

Application of Computer Technology in Martial Arts Short Weapons Training

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Abstract:

In the era of rapid advancements in artificial intelligence technology, we should deeply integrate advanced technologies from the computer field, such as motion capture, virtual reality simulation, and intelligent assistive teaching, with martial arts short weapons training. By empowering police training with technology, we aim to comprehensively enhance their professional competence and combat capabilities. In the face of increasingly complex criminal tactics, such as high-tech cyber fraud and street violence, the police, as a solid line of defense for maintaining social stability and ensuring public safety, face a crucial and urgent need to strengthen their professional competence. Martial arts short weapons, as a martial arts combat form that combines both offensive and defensive techniques, highlight their unique value in this context. Through a comprehensive application of research methods including literature analysis, empirical research, case studies, and expert interviews, this paper delves into the characteristics, advantages, and potential value of integrating computer technology with martial arts short weapons for practical combat training in enhancing police professional competence. The study reveals that the highly intensive combative environment trains participants' mental resilience and enhances their ability to cope with various psychological pressures; it also strengthens their offensive and defensive awareness, proficiency in handling police equipment, and tactical awareness. Therefore, increasing resource investment is the foundation for improving the effectiveness of martial arts short weapons training, utilizing computer technology to optimize training methods is the key to enhancing training quality, enhancing the integration with practical combat is an important goal of martial arts short weapons training, and strengthening the application and integration of technology is a significant trend in martial arts short weapons training.

Keywords: practical combat orientation; martial arts short weapons; computer technology; police professional competence; police colleges.

INTRODUCTION

As the social security environment becomes increasingly complex, with a myriad of criminal tactics ranging from high-tech cyber fraud to violent incidents in the streets and alleys, posing a serious threat to social peace. As the strong backbone of social stability and people's safety, the enhancement of police professional competence is particularly important and urgent. Police officers not only need to have a strong physique and superior self-defense capabilities but also must possess firm willpower, keen responsiveness, and lofty professional ethics to cope with escalating security threats. Law and police colleges serve as the cradle for nurturing law enforcement officers, shouldering the significant mission of cultivating talents for the country. The integration of martial arts short weapons with computer technology, utilizing motion capture technology and artificial intelligence evaluation systems to optimize the existing police training management system, has opened up a new and effective path for comprehensively enhancing police professional competence. This includes the scientific formulation of training plans, real-time monitoring of the training process, and effective evaluation of training effects. Through intelligent system training enabled by computer technology, not only is the physical fitness and combat skills of police officers significantly enhanced, but their decisive adaptability is also profoundly honed [1]. This innovative initiative aims to fundamentally improve the law enforcement capabilities and professional competence of police officers, injecting new vitality and momentum into the law and police force.

RESEARCH BACKGROUND AND SIGNIFICANCE

Martial Arts Weaponry Skills Usher in a New Chapter of Practical Combat Training for Police

The social security situation is becoming increasingly complex, posing severe challenges to the practical combat capabilities of police officers. How to ensure public safety and the life safety of police officers themselves has become an urgent issue to be addressed [2]. Martial arts short weapon skills, an important element derived from traditional Chinese martial arts weapon techniques, are gradually demonstrating their unique value and charm in the police practical combat training system through the integration of computer technology. There is a natural connection between martial arts short weapon skills and the use of police batons. As a commonly used restraining device in daily law enforcement, the techniques for using a police baton coincide with many movements in martial arts short weapon skills. Through training that integrates martial arts short weapons with computer technology, police officers can continuously enhance their skills in using the baton and improve their emergency response

capabilities in critical situations. The application of this data-driven teaching mode is conducive to enhancing the effectiveness of training practice and promoting students' adaptation to police professional positions [3]. This unique training method not only significantly strengthens police officers' physical fitness and close-combat capabilities (As shown in Figure 1 and 2), enabling them to respond quickly and effectively to various threats in critical moments, but also greatly hones their psychological resilience in emergency situations such as violent attacks on police officers, enhancing their confidence and courage to remain calm and decisive in the face of danger. As a form of martial arts combat sport, martial arts short weapon skills possess social characteristics such as combat technique, behavioral violence, self-defense practicality, and ethnic cultural significance [4].



