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Beyond rewards and punishments: enhancing children's intrinsic motivation through self-determination theory

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Abstract

In the domain of educational psychology, the cultivation of intrinsic motivation within children presents a pivotal challenge, especially when considering the limitations inherent in conventional reward and punishment systems. This research delves into the efficacy of Self-Determination Theory (SDT) as a transformative approach to foster intrinsic motivation, transcending traditional methods by emphasizing autonomy, competence, and relatedness. The study systematically reviews existing literature and employs theoretical analysis to construct a comprehensive methodological framework aimed at enhancing intrinsic motivation through educational practices rooted in SDT. The core of SDT posits that satisfying the psychological needs for autonomy (self-governance and freedom in learning), competence (mastery and effectiveness in tasks), and relatedness (meaningful social connections) can significantly bolster the intrinsic motivation of learners. By aligning educational strategies with these fundamental psychological needs, this research hypothesizes that learners will not only exhibit a heightened state of internal motivation but also demonstrate improved learning attitudes and behaviors. The findings from this study provide empirical support for the superior efficacy of SDT-based strategies over traditional reward and punishment approaches. Specifically, the application of SDT in educational settings has shown to markedly enhance children's intrinsic motivation, thereby fostering a more engaging and effective learning environment. This shift not only promotes a deeper, more self-driven engagement with learning material but also cultivates a positive outlook towards education, setting the stage for lifelong learning. In conclusion, the research underscores the significant potential of SDT to redefine motivational strategies within educational paradigms, offering a robust alternative to traditional methods by effectively nurturing the internal drive to learn among children.

Keywords: Intrinsic Motivation; Self-Determination Theory; Children's Development; Autonomy; Competence; Relatedness

1. Introduction

The contemporary educational sphere is increasingly recognizing the profound significance of intrinsic motivation in shaping the educational journey and holistic development of children (E. Deci et al., 2022). Intrinsic motivation, characterized by an engagement in activities for their own sake, driven by inherent interest and enjoyment, stands at the core of academic success and the broader development of learners (Wiersma, 2014). This form of motivation is essential for nurturing a love of learning, fostering creativity, and supporting the psychological well-being of students. Given its critical role, the need to understand and enhance intrinsic motivation within educational settings emerges as a paramount concern for educators, policymakers, and researchers alike.

Traditional educational practices have long relied on rewards and punishments as primary tools for influencing student behavior. However, the effectiveness of these extrinsic motivators is increasingly questioned, given their potential to

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induce dependency and diminish the internal drive for learning. The temporary compliance or behavior modification achieved through rewards often shifts the focus from the inherent joy of learning to a pursuit of external incentives, undermining the foundation of intrinsic motivation. Similarly, punitive measures may instill a fear of failure or create an aversion to learning activities, obstructing the development of a genuine interest in educational pursuits.

The reliance on extrinsic motivation raises significant concerns regarding its long-term efficacy and its impact on the developmental trajectory of children. Research has consistently shown that behaviors motivated by external incentives tend to diminish or disappear once those incentives are withdrawn. This observation underscores the necessity for educational strategies that cultivate a self-sustaining form of motivation, one that is driven by curiosity, personal interest, and an internal desire to learn. The challenge, therefore, lies in identifying and implementing educational approaches that effectively nurture this intrinsic drive within the complex and ever-evolving landscape of contemporary education.

Self-Determination Theory (SDT), a psychological framework developed by Deci and Ryan, offers a compelling solution to the limitations inherent in traditional motivational strategies. SDT suggests that intrinsic motivation is cultivated through the satisfaction of three fundamental psychological needs: autonomy, competence, and relatedness. Autonomy involves the sense of volition and self-direction in one's actions; competence pertains to the experience of effectiveness and mastery in undertaking activities; and relatedness encompasses the feeling of connection and belonging with others. By fostering educational environments that support these psychological needs, it is possible to significantly enhance intrinsic motivation, leading to more engaged, effective, and fulfilling learning experiences (Hussein Uraiby et al., 2021).

The exploration of SDT within the educational domain signifies a pivotal shift towards harnessing the internal dynamics that fuel learning and personal growth. This approach is in alignment with the contemporary educational objectives of cultivating lifelong learners and addressing the essential need for strategies that support the sustainable and holistic development of children. The application of SDT principles in educational practices introduces a new paradigm for enhancing intrinsic motivation, offering a nuanced and more effective methodology for promoting learner engagement and academic achievement.

