

# TRANSCRIPT OF PROCEEDINGS

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In the Matter of: )  
 )  
COPYRIGHT ON ARTIFICIAL )  
INTELLIGENCE AND VISUAL ARTS )  
LISTENING SESSION )  
 )

Pages: 1 through 140  
Place: Washington, D.C.  
Date: May 2, 2023

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## HERITAGE REPORTING CORPORATION

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COPYRIGHT ON ARTIFICIAL            )  
INTELLIGENCE AND VISUAL ARTS      )  
LISTENING SESSION                    )  
  )

Suite 206  
Heritage Reporting  
Corporation  
1220 L Street, NW  
Washington, D.C.

Tuesday,  
May 2, 2023

The parties met remotely, pursuant to the notice,  
at 1:00 p.m.

ATTENDEES:

MARIA STRONG, Associate Register of Copyrights  
and Director of Policy and International  
Affairs  
MARK GRAY, Assistant General Counsel  
EMILY LANZA, Counsel  
NICHOLAS BARTELT, Attorney-Advisor  
DAVID WELKOWITZ, Attorney-Advisor  
JORDANA RUBEL, Assistant General Counsel  
JALYCE MANGUM, Attorney-Advisor  
J. SCOTT EVANS, Adobe  
BEN BROOKS, Stability AI  
ALICIA CALZADA, National Press Photographers  
Association  
SARAH CONLEY ODENKIRK, Cowan, DeBaets, Abrahams &  
Sheppard  
KARLA ORTIZ, freelance concept artist  
CURT LEVEY, Committee for Justice  
REBECCA BLAKE, Graphic Artists Guild  
JAMES GATTO, Sheppard Mullin  
ALEX RINDELS, Jasper AI  
PAUL REINITZ, Getty Images  
LUC BOULET, Professional Photographers of America  
HEATHER WHITNEY, Morrison & Foerster  
DANIEL TAKASH, The Niskanen Center

Heritage Reporting Corporation  
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ATTENDEES: (Cont'd.)

ZARA VARIN, Dual Wield Studio  
DANIEL GERVAIS, Vanderbilt University Law School  
JAMES SILVERBERG, American Society for Collective  
Rights Licensing  
TOM LOCKLEY, Grey Owl Audio  
MATTHEW CUNNINGHAM, Cunningham Concept Design  
BRIAN FRYE, University of Kentucky College of Law  
NETTRIC GASKINS, freelance artist  
PHUC PHAM, Freelance Solidarity Project  
ANKIT SAHN, Ajay Sahni Associates  
JEFFREY SEDLIK, PLUS Coalition  
PATRICIA SIGMON, artist/art director  
DELANIE WEST, Be Super Creative

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P R O C E E D I N G S

(1:00 p.m.)

MR. GRAY: Hello, everyone. Thank you very much for joining us today. We are going to start our session now.

Welcome to the United States Copyright Office's Listening Session on Artificial Intelligence and the Visual Arts. Today, we are going to be discussing a variety of issues in the visual arts space.

My name is Mark Gray, first off. I'm an Assistant General Counsel here in the Office of the General Counsel.

Before we start our first panel, I would like to introduce Maria Strong for opening remarks. Maria is an Associate Registrar of Copyrights, as well as the Director of Policy and International Affairs here at the U.S. Copyright Office.

Maria?

MS. STRONG: Thanks, Mark, and welcome, everybody, to the Copyright Office's Public Listening Session on Artificial Intelligence and Visual Arts. In copyright law, works of visual arts are broadly defined as pictorial, graphic, and sculptural works. Some examples include two-dimensional and three-

1 dimensional works of fine graphic and applied art,  
2 photographs, prints and art reproductions, maps,  
3 globes, charts, diagrams, models, and technical  
4 drawings, including architectural plans.

5 Because the visual arts include a wide  
6 variety of works, today, we will ask broad questions  
7 to facilitate discussion across each participant's  
8 area of expertise.

9 It's likely that almost everyone on this  
10 webinar has seen various images that deep learning  
11 text-to-image models can produce based on text  
12 prompts. We've heard concern from artists and  
13 photographers about what the training and deployment  
14 of these models might mean for their livelihoods and  
15 their industries both in terms of the input of their  
16 own images into these models, as well as the  
17 excitement and concerns related to the outputs.

18 And the purpose of our session today is to  
19 discuss these issues. We want to hear how the public  
20 is thinking about policy issues raised by these  
21 technologies.

22 To begin to address the copyrightability and  
23 registration issues raised by works generated using AI  
24 tools, the Office recently issued new registration  
25 guidance in mid-March. That guidance makes clear that

1 applicants have a duty to disclose the inclusion of  
2 AI-generated content in works submitted for  
3 registration. It outlines how to do so, how to update  
4 pending applications, and how to correct the public  
5 record on copyright claims that have already been  
6 registered without the required disclosure.

7           There was a lot of interest in today's  
8 event. Unfortunately, we were not able to accommodate  
9 all requests to speak. But this is not the last  
10 chance to share your views on AI with the Copyright  
11 Office. As we've said before and we'll say again,  
12 there are two more listening sessions happening later  
13 this month. And down the road, we will be requesting  
14 written input through a public notice of inquiry.  
15 Please visit our website, [copyright.gov/AI](http://copyright.gov/AI), for more  
16 information and resources on our AI initiative.

17           Finally, we thank our panelists in advance  
18 for contributing to today's discussion and  
19 conversation. This is a complex topic and a deeply  
20 personal one for all our panelists, whether they are  
21 users or developers of AI technology, artists whose  
22 works help train that technology, or creators  
23 contemplating how AI will affect their careers. We  
24 are all looking forward to a thoughtful and respectful  
25 dialogue.

1           Let me turn the mic back to Mark Gray to  
2 outline the various logistics for today's session.  
3 Thank you.

4           MR. GRAY: Thank you very much, Maria.

5           So, as a quick reminder, before we get into  
6 specifics, today's listening session is the second of  
7 a series of listening sessions that we are doing here  
8 at the Copyright Office going through the end of May.  
9 Each of our sessions is going to look at different  
10 topics, different types of works, and, as a result, is  
11 going to have different panelists and may even use  
12 different formats.

13           So, after today, we have two more sessions  
14 scheduled. There is a session on May 17, Wednesday,  
15 which will be focusing on audiovisual works, which  
16 would include movies and video games. And our final  
17 session will be on May 31, which will focus on musical  
18 works and sound recordings.

19           The purpose behind these listening sessions  
20 is to inform the Office's overall AI initiative, so  
21 some of the questions our panelists raise may be ones  
22 that we seek to explore further in written comments  
23 later this year. So please keep in mind that while  
24 there are a handful of my colleagues here from the  
25 Copyright Office on today on video, the rest of the

1 Office is in the audience and is listening, and all of  
2 this is going to help inform our work.

3 The schedule for today, the session format  
4 is going to be two panels of different sets of  
5 speakers, followed by a third segment where a set of  
6 additional speakers will get the chance to share brief  
7 remarks.

8 We are making a video recording of this,  
9 both of this session as well as the other three. We  
10 are trying to get those online within three weeks of  
11 each session taking place, so please keep your eyes  
12 peeled for that if you have any friends or colleagues  
13 who don't have the opportunity to watch the session  
14 today.

15 Before we get started, a few Zoom  
16 housekeeping notes. If you are a panelist who is not  
17 speaking at the current session, please keep your  
18 camera and microphone off and on mute. And then,  
19 likewise, if you are a panelist, please keep your  
20 camera on and be ready to go off of mute when you're  
21 speaking.

22 We will be recording the session today. As  
23 I mentioned, the recording will try to go up in about  
24 three weeks from today. And we have enabled Zoom's  
25 transcription functionality for those of you who are



1 interested in following along with captions.

2 The way we're going to do the first panel is  
3 we're going to start with a brief introduction and  
4 short statement by each of the panel participants if  
5 they so desire. We'd like you to try to keep those to  
6 two minutes. We're going to be keeping an eye and the  
7 moderators may need to cut you off if it goes a little  
8 long just so we can keep everything on schedule.

9 After those introductions and brief remarks,  
10 we're going to do a moderated listening session. The  
11 panelists have received a set of broad questions in  
12 advance. Those are meant to prompt and guide a  
13 discussion, but panelists and participants are welcome  
14 to share any other relevant perspectives or  
15 experiences they think are important for the Copyright  
16 Office to hear.

17 If you are a panelist, please try to use  
18 Zoom's Raise Hand functionality, and we will try to  
19 call on you in the order that you raise your hands  
20 just to keep the conversation organized.

21 Please keep in mind this is a listening  
22 session and not a debate, so there will be other  
23 opportunities in the future for people to engage more  
24 directly with competing views. But the purpose today  
25 is really to help the Office air out a variety of

1 ideas and issues and perspectives for us to guide our  
2 own thinking.

3 As a final note, I see we have some  
4 questions in the Q&A from the audience.  
5 Unfortunately, this is a listening session for the  
6 participants. We are unable to accommodate audience  
7 questions. So thank you so much for your interest.  
8 Please keep your eyes out on our website for future  
9 public participation and comment opportunities, but we  
10 cannot take any comments today, unfortunately, from  
11 you.

12 With that, I'm going to hand it over to our  
13 moderators for the first session, Emily Lanza and Nick  
14 Bartelt. Emily is a Counsel in our Office of Policy &  
15 International Affairs. And Nick is an Attorney-  
16 Advisor in the Office of the General Counsel.

17 Emily, the mic is yours.

18 MS. LANZA: Thank you, Mark, and welcome,  
19 everyone. We will begin with introductions in the  
20 order as stated on the agenda.

21 So, first up, Scott with Adobe, would you  
22 like to go ahead?

23 MR. EVANS: Sure. Thank you for having me  
24 today. My name is J. Scott Evans, and I'm Senior  
25 Director and Associate General Counsel at Adobe.

1           For over four decades, Adobe's mission has  
2           been to empower our creative community with the tools  
3           that they need to express their imagination and earn  
4           their livelihoods in areas like photography, art,  
5           music, filmmaking, and design. AI and generative AI  
6           specifically have profound impact in these areas, so  
7           we really wanted to make sure that we, as we harness  
8           the power of this new technology, we're doing so in a  
9           way that empowers creators.

10           Last month, Adobe launched its generative AI  
11           technology, Adobe Firefly. Firefly's initial text-to-  
12           image model was designed to be commercially safe; that  
13           is, it was trained on images licensed from Adobe  
14           stock, openly licensed content, and content in the  
15           public domain. We want our tools to be good for  
16           enterprises and the creative community.

17           When it comes to copyright, we know that the  
18           issue of training is one where the creative community  
19           has concerns. For this reason, through a technology  
20           Adobe developed called Content Credentials, we're  
21           enabling artists to attach a do-not-train tag that  
22           will travel with their content wherever it goes. With  
23           industry adoption, it is our hope that this tag would  
24           prevent the training on content that has the do-not-  
25           train tag. We are working with generative AI

1 technology companies to respect these tags.

2 From an output standpoint, for much of our  
3 professional creative community, generative AI serves  
4 as the front door to the creative process. They're  
5 changing the image. They're adding colors, editing,  
6 adding elements. They're adding their own human  
7 expression to the work. So we need a way, a  
8 transparent way, to track this expression.

9 Here, Content Credentials can function much  
10 like an ingredients label. They'll show you where the  
11 image came from and what edits have been made to it.  
12 So, for generative AI, it gives the creator a way to  
13 show that they started with an AI generated image but,  
14 most importantly, to demonstrate the human creativity  
15 they brought to the work.

16 Finally, Content Credentials will bring a  
17 level of transparency that is much needed with the age  
18 of generative technology. Adobe is automatically  
19 attaching a Content Credential to images created with  
20 Firefly to indicate the image was generated by AI.  
21 We're working to drive transparency standards so that  
22 together we can deploy this technology responsibly in  
23 a way that respects creators and our communities at  
24 large.

25 I thank you for having me today, and I look

1 forward to engaging further on these issues.

2 MS. LANZA: Thank you, Scott.

3 Next up is Ben with Stability AI.

4 MR. BROOKS: Well, thank you to the  
5 Copyright Office for hosting us here today.

6 I lead public policy for Stability AI, a  
7 leading developer of open source AI models designed to  
8 unlock humanity's potential. These include, as many  
9 of you know, the latest versions of Stable Diffusion,  
10 which is a model that takes a text prompt from users  
11 and translates that prompt into a new image. Users  
12 can interact with these models either through a hosted  
13 service, like an app or an API, or they can freely  
14 use, integrate, and adapt the open source code subject  
15 to our ethical use license. Stability has also  
16 launched a number of other image models as well as a  
17 suite of language models.

18 Stable Diffusion is a type of latent  
19 diffusion model. So these models use content to learn  
20 the relationship between words and visual features,  
21 not unlike a student at a public gallery. Based on  
22 this acquired understanding and with creative  
23 direction from the user, these models can help to  
24 generate new works. In this way, AI should be  
25 understood as a tool to help artists express

1 themselves. It's not a substitute for the artist.

2           Instead, AI can help to simplify the  
3 creative process. It can help existing creators boost  
4 their productivity as part of a wider workflow. And  
5 it can also help to lower barriers to entry for people  
6 who simply don't have the resources or training to  
7 realize their creative potential today, including  
8 those with life-altering injuries or disabilities.

9           As with other assistive technologies, from  
10 paintbrushes to cameras to editing software, the user  
11 ultimately determines the content and use of any  
12 generated images.

13           I do want to acknowledge today the depth of  
14 feeling on these issues among creators and developers.  
15 AI is changing rapidly, and we understand that it can  
16 feel highly disruptive. We welcome a dialogue with  
17 all members of the creative community about the fair  
18 deployment of these technologies. And through the  
19 session today, I can share some details about how  
20 we're working towards that goal in practice, whether  
21 that be through new training techniques, authenticity  
22 standards, and best practices for things like opt-  
23 outs. So thank you very much.

24           MS. LANZA: Thank you, Ben.

25           Next up is Alicia.

1 MS. CALZADA: Hi. I'm Alicia Calzada. I'm  
2 the Deputy General Counsel for the National Press  
3 Photographers Association.

4 First, I really appreciate the invitation  
5 for NPPA to be a part of this event. This is very  
6 important to us and our members.

7 Before I was an attorney, I was a  
8 photojournalist for 20 years. And through NPPA, we  
9 serve the -- we are the nation's premier organization  
10 for visual journalists. We serve still photographers  
11 and videographers, and, frankly, most of our members  
12 do both.

13 Some of the things we do include working to  
14 support the First Amendment rights of visual  
15 journalists. We also advocate for their copyrights  
16 and for greater copyright protection and for a strong  
17 copyright system. We also have a code of ethics that  
18 is the industry standard among visual journalists, and  
19 that is, of course, a very important piece of what I  
20 hope we'll get into today.

21 NPPA has a few concerns related to AI. The  
22 first, of course, is copyright protection for  
23 photographers against unauthorized use of their images  
24 and unauthorized copying. So we do support  
25 legislation that accomplishes that.

1           For us, it's not just about money. As I  
2 mentioned, we care about ethics. And for visual  
3 journalists, their reputation is one of their most  
4 valuable assets. And so the right to control the use  
5 of their image and protect against misuse is very  
6 important. When their photos are used in an unethical  
7 manner, it impacts them. It impacts the entire  
8 industry, frankly.

9           And we also think that news consumers have a  
10 right to know the source and the authenticity of the  
11 content that they're consuming, the news that they're  
12 reading and watching.

13           Finally, a concern that we are monitoring is  
14 that journalists, like many photographers, do use  
15 technology in some ways that are, in fact, quite  
16 ethical, and so we're watching what the Copyright  
17 Office is doing as they frame the question of what is  
18 copyrightable. We understand that something entirely  
19 AI-created might not be copyrightable, but we want to  
20 make sure that in making policy we don't risk the  
21 copyrightability of photographs that for generations,  
22 frankly, have used special timers and triggers, such  
23 as the kind of things a sports photographer or a  
24 nature photographer might use.

25           So those are some of the things that are



1 sort of on our radar related to AI, and we're  
2 definitely looking forward to this session and to  
3 continued conversation on these issues.

4 MS. LANZA: Thank you, Alicia.

5 Next up is Sarah.

6 MS. ODENKIRK: Hi. Thank you very much for  
7 including me in today's conversation. My name is  
8 Sarah Conley Odenkirk, and I'm a partner with Cowan,  
9 DeBaets, Abrahams & Sheppard. I co-head the Los  
10 Angeles office and also the Art Law Practice Group.

11 My deep involvement in the implications of  
12 emerging technology and visual arts goes back almost  
13 30 years with my dedication to representing artists  
14 and also working to establish public policy around  
15 visual art in public spaces. The combination of these  
16 elements in my practice has positioned me well to do a  
17 lot of advising around the impact and implications of  
18 blockchain technology and now AI, both from the  
19 standpoint of the impact on creators as well as on  
20 public policy.

21 It's crucial to maintain the focus on the  
22 impact the technologies have on artists and artists'  
23 abilities to continue to create and innovate. This  
24 becomes complex when we cannot easily determine when,  
25 where, and how potential copies and other copyright

1       infringements may be occurring.

2                   In order to explore possible futures, we  
3       need to start by breaking down the processes used in  
4       AI into their component parts as the analysis will  
5       likely suggest different solutions at different  
6       points. Figuring out fair, enforceable, and  
7       economically sound solutions to questions raised at  
8       the point of training AIs will differ from determining  
9       how to treat the output artists coax from these  
10      platforms. We also must distinguish the generic  
11      generative process employed by commercial AI platforms  
12      from the more bespoke process of generative art as a  
13      medium employed by artists.

14                  So I urge the Copyright Office to consider  
15      the impacts on artists in light of the new structures  
16      that are made possible with these technologies and to  
17      adhere or even strengthen principles underpinning the  
18      copyright law that support balancing the interests of  
19      artists' innovation and creativity with the market  
20      forces. It may be time to consider more than just  
21      guidance, more than just analyzing what is considered  
22      copying or protectable.

23                  I would love to see the Copyright Office  
24      take the lead in championing technical solutions that  
25      meaningfully address the way content is scraped,

1 sourced, and used, and explore realistic ways to track  
2 IP rights and compensate creators.

3 MS. LANZA: Thank you, Sarah.

4 Next up is Karla.

5 MS. ORTIZ: So back in April of last year, I  
6 saw a website called Weird and Wonderful AI Art. It  
7 had the names of many of my peers alongside work that  
8 looked like theirs but wasn't. I thought it's just a  
9 new experiment. Well, I asked my peers whose name I  
10 saw on that website, and no one knew what this was and  
11 no one had been asked to be a part of it.

