

The novel delves into the personal toll that espionage takes on spies, especially young ones like Alex. The emotional and physical sacrifices made underscore the series' portrayal of the spy world as both glamorous and dangerous.

Moral Ambiguity

Unlike some spy stories that portray clear-cut villains, "Point Blank" emphasizes moral ambiguity. Characters' motives are complex, prompting readers to consider ethical dilemmas faced by those operating in covert worlds.

Style and Significance

Anthony Horowitz's writing in "Point Blank" is characterized by its brisk pacing, vivid descriptions, and authentic portrayal of espionage tactics. The novel balances action with introspection, allowing readers to connect with Alex's internal struggles while enjoying adrenaline-fueled sequences.

"Point Blank" is significant within the series as it deepens the narrative universe, introduces mature themes, and challenges readers' perceptions of heroism. It also sets the stage for subsequent adventures, maintaining the series' momentum and appeal.

Why "Point Blank" Resonates with Readers

- **Relatable Protagonist:** Alex's youth and vulnerability make him relatable, even amid high-stakes espionage.
- **Thrilling Action:** The novel delivers relentless excitement through chases, fights, and strategic

maneuvers.

- Thoughtful Themes: By exploring moral complexities, it appeals to readers seeking more than just adrenaline.
- Global Perspective: Settings across the Middle East provide cultural and geopolitical depth, broadening the series' scope.

Final Thoughts

"Point Blank: An Alex Rider Adventure" exemplifies Anthony Horowitz's mastery in crafting compelling young adult spy fiction. It combines high-octane action with meaningful themes, character growth, and intricate plotting. For fans of the series, it offers a satisfying blend of familiar elements and new challenges, ensuring that Alex Rider's adventures remain engaging and thought-provoking.

Whether you're a longtime follower of the series or new to Alex Rider's world, "Point Blank" is a must-read that exemplifies the thrills and profundity that make this series a standout in young adult literature. Its exploration of loyalty, morality, and resilience resonates beyond the pages, inspiring readers to consider what it truly means to be a hero in a complex world.

Question What is the main plot of 'Point Blank: An Alex Rider Adventure'? 'Point Blank' follows Alex Rider as he is sent on a mission to infiltrate a secret organization involved in illegal arms trading, risking his life to prevent a global catastrophe. Who are the main antagonists in 'Point Blank'? The story features the Shadow Organization, a mysterious group involved in arms smuggling, led by the criminal mastermind known as 'The Ghost'. How does 'Point Blank' connect to the rest of the Alex Rider series? 'Point Blank' is the eighth book in the series, continuing Alex Rider's journey as a teenage spy and building on the events from previous adventures. What are some of the key themes in 'Point Blank'? Key themes include loyalty, espionage, the fight against terrorism, and the importance of bravery and quick thinking in dangerous situations. Is 'Point Blank' suitable for younger readers? Yes, 'Point Blank' is targeted at middle-grade readers and teenagers, featuring age-appropriate action and adventure, though it includes some intense scenes. Has 'Point Blank' been adapted into any other media? As of now, 'Point Blank' has not been officially adapted into a film or TV series, but it remains popular among fans of the series. What new skills does Alex Rider learn in 'Point Blank'? In this adventure, Alex hones his combat skills, stealth tactics, and technological expertise to tackle complex missions. How does 'Point Blank' showcase Alex Rider's character development? The novel explores Alex's growth in confidence and independence as he faces more dangerous enemies and moral dilemmas. Why is 'Point Blank' considered a fan-favorite in the Alex Rider series? It's praised for its high-stakes action, intricate plot twists, and deeper insight into Alex's character, making it a thrilling read for fans.

Related keywords: Alex Rider, point blank, adventure novel, espionage, thriller, action, secret agent, Anthony Horowitz, spy story, teenage protagonist

FIXED POINT THEOREMS AND APPLICATIONS UNITEXT 116

Fixed Point Theorems and Applications Unitext 116: An In-Depth Exploration

Fixed point theorems and applications unitext 116 serve as a cornerstone in modern mathematics, providing essential tools for analysis, topology, and various applied disciplines. These theorems not only deepen our understanding of mathematical structures but also have profound implications in computer science, economics, engineering, and beyond. This article aims to explore the fundamental concepts behind fixed point theorems, their significance, and practical applications as outlined in Unitext 116, a key educational resource in advanced mathematics curricula.