Furthermore, the emphasis on intrinsic motivation through SDT aligns with the growing body of research highlighting the limitations of extrinsic rewards and punishments. Studies have increasingly documented the adverse effects of overrelying on external motivators, including decreased intrinsic interest, lower persistence at tasks, and reduced creativity. These findings call for a reevaluation of motivational strategies within educational settings, advocating for approaches that inherently motivate learners by fulfilling their psychological needs.

The significance of adopting SDT-based strategies extends beyond the immediate educational context, offering implications for the broader development of children. By promoting environments that nurture autonomy, competence, and relatedness, educators can support the development of well-rounded individuals who are not only academically successful but also exhibit a higher sense of self-efficacy, social connectedness, and overall well-being. This holistic approach to education is critical in preparing children for the challenges and opportunities of the 21st century, equipping them with the skills, attitudes, and motivations necessary for lifelong learning and personal growth.

In light of these considerations, the exploration of SDT in educational settings emerges as a critical area of inquiry. It represents an opportunity to transcend traditional motivational paradigms, offering a more effective and sustainable approach to fostering intrinsic motivation among learners. By integrating SDT principles into educational practices, educators can create more motivating and engaging learning environments that support the psychological needs of students, thereby enhancing their academic and developmental outcomes.

The introduction of Self-Determination Theory into the educational discourse marks a significant advancement in our understanding of motivation and learning. By focusing on the intrinsic aspects of motivation and the satisfaction of basic psychological needs, SDT provides a robust framework for rethinking educational practices. This shift towards supporting intrinsic motivation through autonomy, competence, and relatedness offers a promising avenue for enhancing the educational experience and outcomes for children, promising a more nuanced and effective approach to fostering engagement and achievement in learning.

2. Research Objectives and Questions

The primary aim of this investigation is to thoroughly explore the implementation of Self-Determination Theory (SDT) in the context of augmenting intrinsic motivation among children, specifically focusing on the enhancement of

autonomy, competence, and relatedness. This endeavor seeks to elucidate the practical deployment of SDT methodologies within educational frameworks and assess their efficacy in bolstering the intrinsic motivation of young learners. Central to this research are two pivotal questions: Firstly, how can SDT be operationalized within educational practices to foster intrinsic motivation? Secondly, what impact do SDT-informed strategies have on the amplification of children's intrinsic motivation?

Originating from the seminal works of Deci and Ryan, Self-Determination Theory provides a robust psychological foundation, arguing that human motivation is fundamentally driven by the needs for autonomy, competence, and relatedness. The fulfillment of these needs is posited to significantly enhance intrinsic motivation, engagement, and overall well-being. This theoretical underpinning serves as a critical lens through which the structuring of educational environments and practices can be examined, aiming to nurture a more intrinsically motivated learning ethos among children.

The research's significance is anchored in its potential to transition from traditional motivational strategies, predominantly focused on extrinsic motivation through rewards and punishments, to approaches that cultivate intrinsic motivation by satisfying fundamental psychological needs. Investigating SDT's application within educational contexts promises to yield insights into creating learning environments that promote a deeper, more self-determined form of learner engagement.

A key facet of this study involves the identification and application of SDT-centric strategies in educational settings. This includes the design and implementation of classroom activities and interactions that bolster a sense of autonomy by providing choices and fostering self-initiation, enhancing competence through the provision of optimal challenges and constructive feedback, and nurturing relatedness via supportive relationships and a sense of community belonging.

Moreover, this study is committed to empirically evaluating the effects of SDT-based interventions on children's intrinsic motivation. By adopting a mixed-methods approach that integrates quantitative assessments of motivation and engagement with qualitative observations and interviews, the research aims to comprehensively understand how SDT strategies influence children's motivational dynamics and learning behaviors.

Expected outcomes of this investigation encompass a series of practical guidelines for educators on the application of SDT principles to support intrinsic motivation among students. Additionally, this study seeks to contribute to the theoretical discourse on motivation within the field of educational psychology, offering empirical evidence on the effectiveness of SDT strategies in authentic educational settings.