12 So we tried to reach out to the folks who  
13 were running the website, folks who are also selling  
14 merchandise that looked like the studies they were  
15 doing. We asked them to please take down the work of  
16 the artists who didn't want to be there. Instead, we  
17 got ghosted. I thought this was small enough to  
18 ignore, but little did I know this would be my first  
19 encounter with generative AI.

20 Fast-forward to September-ish, and larger  
21 generative AI models like Midjourney and Stable  
22 Diffusion are now mainstream. So I research again,  
23 and I am horrified by what I found. Almost the  
24 entirety of my work and the work of almost every  
25 artist I knew was scraped and utilized to train these

1 for-profit models. I was mortified that this was done  
2 without anyone's consent, credit, or compensation,  
3 that once AI models are trained on our work, our work  
4 could not be forgotten, and that generative AI  
5 companies were even encouraging users to use our full  
6 names to generate imagery that can look like our work.

7 For example, Polish artist Greg Rutkowski,  
8 who in December, between Midjourney, Stability AI, and  
9 the very problematic un-Stable Diffusion, Greg's name  
10 had been used as a prompt for image generation about  
11 400,000 times.

12 If there is one thing I want everyone to  
13 remember is that this hyped technology is entirely  
14 fueled by the ill-gotten data it is trained upon. It  
15 is unlike any tool that has come before as it is an  
16 innovation that uniquely consumes and exploits the  
17 innovation of others. No other artistic tool is like  
18 this, and I know. I've used most of them.

19 In my opinion, to reward tech that relies on  
20 the proceeds of theft by granting it copyright would  
21 just add insult to injury.

22 Oh, also, my name is Karla Ortiz. I am an  
23 award-winning artist who works in film, game, TV,  
24 galleries, you name it. I worked on *Magic: The*  
25 *Gathering*, *Guardians of the Galaxy Volume 3*, *Loki*, and

1 most notably known for my design of *Dr. Strange* for  
2 the film adaptation.

3 I am also a plaintiff in one of the first  
4 class-action lawsuits against generative AI companies,  
5 specifically, Midjourney, DeviantArt, and, yes,  
6 Stability AI. Hi.

7 MS. LANZA: Thank you, Karla.

8 Next up is Curt.

9 MR. LEVEY: Hi there. I'm Curt Levey,  
10 President of the Committee for Justice. We're a  
11 nonprofit that focuses on a variety of legal and  
12 policy issues, including intellectual property, AI,  
13 tech policy.

14 There certainly are a number of very  
15 interesting questions about AI and copyright. I'd  
16 like to focus on one of them, which is the  
17 intersection of AI and copyright infringement, which  
18 some of the other panelists have already alluded to.  
19 That issue is at the forefront given recent high-  
20 profile lawsuits claiming that generative AI, such as  
21 DALL-E 2 or Stable Diffusion, are infringing by  
22 training their AI models on a set of copyrighted  
23 images, such as those owned by Getty Images, one of  
24 the plaintiffs in these suits.

25 And I must admit there's some tension in

1       what I think about the issue at the heart of these  
2       lawsuits. I and the Committee for Justice favor  
3       strong protection for creatives because that's the  
4       best way to encourage creativity and innovation.

5                 But, at the same time, I was an AI scientist  
6       long ago in the 1990s before I was an attorney, and I  
7       have a lot of experience in how AI, that is, the  
8       neural networks at the heart of AI, learn from very  
9       large numbers of examples, and at a deep level, it's  
10      analogous to how human creators learn from a lifetime  
11      of examples. And we don't call that infringement when  
12      a human does it, so it's hard for me to conclude that  
13      it's infringement when done by AI.

14                Now some might say, why should we analogize  
15      to humans? And I would say, for one, we should be  
16      intellectually consistent about how we analyze  
17      copyright. And number two, I think it's better to  
18      borrow from precedents we know that assumed human  
19      authorship than to invent the wheel over again for AI.  
20      And, look, neither human nor machine learning depends  
21      on retaining specific examples that they learn from.

22                So the lawsuits that I'm alluding to argue  
23      that infringement springs from temporary copies made  
24      during learning. And I think my number one takeaway  
25      would be, like it or not, a distinction between man

1 and machine based on temporary storage will ultimately  
2 fail maybe not now but in the near future. Not only  
3 are there relatively weak legal arguments in terms of  
4 temporary copies, the precedent on that, more  
5 importantly, temporary storage of training examples is  
6 the easiest way to train an AI model, but it's not  
7 fundamentally required and it's not fundamentally  
8 different from what humans do, and I'll get into that  
9 more later if time permits.

10 But I think the good news is that the  
11 protection for creators of the works that are used as  
12 training examples can and will come from elsewhere,  
13 where the generated output is too similar --

14 MS. LANZA: Thank you, Curt. I'm going to  
15 have to -- sorry, I'm going to have to cut you off  
16 there.

17 MR. LEVEY: Okay. Sure.

18 MS. LANZA: But we'll have time during the  
19 question to continue.

20 MR. LEVEY: Sure.

21 MS. LANZA: Rebecca, would you like to go  
22 ahead, please?

23 MS. BLAKE: Yes, I'm happy to go ahead. And  
24 I'm apologizing in advance for the construction that  
25 has just started up outside my window.

1           My name is Rebecca Blake. I'm the Advocacy  
2           Liaison for the Graphic Artists Guild. The Graphic  
3           Artists Guild is a trade association representing the  
4           interests of visual artists other than photographers,  
5           illustrators, designers of all stripes, production  
6           artists, cartoon and comic book artists, animators and  
7           others.

8           Our mission is to protect the economic  
9           interests of our members, and in that vein, we've long  
10          advocated for greater copyright protections for  
11          individual artists, fair labor and trade practices,  
12          and policy which supports small creative businesses.  
13          We welcome this opportunity to weigh in on AI  
14          generative technologies.

15          Our members include artists who have  
16          embraced generative AI in the creation of their own  
17          original works and artists who, for various reasons,  
18          have not adopted the use of generative AI or, in fact,  
19          see it as a threat to their livelihoods.

20          While we support the ethical, legally  
21          compliant development of AI as a tool for visual  
22          artists, we have serious concerns about the copyright  
23          and ethical questions raised by AI generative  
24          technologies. These include the inclusion of  
25          copyrighted material in the training data sets without



1 permission or notification, which we see as a  
2 copyright infringement not excused by fair use,  
3 protections for artists' works as inputs into AI  
4 generative platforms, the unfair competition in the  
5 marketplace resulting from the massive generation of  
6 images which may ape existing artists' styles or  
7 replicate artists' works, confusion with the  
8 registration of works containing AI-generated  
9 material, and existing barriers to the affordable  
10 registration of works created by visual artists other  
11 than photographers. And I hope we can go more into  
12 this in the subsequent questions.

13 MS. LANZA: Thank you, Rebecca.

14 And last but not least, James, would you  
15 like to conclude the introductions, please?

16 MR. GATTO: Yes. Thank you. Hi. My name  
17 is James Gatto. I'm honored to have the opportunity  
18 to share some views here today on the important  
19 copyright issues with AI. I'm a partner in the D.C.  
20 office of Sheppard Mullin, where I lead our AI  
21 practice. I've been an IP attorney for 35 years. I'm  
22 also a member of the ABA IP Section AI Machine  
23 Learning Task Force, but the views expressed today are  
24 solely my own.

25 I've been doing work with AI for about two

1 decades, but, like others, I'm seeing a significant  
2 increase in that work due to the meteoric rise of  
3 generative AI. Clients have a lot of questions.

4 I applaud the Copyright Office's initiative  
5 to issue preliminary guidance on the examination of  
6 applications involving AI-generated content. I know  
7 there's great debate in the community on these  
8 guidelines, on authorship issues with AI, the level of  
9 human involvement needed, and issues with joint  
10 authorship. I hope these listening sessions will  
11 result in the Copyright Office keeping an open mind on  
12 whether to tweak their guidance and provide further  
13 clarity on some of the procedural aspects of the  
14 guidance.

15 Some of the issues for which clarity would  
16 be helpful are the following:

17 When does the level of detailed input or  
18 prompts by a human provide sufficient basis for the  
19 output to be deemed original intellectual conceptions  
20 of the author and therefore protectable?

21 What is the relevance of predictability in  
22 the authorship analysis? This concept was part of the  
23 basis for the Kashtanova decision but does not appear  
24 in the guidance.

25 What level of detail is needed to comply

1 with the duty of disclosure regarding use of AI?

2 What is the copyrightability of a work where  
3 a human uses AI-generated content as inspiration art  
4 but does not copy it?

5 And what are the criteria for determining if  
6 AI-generated content is more than de minimis such that  
7 it should be explicitly excluded from the application?

8 AI is a powerful tool, and to promote the  
9 constitutional mandate, the Copyright Office should  
10 develop policy that promotes rather than deters its  
11 use. As a result of the guidance in the Kashtanova  
12 decision, at least many companies that rely on  
13 copyright protection for their content, including game  
14 companies, artists, and many others, are concerned  
15 about using generative AI and in some cases restrict  
16 or limit employees' use of it. That's not consistent  
17 with the goal of promoting the use of technology.

18 So we hope through these sessions we get to  
19 a happy medium where artists' rights can be respected  
20 and tools can be used to facilitate the creation of  
21 their expressive works.

22 MS. LANZA: Great. Thank you, James, and  
23 thank you all for those introductions, and welcome  
24 again.

25 So, to begin our discussion, I'll start off

1 with a question. How is the training of artificial  
2 intelligence models affecting your field or industry?  
3 What should the Copyright Office know about the  
4 technology's use of training materials when  
5 considering the copyright issues related to training?

6 And, also, please be specific in your  
7 answers in terms of kind of which part of the visual  
8 arts ecosystem you're talking about.

9 So, great, I already see hands. So, Karla,  
10 you're the first on my screen. Can you please go  
11 ahead.

12 MS. ORTIZ: Yeah, absolutely. So,  
13 basically, the training of artificial intelligence is  
14 already affecting my particular field of  
15 entertainment, specifically concept art, illustrators,  
16 anything that requires a painter. We're already  
17 seeing the effects of these tools, you know, in our  
18 industries.

19 Something to consider is the training of  
20 these tools is very important. When considering these  
21 tools, you can't just focus on the output. You have  
22 to see the entire process as a whole. And as a whole,  
23 these tools, you know, particularly, you know, some of  
24 the tools around here, like Stability AI and  
25 specifically LAION, under the pretext of research,

1 gathered 5.8 billion text and image data from across  
2 the Internet to train various AI/ML models for  
3 commercial purposes. Again, it was trained upon for  
4 research and then switched immediately for commercial  
5 purposes. Technologists like Andy Baio call this, you  
6 know, loophole data laundering.

7 But another thing that's important to note  
8 is that this was done without consent, credit, or  
9 compensation. The work of myself and almost all of my  
10 peers are in those data sets, again, and also our  
11 names are, you know, encouraged to be utilized as  
12 prompts so that users can get something that mimics or  
13 feels similar to our work.

14 I personally am of the belief that the work  
15 generated by these models is impressive only because  
16 it is based upon the works of artists. And, again,  
17 this was done without consent. And we're not even  
18 talking about all the issues when it comes to  
19 propaganda, identity theft, and so on.

20 One of the things that I will say as well  
21 that the copyright should consider, and I won't take  
22 much longer of anybody's time so people can have their  
23 say, as one of the few artists in this panel, you  
24 know, there's various others as well, but I'm a  
25 teacher, and I can tell you that anthropomorphizing

1 these tools to equate it as human-like is a fool's  
2 errand. I've spoken to countless machine learning  
3 experts, such as Dr. Timnit Gebru, such as Professor  
4 Ben Zhao, and they all agree that it's not what's  
5 happening. This is a machine. This is mathematic  
6 algorithms. You cannot equate it to a human.

7           And to further add and to give the  
8 perspective of an artist, an artist doesn't look at a  
9 bunch, like 100,000, images and is able to generate,  
10 like, hundreds of images within seconds. An artist  
11 cannot do that. Yes, I have my influences, but it's  
12 not the only thing that goes into my work. My life,  
13 my experiences, my perspective, my technique, all of  
14 that goes into the work.

15           Furthermore, something that I feel like a  
16 lot of people miss in these discussions is technical  
17 artistry, and one of the hardest things you can do  
18 ever in the arts is be able to successfully mimic  
19 another artist's style or another person's work. It's  
20 the hardest thing. I consider myself masterful. I  
21 can't even do it. In fact, it's so rare that they  
22 even have documentaries on Netflix showcasing the few  
23 artists that can successfully mimic, let's say, a  
24 Leonardo da Vinci.

25           And depending on what that artist does with

1 that successful mimicry, if they sell it or if they do  
2 anything commercial with it, you know, that could  
3 potentially be called forgery. So I don't know why --

4 MS. LANZA: Thanks, Karla. Sorry to  
5 interrupt.

6 MS. ORTIZ: Oh, yeah. No, no, no, it's  
7 totally cool.

8 MS. LANZA: But, yeah, we just have a  
9 couple --

10 MS. ORTIZ: No, no, no. Totally great.  
11 Just wanted to drop that in.

12 MS. LANZA: All right. Thank you, Karla.  
13 James, you're next on my screen. Please go  
14 ahead.

15 MR. GATTO: Great. Thank you. I'll try to  
16 be brief.

17 So, I mean, obviously, one of the core  
18 issues with training AI model on copyright-protected  
19 content is whether it's infringement and/or if fair  
20 use applies, and, largely, that's going to be a fact-  
21 specific question depending on the details. I think  
22 that to the extent there, you know, are any policy  
23 considerations or guidance the Copyright Office, you  
24 know, can provide in that, that might be helpful, but  
25 there is a pretty significant existing body of law on

1 that, kind of the broad legal test.

2 I think some of the areas that should be  
3 considered, consistent with what Scott said from  
4 Adobe, there's a lot of tools out there that can be  
5 used that help mitigate the problem, and whether those  
6 tools should be mandated or, you know, some other role  
7 the Copyright Office can play with respect to them  
8 would be helpful.

9 Should AI tool providers be required to be  
10 more transparent on the content they use to train  
11 their models? I think that's an important issue.

12 Should there be greater use of tools that  
13 prevent AI from using copyrighted works to train AI?  
14 Similar to how robots.txt works to prevent search  
15 engines from indexing certain web content. The  
16 technology is there and some of the concerns can be  
17 abated if these tools become mandated or just widely  
18 used.

19 And the last point I'm going to make is  
20 maybe not directly relevant to visual arts, but just,  
21 you know, there's other content that using it is not a  
22 problem because it's licensed, whether it's open  
23 source software that's being used to train AI code  
24 generators or like images that are under a permissive  
25 license, like Creative Commons, as long as there's no



1 prohibition on commercial use, the use of it may be  
2 permissible, but the question is then are there  
3 licensed compliance obligations that need to be met  
4 and, you know, whether and how those should be dealt  
5 with in these contexts. Those are just a few of the  
6 issues I think would be helpful to consider.

7 MS. LANZA: Thanks, James.

8 Alicia, you're next on my screen. Please go  
9 ahead.

10 MS. CALZADA: Thanks. That's a really  
11 interesting point about things like Creative Commons  
12 that actually do have conditions to, you know, what  
13 seems like on the surface an unlimited license, but,  
14 actually, there are things you have to do in order to  
15 earn that license.

16 Back to the question about how it affects  
17 our industry, the primary concern, as I mentioned  
18 earlier, in our industry really is an ethical one, and  
19 journalists rely on copyright as a means of  
20 controlling how their work is used.

21 And it's one thing to say, isn't it neat  
22 what this computer can do while you're, you know, just  
23 goofing off with friends or doing research or that  
24 kind of thing, but, you know, when these works start  
25 being used to create deepfakes or images that are used

1 to promote civil unrest, there are a lot of ways that  
2 news images can be abused through this kind of a  
3 process in very, very negative ways.

4 And the journalism industry really is  
5 concerned about where that's going to go and how it  
6 impacts the industry as a whole. You know, we already  
7 have editors who have for decades, you know, paid very  
8 close attention, you know, to work that comes in to  
9 ensure the quality of the sourcing and that kind of  
10 thing. But, on some level, there's things out there  
11 in the world that we worry about people seeing and  
12 thinking is journalism when it really isn't.

13 MS. LANZA: Thanks, Alicia.

14 Next, Curt, you're next on my screen.  
15 Please go ahead.

16 MR. LEVEY: Sure. Let me first briefly  
17 finish what I was saying about the good news for  
18 protection for creators, despite the fact that I do  
19 think it's getting harder and harder to distinguish  
20 between what humans do and machines do. But,  
21 regardless of how they're trained, where the generated  
22 output is similar to one of the examples in the  
23 training data or really any preexisting work, it's a  
24 derivative work or an outright copy, and the licensing  
25 requirements for derivative works need to be as

1 strictly enforced as for non-AI works.

2           And then, second, and some of the others  
3 have alluded to this, since the source of the training  
4 data is typically unlicensed data, I should say  
5 publicly available data or web scraping, we need  
6 strict enforcement of the website or database terms of  
7 service. And Mr. Evans mentioned a do-not-train tag.  
8 That's a good example.

9           Also, when you said what should the  
10 Copyright Office be aware of, I wanted to say a little  
11 bit more about temporary storage and why that's not  
12 fundamentally required.

13           Generative AI learns from a very large  
14 number of examples, and so does a human artist or  
15 author. The artist or author is not born with that  
16 ability here. He or she learns from countless  
17 examples of art, photography, music, written works, et  
18 cetera, and, you know, more and more the human views  
19 those examples on a website. The human may purposely  
20 make copies of the examples he used. And even if he  
21 doesn't purposely do it, his computer makes a  
22 temporary copy as he views the image, reads the  
23 written work, et cetera. Yet we all dismiss that  
24 copying as fair use, you know, if we even acknowledge  
25 it at all.

1           So what AI training does is not very  
2 different. For convenience sake, the examples are put  
3 in a database, which a learning algorithm cycles  
4 through, and that is temporary copying. But humans,  
5 like I said, often copy for convenience sake as well.  
6 And once the AI cycles through the examples in  
7 training, the examples can be thrown away.

8           The trained model, consisting of millions or  
9 billions of weights, analogous to the synaptic  
10 connections in the human brain, retains no copies of  
11 the training examples. Human memory, on the other  
12 hand, does remember at least some specific examples.  
13 So, in some sense, there's less of an infringement  
14 danger with AI than humans. But, to be fair, neither  
15 humans nor AI depend on retaining the specific  
16 examples they learn.

