

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

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LISTENING SESSION)
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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

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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

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, 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.

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.

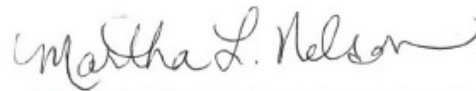
24 (Whereupon, at 4:00 p.m., the listening
25 session in the above-entitled matter adjourned.)

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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