

TRANSCRIPT OF PROCEEDINGS

In the Matter of,)
)
COPYRIGHT AND ARTIFICIAL)
INTELLIGENCE LITERARY WORKS,)
INCLUDING SOFTWARE, LISTENING)
SESSION)

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INTELLIGENCE LITERARY WORKS,)
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SESSION)

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

Wednesday,
April 19, 2023

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

ATTENDEES:

ANDREW FOGLIA, U.S. Copyright Office
MARK GRAY, U.S. Copyright Office
SHIRA PERLMUTTER, U.S. Copyright Office
JENÉE IYER, U.S. Copyright Office
RACHEL BROOKE, Authors Alliance
ALI STERNBURG, Computer and Communications
Industry Association
KEITH KUPFERSCHMID, Copyright Alliance
MATTHEW SAG, Emory University
LEIGH HENNIG, Humanity in Fiction
JOHNATHAN BAND, Library Copyright Alliance
JULE SIGALL, Microsoft
EDWARD HASBROUCK, National Writers Union
MARY RASENBERGER, The Authors Guild
CHRIS CALLISON-BURCH, University of Pennsylvania
HEATHER WALTERS, U.S. Copyright Office
BRANDY KARL, U.S. Copyright Office
KEYANA A. PUSEY, U.S. Copyright Office
SY DAMLE, Andreessen Horowitz
TERRY HART, Association of American Publishers
TRACY CHABALA, Author
CATHERINE ZALLER ROWLAND, Copyright Clearance
Center
DEREK SLATER, Creative Commons
PETER ROUTHIER, Internet Archive
ATTENDEES: (Cont'd.)

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CYNTHIA ARATO, News Media Alliance
BETSY ROSENBLATT, Organization for Transformative
Works
CHRIS MOHR, Software & Information Industry
Association
MEHTAB KHAN, Yale Law School

P R O C E E D I N G S

(1:00 p.m.)

1
2
3 MR. FOGLIA: Hello, everyone, and thank you
4 for joining us for the U.S. Copyright Office's
5 Listening Session on AI and Literary Works. I'm
6 Andrew Foglia, Deputy Director of Policy and
7 International Affairs. My co-host today is Assistant
8 General Counsel Mark Gray, and we will be joined by
9 other moderators. But, to kick off today's listening
10 session, it is my pleasure to introduce Shira
11 Perlmutter, Register of Copyrights and Director of the
12 U.S. Copyright Office.

13 MS. PERLMUTTER: Welcome to the Copyright
14 Office's Listening Session on AI and Literary Works,
15 Including Software and Print Journalism. This is the
16 first of four listening sessions we're holding this
17 spring all focused on the copyright law and policy
18 issues arising from the training and use of artificial
19 intelligence.

20 As you know, AI developments are rapid and
21 are now reported in the mainstream media virtually
22 every day. Everyone is talking about the astonishing
23 capabilities and potential ramifications of the newest
24 generative AI and what it will mean for society, and
25 copyright is an important part. How does current law

1 apply? Should it be changed? And how will the
2 copyright community, from creators to users, be
3 impacted?

4 The Copyright Office has a role to play both
5 in addressing practical concerns and in advising on
6 policy. Our listening sessions are part of a larger
7 AI initiative that will continue well beyond this
8 spring. We're analyzing the issues, helping claimants
9 in registering works that incorporate AI-generated
10 material, and establishing a process for gathering
11 information to guide future policy decisions.

12 Today's session focuses on literary works,
13 and we've seen the remarkable texts that large
14 language models or coding assistants can produce and
15 heard concerns from journalists, authors, and
16 publishers about what the training and deployment of
17 AI will mean for their industries.

18 There was tremendous public interest in
19 participating in today's session, and we have more
20 than a thousand registered online. Unfortunately, we
21 weren't able to accommodate all of the requests to
22 speak, but this isn't the last chance to share your
23 views on AI with the Copyright Office. There are the
24 three additional listening sessions, and we will be
25 soliciting written input in the coming months. We

1 encourage everyone who's interested to submit
2 comments.

3 Let me thank our panelists in advance for
4 contributing to today's conversation. This is a
5 complex topic and a deeply important and personal one
6 for our participants, whether they're users or
7 developers of AI technology, artists whose work helps
8 train that technology, or creators contemplating how
9 AI will affect their careers. Each of your
10 perspectives is critical in informing sound public
11 policy, and we look forward to an enlightening
12 discussion.

13 So let me now turn the proceedings back over
14 to Andrew.

15 MR. FOGLIA: Thanks, Shira.

16 As Shira mentioned, today's listening
17 session is the first in a series of AI listening
18 sessions that the Office has scheduled over the next
19 six weeks. Future sessions will have different
20 topics, different panels, different formats. On
21 May 2, we'll be hosting a listening session on AI and
22 visual art. On May 17, AI and audiovisual works,
23 including movies and video game. And our final
24 session on May 31 will be about AI and music and sound
25 recordings. You can sign up to attend these sessions

1 at copyright.gov/AI, and speaker registration remains
2 open for the last two sessions.

3 These listening sessions are going to inform
4 further steps in the Office's AI initiative.
5 Questions our panelists raise may be ones on which we
6 seek written comments later this year. So please take
7 note that in addition to the folks you see on camera
8 today, the whole Copyright Office is listening.

9 With that, I'll turn it over to Mark Gray
10 for some housekeeping.

11 MR. GRAY: Thank you very much, Andrew.

12 Hi, everyone. Before we get started, I just
13 have a few housekeeping notes for everyone. First,
14 for those of us who are joining as panelists but not
15 in this first session, please keep your camera turned
16 off and your microphone off until your session begins.
17 Likewise, for those in this first session, once we
18 change sessions after the break, please do the same as
19 well so everyone on screen is someone actively
20 speaking.

21 Second of all, for those of you in the
22 audience, we are recording this session today. This
23 will be available on our website in a few weeks, so
24 please stay tuned. There will be a recording that
25 lives at this event later in the past. And for those

1 of you who are interested in captions, we have
2 activated Zoom's transcription function for today.

3 So today's panels are going to start with a
4 brief introduction and short statement by each
5 participant if that participant wants. We'd like to
6 ask everyone to limit your statements to three
7 minutes. We will have moderators watching the time.

8 Once the introductions are completed, we
9 will have a moderated listening session. There are
10 some questions from the moderators that the panelists
11 have received in advance. Those are intended only to
12 guide and to spark discussion, but we welcome
13 participants to share any relevant perspectives or
14 experience that they think is important for the Office
15 to hear.

16 And so, with that, I will hand it over to
17 our moderators for the first session, which are my
18 colleagues, Jenée Iyer and Heather Walters. Jenee is
19 a counsel in our Office of Policy and International
20 Affairs, and Heather is our Barbara A. Ringer Fellow.

21 Jenée, the mic is yours.

22 MS. IYER: Thank you so much, Mark.

23 And welcome again, everyone. So we will
24 begin our introductions in the order that is stated on
25 the agenda, so with that, Authors Alliance, would you

1 like to go first and introduce yourself?

2 MS. BROOKE: Thank you. Good afternoon,
3 everyone. My name is Rachel Brooke, and I'm a senior
4 staff attorney with Authors Alliance, a nonprofit
5 membership-based organization that exists to advance
6 the interests of authors who want to serve the public
7 good by sharing their creations broadly.

8 Today, I'd like to emphasize the potential
9 for generative AI programs to support authorship by
10 first increasing efficiency in some of the practical
11 aspects of being a working author and, second and more
12 importantly, by aiding in the creation of new works of
13 authorship.

14 In the first category, generative AI
15 programs can support authors by, for example, helping
16 them create text for pitch letters, produce copy for
17 their professional websites, and develop marketing
18 strategies. Making these activities more efficient
19 frees up time for authors to focus on their writing.

20 In the second category, generative AI has
21 tremendous potential to help authors come up with new
22 ideas, develop characters, summarize their writings,
23 and perform early-stage edits to manuscripts.

24 Moreover, and particularly for academic authors,
25 generative AI can be an effective research tool for

1 authors seeking to learn from a large corpus of texts.

2 These programs undoubtedly have the
3 potential to serve as powerful creative tools that
4 support authorship in these ways and more, but it's
5 important to remember just how new these technologies
6 are, and because generative AI remains in its infancy
7 and the costs and benefits for different segments of
8 the creative industry have yet to be seen, in our
9 view, it is sensible to preserve the development of
10 these tools before crafting legal solutions to
11 problems they might pose.

12 In fact, Copyright already has the tools to
13 deal with many of the issues we'll speak about today.
14 When generative AI outputs look too much like the
15 copyrighted inputs that they're trained on, a
16 substantial similarity test can be used to assess
17 claims of copyright infringement to vindicate authors'
18 exclusive rights in their works. In any case, in
19 order for generative AI programs to be effective
20 creative tools, it's necessary that they are trained
21 on large corpora. The holdings in Google Books and
22 HathiTrust indicate that it's consistent with their
23 use to build a large corpus of works, including works
24 protected by copyright, for research purposes.

25 And the question of the copyright status of

1 text created by generative AI programs is an important
2 one. Authors Alliance agrees with the Copyright
3 Office's recent guidance regarding registration of AI-
4 generated works, and we believe that under ordinary
5 copyright principles, the lack of human authorship
6 means these texts are not protected by copyright.

7 This being said, we do recognize that there
8 may be challenges in reconciling existing copyright
9 principles with these new types of works, but, again,
10 while this technology is still in its early stages, it
11 serves the core purpose of copyright, incentivizing
12 creativity and furthering the progress of science and
13 useful arts to allow these systems to develop and
14 confront new legal challenges as they emerge. Thank
15 you.

16 MS. IYER: Thank you very much.

17 And CCIA?

18 MS. STERNBURG: Hi. My name is Ali
19 Sternburg, and I'm Vice President of Information
20 Policy at the Computer and Communications Industry
21 Association, CCIA, a more than 50-year-old nonprofit
22 trade association of internet and technology
23 companies.

24 CCIA, our members, and their users have a
25 significant interest in ensuring that new and emerging

1 types of AI-related creativity and technology are
2 fostered rather than hindered by the U.S. copyright
3 system. Courts have regularly and successfully
4 applied longstanding technology-neutral copyright
5 precedent to new technology, ensuring that progress is
6 promoted and not stifled, consistent with the purpose
7 of copyright law.

8 Settled copyright doctrines like fair use,
9 substantial similarity, and authorship are well-
10 balanced and flexible enough to keep up with new
11 innovation and technology. Attempts to regulate these
12 technologies in their very early stages could have
13 significant negative impacts on beneficial tools and
14 models that are important for a variety of use cases,
15 use cases like public health or other societal
16 challenges.

17 I look forward to a productive discussion
18 today to discuss the benefits of AI tools and
19 applicability of existing copyright law and policy.
20 Thanks so much.

21 MS. IYER: Thank you.

22 And Copyright Alliance.

23 MR. KUPFERSCHMID: Thank you. My name is
24 Keith Kupferschmid. I am CEO of the Copyright
25 Alliance. The Copyright Alliance represents the

1 copyright interests of individual creators and
2 organizations across the spectrum of copyright
3 disciplines. What unites our members is their
4 reliance on copyright law to protect their rights in
5 the creation and dissemination of copyrighted work for
6 the public to enjoy, and the copyright law is critical
7 not only to their success and prosperity but also to
8 the short- and long-term success of the U.S. economy.

9 For my members, there is no bigger copyright
10 issue these days than the impact of artificial
11 intelligence. Every single one of my members is
12 interested and concerned about AI's impact on
13 copyright.

14 Now let me begin by making clear that the
15 Copyright Alliance supports the responsible and
16 ethical advancement of AI technology. Many in the
17 creative industry are already using or planning to use
18 AI for the creation of a wide range of works that
19 benefits society.

20 As with many advances in technology, new
21 opportunities also come with new challenges.
22 Advancements in AI have led to difficult legal
23 questions surrounding the ingestion of copyrighted
24 works into AI systems, legal liability for infringing
25 outputs, and the copyrightability of the output. As

1 AI technology continues to evolve and questions arise
2 about how copyright laws apply to the creation of AI-
3 generated works, it's critical that when the Copyright
4 Office makes determinations about AI policies, that
5 the underlying goals and purposes of our copyright
6 system are upheld and that the rights of creators and
7 copyright owners are respected.

8 The interests of those using copyrighted
9 materials for AI ingestion purposes must not be
10 prioritized over the rights and interests of creators
11 and copyright owners. Small- and large-scale creators
12 produce high-quality works. These works are often
13 ideal for ingestion by AI machines to generate output
14 because of that high quality, and that is why AI
15 developers want to use and copy them. So it should
16 come as no surprise that there's already a high demand
17 for large amounts of copyrighted work for AI ingestion
18 purposes. Importantly, copyright owners are meeting
19 those demands by entering into voluntary license
20 agreements for TDM use.

21 However, both small and large creators face
22 significant risk of being harmed when their works are
23 copied without their authority for ingestion purposes.
24 In particular, individual creators, who have little to
25 no negotiating power with AI system developers, are

1 most at risk of such harms. All these issues are
2 playing out in real time in other fora. There are
3 numerous court cases pending that will shape how
4 copyright law applies to AI, and many federal
5 agencies, and, of course, the U.S. Copyright Office
6 are also reviewing these issues.

7 These cases and these reviews are in their
8 very early stages, so at this stage, we should all
9 proceed cautiously and thoughtfully and let our
10 guiding principle be one of respect for creators'
11 rights and longstanding principles of copyright law.
12 Thank you very much.

13 MS. IYER: Thank you.

14 And from Emory University, Matthew Sag.

15 MR. SAG: Hi, everyone. Thanks for the
16 Copyright Office for organizing this. So I really
17 appreciate this opportunity. My name's Matthew Sag.
18 I'm a professor of artificial -- sorry, a professor of
19 law in artificial intelligence, data science, and
20 machine learning. I just want to make a few quick
21 points.

22 This technology is new and exciting, but
23 many of the legal issues are not new. The test for
24 infringement is copying in fact and substantial
25 similarity, and that remains the same no matter how a

1 work is created.

2 The copying required to collect the training
3 data for these large language models is a classic form
4 of non-expressive use that was upheld as fair use in
5 iParadigms, Google Books, and, of course, HathiTrust.
6 What's different is that it's possible that because of
7 the size of large language models being used for
8 generative AI that they can actually memorize the
9 training data sufficiently to produce infringing
10 works. That is a really interesting and important
11 development.

12 What I propose is a constructive role for
13 the Copyright Office not in rewriting existing
14 copyright law but in promulgating best standards or
15 best practices very much modeled on the fair use best
16 practices which have been so successful. These best
17 practices would give guidance to people training large
18 language models, and they'd be focused on ways to
19 avoid infringing output.

20 I'm going to be developing these things in a
21 forthcoming paper, but I would just say quickly, you
22 know, there are basic steps about de-duplication,
23 about abstracting key words and tags, about
24 controlling the ratio of the training data to the
25 model size that will have a very important effect on

1 the likelihood that these models actually in the wild
2 generate infringing works, and, for me, I think that's
3 where our attention should be focused, and I think
4 there's a good opportunity for the Copyright Office to
5 play an information leadership role here, and I look
6 forward to your comments. Thank you very much.

7 MS. IYER: Thank you.

8 And Humanity in Fiction.

9 MR. HENNIG: Hi. My name is Leigh Hennig.
10 I'm speaking on behalf of Humanity in Fiction as the
11 founder. We are an open advocacy group of authors,
12 editors, publishers, academics, and others concerned
13 with the ethical development of AI in creative spaces.
14 I'm a published author, and I've spent much of my
15 career working with automation at scale from the
16 technology side. I'm also deeply involved and
17 embedded with the speculative fiction-writing
18 communities and have a keen understanding and
19 awareness of the concerns within those communities as
20 they relate to AI-generative text, such as chatGPT and
21 GPT-4.

22 We recognize a number of ways in which AI
23 can benefit our creative processes, such as with world
24 building, character creation, with prompts to help
25 move past creative log jams that everyone knows as

1 writer's block, and we're certain that there will be
2 other additional creative uses for these tools.

3 We want to be clear that we don't see AI
4 generative text as an enemy or a threat provided that
5 its development is seen in a responsible and ethical
6 manner. Like the invention of the camera and the
7 impact it had on painters and illustrators, we think
8 that AI can and should have a place in our creative
9 processes.

10 President Biden recently called on tech
11 companies to ensure their products are safe before
12 making them public, using social media as an example
13 of "the harm that powerful technologies can do without
14 the right safeguards in place." The President, we
15 believe, was as right as he was wrong. Without the
16 right safeguards, this kind of technology has the
17 potential for great harm. But it's not companies that
18 we should be calling on for implementing safeguards.
19 It's our regulatory bodies.

20 Corporations will not prioritize making
21 their products safe. They will prioritize what will
22 make money, as they have always done. If that happens
23 to align with a public benefit, then fantastic. But
24 what we need is thoughtful regulation considering the
25 voices of artists and publishers, who are often seen

1 as very small and overridden in many of these
2 discussions, and we need to consider everybody that
3 lacks the powerful of -- excuse me, lacks the powerful
4 lobbying arms behind them.

5 We don't fear that -- we don't feel that
6 this is anti-corporate fear-mongering, and according
7 to a report published on March 14 by the tech journal,
8 *Ars Technica*, an entire team responsible for making
9 sure that Microsoft's AI products are shipped with
10 safeguards to mitigate social harms was eliminated.
11 This has raised alarms within communities that follow
12 such ethical developments, such as Emily Bender, a
13 University of Washington expert on computational
14 linguistics and ethical issues in natural language
15 processing, which the report goes on to quote.