17           So, again, the problem with relying on the  
18 temporary copy argument is that it's not really  
19 necessary. You could train the AI model by having it  
20 scroll through the very same images or written works  
21 that the human learns from. In fact, the AI model  
22 could learn from, you know, data being relayed by a  
23 mobile robot that, you know, visits art galleries  
24 throughout the nation. Someday, you know, that may be  
25 how it's done. Think Google maps. Either way, my

1 point is that hanging one's hat on temporary copying  
2 is skating on very thin ice.

3 MS. LANZA: Thank you, Curt.

4 Next up is Rebecca. Please go ahead.

5 MS. BLAKE: Yeah, gosh, there's just so much  
6 to unpack from that previous answer.

7 Very quickly --

8 MS. LANZA: Oh, Rebecca, you muted yourself.  
9 Can you unmute?

10 MS. BLAKE: I'm so sorry.

11 MS. LANZA: That's all right.

12 MS. BLAKE: Very quickly, some of our  
13 members completely eschew using AI image generators.  
14 They're concerned about the ethical concerns with the  
15 way the image data sets were built. They're worried  
16 about copyrightability. And they're worried about  
17 exposing their clients to infringement.

18 Other members of the Graphic Artists Guild,  
19 in fact, use AI image generators. For the most part,  
20 we're hearing that they use it for ideation but not  
21 for the creation of completed works, or they use it to  
22 generate elements of a much larger work, for example,  
23 to create background graphics.

24 We do have one member who, in fact, has a  
25 career in AI generative for an AI image generator as

1 part of that new generation that has achieved a  
2 career. However, we've been trying to gauge job loss,  
3 job creation, job loss, and we're in very, very, very  
4 early days to be able to do that. It's something we  
5 need to start tracking now that these generators have  
6 been out almost a year. However, we do hear a lot of  
7 anecdotal evidence of job loss. It's in particular  
8 sectors. That is hampered by the fact that many of  
9 the artists working in these areas, in fact, sign NDAs  
10 or are reluctant to go on the record discussing  
11 projects that they've lost because they're afraid of  
12 retaliation. They work in a very small industry.

13 Of our members who do use generative AI, one  
14 member stated that he was able to take on larger  
15 projects with a smaller workforce. So that does  
16 indicate that generative AI permits a streamlining and  
17 less hiring of artists. And another member stated  
18 that because she uses AI generative technology, she  
19 was able to cease contracting to a certain number of  
20 designers. So, again, that indicates a benefit to one  
21 member but at the loss of others. So that's speaking  
22 to the job market.

23 But I want to address two other things.  
24 First of all was this idea, this equivalency of the  
25 way machine learning works to the way human learning

1 works. This is a false equivalency for a very, very  
2 major reason. When a human learns to draw, they will  
3 ape, they will copy the styles or the works, existing  
4 works of illustrators they admire. This is very  
5 common in the learning practice.

6 But there are ethical considerations,  
7 copyright considerations, and best professional  
8 practices that professional illustrators follow that  
9 take them away from the wholesale copying of either a  
10 style or, in fact, of an image itself. This does not  
11 occur with machine learning. The machine is not  
12 driven by a creative process, a desire to develop  
13 one's own style, one's own mark, one's own creativity.  
14 It's simply reiterates a style that it has been  
15 learned on. So there is no equivalency in the  
16 outputs.

17 The second thing I just wanted to touch on  
18 very briefly was this idea that there can be tags or  
19 codes or metadata which is embedded in images which,  
20 in fact, permits one to track whether or not an image  
21 can be used for inclusion in a data set, whether it  
22 can be ingested into a platform, et cetera.

23 There's a huge issue with that, which is  
24 that Section 1202 of the Copyright Act permits the  
25 removal of copyright management information, including

1 metadata, if that removal is done knowingly or with  
2 reasonable grounds to know it will induce, et cetera,  
3 et cetera, infringement.

4 We believe that section of the Act needs to  
5 be modified so the removal of CMI, including metadata,  
6 without permission of the copyright holder is  
7 prohibited, regardless of whether or not it's done  
8 knowingly to permit infringement. We see metadata and  
9 CMI as key to being able to protect artists' works in  
10 an AI environment, but that failure in Section 1202  
11 needs to be addressed.

12 MS. LANZA: Thanks, Rebecca.

13 Next up is J. Scott. Would you like to go  
14 ahead?

15 MR. EVANS: Sure. You know, at Adobe, we  
16 believe that if AI is done right, if this is done  
17 right, it benefits both creators and consumers of  
18 content because it does nothing but amplify human  
19 creativity and intelligence. It doesn't replace it.

20 And so what we see as a major issue here is  
21 that creators now have limited resources to attribute  
22 their work, especially when generative AI comes into  
23 play. One of the important things we need to do as a  
24 collaboration with artists and technology is to put  
25 creators at the forefront of this technology.



1           Creators want control over their work that  
2           is used in generative AI training, and we need to give  
3           them the tools in order to make those decisions. We  
4           know many creators that are very excited about this  
5           technology and want their creativity to be used in  
6           training these models. They are very excited about  
7           them. But we do understand that there's a segment of  
8           the community that is not excited and wants the  
9           ability to prevent the use of their art in training,  
10          and they should have an ability to do so.

11          And that's the reason Adobe has developed  
12          the Content Credentials. We worked very hard with  
13          setting up an open-source industry standard with the  
14          Coalition of Content Provenance and Authenticity, the  
15          C2PA. It's an open standard that platforms and  
16          hardware manufacturers can put into their products  
17          that will allow you to put these Content Credentials  
18          that will surface them to users and developers of AI  
19          technology so that those cues can be followed, and  
20          that's something that we think that's very important.

21          We also think there may be technology where  
22          artists could harness this technology by training  
23          models based solely on their own style or brand and  
24          then commercializing that and having that technology  
25          and understanding that there are different ways that

1 this technology can be used is very important.

2 One of the ways the Copyright Office, I  
3 think, can help in this is to encourage industry to  
4 adopt these open standards that will give artists the  
5 ability and tools in order to identify whether they  
6 want to participate or don't want to participate and  
7 encouraging that kind of proactivity among the  
8 companies that are developing this technology to give  
9 artists a tool to control their creative work.

10 MS. LANZA: Thank you.

11 And, Sarah, please go ahead.

12 MS. ODENKIRK: Thank you. I think I'm going  
13 to be reiterating a number of things that have already  
14 been said, but, first, I'd like to say that, you know,  
15 I think that there's a lot of reasons to be concerned  
16 about AI in general. There are big issues, big global  
17 ethical issues that definitely need to be addressed.  
18 Unfortunately, I think we do need to somewhat separate  
19 those questions from these questions that we're  
20 talking about with regard to copyright issues in order  
21 to parse through things. Otherwise, we're going to  
22 very quickly get sidetracked with, you know, scary  
23 potential future possibilities, which I don't think we  
24 should ignore, but we need to separate that out of the  
25 copyright conversation for now.

1           There's clearly a lot of potential in  
2           addressing some of the training issues through  
3           metadata and through some of the tools that Mr. Evans  
4           was speaking about, as well as some other tools that  
5           have been developed and people are looking to in order  
6           to protect the content.

7           And I'd like to underscore what Rebecca said  
8           with regard to Section 1202 and, you know, really  
9           needing to be concerned about the way in which the  
10          metadata can be taken off of content and thereby  
11          allowing it to be misused and really keeping creators  
12          from being able to track that data.

13          So I think that the final point that I want  
14          to make is with regard to paying attention to the  
15          purpose of the use that the images are being scraped  
16          and collected for. And if what we're talking about is  
17          using those images for the purpose of creating a  
18          commercial venture, a commercial product that's to be  
19          used to earn money, that's a very different use than  
20          artists looking at images and using tools in order to  
21          generate art, and while they're obviously connected, I  
22          think we need to look at them very separately in terms  
23          of figuring out what policies and laws and approaches  
24          we can take to protect creators in the front end of  
25          that process.

1 MS. LANZA: Thank you, Sarah.

2 So, before we move on to Question 2, I just  
3 want to make sure everyone had a chance to speak.

4 Ben, would you like to add anything to  
5 Question 1 before we move on?

6 MR. BROOKS: Yeah, thank you, Emily. I  
7 think just on this question of impact, I think these  
8 go to a broader set of issues around style and  
9 authenticity, and I do have remarks on training  
10 specifically for later. But I want to reiterate what  
11 I said at the beginning, which is that we see AI as a  
12 tool to help artists express themselves, but it's not  
13 a substitute for the artist.

14 That said, we obviously support efforts to  
15 improve creator control over their public content, and  
16 we're focusing those efforts in three areas in  
17 particular. So one is around access to content.  
18 Today, already, data sets like LAION-5B respect  
19 protocols like robots.txt that indicate whether a  
20 website consents to automated data aggregation. But  
21 we're also developing new ways to help creators  
22 qualify the use of that public content for AI  
23 training.

24 So one of the things we've done is we've  
25 committed to honoring opt-out requests from creators

1 in the next wave of Stable Diffusion releases. And  
2 going forward, I think this was a point alluded to by  
3 J. Scott, we're also exploring new standards for opt-  
4 outs so that the opt-out metadata will travel with the  
5 content wherever it goes subject to some of the  
6 problems that have been flagged just a little while  
7 ago.

8           The second area we're focusing on is  
9 authenticity of content. So we're working to  
10 implement content authenticity standards, like C2PA,  
11 with the Content Authenticity Initiative so that users  
12 and platforms can better identify AI-assisted content.  
13 By distinguishing AI-assisted content, these standards  
14 can help to ensure that users apply an appropriate  
15 standard of scrutiny in their interactions with that  
16 content. It can help to limit the spread of  
17 disinformation through social media platforms. And,  
18 ultimately, it can also help to protect human artists  
19 from unfair mimicry or passing off.

20           And the third and final point I just want to  
21 make is the work that we're doing to improve the  
22 quality of data sets. So, for example, by improving  
23 the diversity and reducing the duplication in training  
24 data, we can help to mitigate the risk of things like  
25 overfitting, which is where the system erroneously

1 overrepresents certain elements of a particular image  
2 from the data set. So, for example, if you've only  
3 ever seen sunsets, you might think that the sky is  
4 always orange.

5 In addition, by improving diversity in our  
6 data sets, we can be more representative of diverse  
7 cultures, language, demographics, and values, all of  
8 which can help to mitigate the risk of bias in those  
9 outputs.

10 So I think the final point on this question  
11 I'll add is, you know, we believe the community will  
12 continue to value human-generated content, right? We  
13 carry a complex digital camera in our pockets  
14 everywhere we go, yet we continue to value painting.  
15 Likewise, Photoshop didn't destroy photography. We  
16 have machines that can run faster than athletes, but  
17 we continue to place a premium on sport. And the same  
18 will be true of visual arts in the post-AI creative  
19 economy, particularly when we have some of these  
20 content authenticity standards in place.

21 MS. LANZA: Thank you, Ben.

22 I'll turn it over to my co-moderator, Nick,  
23 for the next question. Thank you.

24 MR. BARTELT: Thanks, Emily, and thanks,  
25 everyone.

1           I think the focus of the first question that  
2           Emily had asked was a little bit more on the input and  
3           the training. So I think we'll shift the discussion a  
4           bit to ask, what should the Copyright Office be aware  
5           of regarding how these AI systems, and some of you  
6           have already touched on this, how these AI systems  
7           generate works of visual art?

8           And then, as sort of a subquestion there,  
9           I'll ask, because I know we have limited time, is  
10          that, you know, are there any copyright considerations  
11          that vary based on the type of visual works that are  
12          at issue there?

13          So I see James's hand first.

14          And I know, Karla, we had lost you a minute  
15          ago, but I see you're on there too, so we'll go  
16          through.

17          Go ahead, James.

18          MR. GATTO: Great. Yeah, so, obviously, the  
19          operation of the AI tools vary, and each case is fact-  
20          specific. We recognize it's a challenge for the  
21          Copyright Office to give guidance for all scenarios,  
22          but there are a number of fact patterns that are  
23          common. And I think what would be helpful, one thing  
24          that would be helpful, is kind of like the Patent  
25          Office did with patent eligibility guidelines, if the

1 Copyright Office could provide examples of situations  
2 that are used in generative AI that they would deem to  
3 be copyright-protectable, that would be helpful.

4 The other thing is, just to take one use case, so  
5 I do a lot of work with NFTs as well, and there's a  
6 lot of concern around the use of generative AI for  
7 some of these NFT projects. If I create NFTs that  
8 represent images and, for example, I specify two  
9 images of dogs, each having a different collar that I  
10 designed and different colors, and I use AI just to  
11 generate the permutations of those artistic elements  
12 that I created under my control, saying, produce those  
13 permutations, AI should just be deemed a tool, even  
14 though it's output from a generative AI.

15 The question is, as you scale that up and  
16 maybe some of the parameters are a little bit looser,  
17 where does the line get crossed between it being my  
18 creative expression and it being too much input from  
19 generative AI? That's one practical use case that  
20 we've seen in a number of these NFT projects.

21 So I think that there's many other -- I'll  
22 be brief so others can talk -- but there's many other,  
23 I'd say, common use cases that we're seeing, and I  
24 think that any input or guidance or examples that the  
25 Copyright Office could provide would be very helpful



1 to, you know, assist those in trying to figure out  
2 where the line is and recognizing that, you know,  
3 there are fact-specific differences. Thank you.

4 MR. BARTELT: Okay. Thanks, James.

5 Actually, because, you know, Karla had her  
6 hand up before we had switched the question, we'll go  
7 Karla and then Ben and then Curt.

8 So go ahead, Karla.

9 MS. ORTIZ: Wholeheartedly appreciate it.

10 So something that I think the Copyright  
11 Office should be aware of regarding how AI systems  
12 generate work of visual art, there's been some talk at  
13 the idea of, like, whether these models copy,  
14 remember, memorize, whatever the word, overfit,  
15 whatever the word really is.

16 Something I'd like the Office to know is  
17 that studies are being done concerning these issues.  
18 For example, there's research from the University of  
19 Maryland and the University of New York. They did a  
20 study that found diffusion models generated high  
21 fidelity reproductions, which is basically plagiarism,  
22 at an estimated 1.88 percent, and it is estimated by  
23 these researchers to be higher.

24 Cursory numbers, but let's take a look at  
25 like Lensa AI, which uses Stable Diffusion, has about,

1 you know, this was around December, has about 25  
2 million downloads, and gives users about 50 trials  
3 each. At 1.88 percent, that's potentially 23,500,000  
4 generated images that could be similar to training  
5 data. And we see this consistently with, like, for  
6 example, Steve McCurry's famous Afghan girl can be  
7 perfectly plagiarized by these tools, as it happened  
8 in Midjourney.

9 Another thing that I'd like, you know, folks  
10 to consider as well is, like, the music, the, you  
11 know, Stable Diffusion -- no offense, Ben -- but  
12 Stable Diffusion already has made the case for us. I  
13 mean AI companies have already made the case for us.

14 For example, Dance Diffusion was a music  
15 program developed by Harmonai, which has links to  
16 Stable Diffusion, and as they trained their model,  
17 they stayed clear from copyrighted data and only did  
18 public domain. And one of the things that they quoted  
19 on is, because diffusion models are prone to  
20 memorization and overfitting, releasing a model  
21 trained on copyrighted data could potentially result  
22 in legal issues. Why was this done for the music  
23 industry but not the visual industries?

24 And this also goes to the point to why opt-  
25 out is inefficient, regardless of what it should --

1 the standard should be opt-in, because opt-out places  
2 an undue burden on people who may not know the  
3 language, who may not be online, who may not even,  
4 like, know what's going on. Companies cannot just  
5 arbitrarily grab our copyrighted works, our data, and  
6 just say, this is ours, and then later on we have to  
7 remove ourselves, which is why opt-out is important.

8 The other thing that's really important,  
9 again, is transparency. And I know that Adobe, you  
10 know, is mentioning this, but, for example, we need to  
11 really know what, for example, open license works  
12 mean. We really need to know and have an open data  
13 set to see exactly what it means so that licensors,  
14 you know, can actually, like, fulfill their licenses.  
15 And --

16 MR. BARTELT: All right. Thanks. Thanks,  
17 Karla. So I want to make --

18 MS. ORTIZ: Oh, I forgot the guidance on  
19 you, but you guys go on ahead. If we have time later,  
20 let's do it. I'm sorry.

21 MR. BARTELT: Okay. Yeah. I just want to  
22 make sure we get through everybody in our remaining 10  
23 or so minutes.

24 MS. ORTIZ: Yeah.

25 MR. BARTELT: So I'll go back to you now,

1 Ben. I think you mentioned, what should the Office be  
2 aware of of how these AI systems generate works?

3 MR. BROOKS: Yeah, look, I think it's  
4 important that we properly characterize the training  
5 process, right? These models are not, as is sometimes  
6 being described, you know, a collage machine or a  
7 search index for images. These models review pairs of  
8 text, captions, and images to learn the relationships,  
9 again, between words and visual features, right? So  
10 that could be fur on a dog or ripples on water or  
11 moods like bleak or styles like cyberpunk. And with  
12 that acquired understanding and with creative  
13 direction from the user, those models can then help  
14 the user to generate new works. So, in this sense,  
15 training is, we believe, an acceptable and  
16 transformative use of that content.

17 But there are some good instinctive examples  
18 as well. Stable Diffusion notoriously struggled to  
19 generate hands, right? So it produced three-finger  
20 hands or 12-finger hands because it doesn't know that  
21 a hand typically has five fingers. And it isn't  
22 searching a database of the many images with hands,  
23 right? Instead, it has learned that a hand is a kind  
24 of flesh-colored artifact typically accompanied by a  
25 number of sausage-like appendages, right?

1           And that all has real implications for how  
2 we should think about AI training and generation. In  
3 other words, these models are using knowledge learned  
4 from reviewing those text-image pairs to help the user  
5 generate a new work. They're not using the original  
6 images themselves. And those images are nowhere in  
7 the AI model.

8           MR. BARTELT: Great. Thanks, Ben.

9           And, Curt, we'll go to you next.

10           And just so everyone knows, we have about  
11 two minutes for the remaining five people with their  
12 hands up before this panel ends. So, if you have any  
13 concluding remarks, you know, kind of work them into  
14 whatever you have to say here. Thank you.

15           MR. LEVEY: Well, let me answer the  
16 question, but also, in a sense, these are concluding  
17 remarks.

18           A couple of the panelists feel strongly that  
19 machine learning is not like what humans do, so let me  
20 say more about why I believe it is very similar.

21           The human brain consists of neurons connected by  
22 synapses of various strength. So, when a human sees  
23 an example, those synaptic strengths are slightly  
24 modified. Modification takes place slowly. But, you  
25 know, given a lot of examples, there's a lot of

1 modification and learning. That is how we learn.

