

Generative Artificial Intelligence and Its Influence on Creative Knowledge Production

Todd Lubart

Professor, Université Paris Cité, France

Abstract

The emergence of Generative Artificial Intelligence (Generative AI) has introduced a significant transformation in the processes of creative knowledge production by enabling machines to generate text, images, designs, code, multimedia content, and analytical insights. Unlike traditional artificial intelligence systems that primarily focus on classification, prediction, and automated decision support, generative models are designed to create new content by learning complex patterns from large-scale datasets. The rapid adoption of generative AI technologies has influenced creative industries, academic research, software development, education, and organizational innovation by expanding the possibilities of human-machine collaboration.

This study examines the influence of generative artificial intelligence on creative knowledge production by analysing how generative models contribute to idea development, content creation, innovation processes, and knowledge expansion. The research explores the relationship between generative AI capabilities and human creativity, focusing on collaborative frameworks where artificial intelligence functions as an assistive technology rather than a complete replacement for human creative expertise. A simulation-based analytical approach is applied to compare traditional creative production methods with AI-assisted creative workflows using evaluation indicators including creativity enhancement, production efficiency, knowledge diversity, and innovation capability.

The findings indicate that generative AI significantly improves creative knowledge production by accelerating idea generation, supporting experimentation, and enabling access to broader information patterns. However, the study also highlights the importance of ethical governance, intellectual property considerations, human oversight, and responsible use of AI-generated content. The research contributes to emerging discussions on human-AI creativity by presenting generative artificial intelligence as a transformative tool that enhances creative capabilities while maintaining human direction and critical evaluation.

Keywords: Generative Artificial Intelligence, Creative Knowledge Production, Artificial Intelligence, Human-AI Collaboration, Innovation, Knowledge Creation, Digital Creativity.

1. Introduction

The rapid development of artificial intelligence technologies has significantly transformed the methods through which individuals and organizations create, process, and share knowledge. Among recent technological advancements, Generative Artificial Intelligence has emerged as a powerful innovation

capable of producing original content across multiple domains, including text generation, visual design, programming, scientific research, and multimedia production. Unlike traditional AI systems that primarily analyse existing information and provide predictions, generative models create new outputs by learning complex patterns from extensive datasets. This capability has introduced new possibilities for enhancing creativity, accelerating knowledge production, and supporting innovative problem-solving processes.

Generative AI systems have gained increasing attention because of their ability to collaborate with human users during creative activities. Advanced models based on deep learning architectures can generate meaningful content, support brainstorming processes, assist research activities, and improve productivity in knowledge-intensive environments.

However, the integration of generative AI into creative workflows has also created important questions regarding originality, human creativity, intellectual ownership, and responsible technology adoption. Understanding the relationship between artificial intelligence and human creative capability has therefore become essential for developing effective approaches to AI-assisted knowledge production.

Creative knowledge production traditionally depends on human imagination, experience, cultural understanding, and critical reasoning. Although generative AI can generate diverse forms of content, its effectiveness depends significantly on human guidance, contextual interpretation, and evaluation. The interaction between human creativity and machine-generated possibilities represents a new collaborative paradigm where AI functions as an intelligent creative partner rather than merely an automated tool. This relationship creates opportunities for expanding creative exploration while also requiring appropriate ethical frameworks to maintain authenticity and accountability.

This research investigates the influence of generative artificial intelligence on creative knowledge production by analysing its contribution to innovation, creative efficiency, and human-AI collaboration. The study examines how generative models affect creative processes and explores the potential benefits and challenges associated with their adoption. Through a simulation-based analytical framework, the research evaluates the impact of generative AI-assisted workflows compared with conventional creative approaches and provides insights into the future development of responsible AI-supported creativity.

2. Review of Literature

2.1 Evolution of Generative Artificial Intelligence and Creative Systems

The evolution of generative artificial intelligence has been shaped by continuous advancements in machine learning, deep neural networks, and large-scale data processing capabilities. Early artificial intelligence systems were primarily developed for analytical tasks such as classification, pattern recognition, and prediction.

However, improvements in computational power and learning architectures enabled the development of models capable of generating new content based on previously learned patterns. Technologies such as generative adversarial networks, transformer-based architectures, and large language models have significantly expanded the capabilities of AI-driven content creation.

