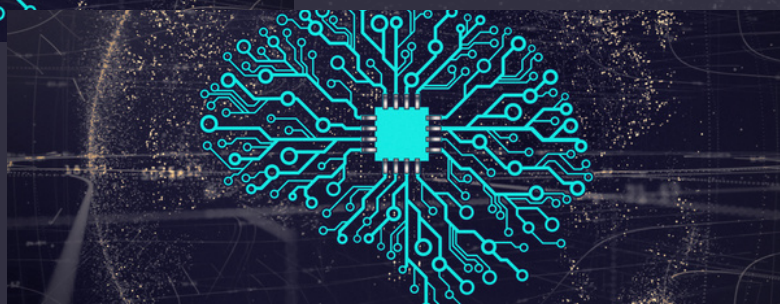
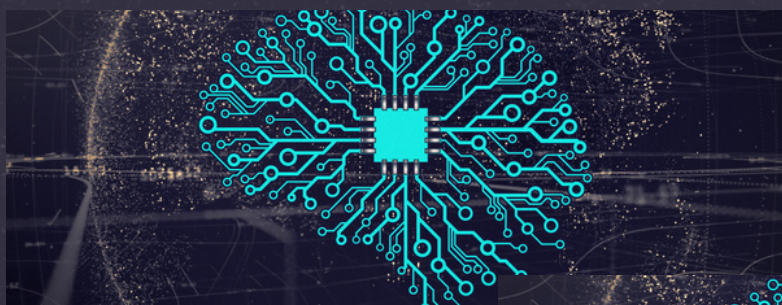


A(i)RT Youth: Navigating Generative AI in the Creative Future



**Hypothetical Scenarios
for Critical Discussions**



Co-funded by
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A(i)RT Youth: Navigating Generative AI in the Creative Future.
Hypothetical Scenarios for Critical Discussions
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While creating this publication, we used ChatGPT 4.0 as a writing assistant to draft the hypothetical scenarios, as well as to test this tool as a source of inspiration.

The creation of this publication is funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency (EACEA). Neither the European Union nor EACEA can be held responsible for them.

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Introduction

The publication **“A(i)RT Youth: Navigating Generative AI in the Creative Future. Hypothetical Scenarios for Critical Discussions”** was created in the context of the Erasmus+ project **“A(i)RT Youth: Art of the Future, Future of Art”** (1 March 2024 - 31 March 2025) with the aim to:

- raise awareness on the opportunities and challenges of AI technologies for the cultural and creative sectors; and
- equip young artists and audiences, as well as youth workers and youth-focused organizations with the necessary skills to navigate and thrive in the current [AI boom](#).

Generative AI (genAI) is reshaping the landscape of art and creative industries, transforming the ways in which art can be conceived, produced, and consumed. This publication explores the potential of genAI in art through a series of hypothetical scenarios, focusing on five key opportunities and five challenges that this technology presents.¹ The scenarios are designed to provoke reflection, discussion, and debate among young artists, youth workers, and emerging art audiences, encouraging them to critically assess the benefits and drawbacks of genAI as they develop a responsible approach to its use.

Each opportunity highlights the possibilities for genAI to empower creativity, accessibility, and innovation in art, while the challenges underscore ethical, practical, and societal dilemmas that might arise. By examining these contrasting aspects, young creatives and their communities can cultivate nuanced perspectives and sharpen their critical thinking, preparing them to navigate a future where genAI plays an increasingly central role in creative expression.

Methodology: How to use these hypothetical scenarios

Youth workers, educators and digital activists can use these hypothetical scenarios to engage young artists and art audiences in thought-provoking workshops, discussions, or creative exercises. Below, we present some ways you can facilitate critical thinking and responsible approaches to genAI through these scenarios.

Facilitating open discussions

You can introduce each scenario and encourage participants to discuss their initial reactions, then prompt deeper questions. For instance, you might ask, “What does this scenario imply for artistic ownership or originality?” or “How might this scenario affect young artists’ job opportunities?” This helps participants articulate diverse perspectives and recognize complexities.