2           Neural networks consist of artificial neural  
3 networks connected by artificial synapses. When the  
4 AI is shown an example, the synaptic strengths or  
5 weights are slightly modified, and, again, over time,  
6 the modifications add up, and we call that learning.  
7 And I realize this similarity is difficult to see  
8 because, for one thing, humans are very invested in  
9 seeing themselves as being very different than  
10 machines, you know, myself included.

11           So my advice to the Copyright Office is to  
12 look past that difficulty and use the similarity to  
13 your advantage to guide your policy development rather  
14 than reinventing the wheel.

15           And I would also suggest that your position  
16 that only product of human creativity can be  
17 copyrighted is something that, you know, you should  
18 think about. I don't take a position either way,  
19 whether copyright should be granted to AI-generated  
20 works. But the Copyright Office should keep in mind  
21 that it likely will have to recognize AI authorship as  
22 AI becomes more sophisticated and the philosophical  
23 distinction between human and machine creativity  
24 becomes harder to sustain.

25           You know, already generative AI can pass a

1 Turing test of sorts in that it's hard to tell the  
2 difference between human creation and machine  
3 creation, and that'll be all the more so once  
4 artificial general intelligence becomes a reality.

5 And I'll stop there.

6 MR. BARTELT: Okay. Thank you, Curt.

7 Sarah?

8 MS. ODENKIRK: Thank you. And apologies for  
9 noise. I'm in the corner of a conference room in the  
10 midst of a big conference trying to find a quiet space  
11 here. So just a couple of things.

12 I think that, you know, even if we assume  
13 that an AI platform has preemptively licensed all of  
14 the content that it's using to train the AI and that  
15 everything underlying is fine and licensed, we really  
16 need to look at the way in which the artist is using  
17 that content and how they're interacting with the AI  
18 platform in order to come up with their eventual  
19 artwork. And that's something that is going to have  
20 to be explored in a little bit more detail rather than  
21 just having really broad blanket rules about what can  
22 come out of that AI interaction and collaboration  
23 where artists are using it as a tool.

24 To go back to something that James brought  
25 up with regard to generative artists, I think that

1 point really warrants a little bit more exploration as  
2 well because we do have a whole group of artists and  
3 they've, of course, received quite a lot more  
4 attention lately, especially with the NFT marketplaces  
5 opening up. And that has to do with artists who are  
6 generating their own algorithms using their own data  
7 sets to put the artwork in and generating work. It  
8 may be that it's quite a bit generated by the AI  
9 platform and not by the artists themselves except that  
10 the underlying content is, in fact, created by the  
11 artist, including the algorithm. So these are really  
12 different ways of looking at tools that kind of  
13 emanate from the same place but end up being used in  
14 different ways and creating different results.

15 One just last point is that I think that  
16 oftentimes we're going to have to still look at and  
17 rely on traditional means for figuring out whether an  
18 output is substantially similar to either somebody  
19 else's work or that, you know, there are copyright  
20 infringements in that output. This is where we're  
21 going to have to consider things like the fact that  
22 many artists don't even register their copyrights.  
23 And so whether they have access to the court system  
24 because of that, it's really going to impair their  
25 ability to seek some sort of resolution of those



1 issues.

2           And this is where maybe we can take a look  
3 at the Copyright Office's Small Claims Board as a  
4 place to perhaps think about resolving some of these  
5 issues because we are going to have a tremendous  
6 number of artist-related issues that maybe don't rise  
7 to the level of needing to go to federal court but  
8 definitely are going to need to be resolved in a  
9 meaningful way for those artists.

10           MR. BARTELT: Thank you, Sarah.

11           J. Scott?

12           MR. EVANS: Thank you. I mean, at Adobe, we  
13 look at the laws that exist today. We look at the  
14 guidance that you provided. And after many hours of  
15 thinking through this, we view text prompts as  
16 conceptually an idea, an idea that is put into a  
17 machine that will give you many different expressions  
18 of that idea. So the expression seems to be being  
19 completely generated by a computer, and under current  
20 law, that is not copyrightable.

21           But, as we said in our opening statement,  
22 most of the creatives that we have talked to don't use  
23 generative AI as the end product. What they do is  
24 they use it as inspiration or a jumping-off point, and  
25 then they take that product and they do other things

1 to it, just like they would if they took a piece of  
2 art that was in the public domain and they created a  
3 new work that had elements of creativity and human  
4 creativity to that. So that's what we think is  
5 important.

6 I think what would be helpful is some  
7 additional guidance that you heard from our first  
8 speaker from the Copyright Office that gave examples  
9 of what you're looking for. And I hate to say this,  
10 but it probably would be more helpful if we had a new  
11 form that was specifically designed for AI-created  
12 works that drilled down on these particular issues so  
13 that some of the concerns that we hear from filmmakers  
14 and from photographers who use some sort of AI in the  
15 generation of the work, but not to the extent or in  
16 the way that we're talking about AI that generates the  
17 work itself, is used.

18 And so I just think that, you know, we need  
19 specific guidance. We need malleability from the  
20 Copyright Office. As the technology changes, as you  
21 just heard, we may need to change that guidance. We  
22 need the ability to do that and to follow these issues  
23 very closely.

24 But, at Adobe, you know, we think that we're  
25 headed in the right direction based on the current

1 laws that exist today, the guidance that you all have  
2 provided.

3 MR. BARTELT: Great. That's good to hear.  
4 Thank you, Scott.

5 And, Alicia, you are next.

6 MS. CALZADA: Thanks, and I'll be brief.

7 I just, I hear efforts to minimize the value  
8 of the work that are input into these systems, and I  
9 just want to make sure that the Copyright Office  
10 always keeps in perspective that without the input,  
11 which involves copying works in their entirety,  
12 there's no output. And so we can't minimize the value  
13 of the works that are used to generate AI. That would  
14 be inappropriate. Thanks.

15 MR. BARTELT: All right. Thank you, Alicia.

16 And just to wrap up, I think we have about  
17 two minutes left, maybe a minute each. We'll go to  
18 both Karla and Ben, and then we'll wrap up this  
19 session. So go ahead, Karla.

20 MS. ORTIZ: Thank you. So, again, I just  
21 want to reiterate that current practicing leading  
22 experts in the AI/ML machine-learning industry warn of  
23 equating machines to humans. We should heed their  
24 warning.

25 Furthermore, no matter how extensive the

1 prompt will be, it still relies on the training. And  
2 machine-learning companies want to automate prompts,  
3 as said various times by Stability AI's CO themselves.  
4 So I don't know how much of a standard that will be if  
5 it will eventually be automated.

6 And, lastly, honestly, for me, I'm concerned  
7 that AI-generated material will gain copyright, that  
8 the proceeds of theft will be rewarded. And,  
9 potentially, as someone who is likely to be affected  
10 in a whole industry that I see from the inside being  
11 affected by these tools, I'm very concerned. Thank  
12 you.

13 MR. BARTELT: Thank you, Karla.

14 And, Ben, with our remaining minute or so  
15 left, go ahead, please, and give us your closing  
16 thoughts.

17 MR. BROOKS: Yeah, just a last point on  
18 the guidance.

19 MR. BARTELT: Sure.

20 MR. BROOKS: Look, we acknowledge and accept  
21 that there is a threshold of authorship below which a  
22 work with negligible human input may not qualify for  
23 registration. I think our concern is that in the  
24 guidance and in the caption of the decision, the  
25 Office does not necessarily account for all of the

1 ways in which human input might rise above that  
2 threshold, and some of them have been discussed  
3 previously on this session.

4 A creator, to get a desirable input, may  
5 fine-tune that model using their own existing content  
6 to evoke their own existing style. They might provide  
7 detailed prompts that narrowly define the range of  
8 possible outcomes. And they also may, as J. Scott  
9 mentioned, use the image as a jumping-off point. And  
10 they may refine that initial image many times using  
11 traditional editing software or further prompting.  
12 Any one of these factors may qualify that work for  
13 registration. And so a user who has clear expressive  
14 intent and takes steps to steer these tools in a  
15 particular direction should be able to register their  
16 work.

17 I will just finally add that, again, we want  
18 to make it clear that training is not about stitching  
19 images together, it's about learning hidden  
20 relationships. But we do understand that there are  
21 other ways to improve creator control of their  
22 content, and, hopefully, some of the things we flagged  
23 today can be considered by the Office in your future  
24 deliberations.

25 MR. BARTELT: All right. Well, thank you,

1 Ben. And thank you to all of our participants in the  
2 first panel. I think we learned a lot, and we  
3 appreciate you all participating.

4 So, with that, I am going to hand the mic  
5 back over to Mark Gray.

6 MR. GRAY: Thank you, everyone. Thank you  
7 to all the panelists. This is the end of the first  
8 session. We are now going to take a 10-minute break.

9 (Whereupon, a brief recess was taken.)

10 MR. GRAY: Hello everyone, welcome back.  
11 For those of you who've only recently joined us, we're  
12 going to do a quick reminder on Zoom housekeeping.

13 For panelists who are speaking but not at  
14 this specific session, please keep your cameras turned  
15 off, please keep your microphones on mute.

16 We will be recording the session today.  
17 That recording will be made available on our website  
18 in hopefully three weeks. And we have also activated  
19 Zoom's transcription function today for those of you  
20 who would like to follow along with captions.

21 We're going to start our panel with brief  
22 introductions for each speaker, and, optionally,  
23 everyone is allowed to do a short statement if they  
24 desire. Please limit any statements to two minutes.  
25 We will have to watch the clock and keep things moving

1 if you go over two minutes.

2 And after those introductions, we're going  
3 to have a moderated listening session. The panelists  
4 have received the questions in advance, but keep in  
5 mind those are just intended as prompts and guidance  
6 for discussion. We, of course, welcome you to share  
7 any relevant perspectives or experience that you have  
8 that you think is important for the Office to hear.

9 For those of you who are on the current  
10 panel, please use Zoom's Raise Hand function. We will  
11 try to call you in the order that you raise your hand.  
12 That will help us keep the conversation nice and  
13 orderly.

14 And then, as a final reminder for those in  
15 the audience, we are, unfortunately, not accepting  
16 audience questions today, so, please, no need to  
17 submit questions or raise your hand. We will have  
18 opportunities for public participation in the future,  
19 including through a written comment period. But, for  
20 today, we are trying to focus on the panelists and the  
21 information they have to provide. So thank you very  
22 much for your understanding.

23 With that, I'm going to introduce our  
24 moderators for the second panel, David Welkowitz and  
25 Jordana Rubel. David is an Attorney-Advisor in the

1 Office of the General Counsel with me. And Jordana  
2 Rubel is also my colleague, who is an Assistant  
3 General Counsel.

4 David, the mic is yours.

5 MR. WELKOWITZ: Thank you, Mark. We'll  
6 start with the brief introductions.

7 Jasper AI, Alex, would you like to start,  
8 please?

9 MR. RINDELS: Yeah, thank you. My name is  
10 Alex Rindels. I'm Corporate Counsel at Jasper. I  
11 want to thank the Copyright Office for holding these  
12 really useful listening sessions. Jasper is a  
13 generative AI tech startup that develops and deploys  
14 software tools to assist businesses large and small  
15 and individuals in their content creative processes.

16 As it relates to the subject matter of this  
17 listening session, Jasper provides a software tool  
18 called Jasper Art that receives text inputs from our  
19 human users and filters them through generative AI  
20 foundation models from various providers and ourselves  
21 and spits out output in the form of art, whether that  
22 looks like photography or any other computer-generated  
23 art.

24 Our users are typically within the  
25 professional marketing and professional creative



1 spaces, and they use these outputted images in  
2 furtherance of things like marketing campaigns. And,  
3 oftentimes, it's not just the end images that they  
4 use, but they use those images for ideation to further  
5 their campaign.

6 And because many of our users and customers  
7 are creative professionals themselves, we receive two  
8 things, a lot of positive feedback that these tools  
9 have really freed up their creative processes so they  
10 can think more about the things they want to create  
11 and direct their efforts to the human side of the  
12 creative process rather than the mechanical side of  
13 it, and they're really grateful that we're able to aid  
14 them in that process.

15 But then, two, we also have an ear to the  
16 ground on the concerns that they have in terms of, you  
17 know, their work or others' works in the creative  
18 space being misappropriated and used for wrong reasons  
19 or not having the right rights to use those, and we  
20 really take those seriously, and we want to work with  
21 our customers and everyone in the community and in the  
22 Copyright Office to make sure those are handled in a  
23 responsible way. Thank you.

24 MR. WELKOWITZ: Thank you.

25 Getty Images, Paul, would you like to begin?

1           MR. REINITZ: Hi. Yeah. Thank you for the  
2 opportunity to speak at today's session. My name is  
3 Paul Reinitz, and I am Legal Advocacy Counsel at Getty  
4 Images. Getty Images is an established and respected  
5 member of the global media. Our growing content  
6 library includes over 520 million visual assets  
7 representing the work of more than 516,000 creative  
8 contributors.

9           Getty Images believes AI and generative  
10 models hold the potential to provide significant  
11 benefits. However, we see significant risks if the  
12 current development and deployment of these  
13 technologies are left unchecked.

14           First, bad actors can use generative AI  
15 tools to easily create deepfake content and distribute  
16 it widely via Internet platforms without check. This  
17 undermines public fluency in facts, trust in  
18 institutions, and democracy in general.

19           Second, generative models are trained on the  
20 existing work of creators. It is important that  
21 longstanding IP rights that protect these creators and  
22 sustain ongoing creation are not ignored.  
23 Transparency and respect for third-party rights are  
24 key components of mitigating these risks. Similar to  
25 the position expressed by your Office in its recent

1 registration guidance, we believe that the use of AI  
2 tools in the creative process should be disclosed.

3 Further, we believe that, one, AI generative  
4 content should be identified as synthetic, and two, to  
5 give rights holders visibility into the use of their  
6 work, records must be kept detailing how generative  
7 models were trained. The latest draft of the EU AI  
8 Act codifies transparency regulations of this nature,  
9 and we encourage the USCO to collaborate with the EU  
10 with the goal of harmonizing standards. We believe  
11 that supporting similar policy in the U.S. is crucial  
12 to the Office's mission of promoting creativity and  
13 free expression for the benefit of all.

14 Thank you for your leadership in this area.  
15 I know that the creative and media industries more  
16 broadly welcome the opportunity to provide further  
17 input.

18 MR. WELKOWITZ: Thank you.

19 From Professional Photographers of America,  
20 Luc.

21 MR. BOULET: Thank you. Greetings. My name  
22 is Luc Boulet, and I serve as the Government Affairs  
23 Manager for Professional Photographers of America.  
24 We're the world's largest and oldest photographic  
25 association with a membership of 35,000 creative

1 professionals. Our members include small businesses  
2 dotting every city and town across the nation,  
3 typically operating one- to two-person shops and  
4 earning an average net income of \$38,000 per year.

5 PPA acknowledges the profound impact of  
6 artificial intelligence on our world, and we firmly  
7 believe in the responsible development of this  
8 revolutionary technology that will uphold the  
9 principles and objectives of the copyright system.

10 We also recognize the potential harm that AI  
11 may cause to the intellectual property sector, our  
12 leading net export valued at an astonishing \$1.6  
13 trillion. Our greatest concern with AI is the  
14 unauthorized scraping of a photographer's life work.  
15 This work is made public and available online by a  
16 photographer to promote their business and is then  
17 used to create new works by AI engines.

18 AI tools are being designed to directly  
19 emulate an artist's style at the click of a drop-down  
20 menu. While style is generally not a copyrightable  
21 attribute, the act of copying a photographer's image  
22 is a violation of copyright. Transparency is possible  
23 and achievable. Best practices from corporations,  
24 research institutions, governments, and other  
25 organizations that encourage transparency around AI

1 training already exist.

2 With this discussion, we hold two main  
3 objectives. They are, number one, it is essential the  
4 rights of copyright holders are respected as AI  
5 develops and AI laws and policies are formulated. And  
6 number two, new determinations on AI policy should be  
7 based on the foundation of preserving the rights of  
8 copyright holders and new rules and policies should be  
9 carefully considered to achieve this goal. Thank you.

10 MR. WELKOWITZ: Thank you.

11 Next, from Morrison & Foerster, Heather.

12 MS. WHITNEY: Thank you for inviting me to  
13 participate. My name is Heather Whitney, and I am an  
14 attorney at Morrison & Foerster and a member of the  
15 firm's AI Steering Committee. Previously, I was a  
16 Bigelow Fellow in Lecture and Law at the University of  
17 Chicago Law School and a fellow and faculty affiliate  
18 at the Berkman Klein Center for Internet Society.

19 Today, I'm speaking on behalf of my client,  
20 Kristina Kashtanova, author of *Zarya of the Dawn* and  
21 *Rose Enigma*. The Office recently refused to register  
22 images Kashtanova created using Midjourney,  
23 essentially on the grounds that Kashtanova could not  
24 be the author because they could not predict ahead of  
25 time what the output would be. In March, we submitted

1 a copyright registration for *Rose Enigma* and are  
2 waiting to hear back on that application.

3 My point today is a simple one. The Office  
4 is not writing on a blank slate when it comes to the  
5 copyrightability of outputs created with the  
6 assistance of generative AI tools. Images created  
7 with these tools are visual works, and the Office  
8 should treat all visual works the same.

9 Today, however, the Office's treatment of AI  
10 images diverges substantially from its treatment of  
11 photographs, with the bar for copyrightability much  
12 higher for AI images. This inconsistent treatment  
13 threatens to destabilize the registration process for  
14 visual works. This inconsistency shows up in several  
15 areas, but briefly I'll mention predictability and  
16 what it means to be the mastermind of a work.

17 On predictability, photographers receive  
18 copyrights in photos without knowing what their photos  
19 will look like ahead of time. Garry Winogrand, one of  
20 the most influential photographers of the 20th  
21 Century, said that he photographs to see what  
22 something will look like photographed. Wildlife  
23 photographers register photos taken by cameras on  
24 motion sensors, photos where the photographer was not  
25 present and had no idea what the image was going to be

1       until they looked later. Photographers do not have to  
2       predict how their works will look to be the authors of  
3       them, and AI artists should not either.

4               On the mastermind, to be the author of a  
5       work, the Office has stated that one must be the  
6       mastermind of it. We are all the authors. We could  
7       all register the endless, endless photos we take with  
8       our phones. If we are the masterminds of those  
9       photos, where our creative contributions are so  
10      minimal, it is hard to understand why AI artists, like  
11      Kashtanova, are not the masterminds of images  
12      generated after setting far more parameters and making  
13      far more creative choices.

14             In short, whatever the test for authorship,  
15      the test should be applied consistently across the  
16      visual arts. Thank you for having me.