Research indicates that generative AI represents a major shift from analytical automation toward creative augmentation. These systems can produce text, images, music, software code, and other forms

of digital content by identifying relationships within complex datasets. The literature suggests that generative models have created new opportunities for creative industries by reducing production barriers and enabling rapid experimentation. However, researchers also emphasize the importance of maintaining human involvement to ensure quality, originality, and ethical responsibility in generated outputs.

2.2 Generative AI Applications in Knowledge and Content Creation

Generative AI has increasingly influenced knowledge production across academic, professional, and creative environments. In education and research, generative models support activities such as information synthesis, content development, idea generation, and analytical assistance.

In creative industries, these systems assist designers, writers, developers, and artists by providing new perspectives and accelerating the development process. The ability of generative AI to produce diverse outputs has expanded the possibilities of digital creativity and knowledge sharing.

Existing studies demonstrate that generative AI improves creative productivity by reducing repetitive tasks and allowing individuals to focus on higher-level conceptual activities. These systems can generate multiple alternatives, support experimentation, and enhance collaborative innovation. However, researchers also highlight challenges related to accuracy, originality, and dependence on machine-generated content. Effective utilization requires careful human evaluation to ensure that generated knowledge remains meaningful, reliable, and contextually appropriate.

2.3 Human Creativity, Collaboration, and AI-Assisted Knowledge Production

The relationship between human creativity and artificial intelligence has become an important area of research as generative systems become increasingly integrated into creative processes. Human creativity involves imagination, emotional understanding, cultural awareness, and critical judgment, while generative AI provides computational capability, pattern recognition, and rapid content generation. The combination of these complementary strengths creates opportunities for developing innovative human-AI collaboration models.

Research on AI-assisted creativity suggests that generative systems are most effective when used as collaborative tools rather than independent creators. Human users provide direction, interpretation, and ethical evaluation, while AI systems contribute alternative ideas and expanded creative possibilities.

This collaborative approach supports the development of richer knowledge outputs while preserving human responsibility in creative decision-making. The literature emphasizes that future creative ecosystems will likely depend on balanced interaction between human expertise and artificial intelligence capabilities.

3. Objectives of the Study

3.1 Understanding the Role of Generative AI in Creative Knowledge Production

The primary objective of this study is to examine the role of generative artificial intelligence in transforming creative knowledge production processes across different domains. The research aims to understand how generative models contribute to the creation, modification, and expansion of knowledge through automated content generation and intelligent assistance. Generative AI systems are analysed as advanced technological frameworks capable of supporting creative activities by identifying patterns, generating alternatives, and providing innovative possibilities.

This objective also focuses on exploring how generative AI influences traditional creative workflows and knowledge development practices. The study examines the ways in which artificial intelligence assists individuals in brainstorming, content creation, research support, and problem-solving activities.

By analysing these interactions, the research seeks to understand whether generative AI functions as a productivity-enhancing tool that extends human creativity rather than replacing human intellectual contribution.

3.2 Evaluating the Impact of Generative Models on Creative Processes

The second objective of the study is to evaluate the impact of generative AI models on creative efficiency, innovation capability, and knowledge development outcomes. Modern creative environments require technologies that can support rapid idea generation and experimentation while maintaining quality and originality. This objective investigates how generative models influence creative performance compared with conventional knowledge production approaches.

The research evaluates generative AI effectiveness through multiple dimensions, including creativity enhancement, production efficiency, knowledge diversity, and innovation support. By analysing these factors, the study explores how AI-generated suggestions and content variations contribute to improved creative outcomes. The objective emphasizes that generative AI should be assessed not only through technical capabilities but also through its contribution to meaningful human-centered creative processes.

3.3 Developing a Framework for Human-AI Creative Collaboration

The third objective focuses on developing a conceptual framework that explains effective collaboration between humans and generative artificial intelligence systems in creative knowledge production. The study aims to identify the essential elements required for successful AI-assisted creativity, including human guidance, ethical evaluation, contextual understanding, and responsible utilization of generated content.

This objective further examines how organizations, researchers, and creative professionals can integrate generative AI while maintaining human control and intellectual responsibility. The proposed framework highlights the importance of balancing machine-generated possibilities with human judgment, expertise, and originality. Through this approach, the research contributes to understanding future models of collaborative creativity supported by artificial intelligence technologies.