16 Twelve months ago, chatGPT was not part of
17 our public discourse in the way that it is today. The
18 velocity of innovation is as astounding and exciting
19 as it is concerning, and we applaud the early
20 attention given to this technology by the U.S.
21 Copyright Office and the other organizations
22 represented here today. We further encourage --

23 MS. IYER: Thank you, and at that, I'm going
24 to have to pause as we hit the three-minute mark.

25 MR. HENNIG: Apologies.

1 MS. IYER: Thank you, and we look forward to
2 hearing more from you during the discussion sessions.

3 Library Copyright Alliance, please.

4 MR. BAND: Thank you very much. I'm
5 Johnathan Band. I represent the Library Copyright
6 Alliance, which includes the American Library
7 Association and the Association of Research Libraries.

8 So I just have four brief points. First,
9 generative AI promises to be an amazing research tool
10 of great benefit to librarians, students, academics,
11 and all kinds of other creators, including, of great
12 relevance to this group, lawyers.

13 Two, generative AI poses interesting
14 copyright issues, but the U.S. copyright framework is
15 flexible and robust enough to address these issues
16 and, as others have mentioned, it is already in the
17 process of doing so.

18 Three, because of the enormous benefits of
19 generative AI to creators and users alike, the courts
20 and the Copyright Office should apply existing
21 doctrines in a generous manner so as to foster the
22 growth of AI, in other words, to foster it and not
23 erect roadblocks.

24 And, finally, a discussion of copyright
25 legislation relating to AI is premature. We are in

1 the early days of AI, and the problems that may arise
2 in the future are completely speculative. Thank you
3 very much.

4 MS. IYER: Thank you.

5 And Microsoft.

6 MR. SIGALL: Thank you. My name is Jule
7 Sigall, and I am Associate General Counsel at
8 Microsoft. Thank you for affording us the opportunity
9 to participate in these listening sessions. The
10 Copyright Office should be commended for convening
11 these sessions and exploring these timely and
12 important topics. I'd like to make some observations
13 about AI and mention some principles that we at
14 Microsoft are using to consider the issues raised by
15 AI on copyright.

16 The first observation, AI may well represent
17 the most consequential technology advance of our
18 lifetime. Today's cutting-edge AI is a powerful tool
19 for advancing critical thinking and stimulating
20 creative expression. It makes it possible not only to
21 search for information but to seek answers to
22 questions. It makes it easier for us to express what
23 we learn more quickly. In the words of the copyright
24 clause, it has the potential to "promote the progress
25 of science, the spread of knowledge, to more people

1 and in more useful ways than ever before."

2 Second, the new generative AI tools are
3 being adopted very quickly by hundreds of millions of
4 people worldwide. Practically every corner of work
5 and play is figuring out how AI can help improve the
6 way we get things done, and all of this change is
7 occurring at a rapid pace.

8 Third, authors and creators are also
9 adopting these new technologies in their expressive
10 work in all fields of creativity. In particular, the
11 new generative AI tools offer individual creators the
12 ability to express themselves in ways they could not
13 before and are opening up creative expression to
14 people who might have never thought of themselves as
15 creators without this technology.

16 Finally, at Microsoft, we use the metaphor
17 of co-pilot for these new AI technologies. They will
18 sit alongside a human to help them create, analyze,
19 learn, and understand, and a human will remain at the
20 center of that activity.

21 Of course, such rapid change raises many
22 questions about the impact of AI, especially in the
23 copyright communities. Microsoft is committed to
24 building and using AI in a responsible and ethical
25 way. Here are some principles that we use at

1 Microsoft when thinking about AI and copyright.

2 First, AI tools and users must respect
3 copyright. Authors and creators have the rights
4 afforded to them by copyright and other IP laws, and
5 these laws must be respected when developing AI and AI
6 applications.

7 Second, the public has the right to extract
8 knowledge from copyrighted works, to read, to learn,
9 to understand, and to develop ways to create new
10 works. The public also has the right to use new
11 technologies like AI to develop and advance their
12 knowledge.

13 Third, AI tools must benefit society
14 broadly, not narrowly. The economic benefits of AI
15 should be broad and inclusive, and authors and
16 creators should meaningfully participate in them. For
17 example, creators should be able to use AI to help
18 them create new works and should receive copyright
19 protections for works created using new technologies.

20 These principles can be in tension with each
21 other, especially where the new technologies change
22 the status quo, but it's important that copyright law
23 and policy be interpreted and developed to promote
24 each of them as much as possible. Microsoft is
25 committed to forming new and deeper partnerships with

1 the creative communities, civil society, academia,
2 governments, and industry to make progress in that
3 development. Thank you.

4 MS. IYER: Thank you very much.

5 And the National Writers Union.

6 MR. HASBROUCK: Thank you. My name is
7 Edward Hasbrouck. I'm a freelance and self-published
8 independent journalist, book author, and web content
9 creator. I'm speaking as a member and volunteer for
10 the National Writers Union, which includes writers in
11 all genres and media. The NWU's digital media
12 division, the Freelance Solidarity Project, who you
13 may hear from at later sessions, also includes
14 creators of digital graphics, audio, and video.

15 Our members have created works which have
16 been scraped from the internet, copied, and used for
17 training generative AI without permission or payment
18 and without respect for our moral rights. The NWU
19 sees (1) moral rights, (2) the right to organizing and
20 collective bargaining for freelance and self-published
21 creators, and (3) feasible and affordable registration
22 of web content as prerequisites for protection of our
23 rights as creators of works used to train generative
24 AI.

25 Training of AI language models begins with

1 copying, which we believe has infringed our copyrights
2 and has already deprived us of hundreds of millions of
3 dollars in rightful revenues. The additional
4 violation of our moral right of attribution makes it
5 impossible to tell which of our works have been copied
6 to train AI and thus frustrates redress for either the
7 economic infringement or the violation of our moral
8 right to object to use of our work to train AI to
9 generate prejudicial content.

10 Even if copying of our work to train AI is
11 fair use, we have the moral rights to attribution and
12 to object to prejudicial use of our work. Congress
13 need not wait for courts to resolve any doubt as to
14 whether copying for AI training is fair use to create
15 a means of redress for the massive ongoing violations
16 of our moral rights. Generative AI reinforces the
17 urgent need and treaty obligation for Congress to
18 enact effective protection for our moral rights.

19 As for our economic rights, payments to
20 authors are likely to require collective licensing,
21 but the ability of millions of freelance and self-
22 published creators whose work is used to train AI to
23 bargain collectively with billion-dollar AI companies
24 depends on our ability to organize and act
25 collectively, which is significantly deterred by fear

1 that organizing by freelancers and self-publishers
2 might be held to be an antitrust violation.

3 Congress could best facilitate organizing,
4 collective bargaining, and collective licensing for AI
5 training by explicitly clarifying the right of
6 freelancers and self-publishers to organize and act
7 collectively as workers, including but not limited to
8 collective bargaining over the terms of collective
9 licenses. We should not have to fear that we will be
10 accused of violating antitrust laws if we seek to
11 organize and act together to exercise our rights as
12 writers and digital media workers. Thank you, and I
13 look forward to addressing your questions.

14 MS. IYER: Thank you.

15 And The Authors Guild, please.

16 MS. RASENBERGER: Thank you. Hi. I am Mary
17 Rasenberger. I'm CEO of The Authors Guild, the
18 largest and oldest organization for professional
19 writers in the country, with over 13,000 members and
20 growing. Our members include all kinds of
21 journalists, of book authors. They write virtually
22 every kind of book you can think of both traditionally
23 and self-published. Our mission, together with our
24 foundation, is to protect the precarious profession of
25 writing in order to protect our literary culture.

1 We recently conducted a survey of our
2 members and of some other organizations on how authors
3 are using generative AI today and also the
4 ramifications that they think AI will have for their
5 work and the writing profession. We received over
6 1700 responses. I will talk about that a little bit
7 today. About a quarter already use AI in some
8 capacity to help them in their writing and they find
9 these tools very helpful. Very few, very, very few,
10 however, only seven out of 1700, use AI-generated text
11 in any meaningful capacity in their final published
12 work.

13 I do want to say that we believe that AI
14 technology can help more people write and all writers
15 write better, including writers who suffer from
16 disabilities, and this is fantastic. But we do need
17 some very important guardrails put into place. We
18 agree with the Copyright Office that it is important
19 to not provide copyright to AI-generated work or
20 elements of a work because doing so will incentivize
21 the use of generative AI to replacing writers, and as
22 a result, AI-generated works will flood the market,
23 devaluing human-created works. Publishers and writers
24 will feel compelled to turn to generative AI to
25 produce texts to remain competitive because of the

1 speed and low cost of producing them, but AI-generated
2 writing will never be able to replace human thought in
3 writing, so let's not let that happen.

4 Also, the Authors Guild is in the middle of
5 our periodic income survey, which was sent to over
6 200,000 writers in the U.S. We have almost 6,000
7 complete responses so far. Close to 90 percent of
8 those authors said they believe they should be
9 compensated for the use of their works to train
10 generative AI, and of the other 10 percent, most of
11 them did not know. I will discuss today the need for
12 collective licensing to enable that. Writers need to
13 be compensated for the use of their work. And I just
14 want to also mention that I agree with everything that
15 Edward just said and won't repeat any of it.

16 We also learned that --

17 MS. IYER: Thank you.

18 MS. RASENBERGER: -- most writers fear that
19 AI --

20 MS. IYER: Thank you very much. Ms.
21 Rasenberger, I'm going to pause you right there --

22 MS. RASENBERGER: Yeah.

23 MS. IYER: -- because we're at the three-
24 minute mark.

25 MS. RASENBERGER: Okay.

1 MS. IYER: And I'm going to welcome our last
2 panelists to introduce themselves from the University
3 of Pennsylvania.

4 MR. CALLISON-BURCH: Hi, everyone. My name
5 is Chris Callison-Burch. I'm an Associate Professor
6 of Computer and Information Science at the University
7 of Pennsylvania. I've been working in the field of
8 natural language processing, which is the sub-field of
9 AI that's most relevant for these generative
10 technologies, for more than 20 years. I have more
11 than a hundred publications in the area that have been
12 cited 20,000 times. At the University of
13 Pennsylvania, I teach courses in artificial
14 intelligence, natural language processing, and a
15 seminar course on interactive fiction and text
16 generation.

17 I've been using large language models and
18 GPT in particular since June of 2021, when I had early
19 access to the open AI API. My most recent Ph.D.
20 student, Daphne Ippolito, did her Ph.D. thesis focused
21 on creative writing applications of large language
22 models. During her Ph.D., she worked at Google Brain
23 in the Magenta Group, which is focused on creative
24 applications of AI technologies for things like
25 creating writing and music generation.

1 So, with respect to copyright and artificial
2 intelligence, I think there are two distinct cases
3 that the Copyright Office should consider giving
4 updated guidance about. First is whether the use of
5 AI to create creative works should exclude those works
6 from being copyrightable, and second is whether using
7 copyrighted works to train AI systems without the
8 affirmative consent of the copyright holder should be
9 considered fair use.

10 So I'd like to argue that creative works
11 produced using a generative AI system should be
12 copyrightable by a human because human users of the
13 system will tend to perform selection and arrangement
14 of the generated output in a non-trivial way, and I
15 believe that the guidance from the Copyright Office
16 dated March 16 of this year underestimates the level
17 of interaction that human authors tend to have with
18 the AI systems, and so I believe that there's more
19 creative input from people than is currently given
20 credit.

21 For the second point regarding guidance on
22 whether training AI systems on copyright materials
23 without affirmative consent from the right holders
24 should be considered fair use, I'd like to argue that
25 it should be considered fair use because, first, fair

1 use or learning, if the Copyright Office decided that
2 it were not fair use, then that would make training of
3 these AI systems effectively impossible and would shut
4 down this interesting development. Second, the
5 learning process is transformative. And, third,
6 although there may be memorization of some of the
7 materials, I believe that there are technological
8 solutions to minimize that. Thank you.

9 MS. IYER: Thank you very much, and thank
10 you very much again to everyone joining us today, and
11 as we get ready to move into the discussion portion of
12 our listening session, I kindly ask that those of you
13 who are panelists in this first session to please turn
14 your cameras on, and when we present some of our first
15 questions, if you have a response, please do use the
16 Raise Hand function. That helps us make sure that
17 everybody who would like to speak has a chance to.

18 And so, with that, I'd like to present
19 our -- we'll open the discussion with a question of,
20 what artificial intelligence technologies are you or
21 others in your industry using in the creation of new
22 works? And if anybody would like to kick us off? Ms.
23 Rasenberger?

24 MS. RASENBERGER: Thank you. I can speak to
25 the tools that writers are using. GPT is the most

1 commonly used to help writers in the writing process,
2 with 50 percent of those who use generative AI saying
3 they use chatGPT. GPT4 comes in second, as well as
4 Bing. About 8 percent are using Google's Bard.
5 Grammarly and other grammar tools are also used.
6 Sudowrite, which is a platform based on 3.5 built to
7 help in writing in novels, is also being used. It can
8 be used for other writing besides novels. And Jasper,
9 which focuses on business writing but can be used for
10 anything, is also a popular tool.

11 There are, I will say, dozens of other
12 writing tools on the market already. They are all
13 based on GPT 3.5 or 4 because back in '20 and then '21
14 OpenAI opened to the public a portal to allow others
15 to connect to GPT by an API and develop tools based on
16 it. So, when you hear about writing tools, other than
17 Bard, they're all based pretty much on GPT.

18 When we surveyed our writers, about 30
19 percent said that they use AI to help with
20 brainstorming, and this is a really interesting way to
21 use it. It helps with plot, ideas, character-setting,
22 to develop ideas. It also helps some writers to
23 structure and organize drafts. About a quarter say
24 they use generative AI for marketing ideas and
25 communications, and 50 percent use AI to help with

1 grammar and writing to perfect their sentences.

2 Only 7 percent said that they use generative
3 AI to generate actual text other than for marketing,
4 and approximately 90 percent of those who use
5 generative AI tools to generate text reported that
6 less than 10 percent of the final work comprised
7 generative AI. Only seven writers out of the 1700
8 responded that their work comprised 50 percent or more
9 AI-generated text.

10 Almost all of the authors we surveyed, and
11 we followed up with a couple hundred who do use
12 generative AI, they all said that it is important to
13 them to have writing in their own voice and their own
14 expression because that is what they do. And as the
15 Office thinks through copyrightability issues, I think
16 that's important to bear in mind.

17 Writers also reported that businesses, their
18 clients have turned to using AI, such as Jasper, to
19 replace humans for writing branding, marketing, and
20 web copy and that their work in that area has dried
21 up. One writer said that she has lost 75 percent of
22 her income already, so we are already seeing the
23 impact.

24 I should note that our surveys and
25 interviews were with professional writers. There are

1 also others using AI now to write stories and books,
2 and you will see lots of videos, social media about
3 how to get rich quick writing fast with AI, which we
4 all laugh at because we know few people get rich
5 writing, but these people do rely heavily on AI-
6 generated text and those books are now mostly self-
7 published on Amazon's Kindle platform. Thank you.

8 MS. IYER: Thank you.

9 Ali?

10 MS. STERNBURG: Sure. I just wanted to
11 mention a few other kinds of tools that may be used in
12 this space, including -- just also that show the
13 breadth of what can be considered an AI technology,
14 things like translation tools, translating into other
15 languages, speech recognition, computational
16 photography. There are types of direct AI tools or
17 toolkits that can be used to create other works, so,
18 yeah, I just wanted to mention a few other types of
19 technologies. Obviously, this session is literary
20 works. It's also literary works including software,
21 so there's, yeah, a wide range of type of tools that
22 I'm sure other colleagues will mention as well. Thank
23 you.

24 MS. IYER: Thank you.

25 Johnathan?

1 MR. BAND: Yeah, very briefly. It seems
2 that as with other new types of technology and their
3 interaction with creators, there's going to be a
4 generational issue, so we're going to have generative
5 AI with a generational impact. In other words, I
6 think that, as we've seen with other technologies,
7 younger people, people newer in the field, are more
8 likely to be able to use the new technologies and
9 adapt to them and figure out ways in which they'll
10 help. Those of us who are older and have more
11 established ways of doing things will find it harder
12 to use these new technologies.

13 And, you know, certainly, you know, the
14 Copyright Office and other entities can help with
15 education and training, but I think, at the end of the
16 day, it's just, as we've seen within photography and
17 other areas, it's just sort of a fact of life that
18 younger writers are going to be able to assimilate
19 these new technologies more quickly than those of us
20 who are older. Thank you.

21 MS. IYER: Thank you. And we'll go to Jule
22 and Keith, and then I'll pass it over to Heather for a
23 second question. Jule?

24 MR. SIGALL: Thank you. I think I just
25 wanted to highlight probably the most common AI tool

1 used in the software industry today is developer aids
2 like GitHub's Copilot, which sort of sits alongside
3 inside the development environment for software
4 developers and suggests code for them and reacts to
5 the code they've written, the comments they put into
6 their code and other prompts to help them develop code
7 much more quickly and much more efficiently,
8 especially around the more common sub-routines and
9 function calls that they use to build code.

10 What's an interesting note about how it's
11 being used is it seems to have a primary benefit for
12 developers who are proficient in one particular
13 software language being able to bridge that expertise
14 into a new one where they may not be as familiar, but
15 using a tool like Copilot, they can start generating
16 code, running code much more quickly in that new
17 language that they may not be as familiar with thanks
18 to the interface that it provides to translating and
19 developing code in a new language.