17             MR. WELKOWITZ: Thank you.

18             From The Niskanen Center, Daniel.

19             MR. TAKASH: Hi. Thank you. My name is  
20      Daniel Takash. I'm a Regulatory Policy Fellow at The  
21      Niskanen Center. We're a 501(c)(3) public policy  
22      think tank. We work on a wide range of public policy  
23      issues, from employment and poverty welfare to climate  
24      and intellectual property.

25             Thank you so much to the Copyright Office

1 for putting this together. Thank you so much to  
2 everyone for attending.

3 And so I'd like to make three global points,  
4 I guess, to frame my comments.

5 First, it makes absolute perfect sense that  
6 the Copyright Office would be one of the first  
7 agencies to host formal discussions around the nature  
8 of artificial intelligence. Just the way that this  
9 field is developing and things are shaking out, they  
10 have implications for copyright law, perhaps before  
11 more than any other field.

12 And I would also like to commend the way the  
13 Copyright Office has dealt with the practical  
14 implications of artificial intelligence, especially as  
15 it relates to the registration of AI-generated works,  
16 both as a matter of policy and a matter of law as it  
17 exists today. I think they've gotten it right.

18 But the second point I'd like to make is  
19 that as important as copyright is, I don't think it  
20 should be the final word or even necessarily the most  
21 consequential word on developments in AI. This is a  
22 technology that perhaps will stop developing today,  
23 and it will just remain a novelty, in which case IP  
24 will remain the most important framework under which  
25 to regulate it.



1           But the sky is the limit, and the potential  
2 of artificial intelligence across virtually all  
3 domains of life are extraordinarily consequential, and  
4 for that reason, I think it's important to keep it in  
5 perspective. If we're talking about general safety,  
6 job dislocation, or other issues that are separate  
7 from, even though they may be related to, intellectual  
8 property, I think it's important that they take  
9 priority in any discussion.

10           And then, finally, I would encourage  
11 everyone to remain somewhat forward-looking. The role  
12 of copyright is to promote the progress of science,  
13 and it would be problematic for us to use that policy  
14 regime in order to limit it.

15           We can all look back and laugh at John  
16 Philip Sousa, you know, bemoaning the threat of  
17 phonograph-dooming music. And I want to be abundantly  
18 clear that the threats posed, that fear of creative  
19 destruction, is real, sincere, and precedented, and we  
20 must be prepared to say what other policy domains  
21 separate from copyright law should be best used to  
22 address the problems to the extent they exist.

23           Thank you.

24           MR. WELKOWITZ: Thank you very much.

25           From Dual Wield Studios, Zara.

1 MS. VARIN: Hi. Thank you so much for the  
2 opportunity to speak today. My name is Zara Varin. I  
3 am the Art Director and Senior Product Designer at  
4 Dual Wield Studios. It's a company based and founded  
5 on making things we love, inspired by the things we  
6 love.

7 My personal background is a little all over  
8 the place. After getting out of the Marine Corps, I  
9 established a career as a game developer and got a  
10 foot into the licensing industry as well. I've worked  
11 on everything from video games and comics to action  
12 figures, costumes, TV, movies. The point is I've  
13 gotten to work on a lot of cool stuff.

14 Before all that, though, I was a fan artist,  
15 and I still am. Uniquely, in my day job, we strive to  
16 champion and partner with fan artists and indie  
17 creators to elevate them in official collaborations  
18 with IP holders in ways that center those fan works  
19 while compensating and crediting them fairly, all  
20 while safeguarding the IP's representation. We bridge  
21 the gap between licensors and fandom to ensure  
22 creativity isn't stymied but celebrated.

23 Within the licensing industry, we're an  
24 outlier in our prioritization of fair wages, ethical  
25 production, and credit to the artists that we work

1 with. For many artists, that credit underscores their  
2 portfolio of work in acting as a resume.

3 So, in order to be effective at what I do, I  
4 have to keep up with constantly changing technology  
5 and tools, and I worry about the current state of  
6 generative AI. It grossly undermines credit to the  
7 vast swath of works informing their data sets.

8 For artists whose name has been used to  
9 populate guidance for these imitative generators,  
10 their actual work is becoming mired in a sea of  
11 manufactured imposters. It purports to be built for  
12 us, but the methodology informing its data sets and  
13 lack of clear ethical foundation indicates otherwise.  
14 When data set training is reliant upon things like  
15 underpaid workers combing through horrifying content  
16 to identify and tag it, it demonstrates a worrisome  
17 set of priorities.

18 Lastly, the most disheartening aspect of  
19 this is seeing how it has scared and dissuaded so many  
20 folks, from those just starting to explore creative  
21 expression to those who have spent countless hours  
22 honing their skills and often sharing to encourage  
23 others. Many people whose work was used  
24 nonconsensually to train these tools are being  
25 jeopardized and devalued in their own industry by

1       them.

2                   I think generative AI genuinely has the  
3       potential to become a robust tool for creators, but it  
4       requires far greater ethical application and scope  
5       before it's something I'm comfortable considering  
6       incorporating into my workflows.

7                   I'm grateful to discuss things further with  
8       all of you. Thank you so much.

9                   MR. WELKOWITZ: Thank you very much.

10                   From Vanderbilt University Law School,  
11       Daniel.

12                   MR. GERVAIS: Yes. Thanks, David. Thanks  
13       for having me as a panelist today.

14                   My name is Daniel Gervais. I'm a Professor  
15       at Vanderbilt Law School where I teach AI and IP law.  
16       I've written extensively on AI and IP and on the  
17       regulation of AI, and also on the legal and functional  
18       differences between human and machine learning,  
19       intelligence, and thinking. It's all available on  
20       SSRN, so if anyone wants to have a look. And, in  
21       fact, I just posted a summary checklist of issues on  
22       AI and IP to both Twitter and LinkedIn that you may  
23       find useful.

24                   As to today's topic, there are five legal  
25       questions I'm interested in, and I don't think we'll

1 have time to get into all five, but here they are.

2 The first is, obviously, is the scraping or  
3 text and data mining legal? And, here, I'm interested  
4 not just in U.S. law. I'm also looking at foreign  
5 international law.

6 Second question, does the machine infringe  
7 when it produces a new work? And I think the analysis  
8 here needs to be separate for different rights in the  
9 copyright bundle. I could come back to that.

10 The third question we've been already  
11 discussing, I mean, in the previous panel, and I'm  
12 sure we'll get back to it in this panel, is, can the  
13 machine be an author? Here, basically, I strongly  
14 support the guidance from the Copyright Office. I'd  
15 be happy to explain why.

16 The last two questions I don't know if we'll  
17 get to would be, is the AI algorithm itself protected  
18 by IP law?

19 And the fifth is, is the data set, if you  
20 want to call it that to simplify, copyrightable or  
21 protected?

22 I'm also interested, and I'll end with this,  
23 at a deeper level on the alignment, by which I mean,  
24 is it possible to align the future development of AI  
25 in this space with the needs for humans to grow and

1 develop and to use art to communicate, both to send  
2 and receive new ideas and messages?

3 So I'll end here and look forward to our  
4 conversation. Thank you.

5 MR. WELKOWITZ: Thank you.

6 And, finally, from ASCRL, James.

7 MR. SILVERBERG: Hi. I'm James Silverberg.  
8 I'm the CEO of the American Society for Collective  
9 Rights Licensing. I'm also a former law professor,  
10 and for more than 40 years, I worked litigating  
11 copyright cases across the United States.

12 ASCRL is a not-for-profit corporation that  
13 represents tens of thousands of illustrators and  
14 photographers. We collect and distribute collective  
15 licensing fees. These come from collecting societies  
16 in foreign countries which have implemented proven and  
17 successful collective licensing systems to compensate  
18 artists for non-author, non-title-specific content  
19 use, that is, compensations distributed to authors in  
20 spaces where the use of content is certain, but the  
21 identification of the specific content or authorship  
22 is not always possible or is impractical. These  
23 spaces are like the AI space.

24 ASCRL is interested in exploring legislation  
25 to provide for collective licensing solutions for the

1 use of illustration and photography in AI platforms  
2 and believes that subscription and advertising or  
3 other fees should be collected to compensate authors  
4 on a nonspecific basis for the ingestion of their  
5 material into AI platforms.

6           We need to be aware that the current  
7 copyright paradigm is not well suited to the promotion  
8 of art and authorship in the context of how AI  
9 generates visual artwork. The constitutional  
10 authorization for legislation to reserve to authors  
11 the rights to their creations first found form in the  
12 copyright laws. The existing laws are focused on  
13 prohibitions against copying expression and  
14 permissible exceptions, like the Fair Use Doctrine,  
15 with the objective of preserving the economic benefit  
16 of artwork for authors with the intention of expanding  
17 American culture.

18           The constitutional purpose of reserving  
19 authors' rights remains outstanding, but the current  
20 copyright model does not work well when dealing with  
21 AI-generated works where the technical lines of  
22 expression copying are not always crossed or where  
23 existing fair use factors become a part of the  
24 equation.

25           For example, one of the main challenges with

1 AI-generated works is that the existing copyright laws  
2 are ill-equipped to preserve the economic benefit of  
3 authors when their material is learned or ingested or  
4 when uncopyrightable styles are appropriated. Even  
5 when infringement does occur, it can be difficult to  
6 detect and identify and prohibitive costs can be  
7 associated with pursuing legal action.

8 Much of our discussion today is already  
9 focused on the failures, challenges, and uncertainty  
10 of applying the existing law and debating its  
11 application in the context of injection, and this in  
12 and of itself may be proof that copyright law is at  
13 best problematic and uncertain as a solution to the  
14 problem of author protection.

15 For these reasons, ASCRL believes that we  
16 need a new way of thinking about how we should  
17 implement the constitutional premise that we reserve  
18 to authors their rights and their ability to receive  
19 compensation because the current copyright system is  
20 not achieving and cannot really achieve the  
21 constitutional goal in the AI context.

22 So, to address this challenge, ASCRL  
23 recommends that we do not entirely focus on the  
24 niceties of infringement, issues of interim copying,  
25 fair use factors, and that we move towards



1       legislatively implementing collective licensing  
2       systems like those that are currently used very  
3       successfully in many foreign countries.  These systems  
4       serve our constitutional objectives and facilitate  
5       licensing and the use of AI and create a more balanced  
6       system that recognizes the needs of the AI community  
7       as well as the authors whose works or work attributes  
8       are ingested into these systems.

9                 We are hoping to level the playing field by  
10       requiring non-title-specific, non-author-specific  
11       compensation where works cannot be specifically  
12       identified in order to compensate for uses where  
13       specifics of use are not available.

14                MR. WELKOWITZ:  Thank you, James.

15                MR. SILVERBERG:  I appreciate your inviting  
16       me on the panel, and I look forward to our discussion.

17                MR. WELKOWITZ:  Thank you very much, James.  
18       And thank you all for introducing yourselves, and  
19       welcome again.

20                And to begin the discussion, let's begin  
21       with this first question.  How is the training of  
22       artificial intelligence models affecting your field or  
23       industry?  And what should the Copyright Office know  
24       about the technology's use of training materials when  
25       it is considering copyright issues relating to

1 training? Please be specific in terms of which part  
2 of the visual arts ecosystem you're talking about.

3 Let's see. And please use the Raise Hand  
4 feature. Ah, good. Zara, you're first on my screen.

5 MS. VARIN: Hi. Thank you. It's Zara.

6 MR. WELKOWITZ: Oh, I apologize, Zara.

7 MS. VARIN: It's okay.

8 MR. WELKOWITZ: I apologize. Sorry.

9 MS. VARIN: Thank you.

10 So I occupy several different unique spaces.  
11 I have a foot in a lot of different worlds, both as a  
12 game developer and within the licensing industry, and  
13 something that we've been seeing a lot across the  
14 board is that generative AI has kind of become a  
15 digital gold rush. And the training for informing  
16 that digital gold rush has come from a lot of my  
17 peers. I believe Karla touched on this during the  
18 first part of this panel.

19 But it's very disheartening when you Google  
20 search somebody's name and what comes up now is a  
21 proliferation of images that were created utilizing  
22 their art style but were not created by them  
23 themselves. And that's creating uncertain authorship  
24 and a great deal of uncertainty for people who are  
25 actually in these fields who are thinking maybe I

1 don't want my online portfolio available at all.  
2 Maybe I should safeguard or gatekeep my work in a way  
3 where I have to have password protection so that I can  
4 control the access. And it's essentially denigrating  
5 a lot of the work that people have been sharing online  
6 since the Internet's inception.

7           And it's incredibly disheartening as well  
8 within a production environment that these training  
9 methodologies are being done nonconsensually as well.  
10 Even people who have attempted to reach out utilizing  
11 the opt-out options that some of these models have  
12 kind of after the fact offered to artists, they're not  
13 having successes with opting out, or they're still  
14 seeing their work featured in those models.

15           And it's, I think, very telling that if you  
16 ask one of these models to create work based on an  
17 artist who wasn't part of that data set, it cannot.  
18 It'll try. It'll do something. But you're not going  
19 to end up with something that is aping the style and  
20 imitating something.

21           They're very sophisticated calculators by  
22 taking your set of inputs, running it through the  
23 algorithms to arrive at an output, but there's no  
24 creativity inherent in the process. And the training  
25 data utilized to do that is where the creativity

1 exists. The prompt might be a couple of cool words  
2 that somebody's put together. And I don't want to  
3 punch down on folks who are starting to learn how to  
4 do prompting. But the training data sets themselves  
5 are pulled together from a vast quantity of many  
6 works, folks who are here representing some of them,  
7 and that's causing many creators to second guess  
8 whether they want to be creators at all.

9 MR. WELKOWITZ: Thank you.

10 Luc, you're next on my screen.

11 MR. BOULET: Thank you.

12 This question implies that the visual arts  
13 industry understands the extent to which AI companies  
14 are using and profiting off of the works of others.  
15 And this is quite the opposite. Without a transparent  
16 and open AI system, it's impossible to determine which  
17 AI-generated works are incorporating the copyrighted  
18 material of others. And this leaves both the public  
19 and copyright holders completely unaware of which  
20 photographic works are being used by AI engines and  
21 the extent of their use. This is why it's imperative  
22 for AI companies to disclose their sources and methods  
23 used for when creating their final product.

24 There's growing anecdotal evidence of AI  
25 work displacing works created by human authors. A

1 publishing company looking to support their article  
2 with photographic evidence may turn to AI to produce a  
3 bespoke image, and others are inputting their selfies  
4 into an AI server to generate their latest LinkedIn  
5 headshot.

6           It's no surprise that individuals with the  
7 least bargaining power are most vulnerable to the  
8 negative effects of AI systems. Photographers who  
9 rely on their work to make a living often display  
10 their images in digital galleries and are promised  
11 with the option to opt out of having their works  
12 scraped in the future. However, these promises are  
13 empty as the timeline for when they may choose to do  
14 so has yet to be announced or is unclear at all.

15           Copyright owners may sometimes choose not to  
16 license their work, and that wish should be respected.

17           MR. WELKOWITZ: Thank you.

18           Paul?

19           MR. REINITZ: Thanks.

20           So, yes, I think that the short answer is  
21 that these technologies are having a big impact, and  
22 we expect that the impact is going to continue. As I  
23 said in my introductory statement, we believe that  
24 there's a lot of potential for these systems to help  
25 creativity, but there is also a lot of potential for

1 harm.

2 Now, to talk about exactly how it's  
3 impacting our industry, you know, I would like to  
4 point out that, and this kind of goes into the second  
5 question as well, that, you know, high-quality content  
6 along with captions that explain that content is  
7 really valuable in the machine learning process, and  
8 because of that, you know, there's a lot of demand for  
9 our content. And we're doing licenses out there.  
10 There's a big demand in our industry for people to  
11 come to us knowing that we have collected rights over  
12 nearly three decades of our existence and that we can  
13 license safely for these usage.

14 We also see that our customers are using  
15 this technology already. We recently did a scientific  
16 survey, and over half, I think it was 56 percent, of  
17 our customers that were polled are already using AI in  
18 their current workflow. Now, you know, we think that  
19 there are lots of great ways to use it and it can help  
20 promote creativity. But, again, you know, at the end  
21 of the day, these customers are more excited about  
22 licensing content from us for commercial use because  
23 they know that there's legal certainty in a license.  
24 And I think that hopefully we can get to a point where  
25 there's confidence in these tools that somebody can

1 use the output for their creative work.

2 I'll stop there.

3 MR. WELKOWITZ: Thank you.

4 Daniel, you're next.

5 MR. GERVAIS: Thanks. Three quick points.

6 The first is I think the Office in its  
7 capacity as advisor to Congress and the courts should  
8 bear in mind the international obligations of the  
9 United States, in particular, the TRIPS agreement,  
10 three-step tests, for example, in providing advice on  
11 what can be done without permission or payment.

12 Second, the question of scraping, of course,  
13 can happen in many different countries. Many other  
14 countries have already adopted exceptions, the EU,  
15 Japan, others, Singapore. So one way or the other,  
16 you know, text and data mining will happen, but there  
17 will be limits, and whatever needs to happen beyond  
18 those limits will need to be licensed. So perhaps the  
19 Office can play a role in facilitating licensing. And  
20 by licensing, I don't mean just that if you're an  
21 artist, you get paid once because your work gets  
22 scraped and you get paid because there's a licensing  
23 regime. A license can also impose contractual limits  
24 on the use and reuse of material.

25 Now anything that's scraped can lead to an

1 output that will potentially create a commercially  
2 competitive product, but at least there is some  
3 conversation, some exchange of consideration.

4 So I think those are the three roles I would  
5 see the Office potentially playing. Thank you.

6 MR. WELKOWITZ: Thank you.

7 James?

8 MR. SILVERBERG: So I wonder if we'll really  
9 succeed in disentangling the many problems of AI. Is  
10 the problem really whether there's a copyright  
11 infringement? Is the problem really identification of  
12 works? Is it opt-out? Is it content access  
13 restrictions? I think all of these things are  
14 important when we're looking at the ingestion problem.  
15 But is that really where we should be focusing our  
16 inquiry? Isn't the problem that we need to have a  
17 clear system, call it copyright or something else,  
18 that makes sure that the authors are compensated?

19 MR. WELKOWITZ: Thank you.

20 Heather?

21 MS. WHITNEY: Thanks. I just want to  
22 quickly mention something about the contribution of  
23 artists who are using these tools in terms of how it  
24 has outputs. So I think there's a misconception that  
25 all of these people are just sort of typing in some



1 generic words and then there's an output. I strongly  
2 recommend people just Google control net models,  
3 Stable Diffusion, and you can see the different kinds  
4 of models that are now used on top of kind of like an  
5 extension of Stable Diffusion in order to have a much,  
6 much greater control over the images that are being  
7 used. It's not just the model that's doing the work.