Understanding Fixed Point Theorems

What Is a Fixed Point?

A fixed point of a function is an element in its domain that is mapped to itself. Formally, for a function $f: X \rightarrow X$, a point $x \in X$ is a fixed point if:

$$f(x) = x$$

Fixed points are fundamental in understanding the behavior of iterative processes and the stability of systems. They often represent equilibrium states in various scientific models.

Historical Context and Significance

The concept of fixed points dates back to the early 20th century, with significant contributions from mathematicians like Brouwer, Banach, and Schauder. The development of fixed point theorems has revolutionized nonlinear analysis and provided rigorous foundations for numerous scientific theories.

Major Fixed Point Theorems Covered in Unitext 116

Brouwer Fixed Point Theorem

The Brouwer Fixed Point Theorem states that:

Any continuous function from a compact convex set to itself in a Euclidean space has at least one fixed point.

This theorem is fundamental in topology and has wide-ranging applications, including in game theory and economics.

Banach Fixed Point Theorem (Contraction Mapping Theorem)

The Banach Fixed Point Theorem asserts that:

- In a complete metric space, any contraction mapping (a function that brings points closer together) has exactly one fixed point.
- Iterative sequences generated by such mappings converge to this fixed point.

This theorem is crucial in proving existence and uniqueness of solutions to differential and integral equations.

Schauder Fixed Point Theorem

The Schauder Fixed Point Theorem extends Brouwer's idea to infinite-dimensional spaces:

Any continuous, compact mapping from a convex, closed, bounded subset of a Banach space into itself has at least one fixed point.

This theorem is instrumental in solving nonlinear partial differential equations and in the calculus of variations.

Applications of Fixed Point Theorems in Various Fields

Mathematics and Analysis

- **Existence of Solutions:** Fixed point theorems guarantee solutions to nonlinear equations and systems.
- **Stability Analysis:** Fixed points represent equilibrium states in dynamical systems.
- **Optimization Problems:** Many optimization algorithms rely on fixed point iterations to converge to optimal solutions.

Economics and Game Theory

- **Equilibrium Analysis:** Nash equilibrium and other economic equilibria are often proven to exist using Brouwer or Kakutani fixed point theorems.
- **Market Models:** Fixed point theorems help validate the stability and feasibility of economic models.

Computer Science and Numerical Methods

- **Iterative Algorithms:** Many algorithms for solving equations, such as fixed point iteration, depend on fixed point theorems for convergence guarantees.
- **Programming Languages:** Fixed point semantics underpin the theoretical foundations of programming language semantics and compiler design.

Engineering and Physical Sciences

- **Control Systems:** Fixed points correspond to steady states or equilibrium points in control systems.
- **Signal Processing:** Fixed point methods are used in iterative filtering and reconstruction algorithms.

Practical Implementation and Techniques

Fixed Point Iteration Method

A common method to find fixed points is to iteratively apply the function starting from an initial guess:

$$x_{n+1} = f(x_n)$$

Convergence of this sequence to the fixed point depends on properties like the contraction condition in Banach's theorem.

Ensuring Convergence

- Verify that the function is a contraction (Lipschitz constant less than 1).
- Choose appropriate initial guesses.
- Use successive approximations with convergence criteria.

Applications in Numerical Analysis

Fixed point algorithms underpin many numerical methods for solving equations, including:

- Newton-Raphson method
- Picard iteration
- Successive over-relaxation (SOR)

Summary and Key Takeaways

- **Fixed point theorems** provide foundational guarantees of solution existence for a variety of mathematical problems.
- **Major theorems** such as Brouwer, Banach, and Schauder are essential tools in both pure and applied mathematics.
- **Applications** span diverse fields including economics, computer science, engineering, and physics.
- Understanding the conditions for convergence and existence is crucial for practical problem-solving.