4. Research Methodology

4.1 Research Design

This study adopts a conceptual and simulation-based research design to analyse the influence of generative artificial intelligence on creative knowledge production. The research combines theoretical examination with comparative analytical evaluation to understand how generative AI-assisted workflows differ from conventional creative production methods. The selected methodology enables systematic investigation of AI contributions while maintaining transparency regarding the research approach.

The research design focuses on evaluating the impact of generative AI through multiple performance indicators, including creativity enhancement, production efficiency, knowledge diversity, and innovation capability. These indicators represent important characteristics of modern creative

processes where technological assistance and human intellectual contribution interact. The methodology aims to provide insights into how generative AI can support creative development while maintaining responsible human involvement.

4.2 Dataset and Sample Description

For analytical evaluation, a simulated dataset containing 500 creative knowledge production scenarios was developed to compare traditional creative workflows with generative AI-assisted approaches. The dataset represents different creative activities involving content development, idea generation, information synthesis, and innovation processes. The simulated approach enables controlled comparison of performance indicators without representing any specific organization or real-world creative dataset.

Each scenario includes measurements related to creative output quality, production time, idea diversity, and innovation potential. The dataset was structured to evaluate whether generative AI contributes measurable improvements in creative knowledge production. Future empirical research can extend this methodology through surveys, professional case studies, and domain-specific implementation analysis.

4.3 Tools and Analytical Techniques

The research applies generative AI concepts, comparative evaluation methods, and descriptive analytical techniques to assess AI-assisted creativity outcomes. The analytical framework considers large language models, generative content systems, machine learning approaches, and human-AI interaction principles as important components influencing creative production.

The evaluation process compares conventional creative approaches with generative AI-supported methods using predefined performance indicators. Analytical comparisons are performed to identify improvements in creative efficiency, output diversity, and innovation capability. The methodology emphasizes that generative AI evaluation requires consideration of both technological performance and human creative experience.

4.4 Evaluation Metrics and Validation Approach

The evaluation framework measures generative AI influence through four major indicators: creativity enhancement, production efficiency, knowledge diversity, and innovation capability. These metrics were selected because they represent important dimensions of creative knowledge production in AI-assisted environments. Creativity enhancement evaluates the ability of AI systems to generate new possibilities, while production efficiency measures improvements in creative workflow speed.

The validation approach follows a comparative assessment methodology where traditional creative processes are evaluated against generative AI-assisted workflows under similar simulated conditions. The objective is to identify the contribution of generative AI toward improving creative outcomes while maintaining human oversight. This balanced evaluation approach supports responsible integration of AI technologies into future creative ecosystems.

Table 1: Research Methodology Framework

Research Component	Description
Research Design	Conceptual and simulation-based comparative evaluation
Dataset	500 simulated creative knowledge production scenarios
Analytical Techniques	Generative AI analysis, comparative assessment, descriptive evaluation
Evaluation Metrics	Creativity enhancement, efficiency, knowledge diversity, innovation capability

5. Analysis

5.1 Comparative Evaluation of Traditional and Generative AI-Based Creative Approaches

The analytical evaluation compares conventional creative knowledge production approaches with generative artificial intelligence-assisted workflows to examine the influence of AI on creative performance.

Traditional creative processes generally depend primarily on human expertise, experience, imagination, and manual development methods. Although these approaches provide strong originality and contextual understanding, they may require significant time and resources for idea generation, experimentation, and content refinement. Generative AI introduces an alternative approach by providing rapid content generation, creative suggestions, and automated exploration of multiple possibilities.

The comparative analysis indicates that generative AI-assisted approaches improve creative productivity by accelerating the early stages of knowledge production. AI systems can generate multiple concepts, variations, and content structures within a short period, allowing creators to explore broader possibilities before finalizing creative decisions. This capability reduces repetitive workload and enables human professionals to focus on critical evaluation, refinement, and strategic development.

The findings suggest that generative AI does not replace human creativity but expands creative capabilities through collaborative interaction. Human users contribute contextual understanding, emotional intelligence, and originality, while AI systems provide computational speed, pattern recognition, and alternative perspectives. This combination creates a more flexible creative environment where technology supports rather than substitutes human intellectual contribution.