Figure 1. The "chop" and "slash" technique in martial arts short weapons of Electronic Capture Technology

These characteristics give martial arts short weapon skills unique advantages in police practical combat training. Through training in martial arts short weapon skills, police officers can not only improve their physical fitness and combat skills but also enhance their sense of identity and pride in traditional culture. This enhancement of cultural confidence is of great significance in shaping the good image of the police force and enhancing social credibility.

The Shaping and Enhancement of Police Professional Competence is the Cornerstone of Combat Effectiveness

As guardians of social peace and justice, the comprehensive forging of police professional competence is the cornerstone for enhancing combat effectiveness. Driven by this noble mission, the professional competence required of police officers is not only about personal ability improvement but also a profound commitment to public safety and justice. A solid foundation in the law ensures the legality and legitimacy of police officers' actions during law enforcement, while resilient psychological endurance allows them to remain calm and decisive under high-pressure environments. Moreover, excellent combat skills are crucial for responding to various emergencies, protecting the lives and property of the people, and ensuring their own safety. In this context, the introduction of specialized martial arts short weapon courses has injected new vitality and connotation into the cultivation of police combat capabilities [5]. Martial arts short weapons, as a training method that combines the essence of traditional martial arts with modern combat needs, not only emphasizes skill proficiency and practical application in combat but is also closely linked to police law enforcement environments and mission requirements. This course not only hones police officers' physical fitness and combat skills but also comprehensively enhances their tactical thinking and emergency response capabilities. At the legal level, martial arts short weapon training emphasizes the infiltration of legal awareness and the application of the principle of proportional use of force. Systematic learning of martial arts short weapons enables police officers to more accurately assess situations in complex and ever-changing law enforcement environments, reasonably use force, effectively stop illegal and criminal behavior, and avoid legal risks and negative impacts arising from excessive use of force [6]. At the defensive level, martial arts short weapon courses teach police officers how to quickly and accurately use police batons and other equipment for defense and counterattack through simulated combat scenarios. In the face of extreme violent crimes such as violent attacks on police officers or stabbings with sharp weapons, this training significantly enhances police officers' emergency defense capabilities, ensuring they can respond swiftly in critical moments, effectively control the situation, and protect the safety of themselves and the public. From an overall perspective of capability building, the enhancement of police professional competence is a multidimensional and systematic process [7]. The introduction of specialized martial arts short weapon courses not only improves police officers' combat skills and defensive capabilities but also, through the integration with traditional martial arts culture, cultivates their resilience, tactical wisdom, and team spirit, serving as a beneficial supplement and reinforcement to this process.

ANALYSIS OF CURRENT RESEARCH STATUS AT HOME AND ABROAD

Analysis of Current Research Status in China

In China, martial arts short weapon skills have formed a relatively systematic framework in both research and practice as an important component of police professional training. Police training needs to be grounded in actual combat, leveraging the advantages of digital information systems to create an information-based training system. By establishing a digital system platform, unified dispatching of training resources can be achieved, improving utilization rates, enabling traceability and analyzability of actual combat training, promoting the online development of practical training, and strengthening multi-department collaboration for coordinated training. The introduction of these skills not only enriches police training content but also demonstrates significant effects in actual combat. Especially, the promotion and application of short weapon sports in police-related majors in public security and political and law colleges and universities not only enrich the content of police physical training but also significantly enhance police's actual combat skills and defensive capabilities, which is of great significance for cultivating high-quality and high-skilled people's police. From the perspective of enhancing actual combat capabilities, martial arts short weapon skills, with their unique fighting techniques and tactical applications, enable police to respond more calmly when facing complex and ever-changing law enforcement environments. Research from Hunan Police Academy shows that through martial arts short weapon training, students' correct use of batons in simulated combat tests increased by 30%, and their ability to effectively respond to violent behavior improved by 25%, directly proving the positive effect of martial arts short weapon skills on enhancing police actual combat capabilities. During the training process, participants not only learn how to correctly use short weapons such as batons but, more importantly, learn when and how to use force legally and compliantly. Research from Beijing Police College further points out that martial arts short weapon skills training not only improves police's fighting abilities but, more importantly, enhances their tactical awareness and legal consciousness, reflecting the comprehensiveness and depth of the training in improving police professional qualities and contributing to the construction of a more standardized and legal law enforcement environment. Based on the practical needs of anti-terrorism and stability maintenance, Xinjiang Police College took the lead in conducting short weapon teaching experiments in the law major and incorporated martial arts short weapon teaching into its undergraduate talent training program [8]. This practical teaching and training model enables students to better apply their knowledge to actual work, improving their actual combat capabilities. Furthermore, martial arts short weapon skills carry the essence of traditional Chinese culture, and the elements of martial virtue and etiquette contained in the training process also have a positive impact on police professional ethics and qualities. This cultural influence not only helps to enhance the overall quality of police but also, to a certain extent, strengthens the cohesion and centripetal force of the police force.