20 And I guess the last point to make is, as we
21 are sort of reviewing the Copyright Office's guidance
22 about what copyright you can register under that might
23 have been developed involve using AI tools, it may be
24 very problematic in the coding space for a couple
25 reasons. I don't think the line between what is the

1 developer's and what is suggested by the AI is very
2 clear, yet I think almost every developer at the end
3 of the process, when they have some code that they are
4 trying to run and deploy, none of them would think
5 that they are not the creator and author for copyright
6 purposes of that code, and, in fact, they often rely
7 on that to invoke open-source licenses and other
8 things in the industry. So I think there may be some
9 challenges with the way the Copyright Office at least
10 has articulated what you can register when it comes to
11 code under the guidance that's been published.

12 MS. IYER: Thank you.

13 And Keith?

14 MR. KUPFERSCHMID: Yeah, thank you. Just
15 one general comment in response to something Johnathan
16 said. Really, I want to just go on the record as
17 saying I don't agree with what he said. It sort of
18 smacked of ageism. I don't think age is a dividing
19 line between who can use a new technology and who
20 can't, and so just I don't really agree with what
21 Johnathan said. I do wholeheartedly agree with a lot
22 of what Mary said in terms of how our experiences in
23 terms of how creators are using new AI technologies.

24 I do want to also be careful to make sure we
25 kind of limit or focus what we're going to talk about

1 today and that we make sure we talk about generative
2 AI which is used for generative purposes. Like things
3 like just correcting grammar, spell check, or even
4 something that just potentially does a translation
5 that may or may not be on the line there, whether
6 that's being used for generative purposes, you know,
7 remains to be seen.

8 The question also, I'm assuming what you
9 were asking in terms of the scope of the question that
10 you are interested in knowing about how people are
11 using AI to generate, you know, fully generative
12 output as opposed to using it in the workflow. I'm
13 assuming that to be the case, but like I said, as Mary
14 said, at this point, many creators are not using it,
15 but they are beginning to see that change, and to the
16 extent they're using it, they're using it for ideation
17 and to help with writer's block and things like that,
18 and Mary went through some of the other different
19 technologies that people are using.

20 I will put out an offer. We have a lot of
21 creators who are members at the Copyright Alliance,
22 and we're happy to bring them in or just do demos
23 somehow to show exactly how they're using it if you
24 think that would be helpful.

25 MS. IYER: Thank you very much, Keith, and

1 some of the questions and points you made actually
2 flow right into our next question, which touches on
3 generative works, so I'm going to pass the mic over to
4 Heather, and then I see, Ali and Chris, you have your
5 hands raised, so if you'd like to also touch back on
6 your thoughts there and also responding to the
7 question that Heather's going to pose, then we can
8 move forward. So, Heather, the mic is all yours.

9 MS. WALTERS: Thank you, Jenee.

10 For our next question, what do you think the
11 Copyright Office should know about how AI systems
12 generate literary material, whether that's fiction,
13 non-fiction, or code?

14 MR. CALLISON-BURCH: I'd be happy to kick us
15 off. So I think one of the interesting elements of
16 this that touches on the current copyright regulation
17 is the idea that it's mechanically produced, so
18 generative AI systems are pre-trained on huge amounts
19 of textual data if we're talking about large language
20 models or images, and then they're sampling from their
21 probability distribution in a way that could be
22 construed as a random process that's explicitly
23 excluded by copyright law.

24 However, I think that in order to generate a
25 particular work, you need a prompt and you need a

1 random feed and you need a model, and so I think that
2 it should be relatively straightforward for the
3 Copyright Office to ask human authors to demonstrate
4 that they've done substantial selection or
5 modification by providing the original piece that the
6 system generated or simply the prompt, random feed,
7 and model to check to see whether the work that they
8 produce is substantially different than this
9 automatically generated and reproducible process.

10 And then a brief comment on Keith's point
11 about generative AI excluding translation systems and
12 grammar correction software. So, just to be clear,
13 those are also generative AI that are pre-trained in
14 exactly the same way that all these other technologies
15 are, and the stymieing effect of excluding copyrighted
16 works from training such systems would also have an
17 impact on translation systems and on grammar
18 correctors.

19 MS. WALTERS: Thank you.

20 Next up, Ali, and then Edward.

21 MS. RASENBERGER: Oh, sure. I know there
22 are others ahead of me now. Yeah, I was also just
23 going to -- Chris did a great job explaining that. I
24 was just going to ask about whether the question was
25 about generative AI or AI generally because it's not

1 always clear, but that's a really great point from a
2 technical expert.

3 On to the current question, I would just add
4 a few different points here. Different AI systems
5 operate in fundamentally different ways, so as I'm
6 sure we hear a lot in this context, it's not like a
7 one-size-fits-all thing. For example, a large
8 language model will have different mechanisms and
9 constraints than a diffusion model and both will
10 differ from a convolution system. This is from our AI
11 experts. I don't have any idea what any of that
12 means.

13 The Office should endeavor to understand
14 these differences as they may affect Office guidance
15 here, but, generally, however, an AI synthesizes
16 information from its input materials similar to how a
17 human might learn from existing creative works, and
18 it's also creating new material. It's not, like,
19 making a mash-up of existing text. It is doing
20 something entirely new. Thank you.

21 MS. WALTERS: Edward?

22 MR. HASBROUCK: Yeah, I think the most
23 important fact for you to keep in mind about
24 generative AI is that it depends entirely on copying
25 valuable training material as part of the input from

1 which to generate any valuable output. Without that
2 training material and the prompts provided by users,
3 generative AI would generate only garbage. Never has
4 the axiom of computer science "garbage in/garbage out"
5 been more apt, and I think it's an open question how
6 much of the value of the output is attributable to the
7 training material, how much to the prompt, and how
8 much to the AI software.

9 That division of revenues should be a matter
10 for negotiation between creators and those who want to
11 use our work to train AI, but, clearly, the value
12 contributed by the training material is more than
13 zero, which is what we've been paid to date. OpenAI,
14 for example, has received a billion dollars in venture
15 capital, none of which has been passed on to the
16 authors of the training corpus even though, without
17 that training corpus, chatGPT would be worthless.

18 Even if the software and the prompts has
19 contributed as much to the value of the output as the
20 training material, creators of the training works
21 should already have received half of that billion
22 dollars. Creators of works infringed by copying our
23 work for AI training have already been deprived of
24 hundreds of millions of dollars to which we are
25 rightfully entitled from OpenAI alone.

1 It's also important to recognize that the
2 works most likely to have been copied to train AI are
3 those on publicly accessible websites and to focus on
4 that work and on the creators of that web content.
5 You know, the low-hanging fruit for unauthorized
6 copying to train AI language models is publicly
7 accessible web content, not works available only in
8 print. We remind the Copyright Office that decades
9 after the creation of the Worldwide Web you still
10 haven't created any procedure for registering most web
11 content, especially large and/or dynamic websites that
12 isn't prohibitively burdensome.

13 The violations of copyright by copying web
14 content to train AI heighten the urgency of making it
15 possible to register copyright in these works, and we
16 again implore the Copyright Office, as long as
17 prohibited registration formalities are retained, to
18 implement a realistically feasible and affordable
19 procedure for bulk registration of web content.

20 MS. WALTERS: Matthew and then Mary.

21 MR. SAG: Yeah. So the question is what
22 should the Copyright Office understand about
23 generative AI in this context. What I would want to
24 make clear is that things like GPT, et cetera, are
25 fundamentally predictive tools, so a model like GPT

1 has no internal mental state, but it's a very long
2 equation that does effectively model latent
3 relationships in the training data.

4 Why is this important? It's important that
5 you understand that when a model like this produces
6 some text, it's not just making a collage of a few
7 different existing texts. It's recombining the things
8 that it has learned from the training data at a much
9 more abstract level and then combining those, the
10 things it's learned about the structure of language,
11 narrative form, et cetera, and so the link between the
12 training data and the outputs, which, you know,
13 definitely exists, is significantly attenuated. It's
14 attenuated by this process of abstraction. It's
15 attenuated by the remixing of latent concepts at this
16 very abstract level, and it's also attenuated in weird
17 ways by the way random noise is used in the training
18 process. So I think that's one thing at least the
19 Copyright Office should understand. Thank you.

20 MS. WALTERS: Thank you.

21 Mary?

22 MS. RASENBERGER: Thank you. As you know,
23 LLMs are trained on works of the same nature that they
24 are programmed to generate, so GPT and Bard, the two
25 main engines, were developed by copying and ingesting

1 large amounts of text, including potentially millions
2 of books and articles found online without permission,
3 and in generating the outputs, these programs merely
4 re-scramble inputs. Nothing new is added. Generative
5 AI cannot think or feel itself. It cannot express
6 emotion. It can only mimic what it has been fed.

7 And so, by its nature, it is always
8 derivative of what it's been trained on. There would
9 be no GPT without the pre-existing works. OpenAI on
10 its website says that the GPT 3 training data sets
11 included text posted on the internet or uploaded to
12 the internet and also two internet-based book corpora
13 referred to by OpenAI as Books1 and Books2 without any
14 further explanation. Researchers have attempted to
15 recreate the data, and they have reported that Books1
16 is Books corpus which maintains that it's free books
17 scraped from smashwords.com.

18 Books2, no one knows exactly what this is,
19 but it must be massive as it appears to include pretty
20 much every published book that you look for, that you
21 try to get it to mimic. It is highly unlikely as a
22 result to be legitimate, and some suspect that it's
23 Libgen, which is one of the major piracy sites, book
24 piracy sites. In any event, most books and most
25 articles online and other works on the internet have

1 been copied and used to train GPT to generate text.
2 We believe that this use is not fair and that it
3 should be compensated. We do not, however, want to
4 impede the development of AI, so we would like to see
5 collective licensing that makes it possible for AI
6 developers to license the data they need and
7 compensate authors.

8 We believe that writers should be
9 compensated also for past training since it appears
10 that the massive training that has already occurred
11 for GPT and Bard to teach the engines to think and to
12 write has already occurred, and as Edward mentioned
13 earlier, we may need an antitrust exemption to do it
14 as effectively as possible, and we do hope that the AI
15 companies will come to the table.

16 I also should mention that there are some
17 writers who simply do not want their work used as
18 training data, including when they use AI. They do
19 not want anything that they upload or generate to be
20 used to train AI, and we believe that those writers
21 should have the right to opt out.

22 MS. WALTERS: Thank you.

23 Leigh?

24 MR. HENNIG: Thank you. I'd like to say
25 that I agree with Edward. We conducted our own survey

1 of over a hundred editors and publishers, and nearly
2 all were concerned with the use of their works without
3 at least attribution. One issue that Chris raises,
4 and I have to say I disagree there as well, I
5 understand that his point is that people are
6 interacting with these AI tools in a much more in-
7 depth way, and his point is that they're interacting
8 heavily with them for their output and not just
9 running with whatever comes out of a single prompt or
10 two, and while I agree that this is often true, we're
11 also finding that this really isn't necessarily the
12 case at all times or even most of the times at least
13 as far as what editors and publishers working through
14 their slush piles are seeing.

15 Editors are getting crushed by the massive
16 increase of submissions which are cheaply generated
17 and just sent in oftentimes by people looking to take
18 advantage of get-rich-quick schemes. *Clarkesworld*, as
19 an example, recently had to close, and that was so
20 remarkable and shocking to the speculative fiction
21 world that it actually made the news. So this is
22 especially impactful as well to marginalize peoples
23 who already face an uphill battle in getting their
24 work seen and recognized.

25 So, you know, I think that the issue is

1 Chris's point is well taken, but I want to make sure
2 that we're not completely overlooking the impact that
3 these tools are having not only on writers but on
4 editors and publishers.

5 And I also would like to say that I disagree
6 as a final point with Matthew. While we've recently
7 seen that AI-generative output is not wholly unique,
8 there are a number of lawsuits currently underway
9 because output that is generated by these things is
10 too closely resembled to works that authors are coming
11 out with. And as another example, CNET was recently
12 in the news for the heat that they received for their
13 articles which are generated by AIGT, essentially
14 copying a lot of the stuff that they have.

15 So some tools are better than others, and to
16 somebody else's point, large language models have
17 different ways that they produce text, but I think it
18 would behoove us to pay attention to the collateral
19 damage that these tools are having even as we do
20 recognize the benefits that they have to society and
21 to creatives. Thank you.

22 MS. WALTERS: Thank you.

23 Jule and then Johnathan.

24 MR. SIGALL: Thank you. I'll be quick
25 because both Professors Callison-Burch and Sag made

1 the points I wanted to make about how language models
2 work only in the sense that they are not collecting
3 pieces of the work and reassembling them in collage
4 style. Instead, what they, in our view, are doing is
5 capturing the unprotected elements of works, sort of
6 the ideas, the concepts, the facts, and the
7 relationships between those facts, concepts, and ideas
8 in order to generate new works, not to actually
9 reproduce existing works.

10 And, in fact, the memorization phenomenon
11 that Professor Sag mentioned is an interesting one
12 because, in most of the field of AI development
13 research, that memorization is seen as a bug and not a
14 feature in the sense that the whole point is not to
15 provide access to the underlying material and the
16 training data for various purposes, including privacy
17 and other sensitivities, so the goal is to create a
18 model that can take the elements of those works and
19 create new works for them.

20 And, of course, as others have mentioned
21 here, there are questions and important copyright
22 questions to answer about the outputs of these systems
23 and whether they infringe existing works, and those
24 are an appropriate focus of where the copyright law
25 and policy should apply. But the model itself is not

1 really designed to be a reproduction machine or to be
2 a collage machine. It's designed to understand the
3 core components of knowledge in existing works and
4 make them accessible to people so that people can
5 develop new things based on that knowledge.

6 MS. WALTERS: Thank you.

7 Johnathan?

8 MR. BAND: Yes. Just briefly in terms of
9 what the Copyright Office should know about this
10 technology is that, you know, following on from what
11 both Edward and Mary said, a lot of the material that
12 makes up the training corpus is material that has been
13 uploaded to publicly accessible websites, and whereas,
14 in some cases, it may have been done involuntarily, in
15 the vast majority of cases, it's been done voluntarily
16 by the author or whoever is the rights holder.

17 And Mary said that, you know, the rights
18 holder should have the ability to opt. Well, of
19 course, they do have the ability to opt out. They can
20 use bot exclusion headers. The way this technology
21 works, like the way search engine works, is you have
22 bots that are crawling the internet and gathering
23 information, downloading material from websites, and
24 the websites can use bot exclusion headers, and that
25 would prevent the prowling of their sites. So, again,

1 the technology exists to address this problem. Thank
2 you.

3 MS. WALTERS: Thank you. I am going to pass
4 it back to Jenee for the next question.

5 MS. IYER: Thank you. As some of the
6 conversations have started to also talk a little bit
7 about outputs, we'll pose our next question here, and
8 those of you who have your hands raised, feel free to
9 go ahead and continue your thoughts as they relate to
10 the previous question and incorporate any response to
11 this next question that you have.

12 So the next question is, how is the training
13 or the output of artificial intelligence affecting
14 your field or industry? And again, for those of you
15 who already had your hand raised, feel free to
16 continue your thoughts on the previous question, and
17 we will start with Keith.

18 MR. KUPFERSCHMID: All right. I'm going to
19 answer the last question because I had my hand up and
20 for some reason wasn't selected, so I'm going to
21 mention three things. Before I do that, let me just
22 point out that that last question asked actually two
23 different questions. It talked about whether it's
24 okay -- it talked about the ingestion and the input
25 and the output, if you will, and there was some talk

1 about output, which you mentioned. I'm going to focus
2 on the input. I'm going to talk about three different
3 things.

4 One, I'm going to raise to your attention
5 the article that was in *The Washington Post* today. It
6 refutes what Johnathan just said, okay? *The*
7 *Washington Post* article does an analysis of chatbots
8 that are using Google C₄ data sets, and what it does is
9 it reveals that proprietary, personal, and often
10 offensive websites go into the AI's ingestion of data,
11 okay? Now I'm going to quote from the article here.
12 It says, "High on the list, b-ok.org," which is No.
13 190 on the list, "is a notorious market for pirated e-
14 books that has since been seized by the U.S.
15 Department of Justice. At least 20 other sites
16 identified by the U.S. Government as markets for
17 piracy and counterfeits were present in the data
18 sets." It also revealed that works with over 200
19 million copyright symbols were part of the data sets.
20 So I suggest you take a look at that article.

21 Something else, a second thing you should
22 know is about data laundering. Some AI developers
23 have, without authority, used training data sets as
24 pre-trained AI created by non-commercial third parties
25 in their commercial products. That's known as data

1 laundrying. Neither this kind of unauthorized use nor
2 the work of the non-commercial entity necessarily
3 qualify as fair use.

4 And that brings me to the last point I was
5 going to mention, which is on fair use, okay? There's
6 been some talk, without getting into the details, of
7 whether ingestion -- like I said, we don't have to
8 address output because, when you copy all these works,
9 you are copying, you are infringing the copyright in
10 those works. Nothing could be clearer. You can say,
11 oh, we're copying relationships, we're copying data
12 points. You're copying the works. What you use them
13 for, that may be something else, okay?

14 Now, on fair use, obviously, it depends on a
15 case-by-case basis. You have to look at each case,
16 okay? But, certainly, I think you have to look at
17 whether a TDM license is available, and they are
18 available in many instances, whether the use is going
19 to be commercial. We're seeing mostly commercial uses
20 these days, and most importantly whether the resulting
21 AI-generated work harms the actual or potential market
22 for the ingested work. That gets into the output a
23 little bit.

