Creative Commons Submission to the European Commission Consultation on Artificial Intelligence

The present document is submitted in support of our contribution to the consultation questionnaire. It summarizes Creative Commons’ provisional position on matters relating to artificial intelligence (AI) and copyright law.¹ In a nutshell, partly in view of the uncertainty surrounding the concept of AI, it generally opposes copyright (or related right or any new sui generis right) protection of AI-generated outputs and supports mandatory, open exceptions and limitations to allow broad and unfettered access and use of copyright works as AI input in support of the public interest. Using copyright to govern AI output is contradictory to copyright’s primordial function of offering an enabling environment for human creativity to flourish.

Creative Commons looks forward to considering the opinions and ideas contributed by others in connection with the consultation as it refines its position in connection with the further work of the European Commission.

1. Lack of clarity around AI - Copyright intervention is premature

- Clarity on basic definitions in the AI space is a prerequisite to competent regulation in the copyright arena. AI needs to be properly understood before any copyright implications can be addressed.
- Any policy or legal intervention in the field of copyright should be based on strong and reliable evidence and conceptual certainty, especially given the fast-paced evolution of AI technology.

¹ This paper has been prepared by Brigitte Vézina, Open Policy Manager, Creative Commons. It has benefited from invaluable input from Creative Commons staff, including Kriti Godey, Cable Green, Victoria Heath, Brent Moran, Diane Peters, and Claudio Ruiz. Creative Commons is grateful to members of the Creative Commons community and partners who contributed and provided insightful comments on this submission; however, this submission does not necessarily represent their opinions or those of the institutions with which they are associated, namely: Maja Bogataj Jančič (Communia/Intellectual Property Institute), Justus Dreyling (Wikimedia Deutschland), Paul Keller, (Communia), Cynthia Khoo, Maximilliano Marzetti, Teresa Nobre (Communia), Alek Tarkowski (Communia/Centrum Cyfrowe) and Mahmoud Wardeh.
It is presently not clear what AI exactly is and what it is capable of producing.\textsuperscript{2} As things stand, the term "AI" is not defined precisely enough to be used in the copyright arena. At the very least, any document dealing with AI should provide or refer to a clear and precise definition of the term. Given this lack of clarity on what AI really means, intervention in copyright law and policy is premature at best.

2. **Pressing policy issues outside the copyright arena need addressing**

- Many issues raised by the development of AI are to be addressed under the lens of ethics, cultural rights and interests, fundamental human rights (including the principles of equality and non-discrimination), personality rights, privacy rights, and data protection.
- These adjacent issues should be addressed and debated in their respective policy arena, not within the framework of copyright.
- Consideration of the copyright implications can be undertaken while bearing in mind that these issues need to be satisfactorily addressed and resolved in their own policy sphere.
- Noting that those other issues are key to a coordinated and inclusive policy approach on AI and that they have a direct impact on any copyright discussions on AI, the present policy brief is nevertheless limited to the substantive questions that AI raises in the copyright arena.

3. **Copyright is not the right framework to regulate AI outputs**

- Copyright (including related rights and *sui generis* rights) is not a universal legal or policy tool meant to address any and all problems that society might encounter.
- Using copyright to govern AI outputs is contradictory to copyright’s primordial function of offering an enabling environment for human creativity to flourish. It should not be assumed that a system developed to protect human creative expressions can simply be applied to non-human output.
- Copyright has yet to adapt to the digital environment, which emerged over two decades ago; it is unwise to attempt to force the application of an already outdated system to the nascent and uncharted field of AI technology.

\textsuperscript{2} "AI" itself is an evolving concept. AI is an umbrella term that encompasses, for the most part at the current time, different types of machine learning algorithms. There is a lot of confusion around related and different concepts such as machine learning, natural language processing, predictive models, neural networks as well as algorithms. AI is generally understood as “something that can be done by a computer that until then, could only be exclusively done with human intelligence.” However, that new capability is only "AI" until it becomes normalized as simply "software." What is AI today may not be so tomorrow. As technology advances over time, what is considered “AI” as opposed to “normal software” may continually evolve. That means that whatever copyright framework is put into place, if any, it has to remain flexible enough and technology-neutral to account for and adapt to the moving-target nature of AI. There is also danger in categorizing all manner of algorithms as “AI” and in adopting rules or measures where these categories are arbitrarily determined.
To the extent that copyright might be deemed relevant to regulate AI output, this policy brief provides guidance on the basic questions to consider.