¹ We focused on key opportunities and challenges that genAI presents for the arts and creative sectors as identified in these two publications:

- European Commission, Directorate-General for Communications Networks, Content and Technology, Izsak, K., Terrier, A., Kreutzer, S. et al., *Opportunities and challenges of artificial intelligence technologies for the cultural and creative sectors*, Publications Office of the European Union, 2022, <https://data.europa.eu/doi/10.2759/144212>.
- Jiang, H., Brown, L. T., Cheng, J., Khan, M., Gupta, A., Workman, D., Hanna, A., Flowers, J., & Gebru, T. (2023). “AI art and its impact on artists”. AIES ’23: Proceedings of the 2023 AAAI/ACM Conference on AI, Ethics, and Society. <https://doi.org/10.1145/3600211.3604681>.

Role-playing activities

Participants could adopt roles (like an artist, a technology developer, a gallery owner, or a member of the audience) and react to the scenarios from these perspectives. Role-playing can help young people empathize with the different stakeholders involved in genAI's impact on art, deepening their understanding of potential conflicts or collaborations.

Creative projects

You can encourage participants to create art inspired by a specific scenario, challenging them to embody the opportunities or address the ethical issues genAI presents. This could be through collaborative art, storytelling, or multimedia projects, encouraging both critical and creative thinking.

Ethics debates

By setting up debate teams, you can divide participants to argue for and against a scenario's potential impact on the creative sector. This structured debate format can help young artists strengthen their arguments, recognize opposing views, and refine their critical thinking around genAI.

Goal-setting for responsible use

You can conclude sessions by helping young artists develop personal or group “responsible use” guidelines. Using insights from the scenarios, participants can define ways they would like to engage with or limit genAI, fostering a sense of agency and ethical responsibility in their own work.

These approaches create a supportive space for young artists and audiences to explore the impact of genAI, equipping them with the mindset and tools to navigate its influence on their creative future.

Hypothetical scenarios focusing on opportunities

Opportunity: Saving costs and increasing efficiency

Hypothetical scenario

In a bustling film studio, director Alex Morgan is working on her latest project, a complex science fiction film set in a post-apocalyptic world. The film involves intricate visual effects, extensive editing, and a tight shooting schedule. Alex's team decides to incorporate AI tools to streamline the production process.

1. **Pre-production:**

- **Script analysis:** An AI tool analyzes the script to suggest optimal shooting schedules, identify potential continuity issues, and recommend locations based on the scenes described.
- **Casting:** Using AI-driven analysis, the casting director shortlists actors who best fit the character profiles, saving time on initial screenings.

2. **Production:**

- **Camera framing:** AI systems automate the framing of shots, ensuring consistent visual composition and saving time for the cinematographer.
- **Environmental design:** AI generates detailed 3D models of post-apocalyptic cityscapes, allowing the art department to visualize and refine the setting efficiently.

3. **Post-production:**

- **Editing:** AI tools quickly sort through hours of raw footage, identifying the best takes and assembling rough cuts for the editors to fine-tune.
- **Visual effects:** AI enhances special effects, seamlessly integrating CGI elements with live-action footage and fixing any visual inconsistencies.
- **Sound design:** AI-powered mixing and mastering tools expedite the creation of the film's soundtrack, ensuring high-quality audio production.

4. **Marketing:**

- **Trailer production:** AI generates multiple trailer versions by selecting high-impact scenes, streamlining the process for the marketing team.
- **Audience analysis:** AI predicts the film's potential success by analyzing social media trends and audience preferences, helping the studio plan its release strategy.

As a result, Alex's film is completed ahead of schedule and under budget. The use of AI has allowed her team to focus on the creative aspects of the project, such as storytelling, character development, and artistic direction, rather than getting bogged down by technical and repetitive tasks.

Group discussion

Discuss the following questions:

- What are the key benefits of using AI in the creative industries, as demonstrated in the scenario?
- What potential challenges or ethical concerns might arise from the use of AI in these sectors?
- How can creative professionals ensure that AI tools are used responsibly and ethically?

Discuss the hypothetical scenario from different perspectives (e.g. creative professionals, AI developers, policymakers, audiences etc.).

Consider the **positive** impact of AI on both the efficiency of the creative process and the quality of the final product.

Brainstorming

- Try to identify similar benefits for various creative fields (e.g., music, visual arts, journalism).
- Try to think of strategies for balancing automation with human creativity.

Opportunity: Supporting decision-making

Hypothetical scenario

In a fashion company, designer Mia Patel is preparing for the launch of her next collection. Her team decides to leverage AI-powered data analytics to better understand consumer preferences and predict upcoming fashion trends.