24 But let me address the Google Books case and
25 some of these other cases that we're talking about

1 because I think, if there's anything the Copyright
2 Office takes away from this listening session, it
3 should be this: The Google Books case could not be
4 more different than what we have going on here. In
5 the Google Books case, Google did not copy books to
6 make new books. That's what AI does, the copying
7 works of expression. They were copying copyrighted
8 works to make new copyrighted works that compete with
9 the works that they are copying. In Google Books'
10 case, Google used the works for informational
11 purposes. They used it for the information in the
12 works, not the expressive content of the works. That
13 is exactly what AI is doing. They're using the
14 expressive content to produce new works.

15 Google implemented numerous safeguards to
16 ensure that the use did not harm authors or
17 publishers. That is not what AI technology is doing.
18 It's allowing you to put in the style of and it's
19 allowing me to put in -- if I put in SpongeBob, then I
20 get back SpongeBob images and things like that.

21 And lastly and very, very significantly, in
22 the Google Books case, there was no licensing market
23 for Google's use, but in AI case, there is a vibrant
24 license for AI training materials that would be
25 completely destroyed if AI use is considered to be

1 fair use.

2 So, in sum, the Google Books case I used as
3 an example, but there are other similar cases, very,
4 very different than what we have going on now, and no
5 one should assume that just simply because, in those
6 cases, the court held to be fair use that we would
7 have fair use taking place here. And I'll stop there.

8 MS. IYER: Thank you. I just note I do see
9 a couple of audience hands raised, and for the moment
10 we are just calling on the panelists, so thank you.

11 And Mary?

12 MS. RASENBERGER: Thanks. I also just
13 wanted to respond to Johnathan's point from the last
14 question. It is not a matter of using robot text.
15 First of all, you can't be crawled if you use robot
16 text. You can't be searched, crawled for search
17 purposes, and you'll hear from the news organizations
18 about that probably in the next session. So it's not
19 that simple. Also, we believe that much of the
20 content that was crawled and used to train GPT is
21 pirated. There are very few books available online
22 without DRM that are not pirated.

23 To this question, our biggest concern with
24 the use of generative AI is that if there are
25 incentives to use generative AI to produce books and

1 other written material, publishers will feel compelled
2 to use them, and that's because they are faster,
3 cheaper, and this, in turn, will dumb down our
4 literature and our journalism.

5 As an example, one of our members, she
6 writes for corporations. She was asked by one to
7 write 30 pieces a month instead of 10. She was told
8 use AI and then just edit it, and as she responded,
9 that's impossible because, if I start with something
10 AI-generated, it will take twice as long because I
11 will need to add my own voice and add thought and what
12 AI produces is not just usable. But there will be
13 pressure because that's the way capitalism works.
14 There will be a need to stay competitive in markets.

15 We're very concerned about AI-generated
16 works surrounding the market for certain kinds of
17 books and journalism, making it harder for indie
18 authors and traditional publishers to earn money in
19 these sectors and decreasing the whole pie. We are
20 already seeing a flood of AI-generated books in
21 certain markets, namely, certain types of non-fiction
22 books, such as self-help and cookbooks, children's
23 books, and genre fiction, such as sci-fi. These are
24 the very books that bring in profits that allow
25 publishers to invest in other books that do not have

1 as broad a market but that are critical to literary
2 and civic culture.

3 I also want to note that writers make a
4 living from multiple writing sources, not just books.
5 Most need to take on multiple jobs to support their
6 book writing, freelance journalism, corporate writing
7 and copy writing, and the most immediate effect of
8 generative AI has been to replace human writers for
9 web content writing, copy writing, marketing,
10 newsletter writing, and other communications.

11 We have already heard from many writers who
12 have lost a lot of their income to AI. Also, entry-
13 level journalism jobs face significant risk as simple
14 news articles are being generated by AI, and the
15 problem is this is the first early career stepping
16 stone for most writers. Most book authors do not get
17 their first book published until well into their 30s
18 or 40s, and they work in journalism and odd writing
19 jobs until then, so we need to find a way to protect
20 those jobs as well.

21 I do believe that we will see a loss of jobs
22 because of AI. What we want to prevent, we have to
23 prevent is a breaking down of the writing profession
24 to the point where so few writers are able to enter
25 the profession that we really see a decline in the

1 books that are published and the quality of the books,
2 and I can talk more about that if we get to the next
3 question. Thank you.

4 MS. IYER: Thank you, and I'm going to exert
5 a little bit of moderator's privilege here. So,
6 Rachel, I know you haven't had a chance to speak yet,
7 so I'm going to toss the mic to you, and then to the
8 remaining hands that are up, I'm going to request that
9 you please hold your responses at about one minute so
10 that we can get to the last question here and also be
11 respectful of everybody's time here today.

12 So, Rachel, I'm going to toss it to you.

13 MS. BROOKE: Well, thanks very much. So I
14 want to return a bit to the Office's question as to
15 how the training or output of artificial intelligence
16 is affecting our field or industry. So, as I
17 mentioned in my introductory statement, generative AI
18 is making it easier for authors, and while I mentioned
19 academic authors, this, in fact, applies to all
20 different types of authors, to do the early-stage
21 research that's foundational to their writing, such as
22 getting short and simple summaries of complex issues,
23 surveying the landscape of various fields in which
24 those authors don't have a strong background, or even
25 getting guidance on what types of human-authored works

1 to turn to in their research, like a sort of
2 bibliography-like output.

3 Making research more efficient means that
4 these authors can spend more time on their writing and
5 making valuable contributions to their fields. I'll
6 say that Authors Alliance is really committed to
7 protecting authors' rights to conduct research, and we
8 see generative AI as a new, innovative, and, as I said
9 multiple times, efficient tool of conducting this kind
10 of research. Making research easier helps authors
11 save time and has a particular benefit for authors
12 with disabilities or other reasons that make it
13 difficult to go to multiple libraries or otherwise
14 rely on analog forms of research. So, in conclusion,
15 I would say it has a strong benefit on what I see is
16 our field or industry.

17 MS. IYER: Thank you.

18 And we're going to do next Chris, Edward,
19 and then Ali with about -- if you could keep it to one
20 minute, please, that would be much appreciated.
21 Chris?

22 MR. CALLISON-BURCH: Thanks. I appreciate
23 the impassioned pleas from my co-panelists. I wanted
24 to just address Keith's -- he made two points that I
25 think misrepresent -- or several points that I think

1 misrepresent what's happening, including discussing
2 ingestion and data laundering, which are not
3 technical terms. The copying is, of course, present
4 in the same way it is for your web browser where, in
5 order to display it on your computer screen, a work
6 must be copied. This is non-expressive copying that
7 does not violate copyright.

8 Secondly, he suggested that fair use should
9 be determined on a case-by-case basis, but, in fact, I
10 would argue exactly the opposite. Fair use should be
11 determined as a general class of things, and if it is
12 left to a case-by-case basis, then that opens -- that
13 stymies this technology and makes it so that no
14 company could develop anything without the permission
15 from all authors.

16 Finally, this is just a bit of speculation,
17 but I think it might be worth raising, especially for
18 the speculative authors panel, where I suspect we may
19 be hitting an escape velocity point where AI systems
20 could be trained on the output of AI systems and,
21 thus, if it were determined that they were not
22 copyrightable, then we would be done and we would have
23 a high-quality AI system not derived from human-
24 generated text. Thank you.

25 MS. IYER: Thank you.

1 And I see we have a few more hands raised.
2 After Edward and Ali, we will move to Heather and
3 closing statements, so I'll invite you to make your
4 comments then. Edward?

5 MR. HASBROUCK: Yeah. All members are
6 already being adversely impacted by both the training
7 and the output. As far as the training, as I earlier
8 noted, that has deprived us of our rightful share of
9 the income that AI developers have already obtained
10 from our work.

11 And contrary to what Johnathan said, I want
12 to push back further. Robots.txt or other such
13 measures are not a solution. They are not
14 enforceable. They're not actually practiced. The
15 largest web scraper in the world, the Internet
16 Archive, announced retroactively that years previously
17 they had stopped across the board honoring Robots.txt
18 files even when they included specification, not
19 generically, but specifically intended to exclude the
20 Internet Archive's crawler in the fashion the Internet
21 Archive itself had specified. So it's not
22 enforceable, it's not practiced, and it can't help you
23 opt out if your work has already been scraped and
24 ingested, so that's not a solution.

25 As far as the output, the output is being

1 used to substitute for our work, and just because the
2 displacement of human creators is a one-for-many
3 rather than a one-for-one substitution doesn't mean it
4 isn't substituted for and an infringement of the works
5 in the training corpus. The output is being used to
6 generate formulaic news stories by using box scores as
7 prompts to generate sports reports, using trading
8 statistics as prompts to generate routine financial
9 news, displacing freelance and staff journalists.

10 It's being used to generate web content and
11 other marketing and business communications,
12 displacing freelance business and advertising copy
13 writers. So I think the effects are growing, but
14 contrary to some earlier comments about future effects
15 being speculative, the effects to date are already
16 real and adverse on our incomes. Thank you.

17 MS. IYER: Thank you.

18 And Ali?

19 MS. STERNBURG: Thanks. Yeah, I'll just
20 keep it brief. Just wanted to respond to two quick
21 points. One was I don't think John specifically
22 mentioned Robots.txt. There may other types of
23 inclusion protocols in the works. I think one is part
24 of the EU's most recent, I think, text and data mining
25 assumption in the copyright directive maybe, so these

1 are things that may be in development anyways,
2 especially for other regions that are similarly
3 looking at AI and these issues.

4 And then also there was a point about
5 styleries, and I just want to make sure. It sounds
6 like something that likely wouldn't be protected by
7 copyright. There's already a lot of limits on what
8 can be protected and what cannot, so just did want to
9 make sure we made that point. And then just in terms
10 of the original question, I think just these types of
11 tools can provide tools for authors but also can help
12 them, for example, create some kind of illustration
13 alongside. I know that's a thing that will be
14 addressed more later, but it can help people that
15 don't have all these different skill sets to
16 supplement their work and don't have the technical
17 skills. So, yeah, that's it. Thank you.

18 MS. IYER: Thank you, Ali.

19 And so, Leigh and Keith, we're going to
20 circle right back to you after we throw it to Heather
21 for a final question and the opportunity for closing
22 statements. So, Heather?

23 MS. WALTERS: Thank you, Jenee.

24 For our closing question, are you aware of
25 the Office's registration guidance with respect to

1 works containing AI-generated material, and, if so,
2 what questions or concerns do you have about that
3 guidance? And, again, if you have any closing
4 statements, please include that. Leigh and then
5 Keith.

6 MR. HENNIG: Thank you. We were aware of
7 the guidance that the Copyright Office put out. One
8 potential question that we would like to see
9 considered is where exactly the delineation rests when
10 considering works that should be eligible for
11 copyright. For example, if there's an anthology or a
12 collection of short stories and that contains a mix of
13 human and AI-written stories, where does that stand?

14 I think, for my closing statement, there is
15 a clear distinction in the utility and application of
16 AI it relates to things like fiction writing versus
17 research, coding, or academic work. As our own survey
18 of fiction authors and editors have shown, many
19 writers see AI tools as a benefit. I think that I
20 would like to close by encouraging the Office and
21 others here to consider how we can be flexible in our
22 consideration and application of potential regulation.
23 We don't want to completely close ourselves off to the
24 ability to use AI, especially since the utility of it
25 in, you know, again, those research and academic and

1 coding situations is very clear, but at the same time,
2 we want to be respectful of how that impacts more
3 creative functions, such as, you know, fiction writing
4 and other such endeavors. Thank you.

5 MS. WALTERS: Thank you.

6 Keith?

7 MR. KUPFERSCHMID: Sure. Quickly, before I
8 get to my other comments, in response to Ali's
9 comment, to be clear, I was not talking about in the
10 style of being protected by copyright. I was talking
11 about that being a safeguard in the context of a fair
12 use analysis. There is a difference. Read the case.

13 For Chris, I don't even know how to respond
14 other than to channel my inner Chandler Bing and go,
15 could you be more wrong?

16 And in terms of the Copyright Office's
17 guidance, I've got about six pages of notes.
18 Obviously, I cannot go through all those. There are a
19 lot of concerns and confusion with the guidance. I'm
20 going to go through a couple highlights, but I would
21 love the opportunity to somehow be able to make sure
22 that the Copyright Office is aware of these concerns
23 that we've heard from all of our members.

24 Significantly, the Copyright Office should
25 not and does not have the capacity, frankly, to be

1 engaged in investigations of what is within and
2 outside the boundaries of what is disclaimed as AI-
3 generated and whether there is sufficient human
4 involvement in each case, as it did in the cash de
5 nova (phonetic) case, and, hopefully, that is not the
6 plan.

7 We get the idea that you do need to identify
8 what is and what is not claimable, but there is
9 confusion with the guidance in terms of, you know,
10 where to draw that line. Further guidance would
11 certainly be helpful. People are very -- I'll finish
12 up. People are very concerned about the invalidation
13 or cancelation of their registrations and people
14 challenging these in courts.

15 And lastly, there are a lot, a lot of
16 inconsistencies between the guidance and the
17 compendium and how like the de minimis standard, which
18 is inconsistent with the compendium, which talks about
19 an appreciable amount. The standard application
20 presents problems. Anyway, as I said, I can go on for
21 days talking about some issues. I would love the
22 opportunity to be able to do that. I thought this
23 listening session would be such an opportunity, but,
24 obviously, we've run out of time.

25 MS. WALTERS: Thank you.

1 Mary and then Johnathan.

2 MS. RASENBERGER: Thank you. I applaud the
3 Office for drawing a clear line in the sand with the
4 guidance even though some of the reactions have not
5 been popular, but I think drawing this line is
6 important for protecting the incentives for human
7 authorship. In fact, I think it is absolutely
8 crucial. Human authorship requires that a human
9 conceived the work and executed or closely monitored
10 the execution, and if you accept that AI-generated
11 material is not copyrightable -- if you accept that
12 it's not copyrightable, then you can't say, well, in
13 this instance, because there was a lot of human work,
14 some of it highly creative, that went into the
15 prompting, the results should be copyrightable. I
16 think you have to look at whether a human created the
17 actual expression that's in question.

18 The Copyright Office does need to do a
19 better job of explaining the guidance, though.
20 There's a lot of confusion. First, it is not well
21 understood that only AI-generated expression in the
22 deposit copy needs to be disclaimed and that that can
23 be done in a word or two, so if a writer is using AI
24 as a tool to brainstorm and is not adopting AI-
25 generated text or if they're using it for spell check

1 or grammar, the writer does not need to disclaim AI-
2 generated material.

3 Second, if there is only some AI-generated
4 material in a work, it can be disclaimed in a word or
5 two as some text, some images, or all images or all
6 text, so if a writer uses some sentences that AI
7 generated in their final work, they can simply exclude
8 some text. They do not need to identify exactly what
9 it is that AI generated in the application because
10 that's going to be impossible to keep track of as a
11 practical matter, and that is also not understood.

12 Third, in conclusion --

13 MS. WALTERS: Excuse me just one moment.

14 MS. RASENBERGER: Yeah.

15 MS. WALTERS: We do have some hands raised,
16 and as the session is going to end in about six
17 minutes, I want to make sure everybody has a moment to
18 speak before we break.

19 MS. RASENBERGER: Okay. Can I just -- I
20 hope we have an opportunity then because I have some
21 other things that I wanted to mention.

22 MS. WALTERS: Thank you.

23 MS. RASENBERGER: If we have an ability to
24 follow up in writing. Thank you.

25 MS. WALTERS: Thank you.

1 MS. IYER: Yes, this is the first -- this is
2 the beginning of the Office's initiative on AI, so
3 there will be many forthcoming opportunities to
4 continue to provide the Office with feedback, and we
5 do appreciate all the feedback we've heard here today.

6 MS. WALTERS: Johnathan?

7 MR. BAND: Yes, thank you. So just with
8 respect to the Copyright Office guidance, I think I
9 agree with a lot of what Mary and Keith said, that in
10 general it's on the right direction, but on the edges,
11 there are issues that need to be examined, especially,
12 as some of the others have mentioned, you know, that
13 the Office may not have appreciated how much back and
14 forth there is going to be between the author and the
15 AI and that the delineation and the disclaiming could
16 be pretty difficult.

17 With respect to closing, I'd just like to
18 make two points. One is I'm glad that Keith is so
19 supportive of the Google Books decision. I've never
20 head him be so positive about it, certainly not while
21 the case was pending. But then, more seriously, you
22 know, the whole discussion that we had back and forth
23 about bot exclusion headers shows two things. One is
24 that there's obviously a lot to be examined. You
25 know, I read the *Washington Post* article in a very

1 different way to suggest that, you know, if you look
2 at the top sites, you know, like, you have Wikipedia.

3 I mean, you have a lot of -- that's where a
4 lot of the information that's being included is coming
5 from and other public domain sites, government sites
6 and so forth, so that's something obviously for the
7 Copyright Office to look at. To some extent, though,
8 maybe it's really beside the point because, as some of
9 the other people have indicated, that what is being
10 extracted ultimately is non-protectable material.

11 Now, to be sure, you might have to make a
12 temporary copy in order to extract unprotected
13 material, but, you know, we have 30 years of case law
14 about that, about sort of intermediate copying or, you
15 know, copying that doesn't get its way into the final
16 product, and so, you know, maybe all these issues with
17 respect to the ingestion are even more settled than we
18 thought, but, in any event, there's certainly a lot of
19 things for the Copyright Office to look for, to look
20 at going forward. Thank you.