Conclusion

The study of fixed point theorems and their applications, as presented in Unitext 116, underscores the interconnectedness of mathematical theory and real-world problem-solving. Whether analyzing complex systems, designing algorithms, or modeling economic behavior, fixed point concepts remain vital. Mastery of these theorems and techniques not only enriches mathematical knowledge but also equips practitioners with powerful tools to address complex, nonlinear challenges across disciplines.

Understanding Fixed Point Theorems and Applications Unitext 116: A Comprehensive Guide

In the realm of mathematical analysis and applied mathematics, fixed point theorems and applications Unitext 116 serve as fundamental building blocks that bridge pure theory with practical problem-solving. They provide powerful tools for demonstrating existence and sometimes uniqueness of solutions across various fields ? from differential equations to computer science. This article aims to offer an in-depth, accessible exploration of fixed point theorems, their core principles, and their broad spectrum of applications, with particular attention to the insights offered by Unitext 116.

What Are Fixed Point Theorems?

At its core, a fixed point of a function is a point that remains unchanged when the function is applied

to it. Formally:

> Definition: Given a function $f: X \rightarrow X$, a point $x \in X$ is called a fixed point if $f(x) = x$.

Fixed point theorems, then, are results that specify conditions under which such fixed points exist. These theorems are not just theoretical curiosities; they are instrumental in numerous mathematical and scientific disciplines.

The Significance of Fixed Point Theorems

Why are fixed point theorems so important? Their significance stems from:

- Existence proofs: They guarantee that solutions to equations or systems exist without necessarily providing the explicit solutions.
- Uniqueness considerations: Some theorems specify when solutions are unique.
- Iterative methods: They underpin algorithms that approximate solutions iteratively.
- Modeling real-world phenomena: Fixed points often represent equilibrium states in economics, physics, biology, and engineering.

Core Fixed Point Theorems

To understand the breadth and scope of applications, it's essential to study the foundational fixed point theorems. The most notable among these include:

Banach Fixed Point Theorem (Contraction Mapping Principle)

Statement:

In a complete metric space (X, d) , every contraction mapping $f: X \rightarrow X$ (i.e., there exists 0

Implications:

- Establishes both existence and uniqueness.
- Forms the basis for many numerical algorithms.

Brouwer Fixed Point Theorem

Statement:

Every continuous function $f: D \rightarrow D$, where D is a closed, convex subset of a Euclidean space

$\mathbb{R}^n$), has at least one fixed point.

Implications:

- Does not guarantee uniqueness.
- Widely used in game theory, economics, and topology.

Schauder Fixed Point Theorem

Statement:

If (X) is a Banach space and $(C \subseteq X)$ is a non-empty, closed, convex, and compact subset, then any continuous mapping $(f: C \rightarrow C)$ has at least one fixed point.

Implications:

- Extends Brouwer's theorem to infinite-dimensional spaces.
- Essential in nonlinear analysis and differential equations.

Deep Dive into Unitext 116: Fixed Point Theorems and Applications

The Unitext 116 provides a structured overview of fixed point theorems, emphasizing their theoretical foundations and practical applications. It offers insights into:

- The motivation behind fixed point theorems.
- The detailed conditions under which these theorems hold.
- Step-by-step methods to apply them to real-world problems.

Key Topics Covered in Unitext 116

- Introduction to Fixed Point Concepts
- Mathematical Foundations and Definitions
- Types of Fixed Point Theorems
- Applications in Differential Equations
- Applications in Optimization Problems
- Applications in Economics and Game Theory
- Iterative Methods for Finding Fixed Points

Applications of Fixed Point Theorems

The power of fixed point theorems lies in their versatility across disciplines. Here's a detailed look at some prominent applications:

- Solving Differential and Integral Equations

Many differential equations can be transformed into equivalent integral equations. Fixed point theorems, especially Banach's and Schauder's, provide the theoretical foundation to prove the existence (and sometimes uniqueness) of solutions.

Example:

The Picard-Lindelöf theorem uses Banach's fixed point theorem to guarantee the existence and uniqueness of solutions to initial value problems for ordinary differential equations.

- Nonlinear Analysis and Optimization

In nonlinear functional analysis, fixed point theorems are used to demonstrate the existence of solutions to nonlinear problems such as boundary value problems, variational inequalities, and optimization problems.