1. Data collection:

- **Consumer preferences:** AI tools analyze data from social media, fashion blogs, and online shopping trends to identify popular styles, colors, and fabrics.
- **Sales data:** The company's historical sales data is processed to understand which items were most successful in different seasons and regions.

2. Trend prediction:

- **Trend analysis:** AI systems predict emerging trends by identifying patterns in the collected data, suggesting potential popular designs for the next season.
- **Market segmentation:** The AI tool segments the market into different customer groups based on preferences, allowing Mia's team to tailor their designs to specific audiences.

3. Design and production:

- **Design recommendations:** AI generates design recommendations, offering insights on colors, patterns, and styles that are likely to resonate with consumers.
- **Supply chain optimization:** AI optimizes the supply chain by predicting the necessary materials and quantities, reducing waste and ensuring timely production.

4. Marketing and sales:

- **Targeted marketing:** AI-driven insights help plan targeted marketing campaigns by identifying the best platforms and times to reach different customer segments.
- **Sales forecasting:** AI estimates the potential sales for each design, helping Mia's team make informed decisions about production volumes and inventory management.

5. Customer engagement:

- **Personalized recommendations:** AI tools on the company's website provide personalized style advice to customers, enhancing their shopping experience.
- **Feedback analysis:** AI analyzes customer feedback from various channels, providing Mia's team with valuable insights to refine future collections.

As a result, Mia's fashion company experiences increased efficiency, reduced production costs, and higher customer satisfaction. The use of AI-powered data analytics has enabled the team to make data-driven decisions, stay ahead of trends, and deliver products that meet consumer demands.

Group discussion

Discuss the following questions:

- What are the key benefits of using AI-powered data analytics in creative industries, as demonstrated in the scenario?
- What potential challenges or ethical concerns might arise from the use of AI in these sectors?
- How can creative professionals ensure that AI tools are used responsibly and effectively?

Discuss the hypothetical scenario from different perspectives (e.g. creative professionals, AI developers, policymakers, consumers etc.).

Consider the **positive** impact of AI on decision-making, efficiency, and creativity.

Brainstorming

- Try to identify similar benefits for various creative fields (e.g. film, architecture, museums).
- Try to think of strategies for balancing automation with human creativity, and policies for transparency in data usage.

Opportunity: Discovering and engaging audiences and new content creators

Hypothetical scenario

A music streaming platform, Melodify, aims to captivate Generation Z by providing hyper-personalized music experiences. Utilizing AI-powered recommendation systems and user engagement tools, Melodify caters to digital natives who crave novel and interactive cultural content.

1. User interaction:

- **Profile creation:** Users create detailed profiles, including musical preferences, favorite genres, and moods.
- **Interactive playlists:** AI curates interactive playlists based on user profiles, listening habits, and real-time feedback.

2. Content personalization:

- **Dynamic recommendations:** AI analyzes user behavior, such as song skips, repeats, and likes, to continuously refine recommendations.
- **Mood-based playlists:** The platform offers playlists tailored to the user's current mood, time of day, and activities, such as studying or working out.

3. Co-creation features:

- **User-generated content:** Users can create and share their own playlists, remix songs using AI tools, and collaborate with other users in real-time.
- **Virtual concerts:** Melodify hosts virtual concerts where users can interact with artists and other fans, enhancing the immersive experience.

4. Accessibility enhancements:

- **AI-driven accessibility:** The platform incorporates advanced text-to-speech and automated captioning features to make content accessible to users with disabilities.
- **Language customization:** AI provides automated translations and captions, making global music content accessible to a wider audience.

5. Market insights:

- **Data analytics:** AI analyzes user data to predict trends, helping artists and record labels understand audience preferences and tailor their marketing strategies.
- **Emerging artists:** AI identifies emerging artists whose music resonates with users, promoting their work on the platform and increasing their visibility.

As a result, Melodify not only enhances user engagement and satisfaction but also creates new opportunities for artists to connect with their audiences. The platform's AI-driven approach ensures that every user has a unique and immersive music experience, reflecting the evolving demands of digital natives.