21 MS. WALTERS: Thank you. And as we finish
22 up the session, if everybody could keep their closing
23 comments to under a minute? There will be more
24 opportunities to communicate with the Office about
25 this topic in the future. Chris and then Ali and then

1 Jule and Rachel.

2 MR. CALLISON-BURCH: Thanks, everyone. In
3 terms of the guidance that the Copyright Office issued
4 last month, I think I would like to advocate for a
5 more expansive view of what constitutes human
6 authorship. I think that Microsoft's metaphor of a
7 copilot where it's really actually being driven by
8 humans is absolutely a good way of conceptualizing
9 this, and the prompt completion that was outlined in
10 that document is a limited view on what's possible.
11 Here's a figure that shows interactions that allow
12 where a human has asked the system to rewrite an
13 original input sentence using many different
14 transformations that clearly show that the human is
15 driving the types of transformations that result from
16 a final output. So thank you to the co-panelists for
17 the spirited discussion.

18 MS. WALTERS: Thank you.

19 Ali?

20 MS. STERNBURG: Yes, a few brief on the
21 question, on the final question. From our
22 perspective, the Office helpfully applied a lot of
23 existing precedent going back to the 1800s on
24 authorship. I have my little monkey selfie here.
25 There may be instances where we might want more

1 clarifications -- where it might be helpful to have
2 more clarification on the sufficiency of human input,
3 but, obviously, these things are really still
4 developing in its really early stages.

5 And then just as a closing statement, again,
6 I guess to continue to put back on the point most
7 styles and competing in the market and fair use. I
8 understand we're looking at what an AI could do. It's
9 also important to think about whether you'd want the
10 same restriction on, like, a human artist. That's how
11 people learn. That's how people create, looking at
12 prior work to develop an understanding of artistic
13 styles and attempting to recreate them, and so, if a
14 human can do it, an AI should be able at least by
15 default. So thank you so much for this today.

16 MS. WALTERS: Thank you.

17 Jule and then Rachel.

18 MR. SIGALL: Thanks very much and thanks
19 again for the chance. This is a really useful and
20 interesting discussion, and I was happy to be a part
21 of it. I touched on the challenges that the Office's
22 registration guidance might have in light of computer
23 code and computer software especially that's using AI
24 tools, so I won't repeat those.

25 I do think, though, I think the Office -- I

1 would suggest to the Office to consider that that
2 discussion about how new creators using AI tools fit
3 into the registration system is a good place to start
4 for the broader discussion around how AI tools should
5 fit into the copyright system because I think the
6 reality, as you've heard from myself and others today,
7 is everyone will be using these technologies, so the
8 question is, what kind of copyright system should we
9 have, registration system, liability system, policy?
10 What kind of system should we have for those using
11 these technologies?

12 And I think, when you put the author at the
13 center of that discussion and understand how they're
14 using these technologies, and, in fact, you maybe
15 broaden our conceptual notions of who is an author,
16 including newer authors using these technologies in
17 ways that incumbent authors are not, I think you may
18 get a better sense of how to draw the lines on some of
19 the other broader issues as well, and I think, if we
20 start there, I think we'll end up with a copyright
21 system that may be built more for the future than for
22 the past.

23 MS. WALTERS: Thank you.

24 Rachel, and then we will end with Edward.

25 MS. BROOKE: Thanks, and thanks for

1 convening this session today. It was so great. So,
2 as I mentioned, Authors Alliance really approves of
3 the registration guidance, but I agree with others
4 that there still may be open questions around the
5 edges, like, for instance, about the copyright status
6 of things like co-authored works with both human and
7 AI authors where the contributions can't be easily
8 disentangled. I think this underscores the point that
9 these technologies and the development of the uses
10 that they facilitate are still in their nascent
11 stages.

12 So, to close out, I'd like to return to the
13 purposes of copyright, which we've touched on but not
14 focused on today. It's important to remember that
15 copyright is not only about protecting the rights of
16 copyright holders but incentivizing creativity for the
17 benefit of the public, so registration issues aside,
18 the new forms of creation made possible through
19 generative AI can incentivize people who wouldn't
20 otherwise create expressive works to do so, bringing
21 more people into these creative industries and adding
22 new creative expression to the world, which I think we
23 can all agree is strongly in the public benefit.

24 MS. WALTERS: Thank you.

25 Edward?

1 MR. HASBROUCK: Thank you. Your questions
2 have focused on economic rights, but I want to
3 conclude by reminding you of the imperative to include
4 moral rights throughout this inquiry and particularly
5 to call to your attention the intolerable position
6 that the lack of enforceable moral rights to
7 attribution and integrity place on authors even if all
8 of this use is fair use. Today, anything I publish on
9 the web can be and probably already has been ingested.
10 My work is being used, has already been used to
11 produce fake news, fascist propaganda, spam, and
12 defamation, and I have no means of objecting to its
13 use by AI companies to generate that prejudicial
14 material. This is wrong. It needs to be acted upon,
15 and I hope you will include that in your legislative
16 recommendations. Thank you.

17 MS. WALTERS: Thank you. I'm going to pass
18 it back to Jenee for the closing of this session.

19 MS. IYER: I am, in turn, going to pass it
20 over to Andrew.

21 MR. FOGLIA: Thanks, Jenee, and thank you
22 again to all of our panelists for your participation
23 today. As Jenee and Heather both mentioned and as we
24 said at the outset, there will be other opportunities
25 for you to comment on these various questions.

1 We are now going to take a 10-minute break.
2 We will resume at 2:43, and I look forward to seeing
3 some of you back then. Thanks, everyone.

4 (Whereupon, a brief recess was taken.)

5 MR. FOGLIA: Welcome back, everyone. We
6 will begin the second panel now. For those of you who
7 are just joining us, a few Zoom housekeeping points
8 before we begin. If you are joining this session but
9 are not a panelist for this particular session, please
10 keep your camera turned off and your mic on mute. We
11 are recording this session today. The recording will
12 be available on our website, and the transcription
13 function is activated as well.

14 This panel will work exactly the same as the
15 previous one. We're going to start with a brief
16 introduction and short statement from each of the
17 panelists if they desire. We request that these
18 statements be limited to three minutes, and the
19 moderators will be watching the time. After these
20 introductions, we will have a moderated listening
21 session. The moderator questions, which panelists
22 received in advance, are intended only as prompts for
23 discussion, and we welcome participants to share
24 relevant perspectives and experiences they feel are
25 important for the Office to hear.

1 With that, I will hand it over to the
2 moderators for the second session. Brandy Karl is an
3 Assistant General Counsel in our Office of General
4 Counsel. Keyana Pusey is a Barbara A. Ringer Fellow.
5 The mic is yours, Brandy.

6 MS. KARL: Thank you, Andrew, and thank you
7 to all of our panelists joining today. We're going to
8 begin in the order stated on the agenda, and that is
9 with Andreessen Horowitz.

10 MR. DAMLE: Hi, everybody. I'm Sy Damle
11 from the law firm of Latham & Watkins. As Brandy
12 mentioned, I'm here representing Andreessen Horowitz
13 or also called a16z. a16z is a venture capital firm
14 based in Silicon Valley that invests in companies that
15 both build and rely on artificial intelligence
16 technologies. a16z's interest in these proceedings is
17 in ensuring that responsibly designed AI technologies
18 remain both lawful to create and open to use, so I
19 want to start the panel today by making two important
20 factual observations.

21 First, we've found in many discussions
22 around these issues that there's some confusion about
23 what the output of these models tends to look like in
24 relation to the input, so I just want to be crystal-
25 clear that as an empirical matter the overwhelming

1 majority of the time the output of a content
2 generation AI service standing alone is not
3 substantially similar in the copyright sense to any
4 particular copyrighted work that was used to train the
5 model. To just give one data point, one research team
6 tried to get one of the popular image generation tools
7 to output 350,000 images from the original training
8 set used to train that model. It succeeded only 0.03
9 percent of the time.

10 In other words, 99.97 percent of the time
11 the output did not replicate the images used to train
12 the AI, and that was while researchers were trying to
13 infringe, not in your normal use case, so important
14 for us as we're collectively considering an
15 appropriate public policy approach here to keep in
16 mind that what we're talking about is an innovation
17 whose output taken alone would constitute prima facie
18 copyright infringement only in the genuinely rarest of
19 cases.

20 The second point I want to make, it was
21 notable to me to hear today from the first panel how
22 many authors and creators themselves are relying on
23 these new generative AI tools to help them with their
24 work. In other words, these tools are not substitutes
25 for human creativity but are themselves engines of

1 human creativity. So the point that I want to be sure
2 to emphasize is that, really, the only practical way
3 for these tools to exist is if they can be trained on
4 massive amounts of data without having to license that
5 data.

6 In fact, the data needed is so massive that
7 even collective licensing really can't work. What
8 we're talking about in the context of these large
9 language models is training on a corpus that is
10 essentially the entire volume of the written word.
11 That volume creates complications that are way more
12 complicated than what the Office was faced with when
13 it was attempting to set up an extended collective
14 licensing scheme around mass digitization, which, as
15 we know, ultimately failed.

16 So, with those two points in mind, I just
17 want to say that I'm grateful to the Copyright Office
18 for having me here and for opening these conversations
19 and look forward to today.

20 MS. KARL: Thank you, Sy.

21 Next, we have the Association of American
22 Publishers.

23 MR. HART: Hi. Good afternoon, everybody.
24 I'm Terry Hart, the General Counsel of the Association
25 of American Publishers, or AAP. AAP represents the

1 nation's leading book, education, and journal
2 publishers. I want to thank the Copyright Office for
3 convening these listening sessions and for its
4 thoughtful and careful consideration of these very
5 important issues. I just wanted to start with a
6 couple of overall points before jumping into the
7 moderated discussion.

8 So, first and foremost, my members,
9 publishers of all types, are using and investing in AI
10 technologies as we speak and plan to do so going
11 forward. At the same time, the high-quality works
12 that they publish are very valuable for training AI
13 models. So, certainly, there's a lot of promise with
14 AI across all sectors, a lot of opportunities, but I
15 would urge policymakers not to be tempted to sacrifice
16 copyright in a race to advance AI. A strong
17 publishing industry is just as vital to prosperity and
18 the progress of science and the useful arts in an AI
19 era as it has been for centuries. Publishers and,
20 indeed, all creators need to be a part of these
21 conversations.

22 I think, two, that licensing solutions
23 remain the best tool for facilitating AI development
24 while protecting the rights of copyright owners and
25 licensees. Licensing preserves the incentives for

1 authors and publishers to create and it encourages
2 investment in high-quality data sets. The U.S.
3 copyright system has been successful in adapting to
4 new technologies for decades, centuries even, and can
5 accommodate to continue development of AI, and I think
6 overall changes to the copyright law framework at this
7 time would be premature. Thank you.

8 MS. KARL: Thank you, Terry.

9 Next, we have Ms. Chabala.

10 MS. CHABALA: Hi. Thank you so much for
11 allowing me to participate today. It's been great to
12 get everybody's input on this topic. So I'm a writer,
13 formerly an editor at Shondaland.com, and I have two
14 degrees in writing from USC, so I'm very connected to
15 a lot of creative writers and authors of books,
16 fiction, non-fiction, poetry, et cetera, and I also
17 have lots of writer friends and freelancers, and so
18 I'm really excited to kind of present the perspective
19 of all of us. Additionally, I'm also a budding music
20 producer and I'm surrounded by musicians, music
21 producers, artists, so, you know, I'm coming with the
22 perspective from those guys.

23 So the first thing real fast, just having
24 listened to everybody, it's not that myself or the
25 people that I associate with are against AI, but the

1 idea that we're all going to be using these programs,
2 that we all want to use these programs, that we want
3 to make everything more and more efficient, that's
4 something that, you know, I don't think should be
5 assumed. From where I sit, from where my writer
6 friends sit, and, you know, we're people who studied
7 the humanities, we're kind of asking ourselves why
8 things need to go faster.

9 Our society is just racing ahead faster and
10 faster and for what? I'm not sure. Technology is a
11 great thing, but, yeah, we've extended life span, but
12 then, at the same time, we've also extended disability
13 and incapacitation. So I think these are things that,
14 like, it's a really general idea, but I think it's
15 important for everybody to know that that's where, you
16 know, a lot of creators are coming from.

17 So I'm not sure how much more time I have.
18 I think that everybody's really covered the training
19 data and all of that very well. One of the things
20 that I just wanted to talk about is how we can use
21 copyright to ensure that the public knows what is and
22 is not written by AI or even partially written. I
23 think this is -- and we might all align on this,
24 right? But I think we can use copyright for that even
25 if it includes flexible copyright.

1 So I'm probably running out of time here,
2 but I think that doing so, ensuring that we know what
3 is created by AI and what isn't respects and
4 reinforces the sanctity and specialness of human-
5 generated works, championing human narratives, ideas,
6 and reason, which by virtue of being human are
7 filtered and shaped through invaluable lived
8 experience, inductive learning, and on-the-ground
9 research.

10 I think this is really important that we
11 understand how important that is and that it protects
12 writers' works from the devaluation that might ensue
13 as a result of a literary and journalistic marketplace
14 saturated with low-quality, low-effort manuscripts,
15 articles, queries, and submissions, and it can almost
16 most importantly protect us from disorienting
17 disinformation on a mass scale, which obviously can
18 have very real, very grave, real-world repercussions,
19 and this kind of system of whether it's, you know,
20 flexible copyright can allow AI to take up its own
21 space in the literary marketplace, one where AI is
22 competing transparently with other works, be they
23 human or from machines, which can be good for, you
24 know, AI and the creativity that can flow from that.
25 So I'll end with that.

1 MS. KARL: Thank you. Thank you, Tracy.

2 Next, we have Copyright Clearance Center.

3 MS. ZALLER ROWLAND: Thanks, Brandy. It's
4 really nice to be here today. Thank you for the
5 opportunity to speak. We're looking forward to
6 participating in this initiative and support the
7 Copyright Office in its efforts to develop policies
8 that will, as the U.S. Constitution mandates, promote
9 the progress of science. So CCC strongly supports a
10 well-functioning copyright system, one that respects
11 copyright ownership and licensing and enables lawful
12 uses and robust markets. We opened our doors on the
13 day that the 1976 Copyright Act went into effect, and
14 ever since then, we've been providing solutions for a
15 variety of copyright matters.

16 We offer voluntary licenses for millions of
17 literary works, including transactional and collective
18 options. We also offer software solutions that help
19 you search, discover, access, elaborate on and analyze
20 copyrighted works while being mindful of copyright
21 compliance. So one example, and it's pretty apt for
22 today's discussion, is that we've offered a right line
23 XML dilution which powers AI discoveries for over a
24 decade. That's all to say that CCC is fundamentally
25 committed to supporting the copyright system and to

1 provide solutions that help copyright work.

2 We appreciate that the issues surrounding
3 copyright and its intersection with AI technologies
4 are many, ranging from routine to incredibly complex.
5 Copyright comes into play at several points in this AI
6 journey, including when AI technologies use
7 copyrighted works as part of a corpus, include
8 copyrightable software, which is one thing I don't
9 think anyone has really talked too much about yet
10 today, and also result in various outputs.

11 While we are discussing literary works
12 today, these touch points are applicable to every type
13 of copyrightable work, and it's important to pay due
14 attention to each touch point and its importation
15 when we are discussing AI and copyright. So one way
16 to pay due attention is to ensure that licensing
17 continues to be a key part of this discussion. There
18 are already licenses in place for various AI-related
19 uses, and licensing is an obvious solution to many of
20 the issues that are raised by the use of AI technology
21 vis-a-vis copyright.

22 Licensing, including collective licensing,
23 offers an effective and efficient way for AI
24 technologies to use copyrighted materials while
25 respecting creators and copyright owners. Enabling a

1 robust licensing market and continuing to respect
2 balanced copyright systems will benefit creators,
3 owners, users, and technology overall.

4 So, again, thank you for letting me
5 participate today. It's been really interesting so
6 far, and I'm looking forward to discussing these
7 important issues further, so thank you.

8 MS. KARL: Thank you, Catherine.

9 Next up, we have Creative Commons.

10 MR. SLATER: Thank you. Good afternoon. My
11 name is Derek Slater. I'm a founding partner at
12 Proteus Strategies, which is a tech policy consulting
13 firm. I'm here representing Creative Commons today.
14 For those who don't know CC, different than CCC,
15 Creative Commons is a leading global nonprofit
16 organization that helps overcome legal barriers to the
17 sharing of knowledge and creativity, and CC is the
18 steward of the widely used Creative Commons license
19 suite for open content, and, you know, CC was really
20 built, the founding insight is all creativity built on
21 the past, all creativity built in the commons in one
22 way or another.

23 And that's true whether it was some of the
24 authors groups that we heard from in the last session,
25 people today or people who are going to be using AI

1 and certainly AI itself, and so, for many years,
2 Creative Commons has been looking at the interplay
3 between copyright and AI not just because we're
4 interested in the technology but because we're
5 interested in fostering people building on the commons
6 and contributing back to it to ensure better sharing.

7 And so, as generative AI has become really
8 prominent the last few months, we've been engaging
9 widely with different stakeholders, artists,
10 technologists, policymakers, in settings quite like
11 this to help think about the benefits and the
12 challenges, and I just want to summarize two of the
13 key takeaways.

14 You know, echoing some of what we heard this
15 morning, you know, AI isn't a homogenous technology.
16 There's also a huge diversity of uses and many
17 creators are benefitting. Professionals are
18 benefitting, creating fiction, non-fiction.
19 Organizations and companies are using it in various
20 settings as a productivity tool, and also there are
21 just sort of amateur uses or communities who use it.
22 You know, I'm, in fact, not in a jail cell today but
23 in a co-working spot we're right out there. There are
24 people working on new sets of tools to help people
25 translate, for instance, fiction writing into visual

1 storytelling, so bridging some of the sessions, and
2 this is early days.