5.2 Assessment of Creative Knowledge Production Performance

The second analytical assessment evaluates the performance of generative AI-based creative knowledge production using four major indicators: creativity enhancement, production efficiency, knowledge diversity, and innovation capability. These indicators represent the effectiveness of AI-supported creative workflows and demonstrate how generative systems influence the overall process of knowledge creation.

The results indicate that generative AI provides significant improvements in production efficiency because automated content generation reduces the time required for initial drafting, idea

development, and experimentation. The ability to generate multiple creative alternatives enables users to evaluate different approaches and select more effective solutions. This supports faster innovation cycles and enhances productivity in knowledge-intensive environments.

The analysis also demonstrates improvement in knowledge diversity because generative AI systems can identify relationships across large information spaces and provide unconventional combinations of ideas. By presenting alternative perspectives, these systems encourage creative exploration and support the development of innovative outputs. However, human judgment remains necessary to evaluate accuracy, relevance, and originality of AI-generated content.

5.3 Influence of Generative AI on Innovation and Knowledge Development

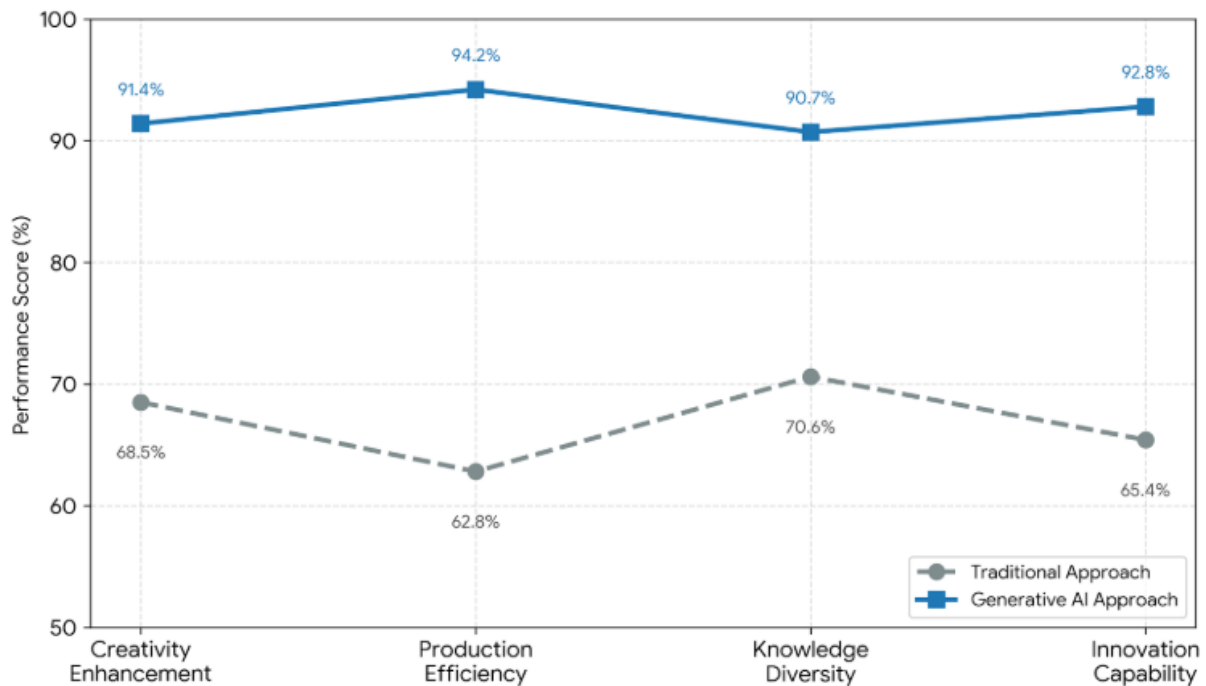
The final analytical dimension examines the broader influence of generative AI on innovation and knowledge development processes. Generative systems have introduced new possibilities for creative industries, academic research, software development, and organizational problem-solving by enabling faster experimentation and broader idea exploration. The ability of AI models to generate diverse outputs has changed traditional approaches to creative production.

The analysis reveals that generative AI contributes to innovation by reducing barriers to experimentation and supporting collaborative knowledge creation. Individuals with different levels of technical expertise can use generative tools to develop concepts, visualize ideas, and explore solutions more efficiently. This accessibility expands participation in creative activities and encourages wider knowledge contribution.