Group discussion

Discuss the following questions:

- What are the key benefits of using AI for personalizing cultural experiences, as demonstrated in the scenario?
- How can AI tools be used to engage digital natives in the creative process and cultural consumption?
- What potential challenges or ethical concerns might arise from the use of AI in these sectors?

Discuss the hypothetical scenario from different perspectives (e.g. musicians, AI developers, policymakers, young audiences etc.).

Consider the **positive** impact of AI on user engagement, accessibility, and content creation.

Brainstorming

- Try to identify similar benefits for various creative fields (e.g. virtual reality art exhibitions, personalized fashion recommendations etc.).
- Try to think of strategies for balancing human creativity with AI insights, and policies for transparency in data usage.

Opportunity: AI opportunities across sectors and beyond

Hypothetical scenario

A theater company, Theatrica, collaborates with a leading video game studio, VirtuPlay, to create an innovative, AI-driven immersive experience that blends live theater performances with interactive video gaming. This partnership leverages AI to enhance both the artistic expression of theater and the dynamic interactivity of video games, creating a unique cross-sectoral collaboration.

1. **Project concept:**

- **Interactive storytelling:** Theatrica and VirtuPlay develop a hybrid production where audiences can influence the storyline of a live theater performance through an accompanying video game.
- **AI-generated environments:** Using AI, real-time video game environments are generated based on the progression of the theater performance, allowing audiences to explore virtual landscapes that reflect the on-stage action.
- **Real-time music generation:** AI-powered music tools create real-time, adaptive soundtracks that respond to both the live performance and the in-game actions of the audience.
- **Enhanced visuals:** AI algorithms convert museum collection images into detailed objects and backgrounds within the game, enriching both the virtual environment and the theatrical set design.

2. **Implementation:**

- **Pre-production:** Artists, playwrights, game designers, and AI developers collaborate to script the storyline and design the interactive elements.
- **Live performances:** During live performances, actors respond to audience inputs from the video game, creating a dynamic and unpredictable narrative.
- **Audience engagement:** Audiences participate in the video game via their devices, influencing the storyline, setting, and outcomes of the live performance in real-time.

3. **Outcomes:**

- **Enhanced creativity:** Artists and game designers explore new creative frontiers by blending traditional theater with interactive digital experiences.
- **Expanded reach:** The immersive experience attracts both theater enthusiasts and gamers, broadening the audience base for both sectors.
- **Cross-sectoral innovation:** The collaboration showcases the potential of AI to bridge the gap between different cultural and creative sectors, leading to innovative content and new business models.

Group discussion

Discuss the following questions:

- What are the key benefits of cross-sectoral collaborations, as demonstrated in the scenario?
- How can AI tools facilitate innovation and creativity in different cultural and creative sectors?
- What potential challenges or ethical concerns might arise from such cross-sectoral collaborations?

Discuss the hypothetical scenario from different perspectives (e.g. artists, AI developers, cultural sector representatives, and audience members).

Consider the **positive** impact of AI on creativity, user engagement, and content quality.

Brainstorming

- Try to identify similar benefits for various cross-sectoral collaborations (e.g. AI in music and healthcare, AI in visual arts and education etc.).
- Try to think of strategies for balancing human creativity with AI insights, audience engagement, content quality, and policies for transparency in AI-generated content.

Opportunity: Inspiring and complementing the content creator

Hypothetical scenario

A publishing company, LitWorks, integrates a cutting-edge AI writing assistant named "StoryWeaver" into its creative process. The AI tool is designed to support authors, especially new and aspiring writers, by enhancing their storytelling and ensuring a consistent narrative style.

1. **User interaction:**

- **Profile creation:** Authors create profiles detailing their writing style, genre preferences, and story outlines.
- **Style consistency:** StoryWeaver analyzes the author's previous works or provided samples to understand their unique writing style.

2. **Content enhancement:**

- **AI-driven suggestions:** As authors write, StoryWeaver offers real-time suggestions for plot twists, character development, and dialogue improvement.
- **Style consistency:** The AI ensures that the writing style remains consistent throughout the book, even if the author's approach varies over time.

3. **Creative inspiration:**

- **Idea generation:** Authors can input basic plot ideas, and StoryWeaver generates potential story arcs, helping to overcome writer's block.
- **Surprise elements:** The AI introduces unexpected but fitting elements to the plot, sparking creativity and enriching the narrative.