3 For our part, you know, when it comes to
4 copyright law, it's important to keep that variety of
5 uses in mind. We think training on copyright works is
6 generally going to be lawful under fair use and other
7 exceptions. Similar to what the Copyright Office has
8 said, we think there should be significant human
9 creativity for something to be copyrightable.
10 Otherwise, AI outputs should not be copyrightable.
11 Nuances here matter. The facts are going to matter,
12 but we should be serving copyright's purposes,
13 building on the commons, growing it with further
14 material and tailoring solutions accordingly.

15 Finally, we also think norms and tools
16 outside of copyright are helping address key concerns,
17 so just echoing I think what Matt Sag said earlier
18 this morning, you know, there's still room to think
19 about what are best practices, and we've seen
20 companies who are adopting opt-out regimes of various
21 sorts. You know, Robots.txt, actually contra to what
22 we heard in the first session, is more flexible than
23 what people may think.

24 We've also had people come to us and say,
25 look, we know there's fair use, but we want to train

1 on Creative Commons licensed works. Help us do that
2 because that's how we want to build our tool to build
3 a sort of training commons. So we think collaboration
4 in settings like this can be really important and look
5 forward to the discussion. Thanks.

6 MS. KARL: Thank you, Derek.

7 Next, can we please have Internet Archives?

8 MR. ROUTHIER: Thanks. Hi. Good afternoon.
9 My name is Peter Routhier. I'm policy counsel at the
10 Internet Archive. Thank you to the Copyright Office
11 for organizing this session. Thanks to all the fellow
12 speakers sharing their views today.

13 I want to follow on something Derek just
14 said and note that I think it's important that we keep
15 in mind the purpose of copyright when we're looking at
16 new technology like this. As the Supreme Court said
17 in Harper & Row, copyright is intended to increase and
18 not to impede the harvest of knowledge. Put another
19 way, copyright ought to further the public's interest
20 in obtaining knowledge and learning and, of course, in
21 the progress of science and the useful arts, and
22 already today artificial intelligence is helping to do
23 this. At the Internet Archive, for example, we
24 digitize many texts that have only ever been made
25 available in physical form. Our Democracy's Library

1 Project digitizes many government works for
2 preservation, access, and a host of other uses.

3 There are significant constraints on our
4 ability to do so because there are generally no
5 commercial incentives to digitize these works even
6 though it serves the goals of copyright by increasing
7 the harvest of knowledge. So it is a great benefit
8 that we, as we digitize these works, can use
9 artificial intelligence and machine learning
10 technologies to help at many steps along the way.
11 That starts with something as simple as OCR tools,
12 which have been greatly improved through the use of
13 machine learning technology in recent years, to
14 metadata extraction and summarization using the latest
15 large language models.

16 Better and more efficient ways of digitizing
17 these works serves the purposes of copyright and ought
18 to be encouraged, and this is not, of course, the only
19 example. We've already heard many other ways today of
20 how this technology's helping ordinary people learn
21 from and create new works. We should let the robots
22 read. Artificial intelligence has the power to learn
23 things that no human could and has the potential not
24 only to serve copyright interests but to be of
25 tremendous value to society as a whole. Thank you.

1 MS. KARL: Thank you, Peter.

2 Next, we have News Media Alliance.

3 MS. ARATO: Hello. I'm Cynthia Arato of
4 Shapiro Arato Bach. I speak for the News Media
5 Alliance, which represents the most trusted publishers
6 in print and digital media in the United States, from
7 small local outlets to national and international
8 publications read around the world. Every day, the
9 Alliance's members invest in producing high-quality,
10 creative content that is engaging, informative,
11 accurate, and trustworthy.

12 The Alliance's members make significant
13 contributions to the U.S. economy. They play a
14 crucial role in informing our communities and
15 sustaining our democracy, and their ability to serve
16 these pivotal roles is increasingly imperiled when
17 they do not get fair credit or compensation for their
18 contributions. The critical task for this Office and
19 for legislators and stakeholders too is to facilitate
20 the growth of generative AI while ensuring fair credit
21 and compensation for the creators whose works make the
22 field possible.

23 Generative AI systems, while holding
24 promise, are commercial products that have been built
25 and are run on the backs of creative contributors.

1 These systems have been developed by ingesting massive
2 amounts of the creative output of publishers, often
3 without authorization or compensation, and they
4 disseminate that same content in response to user
5 queries, again, without authorization or payment and
6 often with little or no attribution or link to the
7 original news source.

8 Such disassociated output necessarily
9 results in zero clicks for the publishers, severing
10 the publishers' relationships with their readers,
11 reducing traffic to publisher sites, and damaging
12 publisher brands that have been built for decades.
13 Copyright laws should protect and not harm publishers
14 in this setting. Developers and deployers of
15 generative AI should not use expressive works without
16 authorization and should respect publishers' rights to
17 negotiate fair compensation for the use of their
18 valuable works.

19 The system should also be transparent to
20 publishers and users. They should identify the
21 content used to fuel their products and connect and
22 not disintermediate users with publishers. Protecting
23 publishers' legitimate intellectual property interests
24 will strengthen, not impede, generative AI innovation
25 because authorized use of publisher content can

1 improve the reliability and accuracy of AI products,
2 which will enhance system output and bolster consumer
3 confidence.

4 This is not uncharted territory. There
5 are existing functioning markets for licensing content
6 where compensation frameworks are already in place to
7 permit use in return for a payment, and copyright laws
8 have previously navigated issues of comparable scale
9 and complexity, resulting in a wide range of
10 mechanisms for consent and payment. We believe
11 copyright can do so again here. Thank you.

12 MS. KARL: Thank you, Cynthia.

13 Next, we have the Organization for
14 Transformative Works.

15 MS. ROSENBLATT: Hi. I'm Betsy Rosenblatt.
16 I'm a Professor of Law at University of Tulsa College
17 of Law, and I'm Legal Chair of the Organization for
18 Transformative Works, which is a volunteer-operated
19 nonprofit that advocates for fans and fan works,
20 including fan fiction, and we're in the unique
21 position, I think, of being creators, users, and re-
22 creators of works, as well as an online service
23 provider of a volunteer-coded website.

24 I want to start with the understanding that
25 not all language learning models or other AIs operate

1 the same way. They operate differently both in the
2 way they create models and train models and the ways
3 they generate output, and so we may not be able to
4 make generalized rules about AI, and that's fine. We
5 shouldn't require ourselves to.

6 On to what the Organization for
7 Transformative Works thinks, if only one thing comes
8 out of this process, I think it should be this: That
9 it is crucial to divide copyright's relationship with
10 generative AI into three wholly separate questions.
11 Each of these questions is independent of the others,
12 and mixing them together muddles the relevant legal
13 questions and will lead to incoherent results.

14 The first is, when is and isn't crawling and
15 scraping for training purposes infringement? The
16 second is, when an AI generates or is used to generate
17 something substantially similar to a copyrighted work,
18 who is responsible for the infringement? And the
19 third is, when an AI is involved in generating a work,
20 who, if anyone, owns copyright in the work? These are
21 wholly separate questions, and I want to address the
22 first one, which may well be the thorniest and most
23 polarizing, perhaps especially among Organization for
24 Transformative Work members and volunteers. This is
25 deeply, viscerally tied to people's senses of

1 morality, fairness, and even their senses of self.

2 Regarding this question, precedent indicates
3 that many types of scraping for purposes of machine
4 training either does not implicate copyright at all or
5 constitutes fair use under, for example, the Google
6 Books precedent, but different systems are different.
7 We must consider what a training model actually fixes
8 in a tangible stable medium of expression. Many do
9 not fix works in a tangible medium of expression at
10 all. They process works into math without saving them
11 in any specifically recoverable way and thus don't
12 implicate copyright at all, and if they do reproduce
13 works, we need to consider fair use, how the use
14 transforms the works, how the use affects the market
15 for the works.

16 At the same time, we must consider the
17 deeply, intensely-held reactions of those whose works
18 are incorporated into training models. Here's what
19 bothers them: not being asked, not being allowed to
20 opt out, not getting attribution for their
21 contributions, and this is true especially if and when
22 those contributions have the ability to generate works
23 similar to theirs.

24 MS. KARL: Thank you, Betsy. I'm sorry.
25 We're going to have to move on. If you can save for

1 the rest, I appreciate it.

2 Then, next, we have the Software and
3 Information Industry Association.

4 MR. MOHR: Hello. Hi. Thank you for the
5 opportunity to participate. My name's Chris Mohr.
6 I'm the President of the Software and Information
7 Industry Association, or SIIA. We are the principal
8 U.S. trade association for those in the business of
9 information. Our 500-plus member companies include
10 platforms, financial information providers,
11 scientific, technical, and medical publishers,
12 database publishers, and educational technology firms.
13 We are deeply involved in many of the questions
14 surrounding AI development, ranging from its
15 implications for privacy to automated decision-making
16 to broader implications for U.S. global
17 competitiveness.

18 We believe that in order for the technology
19 to reach its full promise it must be transparent and
20 ethical, and we're supportive of efforts by NIST,
21 among other agencies, to develop guidelines for
22 responsible AI use. Our mission is to protect the
23 three components of the information life cycle,
24 namely, creation, dissemination, and productive use.
25 A healthy copyright system is essential to the health

1 of that life cycle, and we thank the Office for
2 convening this group to discuss the implications of AI
3 on that system.

4 One of the strengths of the copyright law is
5 its technological neutrality, and if you don't believe
6 that, I've got a digital audiotape machine I'd love to
7 sell you. Copyright's evolution is driven by new
8 technology, and that pattern continues in its
9 application to AI.

10 I'd like to make three quick points in
11 advance of today's conversation. First, a robust
12 licensing environment is essential to the health of
13 the business of information, and we as a group have
14 dedicated much of our institutional existence to
15 enforcing the certainty of licensing arrangements.

16 Many of our members already license
17 protected works for text and data mining. Copyright
18 has always functioned as a property right against
19 which that licensing occurs, and that has to continue.
20 It does not follow that all AI uses must be licensed.
21 Whether a particular use is or is not fair will depend
22 on one of several of its well-known factors. Our
23 overall view is that the doctrines of equity contained
24 in fair use are going to be more than adequate to sort
25 the proper use from the improper use.

1 And, finally, we don't believe that existing
2 copyright law requires change to handle AI output or
3 authorship. The Copyright Office both in its
4 registration denials for AI-generated works and
5 subsequent guidance have reached the right
6 conclusions, though we have some concerns around the
7 edges similar to what you heard in the last panel.
8 But, overall, the good news is, I think, that these
9 registration decisions line up with judicial and
10 agency interpretations, for example, in other areas,
11 like patents, which find that human beings are
12 required to meet both statutes' inventorship or
13 authorship requirements. Thank you again for inviting
14 me to be part of the conversation.

15 MS. KARL: Thank you, Chris.

16 Our final panelist today is from Yale Law
17 School.

18 MS. KHAN: Hi. Good afternoon. My name is
19 Mehtab Khan. I am an Associate Research Scholar at
20 Yale Law School's Information Society Project. I work
21 on the intersections between intellectual property,
22 specifically, copyright law and data governance, and
23 at present, I'm studying the connections between the
24 ex-ante processes of AI development and how they
25 impact downstream intellectual property rights. I'm

1 interested in the multifaceted nature of the
2 development of AI tools, including but not limited to
3 generative tools, and the various stakeholders that
4 are implicated at the input stages.

5 I have a few comments based on my current
6 work that might be helpful as we move forward in this
7 conversation. The first comment is that we need to
8 take into account the steps involved in the creation
9 of these tools and the copyright issues that arise at
10 each stage that may be beyond just determining whether
11 there has been unauthorized copying or whether that
12 copying is fair use or not.

13 There are important policy reasons for
14 taking into account these various stages. It helps
15 firstly lend clarity to who the stakeholders are.
16 There seems to be a disconnect between the copyright
17 holders, who are concerned about the output, and who
18 might they direct their complaints towards. Is it the
19 platform that is hosting the tool? Is it the
20 developers who are this abstract category of people
21 and entities who are responsible for creating the
22 tools? And who are the collectors of these
23 copyrighted works that go into training of these data
24 sets? So it's important to take into account the
25 various stages involved and who these stakeholders

1 might be.

2 Another reason to take into account these
3 different stages is that we don't want to risk placing
4 too much responsibility to interpret and react to the
5 output created on the users and on the downstream
6 providers and users of these tools because they lack
7 the capacity to access and understand the core
8 components of the technology. There's more power and
9 more information available at the input stages, and so
10 it makes it more critical to identify who these
11 entities and stakeholders are so that we might be able
12 to discern who might be responsible for what action
13 purpose.

14 The second comment I have is that we need to
15 take into account sector-specific issues and not move
16 towards a one-size-fits-all solution, so authors might
17 have very different concerns from artists, especially
18 small-scale artists, who might have very different
19 practices and expectations when it comes to their work
20 being used, and that also means taking into account
21 norms of an industry. Software sharing might be very
22 different from how artists share their work or how
23 fans share their work in fan fiction or how open-
24 knowledge projects like Wikipedia have distinct
25 guidelines on how knowledge may be shared.

1 The last point I would make is that we
2 should remember that this issue of how copyrighted
3 works are used to create AI tools is and should not be
4 limited to just generative AI but also to how AI
5 development takes place in general to create various
6 applications and purposes and how copyright is
7 implicated over there as well both at the input and
8 the output stages. Thank you.

9 MS. KARL: Thank you, Mehtab. If you can
10 continue that thought when we move to the questions,
11 that would be wonderful.

12 We're going to start off with our first
13 question. Thanks again to all of our panelists for
14 introducing themselves. Welcome again, and we're
15 going to start with the question, what artificial
16 intelligence technologies are you or others in your
17 industry using in the creation of new works? Please
18 use the Raise Hand function and we'd ask everyone, all
19 of our panelists, keep their cameras on. And, first,
20 we have Sy.

21 MR. DAMLE: Hi. So I want to use this
22 question as an opportunity just to sort of get a
23 little more granular about how these technologies
24 actually work, how they're trained. Some of that was
25 discussed earlier. So I think the important point to

1 understand is that in the context of these large
2 language models like chatGPT that the algorithm
3 fundamentally is learning facts about language,
4 unprotectable facts about language, not actually
5 retaining the content of the works themselves.

6 So I think other people in the prior panel
7 talked about the fact that this is not a collage
8 machine. What it's doing is it's sort of taking the
9 works apart, all the works in a training set apart and
10 trying to learn about things like statistical
11 correlations between words, so, like, just to get a
12 little more granular, what typically happens in one of
13 these tools is that you take all of the works and you
14 don't ingest them sort of one at a time. What you're
15 doing is you're breaking them into pieces and you're
16 feeding those pieces into the AI tool sort of
17 randomly, and so the model isn't learning the entire
18 work. It's, like, actually not, like, possible to
19 given the way that the works are fed into them, but
20 they're learning about statistical correlations
21 between the pieces of the works.

22 So just to give, like, a very specific
23 example, the model might learn that across the
24 entirety of the English language the words "Today is
25 a" are much more likely to be followed by the words "a

1 beautiful day" or "Tuesday" rather than the word
2 "green" because "Today is a green" wouldn't make
3 sense. Those words don't appear together in the
4 English language at all, if maybe very infrequently.
5 And it might also learn that if the word "rain" is in
6 close proximity to the words "Today is a," that the
7 word "Tuesday" is more likely to be the next word that
8 follows rather than the words "beautiful day." So
9 just a very tiny example of the kinds of statistical
10 correlations that it's learning, right? These are
11 unprotectable facts about language that it's learning,
12 and that's what it's storing. It doesn't store the
13 words themselves.

14 And then, on the output side, the model is
15 taking these factual statistical correlations and then
16 using them to decide with a fair amount of randomness
17 what word should come next over and over, sort of a
18 very, like, advanced auto-complete, and so, as we've
19 all seen for those of us who have used chatGPT and
20 other tools like it, what is output are works that are
21 sort of radically different than anything that the
22 model was trained on because all the model "knows" are
23 these statistical correlations about the relationship
24 between concepts and language. Those are all
25 unprotectable, and that's what's stored in the model,

1 so I just wanted to make that point about the
2 technology.

3 MS. KARL: Thank you, Sy.

4 Next, can we have Terry?

5 MR. HART: Yeah, thanks. So I wanted to
6 answer this question but quickly respond to Sy and
7 something one of the previous panelists also said just
8 to make this point, you know, I think one of the
9 benefits of the Copyright Office doing these listening
10 sessions and learning as much as it can about AI is to
11 understand, you know, how it works and how that
12 intersects with how the Copyright Act works, and so,
13 specifically -- and I think, certainly, there's a lot
14 correct about what Sy has said about how certain large
15 language models work.

16 But I think also it's correct that at some
17 point any large language model or any AI that's being
18 trained on a corpus of textual works is at some point
19 going to be making a reproduction or some type of use
20 of a copyrighted work that at least on its face would
21 be considered protected by one of the exclusive rights
22 under 106, whether it's actually a reproduction,
23 whether it's some kind of derivative work where there
24 may be tokenizing the book, sends it into a version
25 that the machine can read and understand, which, you

1 know, going back to my original point about the
2 Copyright Act being technologically neutral, you know,
3 it does cover reproductions that are made and versions
4 that are machine-readable rather than human-readable.