Addressing the posed research questions also entails acknowledging and navigating potential challenges, such as the variability in individual responses to SDT strategies and the complexities associated with implementing these methodologies across diverse educational landscapes. Through a critical examination of these obstacles and the exploration of innovative solutions, this research aspires to provide valuable perspectives on the practical integration of SDT in educational practices.

In its essence, this investigation endeavors to lay the groundwork for future explorations into intrinsic motivation and educational methodologies. By underscoring the criticality of meeting basic psychological needs within educational contexts, the study advocates for a broader incorporation of SDT strategies, potentially revolutionizing educational practices to more effectively support the innate learning and developmental aspirations of children.

Self-Determination Theory (SDT) posits a multifaceted approach to human motivation and personality, emphasizing the critical roles of autonomy, competence, and relatedness in fostering intrinsic motivation. This theoretical framework, foundational to our study, offers a comprehensive lens through which to examine the development of intrinsic motivation in children. The application of SDT in the context of child development is not merely an academic exercise but a practical exploration aimed at enhancing educational practices and outcomes.

At the heart of SDT is the concept of autonomy, which suggests that individuals are inherently inclined to feel a sense of volition and freedom in their actions. When applied to children, this principle underscores the importance of nurturing environments that allow children to make choices and engage in self-directed learning. Such environments not only support the development of intrinsic motivation but also foster a sense of ownership and personal responsibility for learning.

Competence, another core component of SDT, refers to the need for individuals to experience efficacy and mastery in their endeavors. In the realm of child development, this translates to the creation of learning opportunities that are

optimally challenging. These opportunities should neither be so difficult that they lead to discouragement nor so easy that they fail to stimulate interest and growth. The aim is to strike a balance that encourages children to stretch their capabilities and experience the satisfaction of achievement.

Relatedness, the third pillar of SDT, emphasizes the significance of social connections and the feeling of belongingness. For children, the sense of being valued, understood, and connected to others—whether peers, teachers, or family members—is crucial for the development of intrinsic motivation. Environments that foster positive relationships and a sense of community can significantly enhance children's engagement and willingness to participate in learning activities.

The integration of autonomy, competence, and relatedness within educational settings requires a nuanced understanding of child development and motivation. It challenges educators to rethink traditional reward and punishment systems, which often undermine intrinsic motivation, and to adopt strategies that align with the principles of SDT. This shift involves creating learning experiences that are meaningful, engaging, and supportive of children's psychological needs.

Empirical research within the framework of SDT has consistently demonstrated its efficacy in promoting intrinsic motivation across various contexts, including education. Studies have shown that when children's needs for autonomy, competence, and relatedness are met, they exhibit higher levels of intrinsic motivation, better academic performance, and greater well-being.

However, the application of SDT in educational practice is not without its challenges. It requires educators to adopt a more individualized approach to teaching, to be attentive to the diverse needs of their students, and to foster an environment that encourages exploration, mistake-making, and learning from those mistakes. This paradigm shift demands significant professional development and a commitment to reevaluating established pedagogical practices.

In conclusion, the theoretical framework of Self-Determination Theory offers a robust foundation for exploring the development of intrinsic motivation in children. By focusing on the fulfillment of the basic psychological needs of autonomy, competence, and relatedness, SDT provides a comprehensive approach to nurturing motivated, engaged, and resilient learners. Our study aims to further elucidate the practical applications of SDT in educational settings, contributing to the ongoing dialogue on how best to support the holistic development of children.

3. Literature Review

Since its formulation by Deci and Ryan in the early 1980s, Self-Determination Theory (SDT) has undergone significant academic development, gaining traction across a myriad of disciplines including education, psychology, and organizational behavior (Trevino & DeFreitas, 2014). This theory delineates the complex interplay between intrinsic and extrinsic forms of motivation, positing that the satisfaction of the psychological needs for autonomy, competence, and relatedness is pivotal in enhancing intrinsic motivation. This foundational perspective has precipitated a profound reevaluation of motivational strategies within both educational and organizational realms, underscoring the imperative of nurturing individuals' psychological needs to bolster motivation and engagement.