8           And if you look at what they can do with  
9 these things, with these kinds of different kinds of  
10 models, setting up the composition, choosing sort of  
11 the angles, the lighting, all those kinds of things,  
12 and you compare that to the things that are said in  
13 the Compendium about what is required for someone to  
14 have a copyright in a photograph, this is just  
15 absolutely without question equal to or greater than  
16 the kinds of things that people are doing in that  
17 context.

18           So I just think it's helpful that people  
19 understand the technology and how it's evolved, and I  
20 think the control net models are really a way for  
21 people to start to understand where that's going.

22           MR. WELKOWITZ: Thank you.

23           Alex?

24           MR. RINDELS: Yes. Thanks. I'd just like  
25 to briefly respond about how the output is positively

1 affecting the industry that we're in.

2           So, in two regards, the professionals who  
3 use our service as creatives, they're able to unleash  
4 their creative ability that might have otherwise been  
5 tied up in time-consuming creative processes. So many  
6 of them use Jasper Art to create ideas that they then  
7 build upon or to create end products that they use in  
8 marketing campaigns or in other business uses or  
9 commercial uses, and this greatly frees up their time  
10 to use their creative potential, their intelligence,  
11 their efforts in other productive ways.

12           And secondly and probably more importantly  
13 are the output in tools like Jasper and others,  
14 Stability, it allows people in the creative space who  
15 otherwise could not have created output like this to  
16 create output, and I'll explain briefly.

17           So we also have a text-generating tool. And  
18 we've had numbers of customers who have dyslexic  
19 disabilities or otherwise who would have otherwise  
20 been unable to create output, and they regularly  
21 respond to our tools and tell us how grateful they are  
22 that they're now able to take what was in their head  
23 and put it to paper. And, previously, it was just  
24 basically a mechanical limitation that prohibited them  
25 from doing so. And now, with tools like this, it's

1       untapped, it's unleashed their potential that  
2       otherwise was untapped in the industry.

3                 So, in the first part, it's freeing up space  
4       for people who already have the potential to create  
5       art or other output and it gives them more time. But,  
6       secondly and probably more importantly, it also allows  
7       those who otherwise could not have created artistic  
8       output to do so.

9                 MR. WELKOWITZ: Thank you.

10                Daniel?

11                MR. TAKASH: Thank you. So, with respect to  
12       the images that are training, Niskanen's policy with  
13       respect to all the works we put out, images included,  
14       is Creative Commons provided, there's attribution,  
15       because we do our best to contribute what we like to  
16       think at least is good-quality work so that images can  
17       be trained. We are also fond of using AI-generated  
18       images just as a substitution for stock photography  
19       that we would otherwise license, or we can have some  
20       bespoke images that particularly complement some work  
21       that we're generating. So we have an interest in  
22       making sure that material is out there so that the  
23       models can be the best that they can be.

24                That being said, we recognize that there  
25       ought to be tools available and the law should

1 accommodate the use of those tools to allow the  
2 authors or the rights holders of works, in this case,  
3 visual artists or visual arts, although this principle  
4 can be extended to other contexts, that, you know,  
5 that creates some ability to remove or make it so that  
6 it's much harder for their works to be learned upon.

7 That being said, we should recognize that  
8 copyright law does not necessarily provide an absolute  
9 veto to the rights holder, and there are plenty of  
10 examples, you know, say what you will about the  
11 quality or the desirability of this outcome overall,  
12 where, you know, use can be even in a way that the  
13 original rights holder may not approve of.

14 That being said, in order to ensure quality  
15 and respect, incentives to produce arts, I think the  
16 best way to square the circle is to focus on a regime  
17 that deals with remuneration and financing, which  
18 deals with much larger policies, as I alluded to  
19 earlier in my comments.

20 MR. WELKOWITZ: Thank you.

21 Paul?

22 MR. REINITZ: Hi. Thanks. Yeah, I just  
23 wanted to make a quick comment about what Daniel just  
24 said. I mean, you just said that you, you know, as a  
25 consumer of stock photography, sometimes use generated

1 content as a substitution. I think that that's fine  
2 and I think that the market is probably going there.  
3 But I would like to point out that if you are going to  
4 be using a substitute and that model that creates the  
5 generative content was trained on unauthorized  
6 content, you are substituting a product without  
7 compensating the artists that were needed to make that  
8 model.

9 And, you know, I just, sorry, I just needed  
10 to call that out because it just, it's so real, as you  
11 say that, as a user of stock photography.

12 MR. WELKOWITZ: Thank you.

13 James?

14 MR. SILVERBERG: Just to follow up or  
15 elaborate on Paul's point, which I very much  
16 appreciate, the problem is also particularly paramount  
17 for small businesses and medium-size businesses that  
18 involve authors who do not have vast amounts of  
19 content to aggregate and to license on a large-scale  
20 basis. And so, while there are content aggregators  
21 that are able to do that on a much larger scale  
22 because they occupy a larger market force, hundreds of  
23 thousands of individual creators and authors don't  
24 have the capacity to engage in a licensing transaction  
25 with an AI platform, nor do they have the capacity to

1 enforce copyrights in copyright litigation or possibly  
2 even to identify the use of their work.

3 And so that is why ASCRL is advocating for a  
4 remuneration system that will prevent a complete  
5 market displacement of these constituents and which  
6 will make sure that they get compensated.

7 MR. WELKOWITZ: Thank you.

8 Daniel?

9 MR. TAKASH: Thank you for circling back.

10 Yes. So just to be clear, with respect to  
11 Paul's point, I am fully cognizant of the, I guess you  
12 could call it, recursive nature between the body of  
13 works available for training and the output of it, so  
14 I'm fully aware of that.

15 I think the problems -- or not problems, the  
16 challenges artificial intelligence creates with  
17 respect to copyright is a difference of both degree  
18 and of kind, which is why I'd like to underscore again  
19 the support for something that moves away from more  
20 traditional models of infringement, alluding  
21 to -- I can't say I'm super familiar with the model  
22 James brought up originally, but something that  
23 focuses more on remuneration moving into a very  
24 different technological paradigm in order to, as I  
25 mentioned before, square that circle.

1 MR. WELKOWITZ: Thank you.

2 Okay. I think I'm going to turn the mic  
3 over to my colleague, Jordana Rubel, for the next  
4 question.

5 MS. RUBEL: Thanks, David.

6 I guess I'll start off by maybe just asking  
7 a question that relates to the point we were just  
8 talking about, which is more solution-oriented  
9 thinking about if we get to the place where we are  
10 just talking about remedies here. Maybe we can start  
11 with James to give a little bit more detail about what  
12 ASCRL's proposal is, and if other folks want to speak  
13 to that, you're welcome to raise your hands as well.

14 I'll turn it to you, James.

15 MR. SILVERBERG: Thank you. So I appreciate  
16 in the United States there's a general lack of  
17 familiarity with collective licensing systems,  
18 particularly in the visual space, because we don't  
19 have any. In foreign countries, there are collective  
20 systems in a number of different areas. I'll just  
21 mention two, for example, to illustrate how they work.

22 One would be in the area of library lending.  
23 As we all know, in the United States, there's a first  
24 sale doctrine. If a library buys a book, they can  
25 lend it forever and never pay for it again. But, in

1 foreign countries, a system's been introduced as a  
2 secondary or adjunct system to the copyright law  
3 involving what's referred to as secondary rights.

4 For library lending, people don't know what  
5 books are being lent, people don't know which authors  
6 are involved in the lending, people don't know which  
7 photographs are in what books or what illustrations  
8 are in what books, but fees are paid into a collecting  
9 society in order to compensate the authors for the  
10 lending of this material. It's done on a non-author,  
11 non-title-specific basis. We don't know exactly what  
12 the fees are for other than they're for the lending  
13 itself, and then algorithms are established in order  
14 to make a fair allocation of the revenue to the  
15 individual authors whose works might be embodied.

16 It's a form of rough justice. It's not  
17 specific. It's not a perfect system, but it's a way  
18 of creating compensation. It is analogous to a  
19 system, sort of like a SoundExchange, where fees are  
20 being paid for the use of recorded music that's  
21 digitally streamed, and that goes into SoundExchange,  
22 one of our directors on our Board of Directors, a  
23 former executive director of SoundExchange, and those  
24 funds are distributed, but they're distributed on a  
25 more specific basis where it's known what material is



1 used.

2 We would be proposing a system where AI  
3 platforms would be distributing compensation to  
4 collecting societies in order to distribute those  
5 according to a fair algorithm which would compensate  
6 illustrators and photographers. And this was also  
7 espoused by Authors Guild in the other listening  
8 session for works in the writing space.

9 MS. RUBEL: Thanks.

10 Daniel, did you want to respond to that, or  
11 do you have any other thoughts on this topic?

12 MR. GERVAIS: Just a footnote just to be  
13 clear, James is right about public lending, but the  
14 way it works is not random. I just want to make that  
15 very clear. So, in countries where they have it, I  
16 don't know, Germany, Canada, and others, the authors  
17 must register their works, and then the collective  
18 actually will only pay -- so they will survey certain  
19 public and private libraries, usually mostly public  
20 libraries, and will only pay if the book is actually  
21 in those libraries. And the reason they don't pay  
22 per, you know, the number of times that the book was  
23 taken out by a user at a library is partly privacy.

24 And so the second regime, though, that is a  
25 little different is this thing called extended

1       licensing that I know the Copyright Office has  
2       published a number of reports about where, basically,  
3       a collective is given the -- basically, it becomes an  
4       opt-out, essentially, so the collective basically has  
5       rights to represent a class of right holders, except  
6       those who opt out. This is very, well, I can't say  
7       very common, it's common in Europe, and other  
8       countries are looking at it. Some countries have  
9       functional equivalents of that.

10               That is a different thing because what it  
11       does is it gives a collective a right to license, but  
12       the basis on which then authors will get paid or  
13       publishers or whoever else has rights is not  
14       predetermined. It has to be decided case by case in  
15       the appropriate way. It's not a black box. I want to  
16       make sure people understand this isn't just a black  
17       box of money that gets, you know, paid somehow. You  
18       can use data to actually apportion the funds  
19       correctly. Thank you.

20               MS. RUBEL: Paul?

21               MR. REINITZ: Yeah. Thanks. And thanks,  
22       Daniel. I was actually going to bring up a similar  
23       issue.

24               I would say that, you know, I think the idea  
25       of collective licensing is a good one but only if it's

1 really necessary. Really, you know, it's a complex  
2 system to set up. There's a lot of administration,  
3 and, you know, there can be a lot of inefficiency in  
4 it.

5           From where I currently sit, as I described  
6 in my opening statement, we're seeing a lot of  
7 interest, and we're doing a lot of licenses directly  
8 with people that want to or organizations that want to  
9 license content. Now I understand that that doesn't  
10 work for everyone, and it's much harder for an  
11 individual, you know, photographer to say do that on  
12 their own, and maybe we need a solution like what  
13 James is suggesting.

14           That said, you know, along with what Daniel  
15 described, I think the idea of an opt-out and  
16 following these models of extended collective  
17 licensing is essential because, you know, if an  
18 organization wants to opt out, they should be able to  
19 do so.

20           MS. RUBEL: Thank you.

21           Zara?

22           MS. VARIN: Thank you.

23           So, to your question, it's been really  
24 interesting to see this conversation contextualized  
25 and framed by different industries. So, for instance,

1 film and music and the music industry as a whole, they  
2 have a far more rigorous enforcement of their  
3 copyright on their works. Artists, especially within,  
4 like, the games industry or visual effects industry or  
5 working as freelancers, don't have a single unified  
6 front to advocate for us.

7 So there's efforts to unionize, but we don't  
8 really have any sort of large collective that is  
9 coming to attend events like this, that's speaking on  
10 our behalf and helping to advocate for the rights of  
11 artists and creators in those industries.

12 I think folks on these sorts of creative  
13 teams doing freelance work and within, I think, more  
14 of the cutting-edge tech industries where there's a  
15 lot of overlap between utilizing technology in our day  
16 to day and rapidly adapting to what that new  
17 technology is could definitely use some sort of  
18 remunerative residual system or something along the  
19 lines of what I think James was getting at and what  
20 Paul has also touched on. But that has to work and  
21 advocate alongside credit to the artists who have  
22 helped build that system. That system wouldn't work  
23 without all of the pieces that have built that  
24 learning model.

25 So I think step one is figuring out, how do

1 we backtrack and ensure that all of the existing  
2 learning models are clear, transparent, ethical, have  
3 defined what their scope is, and also define what  
4 efforts they are making? Because the onus is on them  
5 for building these tools to do so in a manner that is  
6 not going to undercut people that are already working  
7 in those creative industries, because, again, I do  
8 think there's a lot of great potential in these tools,  
9 but they are tools. They are not creative.

10           Artists necessarily are called skilled.  
11 It's not talent. Talent is kind of a very worrisome  
12 eugenicist concept. Skill is a thing that you have to  
13 work at. There is no skill inherent in the AI  
14 generative process. The only skill present is coming  
15 from the works that are scraped to put everything  
16 together. So whenever we're contextualizing all of  
17 this, I want folks to keep that in mind, where is the  
18 human labor and where is the skill coming from?

19           MS. RUBEL: Daniel?

20           MR. TAKASH: Oh, sorry, two Daniels. It  
21 gets confusing.

22           MS. RUBEL: Sorry.

23           MR. TAKASH: Yes. So, with respect to the  
24 model for remuneration and licensing based on the  
25 work, I think that cognizant of the transaction costs,

1       which are not insurmountable but are real and there,  
2       and additionally, the fact that artificial  
3       intelligence is nascent and may not yet, underline  
4       yet, have a clear path towards commercialization and  
5       ability to generate a source of revenue that can  
6       easily be extracted.

7                   And balancing, I think, those shortcomings  
8       at present with the potential for artificial  
9       intelligence, again, across the economy, you know, in  
10      a wider way and getting it off the ground, I think it  
11      may be worth considering, and I value everyone else's  
12      input, some type of alternative source of revenue in  
13      the initial phases of any type of licensing that may  
14      exist. A popular idea that comes around every now and  
15      then, particularly floated by Paul Romer, would be a  
16      tax on online advertising revenue, I think that's an  
17      attractive opportunity for a source of revenue, but  
18      something that I would like to encourage folks keeping  
19      in mind at least in the early phases.

20                   MS. RUBEL: Okay. I'm going to go to Luc  
21      next because he hasn't spoken on this point, and then  
22      I'll come back around to James and Paul.

23                   Luc?

24                   MR. BOULET: Thank you.

25                   Our position is that an AI engine cannot

1 capture the beauty of a photograph without initially  
2 copying the image. And ingestion of copyrighted works  
3 by AI developers without proper authority constitutes  
4 copyright infringement on a massive scale and is of  
5 great concern.

6 The reason why developers are seeking out  
7 copyrighted works is because professional  
8 photographers create high-quality photos that are  
9 exceptionally well-suited for AI ingestion, and in  
10 this case, they're considered so valuable because  
11 quality of input determines their quality of output.

12 And I just want to also add that the  
13 priorities of individuals using copyrighted materials  
14 for AI ingestion, you know, must not and should not  
15 take precedence over the rights and interests of  
16 creators. The AI systems should not be built on their  
17 backs without their consent. And we must not  
18 compromise longstanding laws and policies that protect  
19 the rights of copyright holders in the pursuit of  
20 developing AI technology.

21 MS. RUBEL: Thanks.

22 James? Oh, I think you're still muted.

23 MR. SILVERBERG: I really appreciate what  
24 Luc said, and I want him to be right about everything  
25 that he said, but I'm a little bit concerned about the

1 copyright infringement assumption that is part of the  
2 discussion about AI ingestion because there are fair  
3 use issues and other issues there which make that  
4 final conclusion problematic.

5           Additionally, even if there is a  
6 determination in these court cases that there's an  
7 infringement, I'm not really sure what the utility of  
8 that is going to be for individual authors and small  
9 businesses who won't be able to monetize or possibly  
10 even identify the use of their material on AI  
11 platforms, particularly not through expensive  
12 litigation.

13           So I think it leaves us in a situation where  
14 we're still looking for answers even if Luc turns out  
15 to be right about everything that he said, and, again,  
16 I hope he is and he may be, but we're still going to  
17 have a problem.

18           And to follow up on Zara, I hope I said your  
19 name correctly, to follow up on Zara's comment,  
20 unfortunately, the onus may not be on the AI platforms  
21 to account for what they're doing because, unless what  
22 they're doing becomes clearly illegal, they have  
23 loopholes through the Fair Use Doctrine or other  
24 means, interim copying doctrines and other legal  
25 niceties, to evade liability. And they can sit here



1 today and present the argument that they're compliant  
2 with the law and may very well be.

3 But our problem isn't whether they're  
4 legally compliant and whether they're violating the  
5 copyright law. Our problem is, what do we do in order  
6 to make sure that the Zaras and the Karla Ortizs of  
7 the world get paid for the use of their style,  
8 content, appropriation of their efforts, when the  
9 current copyright system sort of is not really well  
10 fitted to doing that the way I would like it to be?

11 MS. RUBEL: Paul?

12 MR. REINITZ: Thanks.

13 Yeah, so I also wanted to respond to Zara  
14 and also the problem that James is pointing out. And  
15 I think, you know, again, as I said in my opening  
16 remarks, I think, you know, one of the best solutions  
17 we can do to mitigate these risks is require  
18 transparency. We need to have obligations on the  
19 developers of these models to keep records of the  
20 content that they trained on so that Zara or any other  
21 creator can tell if their content has been used.

22 And, you know, we are very early on, but  
23 this is something that we cannot go back and redo. We  
24 need to have these transparency obligations now so  
25 that there isn't just the ability to basically sweep

1 this stuff under the rug, and as the legal issues are  
2 decided, we need to preserve, basically, the evidence  
3 of what's going on.

4 MS. RUBEL: Alex, I'm going to give you a  
5 chance to jump in here.

6 MR. RINDELS: Thanks. Yeah, I'd say two  
7 points.

8 If society decides that we should pursue  
9 some type of remunerative system for this, I think  
10 being able to attach copyright protection to the end  
11 works themselves would actually be a pretty efficient  
12 way to collect fees for that remuneration. So a lot  
13 of our end users are constantly asking us whether the  
14 images they generate can be protected by copyright,  
15 and if they had to file an application like everyone  
16 else and that's part of that, meaning they have a duty  
17 to disclose that AI tools assisted in their generation  
18 of the content, maybe there's some sort of a fee that  
19 attaches to that.

20 My second point is I think it becomes very,  
21 very difficult for a remunerative system, although  
22 there are people much smarter than I who could  
23 probably determine where and into what portion of the  
24 fees, who they go to.