5 So I think, in many cases, there is at least
6 a prime facie instance of reproduction or some type of
7 other protective copyright use. Now, whether, you
8 know, I think it's a much more challenging question
9 whether in the end that's protected by fair use or
10 excused by fair use or not, you know, certainly, a
11 much more complex question. I think, in certain
12 instances, it could, in certain instances, it could
13 not, but did want to just at least, you know, make
14 that point that I think, in many instances, there will
15 be a prima facie instance of copying that if not
16 excused by fair use would constitute infringement.

17 So that said, I'm going to the question
18 about how AI technologies are being used by my members
19 in the industry, and, you know, they are widely
20 divergent between the trade book side, between the
21 scientific journals, scientific and scholarly
22 publishers, educational publishers, higher ed, K
23 through 12, so they're all using AI technologies in
24 different ways, including using them for translation,
25 for research integrity, for marketing, assessing

1 scholarly impacts, and plenty of other applications.

2 And what I would offer to the Copyright
3 Office is that most of my members would be eager to
4 demonstrate, you know, in one-on-one sessions with the
5 Copyright Office how they're using certain AI
6 technologies, so I wanted to offer that. You know,
7 AAP, I would be happy to help facilitate those
8 sessions, you know, to the extent that you think you
9 would find those types of demonstrations helpful.

10 Thanks.

11 MS. KARL: Thanks so much, Terry.

12 Chris?

13 MR. MOHR: Thanks. So a few things. I
14 mean, so our members are using this technology in a
15 wide variety of circumstances. One is a large
16 language model. Another is, ironically enough, in
17 compilations in ways that have been going on for quite
18 some time in the sense that some of what our members
19 do is to provide, you know, your customer data. When
20 you do that, there are probabilities that are used --
21 this is AI -- to comb through a huge data set to
22 figure out which John Smith are we talking about here
23 and which information is relevant to him.

24 Answering those questions requires
25 selection, coordination, and arrangement of what's

1 likely to be relevant and what isn't. That has been
2 around for a while. It's going to continue. It is
3 not, I think -- and in order to do that, it requires
4 copying of a variety of different works.

5 We have folks who are in what we call the or
6 they call the alt-data business, and what that is is
7 they use AI to -- the easiest example is to track
8 market sentiment based on, around a given security,
9 using publicly available data that may be on the
10 internet, and we also see it in the use of plagiarism
11 detectors, as well as even we see our educational
12 technology providers experimenting with it to do
13 things like have it write draft questions at the end
14 of a learning module that are then reviewed by humans
15 to be sure they're okay, and they are attributed to AI
16 generation. So we use it -- our members, rather, use
17 it in a wide variety of circumstances.

18 MS. KARL: Thank you, Chris.

19 Catherine, can we have you next, please?

20 MS. ZALLER ROWLAND: Sure, and I wanted to
21 start by saying that everybody uses AI in some ways
22 even if you don't realize it, right? So, if you're in
23 your email and you're typing, you know, something and
24 it just pops up through the auto-fill, then you've got
25 some sort of technology involved there. There are so

1 many different ways of doing it.

2 The way that CCC is involved is their
3 licensing, as I've mentioned before, but the licensing
4 is for all sorts of AI-related uses, machine learning,
5 training, that kind of thing. What we're looking at
6 is how you can use technology and licenses to go ahead
7 and help the entire system. So, for example, we have
8 our license that people use that is mostly based on
9 scientific material, so there are people using it in
10 those fields, and then you also have it, as Chris was
11 mentioning, we have a license that involves some sort
12 of abilities for curriculum if you have kind of -- or
13 you answered one question one way and then you have to
14 ask another question, et cetera. There are some sort
15 of AI capabilities that are licensable through that as
16 well.

17 So there are licenses that do cover some of
18 these things, many of these things, in fact, so there
19 is a market that's there that is operating, and one
20 thing I wanted to mention about that is that, you
21 know, regardless of what country you're in or what
22 license you operate, this is a global economy that we
23 live in and a global copyright world, right? So you
24 might have a law here in the United States or not a
25 specific law but an interpretation, and a completely

1 different country might have a different way of doing
2 things, right?

3 So there are a variety of countries with
4 different views, so licensing is one of those ways
5 that we've been involved that helps people be able to
6 understand, like, what can they do in an ethical,
7 compliant way and be able to make sure that they know
8 what they're getting. And one thing I just wanted to
9 quickly mention about, you know, the facts that, you
10 know, what if we're just trying to get the facts?
11 What are we trying to do with this? There are so many
12 different kinds of AI technologies and use cases, but,
13 if you have something that's in a copyright protected
14 work, you still have a copyright protected work at
15 issue that you have to consider and how to deal with
16 that, so, you know, you've got the expression of these
17 facts. You've got the context around them. A lot of
18 these things are really important for training your
19 systems. With that, I will turn it back to you.

20 MS. KARL: Thank you, Catherine.

21 We are going to transition to the next
22 question and on to my colleague, Keyana, but, Betsy
23 and Cynthia, if you would please include your answers
24 to this question along with the next one, thank you so
25 much.

1 MS. PUSEY: Thanks, Brandy.

2 So the next question is, what do you think
3 the Copyright Office should know regarding how AI
4 systems generate literary material, whether that be
5 fiction, non-fiction, or code?

6 And, Betsy, you can go ahead.

7 MS. ROSENBLATT: Sure. I wasn't ready for
8 that one. I was ready for the one that we were just
9 talking about, but the Organization for Transformative
10 Works does not make much use of generative AI itself,
11 although it may use it to assist in creating and
12 refining its code, which is all open source.

13 That said, many fans, including disabled
14 fans, especially disabled fans, depend on generative
15 AI to create and consume works. Other fans are
16 exploring what various generative AIs can make, but,
17 by and large, fan works are expressive of a fan's own
18 particular creative interest in self-expression, and
19 so AI cannot replace fan-created works. It may well
20 and I think be encouraged to contribute to the body of
21 fan works overall, and so fans may not oppose the use
22 of AI to create works or engage in brainstorming but
23 do have serious concerns about AI being used
24 deceptively, especially without disclosure, and I
25 think that's a combination of strongly held anti-

1 plagiarism norms and pro-attribution norms in fandom.

2 And I'm genuinely not ready for the previous
3 question, but I would love to continue what I started
4 to say at the beginning, which is that what fans are
5 concerned about mostly is they're not concerned with
6 payment because they're making a different kind of
7 work. They are concerned with their deeply held
8 beliefs about plagiarism and attribution, and so, when
9 we think about how works are used to be interpolated
10 into training models, I think fans would say we need
11 to consider a number of things.

12 We need to consider how the learning models
13 work, what kinds of works they scrape, the
14 retrievability and perceivability of scraped material,
15 how the model uses what is scraped to create new
16 works, the serious social and communicational
17 drawbacks of limiting scraping to only public domain
18 works, which are archaic, and we know that perpetuates
19 bias and outdated ideas, and also when and to what
20 extent opt-out is feasible. So I may come back later,
21 but those are my thoughts at the moment.

22 MS. PUSEY: Thank you, Betsy. Sorry to have
23 caught you off guard there, but thank you for your
24 insight.

25 Cynthia, did you want to answer this

1 question as well, or was your hand up for the last
2 question?

3 MS. ARATO: No, I'd like to answer this
4 question, and one feeds into the other. So I'd say I
5 want to talk about three things, the quantity and the
6 quality of the copying that is being done, as well as
7 the lack of transparency. So I think, when the
8 copying is being done to fuel these AI products, the
9 entirety of works are being copied, and that includes
10 the entirety of the expression in what are valuable
11 creative expressive works. It seems artificial to
12 talk about how the copying is being done just so a
13 system can figure out one isolated word to put after
14 the next.

15 Ultimately, those words form sentences which
16 form paragraphs which form entire creative works, so I
17 think that the comment Sy made seems to disaggregate
18 the process into nothing and ignores the reality that
19 the expressive work's being copied, and I think some
20 AI systems are able to generate whole paragraphs in
21 the style of particular authors, so I think that it
22 goes way beyond isolated facts.

23 And then there's just a lack of
24 transparency. There's a lack of transparency to users
25 and to content owners. So many of these systems may

1 fail to provide source attribution, so when responses
2 are given to users, they're done without knowing the
3 original source of the material and the same for
4 publishers. The systems ingest massive amounts of
5 content without identifying the works that have been
6 copied or from where those works have been obtained.

7 MS. PUSEY: Thank you, Cynthia.

8 We're going to go to Tracy.

9 MS. CHABALA: Yeah, I think that there's
10 very broad use of these models, obviously. There's
11 also many different types of writing, very, very broad
12 there, and we'll have to distinguish between using AI
13 to follow the style rules of Strunk & White from using
14 AI to write whole books, fiction, non-fiction.
15 Obviously, we need to look at research-based works
16 differently than literary works.

17 There's a big difference between using an AI
18 to aggregate static information for a research paper
19 or using it to generate ideas for a philosophical
20 work, and I think once again we're kind of getting
21 caught up on writers using AI as tools rather than
22 really looking at generative AI, which is about
23 creating whole works, so I think it's really important
24 to not be disingenuous about the fact that that's
25 happening, right? It's not just writers using it, you

1 know, as little ways to streamline their work.

2 And then, again, I'd like to emphasize that
3 not all writers are using generative AI at all, right?
4 I use an AI transcription program. I don't believe
5 that's generative AI. It might be and I'm unaware of
6 it, but, you know, yeah, I think it's important to
7 emphasize that.

8 MS. PUSEY: Thank you.

9 Derek?

10 MR. SLATER: Sure. I think, in helping to
11 think about how these tools are trained, again, it's
12 not a homogenous group. There's a whole variety of
13 systems. It's really useful to go to the framework
14 that I think Betsy started to tease out of separating
15 training and then the output itself and even go
16 further, so you could start with a sort of collection
17 of the data, and as we heard, some of that can be
18 scraped from websites. You know, I think, Cynthia was
19 just saying, well, it shouldn't make a difference if
20 it's the whole work. It feeds, you know, a word feeds
21 into a page, feeds into an article.

22 But, in fact, I mean, that really does and
23 has made a difference in copyright. That is to say,
24 the copying of a whole work as an intermediate step in
25 non-infringing uses can be legitimate. The whole work

1 getting copied is not dispositive. Talked a little
2 bit earlier about Google Books, but there are other
3 cases like Sega v. Accolade and Sony v. Connectix
4 where, yes, they copied the whole software in order to
5 take the unprotectable elements and create a whole
6 interoperable video game or video game system, so that
7 has the same sort of logic that I think Cynthia was
8 speaking to and again was a fair use. So there's that
9 part of collecting the data, potentially scraping the
10 LLM.

11 Looking at that in its own right is also
12 important because you can think about interventions,
13 and these don't have to be legal interventions, but
14 the sort of voluntary ones that, you know, we've
15 talked about with opt-out and so on. Robots.txt we've
16 heard about so far is one, and just to be really
17 clear, it's not true that it's sort of all or nothing.
18 You can choose to opt out of certain user agents to
19 not have them scrape your site or parts of your site
20 and allow other agents to do so, and, yes, libraries
21 and research institutions might decide, you know,
22 we're going to scrape it anyway because that's our
23 archival mission, and it's good that the law doesn't
24 prohibit it, instead we have voluntary best practices
25 to help mediate that exchange. That's the scraping

1 portion.

2 Then, again, there's sort of the training.
3 We're subtracting that sort of uncopyrightable
4 elements looking at the works as data to create a
5 model. Again, that's an intermediate step to then the
6 eventual output, and this is where I think the rubber
7 really meets the road. I think Tracy was just
8 speaking as a bit of, well, in some cases, you're
9 using it maybe to assist you to do -- I love it for
10 citation, for doing my citations, so Strunk & White
11 style is a great example or maybe just like, look, I
12 need to break my writer's block. Like, help me think
13 of something for this character. But there are other
14 examples that are more difficult where the output may
15 incorporate or be used in a way that incorporates
16 something that is substantially similar to the
17 original.

18 And, again, as I think The Authors Alliance
19 said earlier, we have legal tools to think about that,
20 the substantial similarity test, and then the question
21 is, well, you know, who is responsible? The user is
22 the one doing the prompt. We have tools like
23 secondary liability to think about whether the tool
24 creator themselves is contributing or not. I think,
25 in most cases, they aren't. It's the user who's doing

1 it. But I think this helps explain why it's really
2 important to separate out those stages, to think about
3 the types of interventions that the law does and
4 should make and then other sorts of interventions we
5 might make around transparency, attribution, and so
6 on.

7 MS. PUSEY: Thanks, Derek.

8 Sy?

9 MR. DAMLE: So I want to just emphasize a
10 point that Derek just made and sort of fold it back
11 into a point that I was making, that the way that the
12 law works in this area is that you don't look at the
13 sort of, you know, intermediate copy in isolation.
14 Every case is looking at the purpose of that
15 intermediate copy. Sony, Sega, Google Books even, all
16 look at what is the ultimate purpose, what is the
17 output.

18 And so, as I started with, I think there are
19 sort of two points here that I haven't really heard
20 anyone dispute. One is the copies are being made not
21 to store those copies. The copies are being made here
22 to learn in the service of extracting unprotectable
23 facts from them, right? So that's point one. I don't
24 think anybody is really disputing that.

25 Second is that the output, except in the

1 really rarest of circumstances, is not going to be
2 substantially similar in a copyright sense from
3 anything that the AI model has been trained on, and so
4 what are we left with? We're left with -- well, I
5 think Cynthia made the point that, well, it may
6 replicate the style of an author, you know, that the
7 tool was trained on.

8 Well, I mean, like, it would really extend
9 copyright, you know, copyright law beyond its
10 recognizable bounds to say that creating something in
11 the style of an author is copyright infringement. If
12 I were to, you know, compile the collected works of
13 Stephen King simply so I can emulate his style of
14 writing, I don't think anybody would say that I have
15 infringed his copyrights by doing that, and so I think
16 the fact that the same thing is achievable by a
17 computer doesn't really alter that fundamental
18 copyright point. And so I think all of that, again,
19 points very strongly towards the conclusion that I
20 think the entire industry's been operating under,
21 which is that what is happening to train these AI
22 models is quintessentially fair use.

23 MS. PUSEY: Thanks, Sy.

24 I'm going to pass it to Mehtab and then to
25 Brandy for the next question.

1 MS. KHAN: I just wanted to make a quick
2 point about the technology and how I would caution
3 against equating copyrighted works with less or more
4 bias and examining that relationship more critically.
5 The creative works embeds certain world views and
6 points about communities or views about certain people
7 regardless of the copyright status of that work, and
8 so using copyrighted works does not necessarily mean
9 that the output that we produce is going to be biased
10 or not biased or not have certain representations.
11 What the output will do is simply entrench or
12 reproduce some of the existing features and
13 representations that are in the input stages that
14 already exist there.

15 MS. PUSEY: Thank you.

16 Brandy?

17 MS. KARL: Thank you.

18 So our next question, is are you aware of
19 the Office's registration guidance with respect to
20 works containing AI-generated material? What
21 questions or concerns do you have about that guidance?
22 And it looks like we have Cynthia. Oh, wait. No, you
23 were still just hands up. Terry. I'm sorry.

24 MR. HART: Thanks. So, yes, we're aware of
25 the Office's registration guidance. I think, in

1 principle, like many of the panelists on the first
2 panel recognized, that the Office has taken the
3 correct approach and, really, the devil is in the
4 details, so I wanted to just point out one suggestion
5 I had and then highlight what I thought were some of
6 the biggest concerns there.

7 So my suggestion is to encourage the Office
8 to commit to transparency and stakeholder consultation
9 going forward, as it has with this guidance, as it's
10 done with its compendium and its other resources which
11 are extraordinarily helpful.

12 But I would extend that here also to its
13 development of its own internal registration policies
14 and procedures and training materials because, in this
15 field, where things are kind of advancing very
16 rapidly, where there's a lot of unknown unknowns about
17 the registration and copyright questions that'll come
18 up, I think it's really important to have that level
19 of transparency into how the Copyright Office is
20 approaching things and that ability to consult with
21 copyright registrants so that they have a level of
22 certainty about how they're registering their works
23 and are able to offer, you know, really useful
24 feedback.

25 So, you know, I'm not suggesting, you know,

1 throw open the doors and throw all your internal
2 policies out there. But, you know, I think there's
3 certain things the Office can do in terms of, you
4 know, just informal consultations with stakeholder
5 groups to get feedback on discrete policies or maybe
6 even a working group of stakeholders to see, you know,
7 as things progress and as the Office confronts more
8 and more registrations where there may be AI-generated
9 work incorporated in some fashion that it's able to
10 refine and develop its practices in a way that makes
11 sense to the overall copyright system.

12 So that said, you know, I just wanted to
13 highlight some quick concerns. Some of these have
14 been mentioned already. One, of course, you know,
15 there's, I think, a lot of lack of clarity as to what
16 degree of human interaction or editing is going to
17 create copyright authorship over a generative AI work.
18 Relatedly, I think there's a concern that in some
19 instances that distinction may be indeterminate, you
20 know, as far as, you know, kind of working iteratively
21 with generative AI tools. Like, what part of that is
22 attributed to human authorship? What is attributed to
23 just the tool operating in a way that doesn't give
24 rise to human authorship?

25 I've heard concerns that the disclosure rule

1 for disclosing AI-generated content may differ from
2 the other types of disclaimers that registrants are
3 already supposed to make, so, for example, disclaiming
4 public domain materials where maybe a generalized
5 statement may suffice.

6 MS. KARL: Terry?

7 MR. HART: And finally -- could I just --
8 one quick last point. I just finally wanted to point
9 out some of the burdens that the rule may put on
10 registrants going forward and then, with my members,
11 in particular, with publishers, they may actually lack
12 the knowledge of what their authors that they are
13 putting out there have used in terms of AI-generated
14 tools, but the publishers themselves are making the
15 application, so there may be a burden there and some
16 uncertainty. Thanks.