4. **Editorial support:**

- **Grammar and syntax:** StoryWeaver provides grammar and syntax corrections, ensuring the manuscript is polished and error-free.
- **Sentiment analysis:** The AI analyzes the emotional tone of the writing, helping authors maintain the desired mood and atmosphere.

5. **Market insights:**

- **Trend analysis:** StoryWeaver suggests trending themes and topics based on current market data, guiding authors to create commercially viable content.
- **Audience engagement:** The AI predicts reader preferences and suggests elements that are likely to resonate with the target audience.

By incorporating StoryWeaver, LitWorks empowers authors to enhance their creative process, produce high-quality manuscripts efficiently, and engage with a broader audience through compelling narratives.

Group discussion

Discuss the following questions:

- What are the key benefits of using AI for enhancing the creative writing process, as demonstrated in the scenario?
- How can AI tools be used to support young writers and inspire creativity?
- What potential challenges or ethical concerns might arise from the use of AI in creative writing?

Discuss the hypothetical scenario from different perspectives (e.g. authors, AI developers, publishers, and readers).

Consider the **positive** impact of AI on creativity, user engagement, and content quality.

Brainstorming

- Try to identify similar benefits for various creative fields (e.g. AI-generated music, AI-assisted visual art creation, AI-supported journalism).
- Try to think of strategies for balancing human creativity with AI insights, and policies for transparency in AI-generated content.

Hypothetical scenarios focusing on challenges

Challenge: Economic loss

Hypothetical scenario

In the year 2030, a renowned animation studio, StarVision, has decided to lay off 60% of its art department. Instead of employing traditional artists, StarVision opts to use a highly advanced generative AI system named Artis. This AI can produce a full animated sequence in a matter of hours, something that would have taken a team of artists weeks to complete.

This move sparks a major controversy within the creative community. Many veteran artists, who have spent decades perfecting their craft, find themselves suddenly unemployed. Young aspiring artists, who dreamt of one day working at prestigious studios like StarVision, see their career prospects dim.

A particular case that captures public attention is that of Maria, a talented young artist from a low-income background. Maria had been working multiple part-time jobs while honing her animation skills, hoping to secure a position at StarVision. She had even been shortlisted for an internship. However, with the introduction of Artis, the internship program is canceled, leaving Maria and many others without a path to enter the industry.

Meanwhile, StarVision's CEO, Alex Grey, publicly defends the use of Artis, arguing that it democratizes the creation of animation and reduces production costs. Grey dismisses the concerns of artists, suggesting that they need to adapt and find new roles within the industry, such as overseeing the AI's output. Critics argue that this "oversight" role is a significant step down from the creative work artists have traditionally done, reducing their contributions to mere quality control.

The debate intensifies when it is revealed that StarVision's latest blockbuster, created primarily by Artis, grossed record-breaking profits. However, these profits did not trickle down to the remaining artists, whose roles had been diminished. Instead, the financial benefits were concentrated at the executive level and among the shareholders.

Group discussion

Discuss the following questions:

- How does the introduction of AI like Artis affect different stakeholders (e.g. established artists, aspiring artists, studio executives, audiences)?
- What ethical considerations should companies like StarVision take into account when deciding to use AI in their creative processes?

Discuss and debate the hypothetical scenario from different perspectives (e.g. displaced artist, studio executive, AI developer, aspiring artist, audience member etc.).

Consider the interests, motivations, and potential actions of all stakeholders. Also, consider both the short-term and long-term implications of AI on each stakeholder's interests.

Solution brainstorming

Propose potential solutions to address the challenges raised by the use of AI in the arts. Solutions can include policy recommendations, support programs for artists, new business models, or educational initiatives to help artists adapt to technological changes. Consider both short-term and long-term strategies.

Challenge: Digital artwork forgery

Hypothetical scenario

In 2038, a popular social media platform called ArtVerse introduces a new feature powered by an advanced generative AI system named Imita. This system allows users to generate images in the style of any artist by simply typing the artist's name into a prompt. While this feature quickly gains popularity among users, it sparks a major controversy within the artistic community.

One of the artists affected by this is Emma, a well-known illustrator whose unique, whimsical style has garnered a significant following. Without her consent, Emma's name and style become widely used on ArtVerse. Users begin generating images mimicking her artwork, some of which are used in ways she finds deeply troubling, such as in the promotion of products and messages she doesn't support.