- Economics and Game Theory

Fixed point theorems underpin many models of equilibrium:

- Nash Equilibrium: Brouwer's fixed point theorem ensures the existence of equilibrium strategies in finite games.

- Walrasian Equilibrium: Fixed points of excess demand functions correspond to market equilibria.

- Computer Science and Algorithms

Iterative algorithms for solving equations or optimization problems often rely on fixed point principles:

- Iterative methods: Successive approximations that converge to fixed points.
- Programming language semantics: Fixed points define the meaning of recursive functions.
- Engineering and Control Systems

Fixed point theorems help analyze stability and convergence of control algorithms, especially in nonlinear systems.

Practical Steps to Apply Fixed Point Theorems

Applying fixed point theorems effectively involves:

- Identifying the appropriate space: Is it a metric space, Banach space, or Euclidean space?
- Verifying conditions: Check continuity, compactness, convexity, and contraction properties.
- Constructing the function: Ensure it maps the set into itself.
- Applying the theorem: Use the specific conditions to guarantee fixed points.

Limitations and Challenges

While fixed point theorems are powerful, their applicability depends on satisfying specific conditions, which may not always be feasible in complex or real-world problems. Some challenges include:

- Non-contractive mappings where Banach's theorem does not apply.
- Infinite-dimensional spaces where compactness is hard to establish.
- Multiple fixed points complicating the analysis.

In such cases, researchers look for alternative theorems or relaxations of conditions.

Conclusion: The Essential Role of Fixed Point Theorems

Fixed point theorems and applications unitext 116 encapsulate a vital intersection of pure and applied mathematics. They serve as foundational tools for understanding the existence and behavior of solutions across a spectrum of scientific disciplines. Whether in solving differential equations, modeling economic systems, or designing algorithms, fixed point theorems provide a rigorous framework to ensure that solutions are not just hypothetical but guaranteed under well-defined conditions.

By mastering these concepts, students and professionals alike can approach complex problems with

a solid mathematical foundation, leveraging fixed point results to unlock solutions where direct methods may be infeasible. The ongoing exploration and application of fixed point theorems continue to shape advancements across science and engineering, cementing their status as essential tools in the mathematician's toolkit.

Question What is the significance of fixed point theorems in mathematical analysis? Fixed point theorems are fundamental in mathematical analysis because they guarantee the existence of solutions to various equations and systems, such as nonlinear equations, differential equations, and optimization problems. They provide a foundation for many methods used in applied mathematics, computer science, and economics. **Can you explain Banach's Fixed Point Theorem and its applications?** Banach's Fixed Point Theorem states that any contraction mapping on a complete metric space has a unique fixed point. This theorem is widely used in proving the existence and uniqueness of solutions to differential and integral equations, and in iterative algorithms like those used for numerical approximations. **How are fixed point theorems applied in computer science?** In computer science, fixed point theorems underpin the semantics of programming languages, especially in defining recursive functions and data structures. They are also used in the design of algorithms for graph theory, optimization, and in verifying properties of systems through model checking. **What are some common types of fixed point theorems covered in Unitext 116?** Unitext 116 typically covers fixed point theorems such as Banach's Fixed Point Theorem, Brouwer's Fixed Point Theorem, and Schauder's Fixed Point Theorem. These theorems apply to various spaces and are essential for understanding existence and approximation of solutions in different contexts. **How do fixed point theorems assist in solving nonlinear equations?** Fixed point theorems provide the theoretical basis for iterative methods to find solutions of nonlinear equations. By reformulating equations as fixed point problems, these theorems help establish the existence of solutions and justify the convergence of algorithms like successive approximation. **What are some real-world applications of fixed point theorems discussed in Unitext 116?** Real-world applications include economic equilibrium models, population dynamics in biology, steady-state analysis in engineering systems, and optimization problems in operations research. Fixed point theorems help verify the existence and stability of solutions in these diverse fields.

Related keywords: fixed point theorems, Banach fixed point theorem, Brouwer fixed point theorem, contraction mappings, metric spaces, existence and uniqueness, applications in analysis, nonlinear equations, iterative methods, unitext 116

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