17 MS. KARL: Thanks, Terry.

18 Derek, and also can I have the remaining
19 hands two minutes because we need to move on to the
20 rest. We're tight on time. Thank you.

21 MR. SLATER: Yes, just to echo the, yes,
22 aware of it, aware of the guidance. We were happy to
23 see affirmatively put forward there to have some sort
24 of requirement for significant human creativity, the
25 Copyright Act be incentivizing human ingenuity and

1 creativity. That should remain the case, so we were
2 happy to see that. We also think that helps fuel the
3 commons of more stuff that people can build on in
4 useful ways, and that's consistent with the Copyright
5 Act and with Creative Commons' mission.

6 I think, as been discussed, it's going to
7 get more complicated as people mix more deliberately
8 their creativity with the automatically generated
9 works. I think, you know, that's true in literary
10 works, and in the subset, as Jule said earlier, of
11 software, I think it's even more dicey, so I'll just
12 echo, I think, I'm sure we'll get to have more
13 discussion about this, but I appreciate you driving
14 the conversation forward.

15 MS. KARL: Thank you, Derek.

16 Chris?

17 MR. MOHR: Thanks. Briefly, so as I've
18 already talked about we are supportive of the
19 conclusion in the guidance. There's a couple areas
20 where we think it could be fleshed out a bit more.
21 There was some concern, I think, that in places the
22 guidance could be read as a bit draconian in tone in
23 terms of its consequence, and that is a problem
24 retroactively for folks who may already have
25 registered their works under a different set of

1 assumptions, and so that would be a problem that I
2 would encourage the Office to reflect on as it fleshes
3 this issue out.

4 The second piece, and I think Terry alluded
5 to this, is that there is a mention of de minimis
6 contribution in the guidance. I think we know what
7 that means. Spell or grammar checking is a de minimis
8 contribution. But, if the Office has particular
9 examples in mind, it might be useful to flesh those
10 out in either a revision or in the Compendium. And,
11 finally, I think, you know, part of this conversation,
12 I think, is a little bit confusing, and it may just be
13 because it's a conversation, not a series of legal
14 briefs going back and forth.

15 But I got to tell you I had a hard time
16 finding much of what Sy said as inaccurate in terms of
17 describing how these models work, whether the
18 reproduction right is implicated. I think, in most
19 cases, we're assuming that it is, unless there's an
20 excuse, whether through an implied license or through
21 a fair use analysis, but in terms of finding
22 statistical relationships between different pieces of
23 work, language, what's likely to come next, that, I
24 think, is standard for how all of this stuff works,
25 and so, I mean, if we are proceeding off of mistaken

1 assumptions, it would be helpful, I think, to have
2 some record of why specifically those assumptions are
3 wrong, and at least for myself, I didn't necessarily
4 hear that at least with respect to the technical
5 operation of these bots.

6 In any event, I know we're getting close to
7 wrap up, so thank you again for inviting us to this
8 conversation, and we look forward to further
9 engagement with the Office as this develops.

10 MS. KARL: Thank you, Chris.

11 Just to preview what's happening next, we're
12 going to take Tracy, Betsy, and Peter, and then we
13 will transition to our last question, along with combo
14 closing statements and it is going to be tight, so
15 please let's try to get through our statements. Thank
16 you so much. Tracy?

17 MS. CHABALA: Yeah. So this isn't so much
18 of a concern as much it is just a thought that as we
19 move into the future, you know, this prompt
20 engineering, despite everything I've sort of said, can
21 be a really creative endeavor that's quite innovative,
22 and so I can see eventually somebody kind of arguing
23 that that work in and of itself is substantial and,
24 therefore, you know, something deserves a copyright on
25 those grounds, especially because I have kind of just,

1 like, watched what goes on on MidJourney, and I can
2 see there's all these revisions. There's, you know,
3 all sorts of effort that does go in there. It's just
4 a thought.

5 MS. KARL: Thank you, Tracy.

6 Betsy?

7 MS. ROSENBLATT: Yeah, I agree with Derek's
8 comments about the importance of valuing expression
9 that originates with humans. I also want to identify
10 a couple of places where I think the guidance is going
11 to require additional difficult line-drawing. Many,
12 many works are and long have been generated with the
13 assistance of AI but not by AI. We need to consider
14 that line. The line between original authorship and
15 detailed prompting, as Tracy just brought up, the line
16 between selection and arrangement of otherwise
17 uncopyrightable AI-created works and the creation of
18 AI works themselves. And, also, I would encourage the
19 Office to consider to what extent the rules encourage
20 lying and/or self-delusion among authors.

21 MS. KARL: Thank you, Betsy.

22 Peter?

23 MR. ROUTHIER: Thanks. Yes, we've seen the
24 guidance and like I think almost everybody has said,
25 we generally support it, in particular because it's

1 based on the longstanding principle that copyright law
2 is for human authorship and that that's part of what
3 furthers -- that's what copyright's supposed to be
4 about, and I just wanted to note that I'm sort of
5 actually struck by the fact that I've been watching, I
6 think, both panels. I've heard almost everybody
7 comment on it, and it seems like there's broad
8 agreement that the registration guidance is pretty
9 good in that regard, and I think that's evidence that
10 our existing copyright rules and the existing
11 copyright structure is actually working just fine in
12 this area right now.

13 MS. KARL: Thank you, Peter.

14 Keyana?

15 MS. PUSEY: Thank you.

16 So, again, just asking this last question
17 and ask that you briefly provide any answers you may
18 have with your closing statements. So the question
19 is, how is the training or the output of artificial
20 intelligence affecting your field or industry? And,
21 Tracy, did you already have your hand up from the last
22 time or should we go to Betsy? I'm sorry, I couldn't
23 tell.

24 MS. CHABALA: No, you can go to Betsy. I
25 said -- yeah.

1 MS. PUSEY: Betsy?

2 MS. ROSENBLATT: Thank you. Right now, I
3 think what we're hearing from fans is that some fans
4 want to be able to opt out of having their work
5 scraped and they have expressed the idea that if their
6 works are going to be scraped they might not be worth
7 making. On the other hand, we've heard a lot of
8 enthusiasm about the potential for what AI can do and
9 bring to fan communities.

10 Some of the concern, I think, is tied to the
11 very idea of scraping being emotionally charged, but
12 more and more I think it seems tied to the idea that
13 scraping their works will result in generating works
14 very similar to their own without attribution, and I
15 think we should consider the role of attribution in
16 this area in a way that perhaps copyright law may not
17 do a lot of yet. Thanks.

18 MS. PUSEY: Thank you.

19 Cynthia?

20 MS. ARATO: Thank you. Generative AI is
21 impairing the traditional licensing markets that exist
22 between content creators and the other companies.
23 It's also harming the relationship between publishers
24 and users by providing more proprietary content from
25 original sources without attribution and

1 disassociating the output from their sources.

2 One point, I think we do dispute that the
3 output from these systems can be -- that is not --
4 sorry. We do dispute that the output from these
5 systems would not be substantially similar to creative
6 content that we own. Sy gave a visual example of
7 artwork but no example regarding text, and we think
8 that it's very easy to have text that's generated by
9 the AI be substantially similar.

10 And then the last point I just want to make
11 is echoing what Edward said in the original session.
12 There are tremendous roadblocks to registering dynamic
13 websites. It cannot be done in an easy, efficient,
14 and group manner, and I think, while everyone is free
15 to disagree about what might be fair use or not in
16 generative AI, I think everyone can agree that there
17 shouldn't be roadblocks put in place to register web
18 pages and therefore sort of artificially put the thumb
19 on the scale against content owners who are not able
20 to easily register the work so that they can pursue
21 whatever claims they feel they should be able to
22 pursue in court on these issues. Thank you.

23 MS. PUSEY: Thanks.

24 Sy?

25 MR. DAMLE: So just on the point of whether

1 there is any evidence at all that these large language
2 models in the text space can generate or regularly
3 generate except in the rarest of circumstances output
4 that is substantially similar to the input, I think, I
5 mean, I haven't seen any, and it's certainly something
6 we've looked at to see whether researchers have been
7 able to do it, and just based on sort of how I
8 describe these large-language models are trained, it
9 would be pretty remarkable, it would be almost
10 impossible for the large language models to put out
11 output that is really substantially similar to a
12 individual particular work in the input corpus, so I
13 just want to make that point.

14 Second, just to answer the specific
15 question, you know, a16z as a venture capital firm has
16 a really broad picture into both companies that are
17 building these tools and also companies that are using
18 these tools, and I can tell you from the companies
19 that are using these tools that it really is being
20 used in a way to increase productivity, increase
21 creativity. I know this is a panel about literary
22 works, but just to give one example, you know, there
23 are game developers that are using generative AI tools
24 as part of the art production process not to replace
25 artists but to help those artists generate new ideas

1 or realize their vision more easily.

2 And, beyond that, I just want to emphasize
3 that the benefits to society for these tools are
4 essentially limitless. If you think about the medical
5 field, companies are using these kinds of tools to
6 help doctors more quickly reach diagnoses when they're
7 looking at, you know, the X-rays and CT scans and
8 things like that. In the legal field, you know, which
9 I'm sure we're all interested in, AI is being used to
10 speed tasks like document collection and document
11 review. All this makes medical and legal services
12 cheaper, easier to access, and all of these tools
13 depend on the ability to train on data.

14 And the sort of final point I'd make is, you
15 know, if we're thinking about imposing new costs on
16 the creators of AI models, I think one of two things
17 is going to happen. I think either these tools just
18 won't be able to be built, and I think that's probably
19 the most likely outcome because, because of the way
20 these tools are built, they require just way too much
21 data for any licensing scheme to be able to work.

22 At best, what will happen is that the
23 ability to build these tools will be preserved for
24 those companies that have the deepest pockets and the
25 greatest incentive to keep AI models closed, so the

1 result of that will be less competition, far less
2 innovation, and closed AI models, which are hard to
3 investigate. So I think we ought to be very, very
4 cautious about imposing new costs on the creators of
5 these tools, you know, without being mindful of those
6 downstream consequences.

7 MS. PUSEY: Thanks, Sy.
8 Terry?

9 MR. HART: Thanks. So real briefly, just in
10 the scientific and scholarly publishing world, I
11 wanted to say that it's clear AI's going to
12 increasingly be used to examine scientific and
13 scholarly works in the public space, notably through
14 open science databases in search of new breakthroughs
15 and cures. The STEM community is only beginning to
16 understand how AI will be trained and understand how
17 the most authoritative and scientifically accurate
18 works will be incorporated.

19 But, more broadly, I think I would again go
20 back to the point I started with to caution about
21 publishers and creators being sacrificed in a race for
22 AI. I think, you know, as a panelist mentioned, there
23 are certainly a host of issues regarding ethical and
24 responsible deployment of AI outside of the copyright
25 space, you know, and I think those each individually

1 were a thoughtful consideration as a society, and I
2 don't think copyright should be any different from
3 that. I think publishers, authors, creators of all
4 types need to be part of these conversations, should
5 not be written off at the outset because they, I
6 think, share the hope of the opportunities that AI
7 brings not only to their own industries but to society
8 as a whole. So I will end with that. Thank you to
9 the Copyright Office for this discussion.

10 MS. PUSEY: Thanks, Terry.

11 We're going to do Catherine, Peter, and
12 Chris, and just ask that you please keep it brief as
13 we do have closing remarks coming up next.

14 MS. ZALLER ROWLAND: Thanks. I will be as
15 brief as possible here. I appreciate the opportunity,
16 and as I said previously, the licensing landscape is
17 incredibly important here and is a way that can help
18 these markets function and to be able to do things in
19 an ethical and a compliant way while also being able
20 to advance technology. I just want to quickly say
21 that, you know, the impacts of AI technologies on the
22 constitutional purposes of copyright are really tied
23 to the overall copyright system, so appropriate
24 respect for copyright, including by using voluntary
25 licensing, is very, very important, and it's going to

1 incentivize the creation industry to use the things
2 that can feed into additional works that could be used
3 by AI. You need to have copyright protection to
4 promote the innovation and the creation of works that
5 will be used to be training other AI machines in the
6 future, so I think copyright plays an incredibly
7 crucial role in that, and having respect for that
8 system and potential options to use it in a compliant
9 way are key.

10 MS. PUSEY: Thanks, Catherine.

11 Peter?

12 MR. ROUTHIER: Thanks. Yeah, thank you and
13 I'll be brief and we can consider these certainly my
14 closing remarks, so thank you very much for hosting
15 this event and for having us all here today and thanks
16 to everybody else for their thoughts.

17 So the two points that I have are just about
18 making sure we're thinking about and urging that the
19 Office make sure that it's thinking about the sort of
20 full panoply of interests and parties that are
21 involved with these issues.

22 So, in the first one, you know, as people
23 have remarked, the training data, it's not always
24 fully transparent and clear where it's coming from,
25 but we know that they come from authors of many types,

1 for example, Wikipedia and other Creative Commons
2 license-sourced, open-source software of various
3 types, lots of general web content are all often
4 disclosed as having been used to train machine
5 learning models.

6 So, when representatives of some of the
7 older industries suggest sort of opt-in or
8 compensation-based schemes to replace the status quo,
9 I think it's worth keeping in mind that those voices
10 are not fully representative of the interests of the
11 author communities that are included within, as far as
12 we can understand, a lot of the training data that's
13 used to train these models, and it also raises all
14 kinds of issues about practicability and things like
15 that. So this is not to say, of course, that their
16 perspectives are not important, just to sort of put in
17 context that this is a new area and the scope is quite
18 extraordinary.

19 The second point is a slightly smaller point
20 but also I think an important one. A lot of the
21 questions and participants were sort of focused on
22 industries today, and I know that's a useful shorthand
23 and it can mean a lot of different things, but I just
24 want to suggest that we make sure we're just as
25 interested in non-commercial uses as we are in

1 commercial uses.

2 In the European Union, for example, when
3 they did copyright reform a few years ago, they made a
4 distinction between the exception for text and data
5 mining, which was applicable to research organizations
6 and cultural heritage institutions, and the exceptions
7 available for commercial uses, and, of course, fair
8 use when it's properly applied makes a similar
9 distinction between commerciality and non-
10 commerciality. So, as the Office continues its study
11 of the issue, I just want to urge it to keep in mind
12 that it make appropriate distinctions where necessary
13 between commercial and non-commercial uses.

14 So that's it for me, and thanks again for
15 hosting this session today.

16 MS. PUSEY: Thanks, Peter.

17 And lastly, Chris?

18 MR. MOHR: Thanks, and so a few points to
19 conclude. I mean, I think, as we think about this, as
20 our members think about this, there are two where
21 the -- in the existing ecosystem right now, there's a
22 distinction, to really summarize it, between gates up
23 and gates down, and you see that distinction in cases
24 like Field. You also see it in other doctrines, like
25 cases like Van Buren interpreting the Computer Fraud

1 and Abuse Act, and so we're optimistic about -- it is
2 important, I think, that when the gates come down that
3 unauthorized use stop, and those gates can come down
4 in a couple of different ways. One is a license and
5 control. Another may be the use of signals, and I
6 would refer you to according to what is it, I think
7 it's the MIT *Technology Review*, stable diffusion is
8 now going to be using a tag, a do not train tag
9 similar -- and we are optimistic about the potential
10 for this type of standard to alleviate some of these
11 issues, and that's different from whether or not
12 something can be found for purposes of being
13 retrievable.

14 Again, when the gates are up, however, we
15 don't see a need to re-examine -- wrong word -- revise
16 the existing copyright regime, but, again -- and
17 that's it, so thank you for the opportunity to
18 contribute to this conversation, and, again, we look
19 forward to more of them.

20 MS. PUSEY: Thanks, Chris. I'm going to
21 pass it to Mark for the closing remarks.

22 MR. GRAY: Great. Thank you, Keyana.

23 So, first off, thank you so much for
24 everyone today, all the panelists, as well as the
25 several hundred folks in the audience. We really

1 appreciate you all joining us for this. We had a lot
2 of insights and perspectives today. We will be
3 keeping those in mind obviously as we continue our
4 work on our AI initiative and we keep thinking about
5 these copyright law and policy issues that are raised
6 by artificial intelligence and different sorts of
7 technologies within that field.

8 Looking to the future, I just wanted to let
9 everyone know our next listening session is going to
10 be on Tuesday, May 2. That is going to be focused on
11 the visual arts. And then going forward, we will have
12 a session on audiovisual works on May 17, and we will
13 have a session on music and sound recordings on
14 May 31. You can sign up for those on the Copyright
15 Office website both to attend and to sign up to
16 request to speak for the last two sessions.

17 The visual arts session signup is closed for
18 participants. Keep in mind this is not the last
19 chance to talk to us. This session was not the last
20 chance. These listening sessions generally are not
21 the last chance. We will keep providing opportunities
22 throughout the next year to talk to us. There will be
23 other chances to submit all sorts of comments and
24 ideas to the Office, so please keep in mind, if you're
25 in the audience and you didn't get a chance to speak,

1 there will be further opportunities. So thank you
2 again, everyone. We really appreciate you joining us,
3 and we hope you have a wonderful afternoon or evening
4 depending on your time zone. Thank you.

5 (Whereupon, at 4:05 p.m., the listening
6 session in the above-entitled matter adjourned.)

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CERTIFICATE

CASE TITLE: Copyright and Artificial Intelligence
Literary Works, Including Software,
Listening Session

HEARING DATE: April 19, 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: April 19, 2023



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