Emma discovers that not only are her original works being replicated, but some generated images are being altered to include offensive and controversial content. These images are shared widely, causing significant reputational damage to Emma, as many people mistakenly believe she created them. The situation escalates when an image generated in her style is used in a political campaign without her permission, leading to public backlash against her perceived political stance.

Despite repeated requests to ArtVerse to remove her name and style from the Imita system, the platform's response is slow and inadequate, citing the technical difficulty of excluding specific artists from the AI's capabilities. Emma's situation highlights the broader issue of consent and compensation in the use of AI-generated art, sparking a public debate about the ethics of such technologies.

Group discussion

Discuss the following questions:

- What are the ethical issues presented in this scenario?
- How does the unauthorized use of an artist's style affect their professional and personal life?
- What responsibilities do companies like ArtVerse have towards artists whose work is used by their AI systems?

Discuss the scenario from different perspectives (e.g. affected artist, social media platform, AI developer, general public, legal expert).

Consider the interests, motivations, and potential actions of all stakeholders. Also, consider both the short-term and long-term implications of AI on each stakeholder's interests.

Solution brainstorming

Brainstorm on potential solutions to address the challenges raised in the scenario. Solutions could include policy changes, technological adjustments, or support mechanisms for artists. Consider both short-term and long-term strategies.

Challenge: Hegemonic views and stereotyping

Hypothetical scenario

In the year 2032, a major tech company, GlobalVision, releases a new generative AI tool named EthnoArt. This tool is designed to create culturally-themed images by drawing from a vast dataset that purportedly represents the rich diversity of global cultures. EthnoArt is marketed as a way for artists and content creators to easily produce culturally relevant imagery for various projects, from marketing campaigns to educational materials.

However, soon after its release, significant issues arise. A renowned artist from Nigeria, Adeola, notices that EthnoArt's depiction of Nigerian culture is filled with inaccuracies and stereotypes. The AI often generates images of Nigeria that focus on outdated or exoticized representations, such as tribal attire and rural settings, while ignoring the modern and diverse reality of Nigerian cities. This misrepresentation offends many in the Nigerian community, who feel their culture is being reduced to a set of clichés.

Meanwhile, in India, artist Ravi finds that EthnoArt's outputs often conflate distinct cultural elements from different regions of the country, creating a homogenized and inaccurate portrayal of Indian culture. For example, the AI frequently combines elements of South Indian traditional dress with North Indian architectural styles, creating images that are historically and culturally inaccurate. Ravi, along with other artists, is concerned that such depictions contribute to cultural erasure and misrepresentation.

The issue becomes even more contentious when a popular fashion brand uses EthnoArt to generate designs for their latest collection. The brand, which lacks diversity in its leadership team, launches a campaign featuring AI-generated images inspired by various African cultures. These designs, however, are riddled with inaccuracies and are criticized for cultural appropriation. The brand profits from these designs without any compensation or credit to the African communities whose cultural elements were used.

As backlash grows, GlobalVision issues a statement claiming that EthnoArt was created to celebrate global diversity and that any misrepresentations are unintended consequences. They offer to make technical adjustments but do not commit to involving actual cultural representatives in the process. This response fails to address the deeper issues of cultural commodification and appropriation, leading to protests and calls for more ethical practices in the development and use of AI tools.

Group discussion

Discuss the following questions:

- What are the ethical issues related to the use of generative AI in creating culturally themed images?
- How can inaccurate or stereotypical representations in AI-generated art affect communities and individuals?
- What responsibilities do companies have when creating and using AI tools that depict cultural elements?

Discuss the scenario from different perspectives (e.g. affected artist, tech company, cultural community, consumer, legal expert).

Consider the interests, motivations, and potential actions of all stakeholders. Also, consider both the short-term and long-term implications of AI on each stakeholder's interests.

Solution brainstorming

Brainstorm on potential solutions to address the challenges raised in the scenario. Solutions could include policy changes, involving cultural representatives in the development process, or creating guidelines for ethical AI use. Consider both short-term and long-term strategies.

Challenge: Chilling effects on cultural production and consumption

Hypothetical scenario

In the year 2035, the art world is drastically changed by the widespread use of generative AI tools. These tools have become so advanced and ubiquitous that many aspiring and professional artists feel overshadowed and threatened. One such artist is Maya, a young illustrator who has been honing her craft for years and sharing her work on social media platforms. However, Maya notices a significant drop in engagement and sales as AI-generated art floods the market.