4. **No copyright for AI outputs**

- Although AI can create and generate output akin to a copyright work, this output does not necessarily meet the copyright protection requirements, such as authorship and originality.
- AI-generated outputs are not “works” as this term is defined in copyright law.
- Granting copyright to AI output would raise important concerns around intellectual property rights overlap leading to overprotection. Other exclusive rights (including copyright and patent rights in AI software) already provide sufficient protection in the AI space. Overprotection can have negative impacts on creativity, innovation and the provision of public goods.
- Introducing new rights complicates an already complex field of copyright, related rights and *sui generis* rights, and risks entangling the exercise of existing and any future exceptions and limitations.
- AI-generated content should not benefit from any copyright (economic or moral rights), related rights or *sui generis* protection.

  a. **Generating content through AI is not an act of authorship**

    i. **Persons who develop AI algorithms are not the authors of AI-generated outputs.**

    - The persons (physical or legal) who program the AI should not be entitled to copyright in the output generated by the program they created.
    - AI-generated output is made of a conglomeration of the inputs. Absent direct human intervention or direction, this process lacks the authorial contribution necessary to warrant copyright protection.
    - Content generated without human creative input should be in the public domain.³

    ii. **AI is not capable of producing content “autonomously”**

    - There is uncertainty about whether and to what extent AI is capable of producing content “autonomously” without any direct, material human involvement.
    - It is not established that AI can acquire and develop autonomous and cognitive features through experience learning that will be sufficient to generate creative output. A certain level of human input is always required.

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The mechanistic nature of AI algorithms bars any possibility of autonomous creation. The output of any current AI algorithm is essentially a mathematical function of its inputs, be they image files, textual data, or video files. This is not a valid basis for claims of autonomous authorship.

iii. **AI systems are not authors**

- The notion of the human creator, the human creative spirit and human creativity are bedrock principles of the copyright system.
- Direct human, authorial involvement is a precondition to determining whether a work is worthy of copyright protection or whether copyright can be claimed.
- Bestowing copyright upon AI-generated outputs to the copyright or patent holder of the AI software, algorithm or program, or to any of its users or to contributors of data, is not advisable absent evidence of direct human creativity.⁴
- One would be mistaken to presume an equivalence between human-authored works and AI-generated outputs. AI and the copyright principle of authorship are antithetical concepts; stated otherwise, “the very idea of AI authorship is oxymoronic.”⁵
- The generation of output through an AI process without human involvement is not an act of authorship.

iv. **AI cannot have human rights**

- The Universal Declaration on Human Rights (UDHR) protects the moral and material interest of authors resulting from scientific, literary or artistic production and as such recognizes authors’ rights - rights deriving from human authorships as human rights.
- AI systems cannot have human rights.

v. **AI cannot be held liable for what it does**

- Authors get rights in what they create but in turn are also liable for what they do.
- AI itself cannot be held liable for copyright infringement nor for any other breaches of rights caused by its generated output. Since “copyright (as in a right in one’s work) and

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⁴ The users of programs who contribute to the AI outputs may be entitled to copyright in the output generated by the program they use if they contribute with substantial and sufficient creative input. On a similar point, see Samuelson, Pamela, “Allocating Ownership Rights in Computer-Generated Works” *U. pitt. L. rev.* 47 (1985): 1185. The contributors of data that are used in the process of machine learning which ultimately lead to AI-generated output should not be entitled to copyright in the output generated in such processes absent any direct, creative, authorial involvement.

responsibility for that work historically have gone hand in hand,"⁶ AI-generated output should not be afforded copyright protection.

b. AI-generated output is not likely to be considered “original”

- It is not clear how to judge the originality of a work essentially composed of random snippets of thousands or millions of input works.
- AI-generated outputs should not as a default be considered original works. Originality is a reflection of the intellectual, creative choices made by a human author.
- Output generated solely as a result of a mathematical function lacks originality.

c. AI development does not require copyright in AI-generated output as an incentive

- Producers of AI do not require copyright protection in AI-generated outputs as an incentive to develop AI.
- Market opportunities are already rife, in the absence of any copyright protection for AI-generated outputs.
- The efforts invested in the creation or invention of the AI program are to be incentivized are rewarded through means other than copyright protection over the AI-generated output. Incentives and rewards in recognition of the investment made and the innovation brought about by the organizations and individuals involved in the development of AI can be found in other areas, including copyright in the code of the AI software itself⁷, as well as patents, trade secret laws, and laws protecting against unfair competition.
- Copyright’s utilitarian doctrine and incentives theory cannot support a claim that AI be afforded rights for any generated output because AI fails to meet the role of the author and its contribution to human-led social progress.⁸ Granting AI-outputs the status of copyright work goes against the social purpose for which copyright was created.

5. Very limited protection for AI outputs as a fall-back option

- Assuming the undesirable outcome that new copyright, related rights or sui generis rights would be established to regulate AI and protect AI-generated content despite our strong opposition, this should be done conservatively and with restraint.

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⁷ There is evidence that open software and sharing cultures are thriving in the AI space.

Considerations should include: a high bar for the creation of such new rights, a short term of protection, and robust exceptions and limitations to uphold users’ rights, safeguard the public interest, and ensure a vibrant public domain.