Analysis of Current Research Status Abroad

In the context of globalization, the enhancement of police professional competencies has become a focal point of common concern for governments and various sectors of society worldwide [9]. Among these, martial arts short weapon skills or similar combat skills, due to their unique practicality and comprehensiveness, are regarded by numerous police colleges and operational departments abroad as an important means of improving police emergency response capabilities and self-defense skills.

Table 1. Other countries' police training integrates computer technology to develop practical combat capabilities.

| Country, | Police Training Methods | Integration of Computer Technology in Training: Purpose and Significance. |
|----------|---|---|
| USA | Karate-Do, Short Staff Techniques, etc. | Utilizing VR, AR to cultivate individuals' self-defense capabilities, combat skills, physical fitness levels, and psychological qualities. |
| Japan | Kendo | Virtual Reality Kendo Training emphasizes the cultivation of practical combat skills and psychological qualities, contributing to the renewal of policing concepts. |
| Israel | Krav Maga | Utilizes motion capture technology to record and analyze students' movement data during training, assisting coaches and students in understanding the correctness and efficiency of movements, which helps to correct erroneous actions and enhance training effectiveness. |
| Brazil | Brazilian Jiu-Jitsu | Utilizing technological achievements such as cloud computing, intelligent engines, video technology, data mining, and knowledge management, we aim to achieve "intensive integration, high-level sharing, and in-depth application" of police information. |

Abroad, police training systems generally emphasize the integration of practicality and comprehensiveness. Countries such as the United States, the United Kingdom, and Australia have already started using VR technology for police training [10]. For example, Axon Corporation has developed VR simulation tools for police departments, providing weapon skills training and empathy training. Additionally, police departments in Colorado, USA, collaborate with technology companies to customize and fine-tune AR software to assist officers in simulating training for various scenarios. Police training content in the United States includes martial arts and other combat skills as mandatory courses, not only valuing their direct application in actual combat but also emphasizing their cultivation of police psychological resilience and response capabilities [11]. Through high-intensity combat training, police can develop perseverance and the ability to calmly handle crises in simulated combat environments. This training model not only improves police's technical and tactical proficiency but also enhances their psychological endurance and adaptability. As an important component of police professional competencies, combat skills are being incorporated into training systems by an increasing number of countries. (As shown in Table 1) German police education and training content are practically oriented, with a complete and efficient system divided into beginner, intermediate, and advanced levels (stages), progressing step by step from the bottom up, emphasizing the alternation between police practice and theoretical courses. In-service education and training are viewed as a lifelong learning process, with police at all levels required to undergo retraining annually to cope with constantly evolving criminal tactics [12]. Japanese Kendo combat skills, using a bamboo sword to simulate a samurai sword, are widely applied in military and police systems based on the characteristics of samurai sword techniques. Russian military and police Sambo, centered on hand-to-hand combat techniques, is taught and used as a closely guarded secret skill within military and police ranks. Israeli Krav Maga, focusing on speed and efficiency, is widely used in military and police and is internationally recognized for its practicality and fierceness. Brazilian Jiu-Jitsu, emphasizing ground grappling and submission techniques, is suitable for police apprehending suspects and is applied in police training in many countries. This integrated training system not only enhances police's actual combat capabilities but also promotes teamwork and communication skills among them, providing strong support for dealing with various complex situations.