Maya's friend, Alex, a fellow artist and art teacher, faces similar challenges. He runs an online course where he teaches illustration techniques. Recently, enrollment in his course has plummeted because many students believe that learning from a human artist is unnecessary when AI can produce art quickly and cheaply. Alex also finds that his work is being used without consent in training datasets for these AI systems, leading to a sense of violation and discouragement.

One day, Maya discovers that an AI-generated art piece has won a prestigious art competition that she had been preparing for months. The winning piece, created by an AI using a dataset that included Maya's own works, replicates her unique style but lacks the depth and emotion that her original pieces convey. This event demoralizes Maya and many other artists, causing them to question the value of their efforts and whether there is any future for human artists in a world dominated by AI-generated art.

In response to this, a growing number of artists, including Maya and Alex, decide to withdraw from sharing their work online and participating in public exhibitions. This self-imposed isolation limits their visibility and income, but they feel it is necessary to protect their artistic integrity. As a result, the art community becomes fragmented, and aspiring artists struggle to find mentors and learn from experienced creators.

Group discussion

Discuss the following questions:

- What are the emotional and professional impacts on artists like Maya and Alex due to the rise of generative AI?
- How does the widespread use of AI-generated art affect the overall creativity and innovation in the art world?
- What can be done to protect the rights and works of human artists in the face of advancing AI technologies?

Discuss the scenario from different perspectives (e.g. affected artist, art enthusiast, AI developer, art educator, policy maker).

Consider the interests, motivations, and potential actions of all stakeholders. Also, consider both the short-term and long-term implications of AI on each stakeholder's interests.

Solution brainstorming

Brainstorm on potential solutions to address the challenges raised in the scenario. Solutions could include policy changes, technological safeguards, or community initiatives to support human artists. Consider both short-term and long-term strategies.

Challenge: Authorship

Hypothetical scenario

In the near future, a popular AI image generator, ArtBot, will become widely used by both amateur and professional artists. ArtBot is known for its ability to produce stunning visuals based on user prompts, drawing from a vast dataset of images scraped from the internet. Among these images are works by a famous contemporary artist, Elena Torres, who has built a reputation for her unique and intricate digital art.

One day, Elena discovers that several pieces of AI-generated art resembling her style are being sold online and used in various commercial projects. Some of these works are even being entered into art competitions and winning awards. Distressed, Elena learns that her artworks were part of the training data for ArtBot, without her consent or compensation.

Elena decides to take legal action against the company behind ArtBot, claiming that her copyrighted works were used unlawfully to train the AI. However, she faces several challenges:

- **Identification and attribution:** The dataset used to train ArtBot is not publicly disclosed in detail, making it difficult to identify which specific works were used and prove copyright infringement.
- **Legal ambiguity:** The current US copyright law does not clearly address the use of copyrighted materials in AI training datasets, leaving Elena uncertain about her chances of winning the lawsuit.
- **Economic impact:** While the lawsuit is ongoing, Elena's income from her art sales and commissions drops significantly as AI-generated art floods the market, reducing demand for original human-created artworks.
- **Policy gaps:** There are no clear policies or regulations requiring companies to obtain consent from artists before using their works in training datasets, nor are there mechanisms in place to compensate artists for such use.

As the legal battle unfolds, other artists in the community become wary of sharing their work online, fearing that their art might also be used without permission. This reluctance to share leads to a decline in artistic innovation and collaboration, further impacting the art world.

Group discussion

Discuss the following questions:

- What are the main legal and ethical issues raised by the use of AI image generators like ArtBot?
- How can artists protect their works from being used without their consent in AI training datasets?
- What policies or regulations should be implemented to ensure fair use of artists' works in AI development?

Discuss the scenario from different perspectives (e.g. artist, AI developer, policymaker, art consumer).

Consider the interests, motivations, and potential actions of all stakeholders. Also, consider both the short-term and long-term implications of AI on each stakeholder's interests.

Solution brainstorming

Brainstorm on potential solutions to address the challenges raised in the scenario. Solutions could include legal reforms, technological safeguards, or community initiatives to support artists. Consider both short-term and long-term strategies.