25 One, some AI models themselves aren't

1 storing the images so that when somebody puts in a  
2 text prompt, it's not going and retrieving an image  
3 and outputting it or some variation of it. The models  
4 themselves temporarily notice patterns in the images  
5 and in those patterns create an algorithm, and that  
6 algorithm overall is what the model is. And when you  
7 put an input for it to generate something, it simply  
8 provides a reasonable approximation of what the output  
9 should look like based on your text input.

10 So, for that, in that case, it would be very  
11 difficult to determine whose input was used to produce  
12 your output, so I think that would be difficult for  
13 attributing the fees as well.

14 MS. RUBEL: Yes, and we certainly heard that  
15 from Stability AI earlier this afternoon as well.

16 Luc, you're going to be the last voice on  
17 this question, and then we're going to move to talk a  
18 little more about the Copyright Office's registration  
19 guidance and related issues.

20 MR. BOULET: Thank you.

21 And I would just say to James's earlier  
22 point, that really leads me to the logical conclusion  
23 that there has to be an open AI system, that there has  
24 to be a transparency element added for the public  
25 market. And I would just add that just because it's

1       difficult to have transparency doesn't make it  
2       impossible. And, frankly, just because it is  
3       difficult, that is the road you must travel in order  
4       to use copyrighted content.

5                   MS. RUBEL: Okay. Thank you.

6                   Last question I want to pose to everyone, we  
7       have heard, the Office has heard in response to the  
8       guidance we released recently that, and I think  
9       Heather started making some points earlier in her  
10      responses along these lines, that there's possibly  
11      some things about the technology or how the users are  
12      interacting with the AI technology that the Office  
13      doesn't fully understand or appreciate.

14                  So I'm interested in any thoughts you have  
15      about what the Copyright Office should know about how  
16      the AI systems generate content, what the  
17      participation of users might be in different AI  
18      models, and any other feedback you have about the  
19      guidance that the Copyright Office released.

20                  Daniel, why don't we start with you. Daniel  
21      Gervais.

22                  MR. GERVAIS: Thank you.

23                  So, first, as I said in my introductory  
24      comments, I support the guidance. I think what's  
25      going on -- so, you know, machine learning is almost a

1 synonym of AI these days, and so, you know, machines  
2 learn when they produce output. There's a report  
3 online I wrote for the European Commission a couple  
4 years ago. I looked at every case where people said,  
5 look, the machine created this. And at least as of  
6 two years ago, there wasn't a single case where there  
7 wasn't substantial human edits.

8           But it's called machine learning for a  
9 reason, is that the machine will learn those edits,  
10 right? And as time passes, there will be more and  
11 more productions that have what I call no human cause  
12 really. And I think it's perfectly the right decision  
13 to say that doesn't have copyright. It would be weird  
14 to say you produce something, which is code that  
15 produces something, so you have copyright on the code,  
16 no question, right, if it's human written. But  
17 whatever the code produces, you also have copyright on  
18 that. We don't have that. We've never had that,  
19 right? And this is, I think, a line that should not  
20 be crossed.

21           So what I think the comment might be would  
22 be there are ways in which humans collaborate. The  
23 doctrine's very clear. When you take a public domain  
24 picture that's not protected anymore and you do  
25 something to it, we know, we can test for whether --

1 and you can test for whether there was enough done to  
2 it to be registrable as a new work, right? So the  
3 test is well known. It's just the technology allows  
4 humans and the machine to collaborate, as Alex and  
5 others mentioned.

6 So I would absolutely urge you to keep the  
7 guidance. Just in terms of its application, yes,  
8 there may be some ways to dig deeper into technology,  
9 but both the transparency and the exclusion of non-  
10 human works, I think, are very important.

11 MS. RUBEL: Heather?

12 MS. WHITNEY: Thanks. So just on the  
13 guidance, a couple of just points very quickly.

14 So one is, as I mentioned, and I think a few  
15 people mentioned on the earlier panel, it's not clear  
16 when you're reading the guidance what the relationship  
17 is between the analysis there and the analysis that  
18 the Office presented in Kashtanova letters because, as  
19 I mentioned before, that letter is completely  
20 dominated by a discussion of predictability, and the  
21 inability to predict what the output would look like  
22 was basically fatal.

23 But then, in the guidance, there's literally  
24 no mention of predictability at all. And while it's  
25 possible that the Office has decided that

1 predictability is no longer part of it, it still links  
2 to the Kashtanova letter as guidance to artists on its  
3 website, and I have heard from many artists through  
4 Kashtanova that they're just confused about what that  
5 really is supposed to mean.

6           The second thing is that the guidance itself  
7 has -- if you look at what the tests are for  
8 authorship within the guidance itself, they lead to  
9 different outcomes depending on which one you choose  
10 to look at. So, for instance, there's a lot of  
11 mention about Burrow-Giles with the idea that you are  
12 the author if you are the thing, basically, it owes  
13 its origin to you. And that's, like, a pretty easy  
14 thing to satisfy, and that's what's used a lot, I  
15 think, in photography. You click the button or you  
16 set up the thing and click a button and now you get  
17 the copyright. It would be clear that you would have  
18 a lot of copyrightable works if that were the test.

19           And then later you also say that basically  
20 you won't register works that are produced by machines  
21 or mechanical processes that operate randomly or  
22 automatically without any creative input or  
23 intervention by a human author. Again, that's like a  
24 pretty low standard, any creative input or  
25 intervention. But then, at other points, you talk

1 about this idea that you have to have ultimate  
2 creative control, that it's you are the one who is  
3 contributing all of the traditional elements of  
4 authorship.

5 So I think that that is a difficult thing to  
6 understand how these things are supposed to work  
7 together. And so, in the future guidance, it would  
8 just be helpful to sort of make clear what the  
9 relationship between those is.

10 MS. RUBEL: Thank you.

11 James?

12 MR. SILVERBERG: Yeah. I really have to  
13 echo Heather's sentiments on this point. You know, I  
14 think the Copyright Office has the guidance completely  
15 correct on the fact that non-human authorship is not  
16 copyrightable and is completely correct on the point  
17 that human authorship is copyrightable.

18 I think where the guidance, in my opinion,  
19 is a little bit off is something that Heather also  
20 pointed to, I think, which is that I think the  
21 guidance suggests that a substantial contribution  
22 needs to be made in order for the human authorship to  
23 be copyrightable. But, under the law, I think the  
24 standard for copyrightability of a work has a somewhat  
25 lower threshold than substantial contribution.



1                   And so I think the devil really is in  
2 details. And I think greater clarity could be given.  
3 I think maybe Daniel suggested that examples be given  
4 in order to help clarify what you say in order to  
5 render the subject matter of your application  
6 copyrightable or not.

7                   And just one quick separate point. I think  
8 it would be beneficial for the Copyright Office to  
9 have a policy where, in circumstances where there's a  
10 bulk registration of multiple works, the author can  
11 make a singular statement about what the copyrightable  
12 or non-copyrightable components are in all of the  
13 works so that a photographer registering 750 works  
14 doesn't have to do this 750 times.

15                   MS. RUBEL: Thank you.

16                   Luc?

17                   MR. BOULET: Thank you.

18                   I just want to state that the U.S. Copyright  
19 Office should not, from our position, and does not  
20 have the capacity to be engaged in investigations into  
21 the boundaries of what is disclaimed as AI-generated  
22 and whether or not there was sufficient human  
23 involvement in each case.

24                   The current registration process for works  
25 with AI contribution creates confusion around what AI

1 material should be disclosed in a registration  
2 application, and then the guidance applies obligations  
3 to disclose AI-generated works without drawing clear  
4 lines around what those are. And we don't want the  
5 registration process to become more burdensome because  
6 the Office is launching investigations into canceled  
7 registrations.

8           And the cost of registration is already high  
9 with confusion already taking place for many artists,  
10 and that standard application severely limits the  
11 capabilities of visual artists to register their works  
12 in group registrations, leading to greater costs and  
13 higher barriers for individual artists.

14           MS. RUBEL: Thank you.

15           Zara?

16           MS. VARIN: Thank you.

17           So, before all of this, in my stress prep, I  
18 had the opportunity to watch some of the videos that  
19 were featuring other folks from the U.S. Copyright  
20 Office, and there were two issues that were cited by  
21 Shira Perlmutter, I believe. One is authorship, and  
22 the other was ingestion of copyrighted works from  
23 machine learning. I've already touched on the latter,  
24 so I want to go back to the authorship point, which a  
25 couple of other folks have kind of alluded to and

1 mentioned here.

2 I think an important distinction is, at what  
3 point does human involvement cross that threshold into  
4 authorship, right? And, right now, we don't really  
5 have a clear set of guidelines for what constitutes  
6 that, especially as it pertains to AI-generated  
7 pieces.

8 I really appreciate the way that Creative  
9 Commons phrases that copyright law's fundamental  
10 purpose is to foster human creativity. Copyright  
11 helps protect folks' creative works while ensuring  
12 there are clear distinctions and guidelines for what  
13 constitutes a copyrightable work. I think, with the  
14 growth in this area, there's a great deal of potential  
15 to revisit and redefine aspects of what those  
16 distinctions even entail.

17 And as other folks have mentioned, we're not  
18 necessarily going to be solving all of this, and  
19 that's not entirely on the Copyright Office, but  
20 you're setting precedents, and I think it's important  
21 to consider that as it's going to ripple through every  
22 other aspect of every single creative field and all  
23 parts in between.

24 I think that there's also, whenever  
25 registering stuff, things that I would want to

1 consider seeing. The use of any and all mediums,  
2 including generative AI, must be disclosed, which I  
3 think that that's already part and parcel of the  
4 process, but it needs to be, I think, more  
5 distinctively and clearly communicated. It's digital  
6 work. This part kind of sucks for some artists, but  
7 you can record and maintain a full record of the  
8 process that goes into creating something.

9 I regularly screen share or share a process.  
10 I use a program called Procreate that can start to  
11 finish share what the process looks like on pieces.  
12 That is an option that digital artists have and I  
13 think is something that, if not necessarily that but  
14 something similar, could and should be considered when  
15 evaluating the degree of human authorship for any sort  
16 of AI-generated works.

17 I think there's another factor here that  
18 we've skirted around, and that's fair use. The fourth  
19 factor in particular is pertaining to the effect on  
20 the potential market, and that's of extreme concern.  
21 If somebody's art style becomes a popular prompt  
22 fodder and the Internet is inundated with countless  
23 generated images in that artist's style, how does that  
24 impact the artist? The short version is it sucks.  
25 And I've seen many people that have been directly

1       harmed and have lost work because of the lack of  
2       really distinct enforcement and ethical development  
3       around these AI tools.

4               So I could keep going on the list, but I  
5       know that we're running out of time, and I want to  
6       give other folks a chance to speak.

7               MS. RUBEL:   Okay.   Thank you.

8               I think we'll hear last from Paul.

9               MR. REINITZ:   Great, and I'll try to be  
10       brief.   You know, I just want to say this has been a  
11       really good discussion, and I think that really good  
12       points brought up, especially on this issue.

13               I also would like to commend the Office on  
14       putting this guidance out there.   I know it's really  
15       hard to get your hands around it.   And, you know, one  
16       of the things could have just been ignore it.   And,  
17       you know, I think that you've done a really great job  
18       in trying to get it out there.   Is it perfect?   No,  
19       but, you know, it will get there.

20               I think one thing in terms that could be  
21       helpful for you is to understand that it's not  
22       necessarily all or nothing when using generative AI.  
23       It's not like I have created an image and it's  
24       completely generative AI.   There's also applications  
25       of it where you could be considered using it to, like,

1 modify an existing image. And I think that, you know,  
2 that needs to be taken into account.

3 Yes, the disclosure still needs to exist.  
4 And, you know, to simplify things, I think that there  
5 should be disclosure anytime there's generative AI  
6 used. But, you know, the line might be different.  
7 For instance, if somebody, you know, in Photoshop,  
8 some of these tools are already using AI, right? And  
9 if someone is using AI to, say, correct sharpness or  
10 color, and that's something that has traditionally  
11 been okay in part of the creative process, you know,  
12 using other tools, you know, that needs to be  
13 considered, that that's different than creating a  
14 generative image just from a prompt.

15 MS. RUBEL: Thank you. And thanks to  
16 everybody. This has been a really productive session.  
17 We appreciate all of your comments. And I like that  
18 we've styled this as a listening session. Really, the  
19 purpose was for all of us to be able to listen to one  
20 another, and thanks to everyone for sticking with us  
21 and sharing your perspectives with us as well.

22 I'll pass it over to Mark briefly.

23 MR. GRAY: Great. Thank you, everyone. So  
24 this concludes our second panel. Thank you very much  
25 for everyone on the panel for this session.

1 (Whereupon, a brief recess was taken.)

2 MS. MANGUM: Welcome back, everyone, and  
3 good afternoon. My name is Jalyce Mangum. I'm an  
4 Attorney-Advisor here in the Office of the General  
5 Counsel.

6 We're going to begin the final session in  
7 just a few. But, first, for those of you who are just  
8 joining us, I've got a few Zoom housekeeping points.

9 If you're joining this session, but you're  
10 not a speaker for this particular session, please keep  
11 your camera off and your mic on mute.

12 We are recording this session today, and the  
13 recording will be available on our website in a few  
14 weeks. The transcription function is also activated  
15 for anyone who wants to follow along that way.

16 In this session, we're going to ask each of  
17 our speakers to give brief remarks on the subject of  
18 artificial intelligence and visual art. Each person  
19 will be limited to two minutes, and I will be watching  
20 the time to keep us moving along.

21 We'll call on the speakers in the order  
22 listed on the agenda, and we're going to start first  
23 with Tom Lockley at Grey Owl Audio.

24 So, if, Tom, you're on, you can get started.

25 MR. LOCKLEY: Awesome.

1           So, before I start speaking, I would just  
2           like to thank USCO as well as the panelists for coming  
3           here today and speak on this issue. AI and its role  
4           in art is a deeply complex issue, and it's good to  
5           hear from all stakeholders involved.

6           My name is Tom. I'm a YouTuber, writer,  
7           educator, and investor. Over the past year, I've had  
8           the chance to participate in a number of AI art  
9           communities, including Midjourney and Stable  
10          Diffusion. I've also created an essay called *The*  
11          *Defense of AI in the Artistic Fields* in which I  
12          explore technologies like diffusion models and CLIP,  
13          along with the surrounding regulatory contexts  
14          involving them.

15          In my time here today, I'd like to share an  
16          adjacent though nonetheless important thought. AI is  
17          a powerful tool for equity and expression in the arts.  
18          Creators who lack access to expensive tools in studios  
19          or who are unable to produce art in a traditional  
20          manner due to illness or disability can rely on AI to  
21          provide alternate and often more manageable forms of  
22          expression.

23          I would know. Something I didn't mention in  
24          my introduction is that I have ulcerative colitis, a  
25          disease in which a person's immune system attacks



1 their digestive tract. This can put me out of action  
2 anywhere from weeks to months. It also manifests in  
3 other ways, from joint pain to a sometimes  
4 insurmountable fatigue. I can get around half the  
5 issue with tools like scheduled posts and videos, but  
6 AI fills the other half. I use it for thumbnails,  
7 book covers, character concept art, and branding. Yet  
8 the amount of human direction that goes into my work  
9 shouldn't be discounted. The process does not end  
10 with one prompt, and it can take anywhere from hours  
11 to days for me to make a piece that matches or evolves  
12 from the initial vision I had for it.

13 I'm not alone in this. In conducting  
14 research for my essay, I had the pleasure of speaking  
15 with a number of creators who work through their  
16 disabilities via AI, some of them for love of the  
17 field, while others use their art to generate income.  
18 This regulation of this nascent community can lead to  
19 damaging outcomes for those who participate in it. A  
20 lack of protection for AI artists unfairly penalizes  
21 them by opening the door to infringement and art theft  
22 by larger players who have both financial means and  
23 business motivations to lock up the industry in their  
24 favor.

25 Regardless of the outcome of today's

1 conversation, lessons we take from it and the  
2 precedents that we eventually set will come to define  
3 the next several decades. Let's get it right and make  
4 a system that works for all types of creators.

5 Thank you.

6 MS. MANGUM: Thank you, Tom. We really  
7 appreciate your comments and your perspective. That  
8 was really interesting.

9 Next, we've got Matthew Cunningham from  
10 Cunningham Concept Design.

11 Matthew, you're on.

12 MR. CUNNINGHAM: Hi there. Thanks,  
13 everyone, for having me and thanks for the great  
14 presentation so far. It's been really enlightening  
15 listening to everybody's angle on the whole thing.

16 My background, I'm a concept designer in the  
17 feature film and television industry. You may know my  
18 work from shows like *Star Trek: Picard*, Season 3,  
19 Amazon's *Citadel* that just recently was released, as  
20 well as a couple of *Godzilla* movies. I also work as a  
21 car designer for companies like BMW, Toyota, Hyundai,  
22 you name it. And I'm a former labor union leader with  
23 the Art Directors Guild. And I also teach design at  
24 the Art Center College of Design in Pasadena, which is  
25 the top design school in the world arguably.

1           My reason for being here is I'm part of a  
2 larger coalition based in Los Angeles, and what our  
3 concerns are fundamentally have to do with the  
4 copyright violations that are being employed by  
5 certain companies who are scraping the data and  
6 identity of artists. My concern is multi-pronged but  
7 I would say primarily is for the artists who are  
8 immediately being impacted economically, but also for  
9 successive generations of artists and also for the  
10 generations of past artists, where I think quite a lot  
11 has been discussed regarding the ability to imitate  
12 the style of artists.

13           This has very immediate economic impact, but  
14 I think also, through the historical lens, going back  
15 and, you know, if you visit a museum, you'll see some  
16 works of artists that are quite prominent, but these  
17 might become muddy waters in due time given enough of  
18 an evolution with the technology.

19           So I'm just simply here to speak for artists  
20 in both organized labor, unofficially, but mostly for  
21 myself and my colleagues in the film industry.

22           MS. MANGUM: Well, thank you, Matthew. We  
23 appreciate you being here and for you sharing your  
24 thoughts.

25           Next, we have Brian Frye with the University

1 of Kentucky College of Law.

2 Brian?

3 MR. FRYE: Thank you for inviting me to  
4 speak. I'm Brian L. Frye, Spears-Gilbert Professor of  
5 Law at the University of Kentucky College of Law.

6 I think we're asking the wrong questions  
7 about AI and copyright. Everyone is asking whether a  
8 copyright protects AI-generated works and whether  
9 training an AI algorithm infringes copyright. The  
10 obvious answer is no and no. Copyright only protects  
11 works created by people. AI doesn't even create  
12 works. It generates content, which we consumers  
13 interpret as works.