THE INTEGRATION OF MARTIAL ARTS SHORT WEAPON SKILLS WITH COMPUTER SYSTEMS IN SHAPING POLICE PROFESSIONAL COMPETENCIES

Psychological Impact of Skill Enhancement on Professional Competencies

The enhancement of martial arts short weapon skills has a profound and comprehensive impact on shaping police professional competencies, particularly in honing police officers' combat mindset and strategic thinking, where its effects are particularly significant. Martial arts short weapons, as a practical combat sport that integrates skill competition, tactical confrontation, courage trials, and the fearless spirit of warriors, provides police officers with a highly challenging "stress test field" [13]. In this environment, police officers must constantly face and overcome various pressures and challenges in actual combat, thereby achieving a transformation in their psychological state from nervousness and fear to proactivity. This transformation not only greatly enhances police officers' psychological resilience but also lays a foundation for them to remain calm and composed when facing sudden emergencies. In this process, police officers gradually adapt to and overcome various pressures and difficulties, thereby strengthening their psychological toughness. This psychological toughness enables police officers to maintain a calm, decisive, and unwavering mental state when facing extremely dangerous situations [14]. The training of martial arts short weapons is not limited to technical refinement; it is also a process of deepening legal awareness and enhancing defensive concepts. Studies have shown that by simulating actual combat scenarios, the integration of martial arts short weapon skills with computer systems can provide police officers with a more realistic and complex training environment. Trainees who undergo this training demonstrate a 40% improvement in judgment accuracy regarding the timing of force use, the application of police equipment, and how to ensure their own and public safety while stopping crimes in simulated law enforcement situations. This dual enhancement of legal literacy and defensive awareness enables police officers to make judgments with greater confidence and composure when facing complex and ever-changing actual combat environments, effectively reducing risks during law enforcement. In the simulated high-pressure and tense environment, trained officers exhibited faster reaction times and better decision-making quality, with their emergency response times shortened by 15% and their decision-making accuracy improved by 28%. (As shown in Table2)

Table 2. Impact of integrating martial arts short weapon skills with computer systems on police training (The data is sourced from surveys of frontline police officers.)

| Research Aspect | Specific Content/Achievements |
|---|--|
| Research Theme | Impact of Integrating Martial Arts Short Weapon Skills with Computer Systems on Police Training |
| Technical Means Fusion | Integration of cloud computing, intelligent engines, video technology, data mining, knowledge management, etc. |
| Training Environment | Provides a more realistic and complex training environment |
| Training Effect 1 | In simulated law enforcement scenarios, the accuracy of judgments regarding the timing of force use, the application of police equipment, and ensuring safety improved by 40% |
| Training Effect 2 | Dual improvement, enabling police to make judgments more confidently and calmly in real-life situations |
| Training Effect 3 | The emergency response time of trained police officers was shortened by 15% |
| Training Effect 4 | Decision-making accuracy improved by 28% |
| Psychological Quality & Emergency Response Capability | Enhances psychological quality and emergency response capability, allowing police officers to remain calm and clear-headed in real-life situations, with keen insight to assess the situation and make precise and effective decisions |

This strengthening of psychological qualities and enhancement of emergency response capabilities enables officers to maintain a calm and clear mind in actual combat, with keen insight into the situation, thereby making more precise and effective decisions [15].

The Shaping Role of Skill Training on Law Enforcement Efficiency and Legitimacy in Professional Behavior

Martial arts short weapon skill training establishes a comprehensive and meticulous behavioral norm system for police law enforcement through rigorous movement standards and procedural training. By integrating computer systems, police officers can more intuitively understand the methods and techniques for using police equipment in a virtual environment, enabling them to use it more proficiently and accurately in actual law enforcement. This standardization is not only reflected in technical movements but also permeates the entire law enforcement process, from receiving reports, responding to calls, handling situations on-site, to follow-up actions, with clear behavioral guidelines for each step. This standardized and normalized behavior pattern helps reduce arbitrariness in the law enforcement process, ensuring that every law enforcement action achieves its intended goals and effects. It also maximizes the avoidance of conflicts and injuries caused by improper operations, enhancing public trust and satisfaction with police law enforcement. In complex and ever-changing law enforcement environments, police officers need to quickly adapt to various unexpected situations and make correct judgments and decisions. Martial arts short weapon skill training cultivates police officers' adaptability and response capabilities through practical drills simulating different scenarios [15]. This training not only improves police officers' ability to recognize complex situations but also teaches them how to flexibly adjust strategies based on the on-site situation and choose the most appropriate response. Studies have shown that officers who have undergone this training can more quickly identify threats, assess risks, and take effective response measures when facing complex situations, thereby significantly improving the effectiveness and safety of law enforcement. Predictive ability is crucial for police officers, as it directly relates to survival and success rates during law enforcement. Martial arts short weapon skill training indirectly enhances police officers' predictive abilities and reaction speeds during duty by simulating opponents' behavior patterns. This training enables police officers to quickly capture opponents' subtle movements and intentions, thereby predicting their next actions and preparing for defense or counterattack in advance. Data shows that trained police officers have significantly improved prediction accuracy in simulated combat, meaning they can more effectively control situations and protect the safety of themselves and the public in actual combat. The cornerstone and prerequisite for police law enforcement is legitimacy, which is vital for maintaining social fairness and justice and winning public trust. In martial arts short weapon skill training, not only is there a focus on skill improvement, but also the consciousness of rules and the principle of legitimacy are placed at the core. Police officers are clearly instructed on how to use force reasonably within the scope prescribed by law during training and ensure that all law enforcement activities strictly follow laws and regulations. A survey and analysis of 20 frontline police officers revealed that after receiving short weapon skill training, the legitimacy complaints they faced during actual law enforcement significantly decreased. This change strongly demonstrates the significant effectiveness of such training in enhancing the legitimacy of police law enforcement behavior.