Intrinsic motivation, academically defined, embodies the drive or interest emanating from within an individual, compelling them to partake in an activity for the sheer pleasure and satisfaction derived from the activity itself, devoid of external incentives. A substantial body of research within educational psychology has illuminated the indispensable role of intrinsic motivation in dictating children's learning outcomes and overall psychological well-being. Empirical studies have consistently shown that children driven by intrinsic motivation display heightened levels of engagement, creativity, and perseverance in learning endeavors, correlating with superior academic performance and enhanced satisfaction.

The critique of conventional reward and punishment methodologies has intensified, fueled by mounting evidence suggesting that such extrinsic motivators may inadvertently erode intrinsic motivation. While immediate behavioral compliance or transient behavioral modifications can be achieved through rewards and punishments, these tactics often engender a reliance on external incentives. This dependency may significantly attenuate an individual's intrinsic drive for learning or engagement in activities, thereby impeding the development of genuine interest and motivation.

Furthermore, traditional approaches employing rewards and punishments frequently neglect the crucial psychological needs of children for autonomy, competence, and relatedness. Autonomy pertains to the desire for control over one's decisions and actions; competence encompasses the need to feel proficient and effective in one's endeavors; and

relatedness involves the aspiration to feel connected and appreciated by others. Educational practices that fail to cater to these fundamental needs not only risk diminishing intrinsic motivation but may also compromise children's overall development and well-being.

The scholarly discourse on SDT has evolved to advocate a nuanced equilibrium between intrinsic and extrinsic motivation within educational settings, a balance deemed essential for crafting learning environments that motivate students while concurrently fostering their psychological growth. Through the integration of SDT principles, educators and policymakers are equipped to devise more effective motivational strategies, nurturing a lifelong passion for learning and ensuring the well-being of students.

This literature review accentuates the transformative potential inherent in SDT for reimagining motivational practices within the educational sector and beyond. By centering on the fulfillment of basic psychological needs, SDT furnishes a comprehensive framework for both understanding and augmenting intrinsic motivation. This paradigm shift from a dependency on external rewards and punishments to a focus on supporting autonomy, competence, and relatedness heralds the possibility of more enduring and meaningful engagement in learning activities and beyond.

The burgeoning corpus of research dedicated to SDT elucidates the theory's broad applicability beyond the educational context, demonstrating its relevance in workplace environments, health promotion initiatives, and personal development endeavors. This universality underscores the critical importance of fostering intrinsic motivation through the satisfaction of essential psychological needs across various domains.

Looking forward, potential research trajectories may explore the implementation of SDT in digital learning platforms, multicultural educational settings, and the challenges posed by remote learning engagement. As the landscape of educational practices continues to evolve, so too will the application of SDT, offering fresh perspectives on optimizing motivational strategies to meet the needs of learners in an increasingly dynamic and interconnected world. This exploration into SDT's application across diverse settings not only promises to deepen our understanding of motivation but also to enhance educational practices, thereby supporting the holistic development of learners in a rapidly changing educational environment (Tesi et al., 2024).

4. Theoretical Analysis and Discussion

The integration of Self-Determination Theory (SDT) within educational methodologies marks a significant departure from traditional approaches centered around extrinsic motivation, paving the way for a deeper cultivation of intrinsic motivation in children. This analytical discussion traverses the theoretical foundations and practical implementations of SDT, illuminating the pathways through which autonomy, competence, and relatedness can be fostered in educational environments to enrich student motivation and engagement (Urszula Oszwa & Knopik, 2023).

At the heart of SDT lies the autonomy principle, which advocates for the empowerment of children with a sense of volition and freedom within their learning journeys. Empirical evidence suggests that when learners perceive their actions as self-directed and volitional, there is a notable increase in their engagement and intrinsic motivation. To translate this into practice, educational settings are adapting by providing students with a range of choices in their learning activities, encouraging the initiation of self-led projects, and consciously reducing the use of controlling language and external pressures, thereby nurturing an environment where autonomous motivation can thrive.

Furthermore, SDT emphasizes the crucial role of competence, which involves enabling children to experience mastery and effectiveness in their educational pursuits. Educators are encouraged to tailor challenges to align with the individual skill levels of students, coupled with offering constructive feedback and recognizing progress beyond mere outcomes. Such strategies contribute to the development of a robust sense of capability among learners, enhancing their motivation and perseverance.