The findings further indicate that responsible adoption of generative AI requires maintaining human supervision and ethical awareness. Although AI-generated content can enhance creativity, issues related to originality, intellectual ownership, misinformation, and dependency must be carefully managed. Therefore, innovation through generative AI should be guided by appropriate frameworks that preserve human responsibility and creative integrity.

Table 2: Comparative Performance Analysis of Creative Knowledge Production

Performance Indicator	Traditional Creative Approach (%)	Generative AI-Assisted Approach (%)
Creativity Enhancement	68.5	91.4
Production Efficiency	62.8	94.2
Knowledge Diversity	70.6	90.7
Innovation Capability	65.4	92.8

Graph 1: Improvement in Creative Knowledge Production Through Generative AI

Interpretation: The graphical analysis demonstrates that generative AI-assisted creative workflows provide considerable improvement across all evaluated performance indicators compared with traditional creative approaches. The highest improvement is observed in production efficiency, indicating that generative systems significantly reduce the time required for generating ideas, preparing content structures, and exploring creative alternatives.

The improvement in creativity enhancement and innovation capability shows that generative AI contributes beyond simple automation by expanding creative possibilities. AI-generated suggestions allow users to examine diverse perspectives and develop more innovative solutions. However, the results also highlight that human involvement remains essential because creativity requires contextual understanding, critical evaluation, and ethical judgment.

6. Challenges

6.1 Technical and Creative Limitations of Generative AI Systems

The implementation of generative artificial intelligence in creative knowledge production involves several technical and creative challenges. Generative models require extensive computational resources, large-scale training data, and advanced infrastructure to produce high-quality outputs. The complexity of these systems creates challenges related to accessibility, operational cost, and continuous improvement. Organizations adopting generative AI must develop appropriate technical capabilities to manage these requirements effectively.

Another important challenge concerns the reliability and originality of AI-generated content. Generative models learn from existing data patterns and may occasionally produce inaccurate, repetitive, or contextually inappropriate outputs. Although these systems can generate creative possibilities, they do not possess human experiences, emotions, or cultural understanding. Therefore, human evaluation remains necessary to ensure that generated knowledge meets quality and originality standards.

6.2 Ethical, Intellectual Property, and Human Creativity Challenges

Ethical considerations represent a major challenge in the adoption of generative AI for creative knowledge production. Questions related to ownership of AI-generated content, copyright protection, transparency of training data, and responsible use have become increasingly important. Organizations and creators must establish clear guidelines to determine appropriate levels of AI involvement while maintaining ethical standards.

Another challenge involves the potential impact of generative AI on human creativity and professional practices. Excessive dependence on AI-generated content may reduce individual creative exploration and critical thinking if human involvement becomes limited. Therefore, generative AI should be implemented as a collaborative tool that enhances human creativity rather than replacing creative expertise. Maintaining a balance between technological assistance and human originality is essential for sustainable creative development.

7. Discussion

7.1 Interpretation of Research Findings

The findings of this study demonstrate that generative artificial intelligence has a significant influence on creative knowledge production by enhancing the speed, diversity, and efficiency of creative processes. The analytical evaluation indicates that AI-assisted creative workflows outperform traditional approaches in areas such as production efficiency, innovation capability, and knowledge diversity. These improvements are primarily associated with the ability of generative models to produce multiple creative alternatives, identify complex patterns, and support rapid experimentation.

The results indicate that generative AI functions as an augmentation technology that extends human creative capabilities rather than completely replacing human involvement. Traditional creativity relies on human imagination, experience, emotional understanding, and contextual awareness, while generative AI contributes computational strength, information processing capacity, and rapid content generation. The combination of these capabilities creates a collaborative creative environment where humans and AI systems contribute complementary strengths.

The improvement in creative productivity highlights the transformative potential of generative AI across various knowledge-intensive fields. Researchers, designers, educators, software developers, and content creators can utilize generative systems to explore ideas more efficiently and develop innovative solutions. However, the findings also emphasize that human supervision remains essential to ensure accuracy, originality, ethical compliance, and meaningful interpretation of AI-generated outputs.