PROBLEMS AND CHALLENGES

Inadequate Training Resources and Faculty

Police colleges and vocational training for police officers are facing a dual dilemma in terms of training resources and faculty. At the level of training resources, due to limited funding, there is a severe shortage of equipment and protective gear necessary for training. This not only undermines the actual effectiveness of the training but also poses potential safety risks to the trainees. In terms of the faculty, the scarcity of professional combat instructors makes the teaching tasks exceptionally demanding, compromising the quality of teaching and putting significant strain on the instructors' physical and mental health. The high turnover rate within the teaching team and the lack of professional skills among some combat instructors further constrain the overall improvement of training quality. The issues with equipment and protective gear in martial arts short weapon sports provide valuable insights for police professional training. Furthermore, the low awareness faced during the initial promotion of martial arts weaponry serves as a reminder that we need to increase promotion and awareness-raising efforts in police professional training, enhancing the understanding and importance attached to this field by all sectors of society. More crucially, it is essential to establish a long-term development mechanism, including formulating scientific and reasonable training plans, continuously improving training facilities and the team of short weapon combat instructors, and actively expanding cooperation and exchanges with other relevant professional associations and institutions. These are the core elements for promoting the sustained and healthy development of police professional training [16].

Gap between Training Methods and Actual Combat Needs

Upon careful analysis of the skill training process in martial arts short weapons, it is found that there is an urgent issue to be addressed between the existing training framework and actual combat requirements. This issue not only manifests in the limited and unsystematic nature of the training content but also, more profoundly, in the significant inconsistency between the guiding principles of training and their practical application in combat [17]. In terms of training content, the limited number and lack of systematic approach in current martial arts short weapon training methods directly result in training outcomes that fall short of meeting actual combat needs, making it difficult for police officers to apply short weapon skills flexibly in real-life situations. For example, training overly emphasizes flashy and exaggerated techniques such as "splitting the mountain with force" or "shattering the sky and earth," while subtle techniques like sweeping, pushing, and lifting, which are frequently used in actual combat, are often marginalized, undoubtedly weakening the practical effectiveness and application value of short weapon training [18]. In terms of training philosophy, martial arts short weapon training excessively pursues the display of techniques and scoring, neglecting the crucial aspects of safety and practicality in actual combat. For instance, aerial and spinning techniques, although capable of earning high scores and applause in competitions, are almost useless in the tense environments of frontline police operations where the principle of "safety distance" is followed. This is because, in real-life law enforcement situations, the primary task of police officers is to maintain vigilance, keep a safe distance, and utilize cover to ensure the safety of themselves and the public, rather than pursuing flashy techniques or high scores. Therefore, the training philosophy must align with actual combat needs, emphasizing the use of safe, practical, and efficient skills to better serve the requirements of real-life combat.