14 Many years ago, Roland Barthes predicted the  
15 death of the author, and AI has written the author's  
16 obituary. Likewise, training an AI algorithm doesn't  
17 and shouldn't infringe copyright. AI algorithms don't  
18 copy works, they merely catalog rhetorical conventions  
19 and then deploy them to create conventional content.

20 We should be asking what AI can tell us  
21 about what copyright should protect and why.  
22 Copyright can only protect creative works, but courts  
23 and the Copyright Office have struggled to define  
24 creativity. Maybe AI can help.

25 An AI algorithm is essentially a nonsense

1 generator designed to produce banalities. In other  
2 words, AI is uncreative by design. An AI algorithm is  
3 a machine for regurgitating conventional wisdom.  
4 Indeed, we are amused when an AI hallucinates and  
5 fails to satisfy our pedestrian expectations. But we  
6 can be just as boring as any AI, and there's no point  
7 in copyright protecting banalities.

8           Maybe AI can help us limit copyright to  
9 works that are actually creative. It's easy, just ask  
10 AI to evaluate the creativity of works created by  
11 people to determine whether they deserve copyright.  
12 No one knows a fake like a faker, and AI is designed  
13 to identify banality. That's what makes it a killer  
14 app.

15           We don't know how to identify creativity,  
16 but AI can tell us what isn't creative, and maybe  
17 that's good enough to tell us what is creative, if  
18 anything.

19           Thanks again. I'm on Twitter @brianlfrye.

20           MS. MANGUM: Thank you, Brian. Really  
21 interesting comments, and thanks for the Twitter  
22 tagline. We appreciate that.

23           Next, we've got Nettrice Gaskins, who is a  
24 freelance artist.

25           MS. GASKINS: Thank you, and thanks for

1 having me.

2 In 2017, the Andy Warhol Foundation launched  
3 a preemptive lawsuit against photographer Lynn  
4 Goldsmith, who captured photos of the late musician  
5 Prince in 1981 for *Newsweek*. Warhol was later  
6 commissioned by *Vanity Fair* in 1984 to produce a pop  
7 art recreation of one of the images after licensing it  
8 for \$400. However, Warhol continued to use the image  
9 for his portfolio, taking his own spin on the original  
10 photo.

11 In response to being sued for her own  
12 copyrighted photograph, Goldsmith filed a countersuit,  
13 and she lost. New York State District Judge John G.  
14 Koeltl ruled in favor of the Warhol Foundation.  
15 Koeltl argued that though Warhol used Goldsmith's  
16 photograph as a reference image, he removed nearly all  
17 of the photograph's protectable elements. Thus,  
18 Warhol did not violate the photograph's copyright.

19 Like Warhol, my clients license images from  
20 -- for me to use as references for the creation of AI  
21 art. Mimicking these references is not a goal.  
22 Reimagining, recasting, remixing, and restyling them  
23 are.

24 My first commission was in 2019, and I've  
25 been using a variety of AI tools to make art since

1 2016, long before prompt-based tools. I use AI to  
2 produce variations on reference images, and I use text  
3 prompts with keywords that the AI recognizes in order  
4 to generate unique visuals. I use image editing  
5 software to revise visual elements as well as layer  
6 images I've done, and I've done this since the early  
7 1990s. Just one of my AI artworks merges multiple art  
8 styles and techniques, posing subjects in ways that go  
9 far beyond the original image references.

10 For me, as someone with a traditional fine  
11 arts background, AI broadens what is possible for  
12 artistic production, and these new tools have enabled  
13 me to become an art director, maker, and curator of my  
14 work. This puts me in a pipeline that previously  
15 excluded me. Thank you.

16 MS. MANGUM: Thank you, Nettrice. We  
17 appreciate you sharing your experience. Really  
18 interesting remarks.

19 Greg Hopwood was unable to join us, so we're  
20 going to skip right on to Phuc Pham from the Freelance  
21 Solidarity Project.

22 MR. PHAM: Hi, everyone. My name is Phuc,  
23 and I am here today to lay out my perspective as a  
24 photo editor and a photographer, as well as to  
25 represent conversations I've been having with

1 freelancers I organize alongside with in the Freelance  
2 Solidarity Project, which is the Digital Media  
3 Division of the National Writers Union.

4 Editors of born-digital works that are  
5 primarily distributed online, freelance digital  
6 content creators, not just those working in the visual  
7 arts space, like photographers, animators,  
8 illustrators, and graphic designers, but also in every  
9 other corner of the media industry, are among those  
10 the most likely to be impacted by generative AI  
11 technologies. And what I'd like to focus on during my  
12 time right now is just a simple example of, like, the  
13 sort of innumerable images that train these AI systems  
14 to generate their output.

15 You know, these companies that develop AI  
16 engines largely obscure details of how their  
17 technologies work. As such, it's nearly impossible  
18 for an individual artist to seek recompense for their  
19 copyrighted work showing up in these training data.

20 Those who wish to remove their images from  
21 these data sets have found tools such as "Have I Been  
22 Trained?" to even determine exactly which images were  
23 used to train these systems. You know, following that  
24 discovery, an artist would have to register their  
25 works in order to even defend a copyright claim. You



1 know, for example, a photographer whose digitally  
2 published works were scraped to train these systems,  
3 those works could number in the hundreds of thousands.  
4 And at \$55 to register 10 images, that quickly can  
5 become an exponential amount of money.

6 This process is not only economically  
7 draining, could be, but would also demand time and  
8 focus away from an artist who definitely won't have an  
9 entire corporate department to sort of support these  
10 copyright claims like you're seeing with, like, Getty  
11 Images or a lot of these other bigger outfits that  
12 are, you know, bringing forth lawsuits for this type  
13 of usage of their work.

14 And beyond the impracticality of defending  
15 individual copyright claims, as someone who works with  
16 photographers to commission original works and who  
17 organizes to improve industrywide working conditions,  
18 I'm simply disturbed, you know, by the implications of  
19 these systems and how quickly they are sort of can  
20 quickly replace the human spirit and the novelty that  
21 working artists bring to these types of works. It  
22 seems to me like an untenable future for visual  
23 artists who are born-digital and otherwise.

24 MS. MANGUM: Well, thank you. We appreciate  
25 your remarks. Really interesting.

1                   Next, we've got Ankit Sahn from Ajay Sahni  
2 Associates.

3                   Ankit?

4                   MR. SAHN: Thank you. Good afternoon,  
5 esteemed speakers and members of the United States  
6 Copyright Office.

7                   By way of an introduction, I'm Ankit Sahn.  
8 I'm an IP lawyer based in India. And I'm the owner of  
9 the RAGHAV AI painting tool. I filed what was perhaps  
10 the first application at the USCO and the CIPO in the  
11 Indian copyright office where a human and AI were  
12 identified as co-authors back in 2021. I'm grateful  
13 for the opportunity to present my views today.

14                   As we continue to rely on AI tools to  
15 produce works of art, music, literature, and other  
16 creative outputs, creators must be assured that their  
17 works will be protected under copyright law. Denying  
18 copyright protection to AI-generated outputs could  
19 result in a chilling effect on creativity and  
20 innovation.

21                   Just as when cameras were invented, humans  
22 moved up the value chain by becoming photographers,  
23 using AI-based tools to create demands human beings to  
24 move up the value chain once again. We must recognize  
25 the increasing role that AI is playing in the creative

1 processes across all industries while also  
2 acknowledging the value of human creativity and talent  
3 and thus maintaining that balance.

4 The definition of human creativity in the  
5 context of copyrightability, therefore, has to be  
6 reconsidered. Works created with the assistance of an  
7 AI-based tool could be considered as a separate  
8 category of copyright, perhaps with reduced duration  
9 and scope of protection to incentivize human effort  
10 and promote innovation.

11 As Mahatma Gandhi said, "The future depends  
12 on what we do in the present." Protecting AI-  
13 generated outputs under copyright law is a crucial  
14 step in this direction, and by providing necessary  
15 protection and recognition, we can continue to foster  
16 innovation, creativity, and ultimately benefit the  
17 creative industries, as well as creators of these AI-  
18 based tools.

19 If AI-assisted works are not protected, on  
20 the contrary, it could lead to creators suppressing  
21 the fact that they use the assistance of an AI tool to  
22 create a work, which would in turn be unfair to  
23 creators who have utilized AI tools to enhance their  
24 creative outputs and in any case would not be  
25 reflective of the correct factual position on the

1 copyright register on record.

2 Training on proprietary data, as many  
3 speakers pointed out today, is one of the key issues.  
4 Collective or possibly compulsory licensing of data  
5 could be explored as a possible solution.

6 In conclusion, copyright law must evolve  
7 with the times, recognizing the role that AI is  
8 playing in the creative industries. Protecting AI-  
9 generated outputs under copyright law, I believe, is a  
10 crucial step in this direction.

11 I am grateful once again for this  
12 opportunity. Thank you for your time and attention.

13 MS. MANGUM: Thank you, Ankit. We  
14 appreciate your remarks.

15 Next, we're going to move on to Jeffrey  
16 Sedlik from the PLUS Coalition.

17 MR. SEDLIK: Thank you.

18 MS. MANGUM: Jeffrey?

19 MR. SEDLIK: Thanks. Yes, I'm Jeff Sedlik.  
20 I'm President of the nonprofit PLUS Coalition at  
21 PLUS.org. We're currently collaborating with the IPTC  
22 on establishing metadata fields to communicate  
23 information about works that may incorporate AI and to  
24 provide for the expression of permissions and  
25 constraints on the use of AI or use of visual works

1 for AI training and for generative AI.

2 I'm also the former president of the  
3 American Photographic Artists and a photographer,  
4 filmmaker, and professor at the Art Center College of  
5 Design, where I teach copyright law and licensing.

6 Like other visual artists, copyright is at  
7 the core of my business. To sustain it and to support  
8 my family, I rely on revenue from licensing my works  
9 throughout the life of my copyrights. I offer  
10 licenses of my work to all manner of clients for all  
11 manner of media in all manner of purposes, including,  
12 importantly, artist reference use, the use of my works  
13 by other artists to adapt my work in new derivative  
14 works. The exclusive right to adapt a work is often  
15 overlooked but is, in fact, one of the core rights of  
16 copyright, no less important, no less critical than  
17 the exclusive right to reproduce, distribute, display,  
18 or perform a work.

19 The practice of offering, seeking, and  
20 granting artist reference licenses has been in broad  
21 use for more than a century, and the use of visual  
22 works as AI image prompts falls squarely within the  
23 definition of artist reference use. In fact, many of  
24 us have offered up our works for paid licensing for AI  
25 training and artist reference use in AI generative

1 works for years.

2           This fact, combined with the fact that many  
3 stock photo agencies are now routinely licensing their  
4 works for AI training, establishes that a marketplace  
5 for licensed use of visual works for AI training  
6 exists and is therefore usurped when works are used  
7 for AI training without authorization. Meanwhile,  
8 thousands of copies of my work are included in the  
9 LAION database and other databases of, collectively,  
10 billions of images used to train AI systems, many  
11 without attribution. The more I license my works, the  
12 more copies are included in the training sets, and the  
13 closer the appearance of generated AI works to my  
14 original creations. But, as a professional, I must  
15 license my work in order to sustain my business. It's  
16 a Hobson's choice.

17           Some suggest that contrary to the core  
18 provisions of copyright law, anything on the web is  
19 fair game and that if artists don't want their works  
20 used for AI training or image prompts, we should  
21 remove our works from the web. But the web is the  
22 primary medium for licensed use of our creations, and  
23 we necessarily depend on the web to monetize our  
24 works.

25           It's also very important to recognize that

1 many, perhaps the majority, of copies of our visual  
2 works displayed on the web are infringing copies made  
3 without our knowledge or permission. These infringing  
4 copies are then blindly scraped for inclusion in  
5 databases like LAION, which is arguably a database  
6 built on infringements.

7 MS. MANGUM: Jeff --

8 MR. SEDLIK: In addition, we must not forget  
9 that the widespread aggregation of visual works --

10 MS. MANGUM: I'm sorry. We're going to have  
11 to -- I'm going to have to interrupt. It's been a  
12 little over two minutes.

13 MR. SEDLIK: Okay.

14 MS. MANGUM: But feel free definitely to  
15 submit your remarks when there are opportunities later  
16 to do so. Thank you so much for coming.

17 MR. SEDLIK: No problem.

18 MS. MANGUM: Next, we're going to move on to  
19 Patricia Sigmon, who is an artist and art director.

20 MS. SIGMON: Thank you so much. My name is  
21 Patricia Sigmon, and I am a professional artist and  
22 art director who has primarily worked in 2D and 3D  
23 animation. I will be speaking on my personal  
24 experiences with AI-generated images and my concerns  
25 about how they have compromised the ability of artists

1 to retain work, as well as how those problems may  
2 multiply in the future without more regulation.

3 At a previous position as an art director,  
4 my team of artists realized that character design  
5 references we had been given were AI-generated.  
6 Company leaders did not consult me about the use of AI  
7 beforehand. The team came to me with several  
8 concerns, including fears about their jobs being  
9 replaced, ongoing legislation against AI, ethical  
10 concerns, and the poor quality of the images they were  
11 given. While AI-generated images seem like they would  
12 be an easy shortcut for gathering references, they  
13 often include nonsensical details that do not  
14 translate well to designed outfits in 3D models.

15 A major concern was also that work produced  
16 by artists for the company could be used to train AI  
17 without their consent. There has been ample evidence  
18 from previous panelists that the goal of many people  
19 who use this technology is to imitate the styles of  
20 existing artists. It is not a stretch to imagine that  
21 without legal guarantees against this, a company could  
22 hire artists, train AI with their work, and eventually  
23 use it as a replacement for them as the output quality  
24 improves.

25 I compiled all these concerns and statements



1 from the artists and brought them to the heads of the  
2 company. I was fired two days after that meeting.

3 I am part of the first wave of artists  
4 affected by major companies adopting AI image  
5 generators. My goal is not to totally disavow the use  
6 of this technology or prevent individuals from using  
7 it. I understand that the march of progress cannot be  
8 stopped and that AI image generators have uses outside  
9 a professional setting. The problem is that companies  
10 will always be more concerned with their bottom line  
11 than the people they employ. It is imperative to  
12 protect the ability of artists to earn a living from a  
13 craft that they've perfected through a lifetime of  
14 practice without that work being cannibalized.

15 Thank you for your time and for inviting me  
16 to this discussion. I think it's really important to  
17 have, and I've appreciated hearing everyone's  
18 perspectives.

19 MS. MANGUM: Thank you so much for sharing  
20 your experience with us, Patricia. We really  
21 appreciate it.

22 Last but not least, we've got Delanie West  
23 from Be Super Creative.

24 Delanie?

25 MS. WEST: Thank you, Patricia. Thank you

1 so much for that perspective. I appreciate you too.

2 Thanks for the invitation to share my  
3 perspective. I'm Delanie West, Founding Creative  
4 Director of Be Super Creative. I have 30 years  
5 experience in creative marketing, business, and brand  
6 development, and I've led creative and product  
7 development for U.S., European, and Japanese brands.  
8 I serve in a leadership capacity at Women in Toys,  
9 Licensing & Entertainment, as well as the Graphic  
10 Artists Guild, and other creative industry  
11 organizations, but the views I express today are my  
12 own. I'm here today to share a perspective of a small  
13 business owner doing the work of developing creative  
14 for product development.

15 As a value creator who celebrates this new  
16 technology, I'm also concerned about the impact of AI  
17 on consent, credit, and compensation. AI can  
18 revolutionize the creative process, but we must ensure  
19 ethical methods to generate outputs that respect  
20 intellectual property and current law.

21 I've long worked aside legal IP counsel to  
22 protect and defend copyright and patents, and the same  
23 process is necessary for ethical AI implementation. I  
24 ask that we embrace AI while being mindful of ethical  
25 considerations and adhere to the current and future

1 intellectual property laws.

2 The use of AI in product development has  
3 tremendous potential for boosting creativity and  
4 productivity, but we must approach it with care and  
5 responsibility to ensure practice for consent, credit,  
6 and compensation.

7 In summary, AI has been a game changer for  
8 product development timelines for me, but we creators  
9 need the guardrails that enable users to respect the  
10 rights of all parties involved. Thank you.

11 MS. MANGUM: Thank you so much. We really  
12 appreciate everyone who shared their perspective and  
13 their experience.

14 I'm going to turn it over to Mark to close  
15 us out.

16 MR. GRAY: Thank you very much, Jalyce.

17 And to echo Jalyce's remarks, we truly do  
18 appreciate, both I, as well as the rest of my  
19 colleagues here in the U.S. Copyright Office, we do  
20 appreciate you taking the time to talk to us today and  
21 to share all of this information. Of course, we're  
22 going to continue to think about all of these issues  
23 and all of the things that you've told us as we work  
24 on our initiative examining issues of copyright law  
25 and policy and the intersection with artificial

1 intelligence technology.

2           So looking forward, we have two more  
3 listening sessions on the calendar. Our next session  
4 is on Wednesday, May 17, which will be focused on  
5 audiovisual works, including movies and video games.  
6 Our final session is going to be on May 31, focused on  
7 musical works and sound recordings. The audiovisual  
8 session, unfortunately, is no longer accepting  
9 signups. We are wrapping up the selections for those  
10 panels now. The music session remains open until  
11 May 10. So, if you are interested in speaking about  
12 musical works or sound recordings, you can find more  
13 information on our website at [copyright.gov/ai](http://copyright.gov/ai).

14           As a reminder, we will be making video  
15 recordings of this and of the other sessions available  
16 to the public on our website. We're aiming for about  
17 a three-week turnaround on those.

18           And, as we've said before and as we will  
19 continue to remind people, this is not the final word.  
20 This is not the final chance to speak to us. There  
21 are many more chances coming down in the future. We  
22 look forward to hearing from you and thank you very  
23 much for spending your time with us today. Thank you.

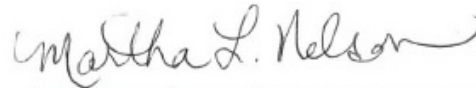
24           (Whereupon, at 4:00 p.m., the listening  
25 session in the above-entitled matter adjourned.)

CERTIFICATE

CASE TITLE: Copyright and Artificial Intelligence  
Visual Arts Listening Session  
HEARING DATE: May 2, 2023  
LOCATION: Washington, D.C.

I hereby certify that the proceedings and evidence are contained fully and accurately on the tapes and notes reported by me at the hearing in the above case before the Library of Congress, U.S. Copyright Office.

Date: May 2, 2023



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