

EU copyright, quo vadis? The challenges of Artificial Intelligence

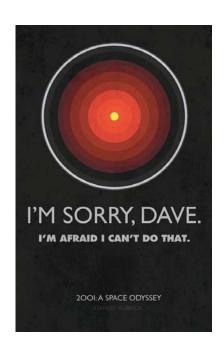
Setting the Scene

Marie-Christine Janssens Brussels, 25 MAY 2018



Artificial Intelligence (AI) – a new looming challenge for copyright law

Not "a UFO"





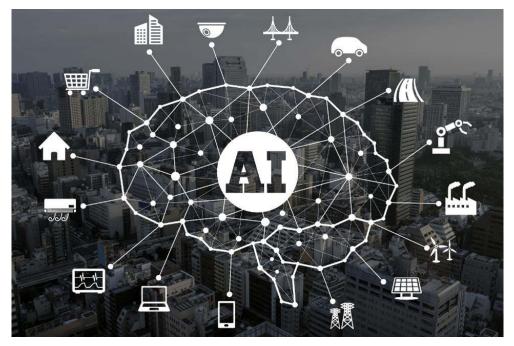
Al – a new looming challenge for copyright law

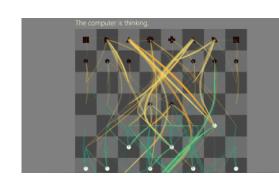
- TIMOTHY L. BUTLER, "Can a Computer be an Author? Copyright Aspects of Artificial Intelligence", 4 Comm/Ent L.S. 707 (1981)
 - Helene watched John and cogitated: A supper with him? Disgusting! A supper would facilitate a dissertation and a dissertation or tale was what John carefully wanted to have. With what in mind? Wine, otters, beans? No! Electrons! John simply was a quantum logician; his endless dreams were captivating and interesting; at all events Matthew, Helene, and Wendy were assisting him in his infuriated tries to broaden himself. Now legions of dreams itched to punch Wendy's consciousness. Yet John whispered, "Just a minute! Helene's a maid, I'm a quantum logician; can maids know galaxies and even stars or a multitude of galactic systems? ... Can maids realize electrons?1

Published in 1981

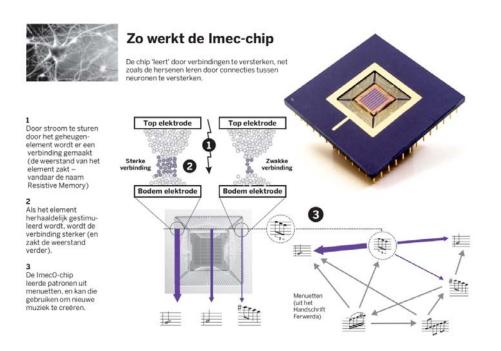
Artificial Intelligence (AI) – a new looming challenge for copyright law

- AI: "the science of making computers do things that require intelligence when done by humans" (R. Kurzweil, 1990)
 - E.g. creating 'works' (incl. artistic works)





Non-human creations



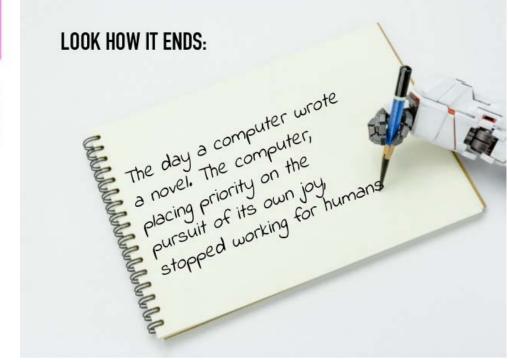


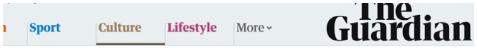
- Google's Comp. DeepMind A.I. → Composes and Performs Piano Beyond The Masterpiece Level in Realtime
 - https://youtu.be/Y8UawLT4it0

"THE DAY A COMPUTER WRITES A NOVEL"

コンピュータが小 AI作家に「賞」は取れるか 説 を SATO SATOSHI 佐藤理史

In March 2016 a novel written almost entirely by a software was submitted to a literary competition and even made it through the first round





design Film Games Classical Stage

World's first computer-generated musical to debut in London

Beyond the Fence, the story of a family at Greenham Common, will incorporate machine-generated plot and music









Live Deutsche Bank more than 7,000 job: business live

terrorism offences



North Korea casts do summit and warns U 'nuclear showdown'



This shows people d Georgia jury awards victim \$1bn in dama

- Artworks created by Creative Adversarial Networks (CAN) artificial intelligence.
 - Art and Artificial Intelligence Laboratory, Rutgers University.



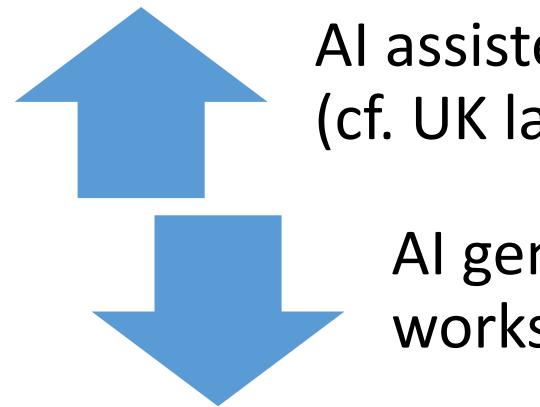
Where is "the author's own intellectual creation?"

Answer to the machine is in Copyright?

- European Parliament Resolution 2017
 - The resolution calls on the Commission to come forward with a balanced approach
 to intellectual property rights when applied to hardware and software standards and
 codes that protect innovation and at the same time foster innovation. Moreover,
 the elaboration of criteria for "own intellectual creation" for copyrightable
 works produced by computers or robots is demanded.
- Is copyright law the good/bad/best/worst ... answer ?
 - i.e. a non-human copyright?
 - A challenge for the Justification of the whole copyright system?
 - Incentive needed? There will be AI (and robots) anyhow
 - A new neighboring right ? ('producer')
 - Millions of new 'productions' per day/second?







Al assisted works (cf. UK law)

Al generated works