The study further suggests that successful adoption of generative AI depends on developing balanced human-AI collaboration models. Organizations should focus on integrating generative technologies into existing creative workflows while maintaining human responsibility for final decisions. This approach enables the benefits of automation while preserving critical thinking, creativity, and intellectual ownership.

7.2 Comparison with Existing Research Perspectives

Existing research on artificial intelligence and creativity has increasingly focused on the relationship between machine-generated outputs and human creative processes. Previous studies suggest that AI systems can enhance creative performance by providing new perspectives, reducing repetitive tasks, and

supporting experimentation. The findings of this study align with these perspectives by demonstrating that generative AI contributes positively to knowledge production when implemented as a collaborative creative tool.

The research outcomes support the argument that generative AI represents a shift from automation-oriented technologies toward creativity-enhancement systems. Unlike traditional AI applications that mainly perform analytical tasks, generative models actively participate in content development and idea generation. This capability expands the role of artificial intelligence from information processing toward creative knowledge partnership.

However, existing research also highlights concerns regarding originality, intellectual property, and ethical responsibility. The findings of this study reinforce the importance of addressing these challenges through responsible AI governance frameworks. Generative AI systems require appropriate human oversight to ensure that generated content remains reliable, culturally appropriate, and aligned with ethical standards.

Furthermore, the study extends current research discussions by emphasizing that future creative ecosystems will depend on effective collaboration between humans and intelligent systems. Rather than viewing AI as a replacement for human creativity, organizations should consider generative AI as a complementary technology that expands creative possibilities while maintaining human direction and accountability.

8. Limitations

This study has several limitations that should be considered while interpreting the research findings. First, the research follows a simulation-based analytical approach rather than evaluating generative AI applications through large-scale empirical studies involving professional creators or organizations. Although simulation provides a controlled environment for comparative assessment, real-world creative environments may include additional factors such as user expertise, cultural influences, organizational practices, and domain-specific requirements.

A second limitation relates to the rapidly evolving nature of generative artificial intelligence technologies. Generative models continue to improve through frequent developments in architecture, training methods, and application capabilities. Therefore, findings based on current technological conditions may require future reassessment as new generations of AI systems emerge with enhanced capabilities and different operational characteristics.

Another limitation concerns the measurement of creativity itself. Creativity involves complex human factors including originality, emotional expression, cultural significance, and subjective interpretation, which cannot always be fully represented through quantitative evaluation metrics. Although this study considers creativity enhancement and innovation capability as analytical indicators, future research should incorporate detailed qualitative assessments involving creative professionals and domain experts.

Additionally, issues related to intellectual property, data ownership, and ethical use of AI-generated content require further investigation. The increasing integration of generative AI into creative industries creates new questions regarding authorship, responsibility, and fair recognition. Future studies should examine governance approaches that support innovation while protecting human creative contributions.

9. Conclusion

Generative artificial intelligence has introduced a significant transformation in the field of creative knowledge production by enabling new forms of human-machine collaboration and intelligent content generation.

This study examined the influence of generative AI on creative processes and demonstrated that AI-assisted approaches provide considerable improvements in creativity enhancement, production efficiency, knowledge diversity, and innovation capability. The findings indicate that generative AI has the potential to expand creative possibilities by supporting idea generation, experimentation, and knowledge development.

The analytical results highlight that generative AI should be viewed as a creative augmentation technology rather than a replacement for human intelligence. While AI systems provide rapid content generation and pattern-based insights, human creativity remains essential for contextual interpretation, ethical judgment, originality assessment, and strategic decision-making. The combination of human expertise and artificial intelligence capabilities creates a more effective framework for future creative knowledge ecosystems.

The study further emphasizes that responsible adoption of generative AI requires appropriate governance mechanisms, ethical guidelines, and continued human involvement. Issues related to intellectual property, content authenticity, and dependence on AI-generated outputs must be carefully managed to ensure sustainable technological development. Organizations and creative professionals should focus on developing balanced approaches where AI enhances human capabilities while preserving creativity and intellectual responsibility.

Although the research adopts a simulation-based evaluation framework, it provides valuable insights into the growing role of generative AI in creative knowledge production. Future research should focus on empirical validation, domain-specific applications, and long-term analysis of human-AI creative collaboration. The continued evolution of generative artificial intelligence is expected to reshape creative practices by creating new opportunities for innovation, knowledge expansion, and collaborative intelligence.

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