6. No new *sui generis* rights for AI-generated content

- There should be no new *sui generis* rights established for AI-generated content.
- The incentives that already exist within the copyright (for AI software) patent, trade secrets, and unfair competition systems are sufficient to encourage the development of AI applications.

7. Use of copyright material as AI input/training

- The use of copyright works as input or to train AI applications should not necessarily be considered copyright infringement as a default. It should be generally allowed under clear and open exceptions and limitations where such use upholds the public interest.
- Unfettered access and use of data to improve and build upon AI encourages innovation and development of AI in support of public-interest activities.
- That said, other concerns must be taken into account when using material to train AI. These concerns are dealt with under item 2, above.

    a. Openly licenced content

- Creative Commons’ FAQs\(^9\) clarify how the CC licenses work in the context of openly licensed content that is used to train AI tools: no special or explicit permission regarding new technologies from a copyright perspective is required.
- The open access movement demonstrates the obvious advantages of freely and openly accessible resources to spur innovation, especially in times of crises.\(^10\) AI innovation is bound to be stimulated by openly accessible materials.

    b. Exceptions and limitations

        i. International development and cross-border uses

- Limitations and exceptions for cross-border collaboration on AI can foster creativity, innovation and the public interest, such as education and research, and contribute to international development.\(^11\)

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\(^9\) Creative Commons, FAQs, “Artificial Intelligence and CC Licenses,” [https://creativecommons.org/faq/#artificial-intelligence-and-cc-licenses](https://creativecommons.org/faq/#artificial-intelligence-and-cc-licenses)

\(^10\) Victoria Heath and Brigitte Vézina, “Now Is the Time for Open Access Policies—Here’s Why,” Creative Commons Blog, March 19, 2020, [https://creativecommons.org/2020/03/19/now-is-the-time-for-open-access-policies-heres-why/](https://creativecommons.org/2020/03/19/now-is-the-time-for-open-access-policies-heres-why/)

\(^11\) On this point, see Flynn, Sean and Geiger, Christophe and Quintais, João and Margoni, Thomas and Sag, Matthew and Guibault, L. and Carroll, Michael W., “Implementing User Rights for Research in the
ii. Text and data mining and the right to research

- Text and data mining (TDM) activities are pivotal in supporting research and innovation and in the training of AI systems.
- TDM activities are non-consumptive and non-expressive uses of work. TDM does not compete with original markets for works, and may indeed enhance them by increasing demand for a wider range of works.
- TDM should not be made subject to additional authorisations or payments once access is legitimate. Generally, TDM activities should not be considered copyright infringement and should not be restricted by copyright.
- TDM should be allowed and supported pursuant to exceptions and limitations, in particular to enable a proper exercise of the right to research and AI training-related activities.\(^\text{12}\)

iii. Bias

- We encourage the use of larger and more diverse sets of data in order to avoid bias in outputs.
- Broad and open exceptions and limitations should apply to support the most extensive possible use of copyrighted works for AI purposes in order to encourage the elimination and minimization of bias.\(^\text{13}\) Placing barriers around copyright material that can be freely mined risks increasing the likelihood of AI bias, unfairness and exclusion.
- One way to reduce bias, unfairness and exclusion in AI systems, other than ensuring that the algorithm itself is not biased, is to ensure that the maximum volume and widest diversity of content is available for training purposes, requiring both minimising unnecessary barriers to TDM and facilitating uses across borders.
- A careful balance must be struck between a push to reduce bias, unfairness and exclusion in AI on the one hand and privacy rights and ethical and human rights considerations on the other.

c. Licensing and collective licensing

- Licensing, including collective licensing, is not an appropriate alternative to a system of exceptions and limitations upholding the public interest to enable the use of copyright works as AI input.

d. Digital rights management/Technological protection measures

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\(^{12}\) Ibid.

8. Database rights

- Database rights are a potential harm to the development of AI, especially given the exclusion of data and other mere facts from copyright protection under international law.
- The *sui generis* protection in the EU Database Directive\(^{14}\) should be repealed\(^{15}\) in light of studies\(^ {16}\) that demonstrate its lack of effectiveness in achieving its objectives and the unnecessary and complex implications in the field of copyright law.

References and sources

International organizations and company documents


Academic articles

- Flynn, Sean and Geiger, Christophe and Quintais, João and Margoni, Thomas and Sag, Matthew and Guibault, L. and Carroll, Michael W., “Implementing User Rights for


\(^{15}\) Timothy Vollmer, “The European Commission should repeal extra rights for databases,” Creative Commons Blog, August 30, 2017, [https://creativecommons.org/2017/08/30/european-commission-repeal-extra-rights-databases/](https://creativecommons.org/2017/08/30/european-commission-repeal-extra-rights-databases/)


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