STRATEGIES AND RECOMMENDATIONS

Recruit and Cultivate Professional Faculty

Police colleges and police training bases should proactively engage with and fully leverage local talent introduction policies, actively recruiting elite talents with expertise in short weapon skills and extensive teaching experience through diversified recruitment channels, such as open competitions and targeted recruitment. At the same time, based on actual needs, they should develop specialized talent introduction programs, offering more competitive salaries, benefits, and career development platforms for top short weapon athletes or senior coaches, thereby strengthening the faculty team. In particular, attention should be paid to the valuable resource of retired athletes, who have rich combat experience and exquisite skills. By establishing effective communication mechanisms and transition support systems, they should be guided to become excellent short weapon education talents. Furthermore, academies need to actively expand their external cooperation networks, establishing close partnerships with enterprises, clubs, and associations in the field of short weapons. Through mutual hiring of part-time teachers, implementing joint teaching plans, and other forms, they can achieve resource sharing and complementary advantages, further broadening the paths for talent introduction and cultivation [19].

Improving Training Resources and Facilities

Police colleges should actively establish partnerships with official institutions such as local sports bureaus and martial arts associations. These institutions typically possess abundant training resources, professional coaching teams, and advanced training facilities. Through collaboration, academies can obtain more training equipment, protective gear, and professional technical guidance, thereby enhancing training standards. They should also seek sponsorship and cooperation with sports equipment manufacturers and fitness clubs. By providing the latest training equipment and financial support, these enterprises can benefit from product testing and brand promotion offered by the academies, achieving a win-win situation. Based on the characteristics and training needs of martial arts short weapons, academies should collaborate with manufacturers to customize exclusive training equipment, adhering to ergonomic principles and ensuring training effectiveness and trainer safety. Consideration should be given to introducing virtual reality (VR) technology to assist in martial arts short weapon training, allowing trainees to engage in simulated combat and tactical drills in a virtual environment, which not only increases the fun of training but also reduces risks in actual training.

Enhancing the Integration of Training with Actual Combat

Police colleges and police training bases should closely align with the frontline needs of public security operations, particularly focusing on developing strategies for complex combat scenarios such as responding to violent crimes and emergencies. To this end, the current competitive rules for short weapons should be dynamically innovated and adapted to ensure they reflect the real-life environments of public security work. Training modules that incorporate practical elements such as simulated police response and multi-person coordinated operations can be designed to enhance the practical value and target specificity of training. To ensure that training activities remain coordinated with the pace of actual combat, a flexible system for updating competition rules should be established, dynamically adjusting training content and rule frameworks in response to new challenges and situations faced by public security work. Police colleges should deeply integrate combat simulation and case studies into the training process. By carefully designing combat simulation scenarios, trainees can immerse themselves in the law enforcement process. Through in-depth analysis of real cases, trainees can extract experience from successes and learn from failures, thereby comprehensively improving their combat disposal capabilities and emergency response speed. To ensure the effectiveness and targeted nature of training, feedback on training effectiveness from the frontline of public security should be regularly collected, covering multiple dimensions such as the practical applicability of training content, the effectiveness of training methods, and the practicality of training equipment. An efficient combat feedback system should be established. Based on this valuable feedback, police colleges should respond quickly and adjust training plans and content in a timely manner to ensure that training activities remain closely aligned with the urgent needs of public security combat, laying a solid foundation for cultivating high-quality police talents capable of adapting to future challenges [20].

CONCLUSION

The integration of computer technology with martial arts short weapon training not only provides police officers with more efficient and safe training methods but also significantly enhances their combat capabilities and ability to respond to various emergencies. This integration is not only a comprehensive upgrade of individual police officers' skills but also a powerful guarantee for social stability and people's safety. With the continuous development of technologies such as artificial intelligence and the Internet of Things, the fusion of martial arts short weapon training and computer technology will become even deeper. In the future, it may be possible to achieve a more intelligent training system, including automatic evaluation, intelligent guidance, and remote teaching, further promoting innovation in training modes. With the help of big data technology, a more comprehensive training effect evaluation system can be established in the future, using quantitative indicators to comprehensively assess trainees' training outcomes and provide a scientific basis for teaching improvement and trainee selection. The widespread application of computer technology will break geographical barriers, promote international exchange and cooperation in police training, and jointly enhance the professional competence and combat capabilities of police personnel worldwide. Therefore, in the context of high technology, the deep integration of computer technology with martial arts short weapon training has opened up a new path for improving the professional qualities of people's police and provided a more solid support for building a harmonious society and safeguarding people's safety.

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