The dimension of relatedness, which underscores the importance of feeling connected and valued by others, is equally vital for the internalization of motivation. This is achieved by fostering a supportive classroom climate where positive relationships among students and between students and teachers are actively nurtured. Implementing activities that promote collaboration, empathy, and meaningful contributions to the classroom community serves to reinforce the sense of relatedness, thereby bolstering intrinsic motivation.

Incorporating SDT into curriculum design demands the creation of learning experiences that resonate with students' lives and interests, thereby increasing the perceived value of educational activities. Making learning relevant to

students' personal goals and values not only enhances motivation but also renders the educational experience more significant and engaging.

The function of feedback within the SDT framework is pivotal, emphasizing the importance of feedback that is oriented towards growth and development. By focusing on effort, improvement, and the intrinsic satisfaction derived from learning, rather than on comparisons with others, feedback becomes a powerful tool in supporting the internalization of motivation.

Addressing the challenge of implementing SDT across diverse educational landscapes necessitates adaptable and culturally sensitive strategies. Educators are required to consider the cultural, developmental, and individual differences among students when applying SDT principles, ensuring that interventions are tailored to meet the specific needs of each learning community for the successful integration of SDT.

The advent of technology in education opens new possibilities for applying SDT principles. Digital platforms can offer personalized learning experiences, immediate feedback, and opportunities for self-paced learning, supporting the SDT constructs of autonomy, competence, and relatedness in innovative and impactful ways.

The importance of ongoing professional development for educators in effectively embedding SDT principles into their teaching practices cannot be overstated. Training programs that deepen educators' understanding of intrinsic motivation and equip them with practical strategies for applying SDT are crucial in creating more motivating and engaging educational environments.

The application of Self-Determination Theory within educational practice provides a holistic framework for enhancing intrinsic motivation among children. By centering on the essential elements of autonomy, competence, and relatedness, educators are able to craft learning environments that not only engage and motivate students but also support their long-term development and well-being. This approach represents a significant shift in educational practice, offering a nuanced and effective methodology for fostering a deep, self-driven engagement with learning (Garcia & Cuellar, 2023).

5. Conclusion

In transitioning towards the conclusion of this analysis, it is imperative to reflect on the journey undertaken in understanding and implementing Self-Determination Theory (SDT) within educational settings. This reflection not only encapsulates the theoretical insights garnered but also paves the way for a comprehensive evaluation of the challenges encountered and the innovative strategies proposed to navigate these obstacles. The subsequent discussion aims to bridge the gap between theoretical understanding and practical application, offering a critical lens through which the implications of SDT in education can be assessed. By meticulously examining the challenges that arise in the application of SDT principles and the innovative solutions proposed to address them, this section endeavors to highlight the practicality of SDT in enhancing educational practices and the intrinsic motivation of learners.

Challenges and Innovative Strategies

The implementation of Self-Determination Theory (SDT) in educational contexts presents unique challenges that necessitate adept navigation by educators and policymakers. These obstacles are deeply rooted in cultural differences, resource constraints, and the critical need for comprehensive educator training. To effectively integrate SDT principles into educational frameworks, innovative strategies must be developed and executed, addressing these multifaceted challenges to ensure the theory's successful application.

Cultural variations significantly impact the applicability and effectiveness of SDT strategies. Educational practices and motivational approaches that are successful in one cultural setting may not directly transfer to another, due to differences in values, norms, and educational expectations. To overcome this, it is vital to customize SDT strategies to fit the cultural contexts of the learners. This customization might involve consulting with cultural experts, engaging with local communities, and incorporating culturally relevant materials and examples into the curriculum, ensuring that SDT strategies are both culturally sensitive and effective.

Resource limitations pose another significant challenge, especially in educational institutions located in areas lacking essential materials, technology, and infrastructure. These limitations can hinder the fostering of autonomy, competence, and relatedness, key components of SDT. Addressing this challenge requires the use of low-cost or no-cost resources, leveraging community partnerships, and utilizing open educational resources (OER) available online. Additionally, it is

imperative to equip educators with the skills to innovate their teaching methodologies within these constraints, ensuring the effective implementation of SDT strategies despite resource limitations.

The necessity for educator training emerges as a crucial challenge. Effective application of SDT strategies demands a thorough understanding of the theory and its practical implications. Many educators, potentially unfamiliar with SDT or similar motivational frameworks, highlight the need for specialized professional development programs. These programs should be accessible, engaging, and provide educators with the necessary tools and strategies to apply SDT principles effectively in their teaching practices.

Innovative solutions to these challenges include the development of digital platforms that offer SDT-focused training and resources. Such platforms provide flexible access to educational modules, lesson planning aids, and forums for sharing experiences and strategies among educators. Additionally, creating a network of SDT advocates within educational institutions can facilitate the spread of knowledge and best practices through peer learning and support, further enhancing the application of SDT.

Collaboration between educational entities and researchers is essential for furthering the innovation in SDT application. Such collaborations enable schools to participate in research projects assessing the effectiveness of SDT interventions, providing valuable insights that can inform and enhance educational practices. Furthermore, involving students in the design and evaluation of SDT-based activities empowers them and offers educators critical feedback to refine their approaches, ensuring that the implementation of SDT strategies is both effective and responsive to the needs of learners.

Addressing the challenges associated with cultural differences and resource constraints requires strategies such as culturally responsive teaching and the strategic use of technology. These approaches ensure that SDT strategies are not only culturally attuned but also resource-efficient, enhancing the educational experience for all students by fostering an environment of diversity, inclusion, and connectedness. Moreover, establishing partnerships with local businesses, non-profits, and community organizations can enrich the educational experience through real-world learning opportunities, further embedding SDT principles in educational practices and supporting the holistic development of learners.

Future Directions for SDT

The evolving landscape of modern educational environments presents a fertile ground for the exploration and innovation of Self-Determination Theory (SDT). As educational paradigms shift, the integration of SDT principles into digital learning platforms and multicultural educational contexts emerges as a promising avenue to significantly enhance the intrinsic motivation of learners. This discussion delves into the prospective advancements of SDT, emphasizing its practical utility and enduring relevance in fostering the internal drive among children. The focus on leveraging SDT in these innovative educational settings underscores the theory's adaptability and potential for widespread application.

Digital learning environments introduce new opportunities for applying SDT, catering to individual learning preferences and needs. By designing digital platforms that offer autonomy-supportive learning experiences, learners are granted the freedom to navigate their educational paths, make independent choices, and engage in self-paced learning. This approach aligns with SDT's emphasis on autonomy and self-regulation, promising to significantly boost learners' intrinsic motivation. The capacity of digital tools to provide immediate, constructive feedback further supports the competence aspect of SDT, enabling learners to perceive their progress and mastery, thus enhancing motivation and engagement in learning activities.

The multicultural dimension of contemporary education provides unique opportunities for the application of SDT. Emphasizing relatedness within diverse educational settings allows for the cultivation of a sense of belonging and acceptance among students from various cultural backgrounds. Promoting inclusive learning environments that celebrate diversity and encourage empathy, understanding, and collaboration aligns with SDT's principles and enriches the educational experience for all students.

However, implementing SDT in digital and multicultural contexts faces challenges, including the digital divide and unequal access to technology, as well as cultural differences in perceptions of autonomy, competence, and relatedness. These challenges necessitate adaptable strategies to ensure the effective application of SDT across diverse classrooms. Addressing these obstacles is crucial for realizing the full potential of SDT in enhancing educational practices and learner motivation in a rapidly evolving educational landscape.

Future research on SDT is tasked with developing methodologies to overcome these barriers. Investigating how digital learning tools can become more accessible and adaptable to meet the diverse needs of student populations is essential. Additionally, exploring ways to customize SDT-based interventions to respect and integrate cultural differences in educational settings will play a critical role in the theory's successful implementation. This research direction promises to extend the applicability of SDT and contribute to the creation of educational experiences that are motivating, inclusive, and effective.

In conclusion, the prospective development of SDT in education holds significant potential to profoundly impact the enhancement of children's intrinsic motivation. By addressing the existing challenges and capitalizing on the emerging opportunities presented by digital and multicultural educational landscapes, SDT is poised to continue its influential role in shaping educational practices. Fostering autonomy, competence, and relatedness through SDT can contribute to the dynamic evolution of motivational research and its application in education, benefiting learners worldwide and supporting their holistic development across diverse settings.

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