Open Standards Board

The Open Standards Board works with the Cabinet Office and is accountable for transparent selection and implementation of open standards.

Contents

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computing
IT LEADERS 100

The definitive ranking of the UK's foremost technology professionals 2023

THE **CHANNEL**CO.

Julian Bond
Head of ICT
Hillarys

View Profile

Christopher Booth
CTO
Odgers Berndtson

View Profile

Jorge Bordona García
CIO EMEA-APAC
Experian

View Profile

Charl Brits
Group CISO
Laing O'Rourke

View Profile

Amanda Brock
CEO
OpenUK

View Profile

Annette Brown
Head of IT
Milbank LLP

View Profile

Dan Burns
Head of Information Security
Next

View Profile

Andy Caddy
Group CIO
PureGym

View Profile

IT Leaders 100

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Amanda Brock
CEO

Dawn Foster
Director

Hiren Parekh
Director

Ian Burgess
Director

Lorna Mitchell
Director

Liz Rice
Director

Martin Woodward
Director

Matt Jarvis
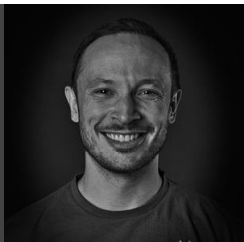Director

Dr. Rebecca Rumbul
Director

Terence Eden
Director

Tim Telford
Director

Leadership

Open:UK

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CEO and Chief Policy Officer

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Chief Information Security Officer

Chloe Telford
Event Project Manager

Zin Lwin
Design Lead

Chris Eastham
Chief Legal Officer

Chris Howard
Skills Director

Iain G Mitchell QC
Honorary QC

Jamie Harper
Recruitment Officer

Dr. Jennifer Barth
Chief Research Officer

Jim Davies
Company Secretary

Jennifer Riggins
Chief Meet-Up Officer
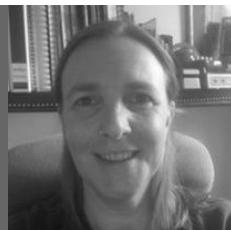
John Bernard
Marketing Advisor

Katie Gamanji
Chief Future Founder

Leanne Kemp
Chief Sustainability Officer

Lou Peers
Project Manager Lead
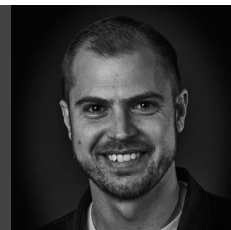
Matt Barker
Entrepreneur in Residence

May Cheung
Chief Financial Officer

Nico Vibert
Chief DEI Officer

Robert Carolina
Chief Security Policy Officer

Rob McQueen
Executive Advisor

Shaz Ali
Chief Technology Officer

Simon Muskett
Chief Facilitation Officer

Sonia Cooper
Data Lead

Srikrishna 'Kris' Sharma
Chief Partnership Officer

Tom Meadows
Chief Apprentice Ambassador

Tiana Lea
Photographer

Support

Support

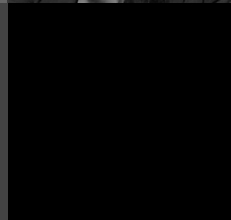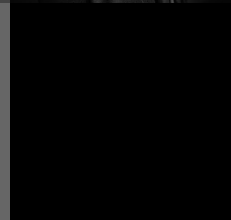# Ambassadors

Open:UK

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Laura Czajkowski	Marc Cluet	Mark Baker	Mark Dansie	Marko Bevc	Michael Cade	Michał Poręba	Mo Ladha

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- Nicki Watt
- Nigel Abbott
- Nikita Koselev
- Paula Kennedy
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- Phil Griffiths
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- Sonya Moisset
- Tara Stella
- Wendy Ng
- Will Hall
- Tom Meadows
- Nelson Batsford
- Santosh Kumar Perumal
- Revana Siddesh Bathi
- Yamini Holla
- Alois Reitbauer
- Bart Farrell
- Blessed Tabvirwa
- Chris Lloyd-Jones
- Floor Drees
- Max Körbächer
- Paul Statham
- Paolo Vecchi
- Samson Goddy
- Sal Kimmic
- Steve Helvie
- Vicky Brasseur

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AI Advisory Board

Open:UK

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Prof. Neil Lawrence
Chair
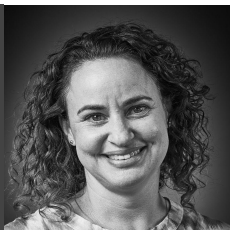
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Amanda Brock
Member
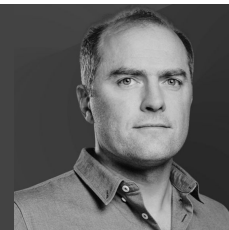
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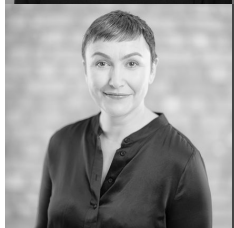
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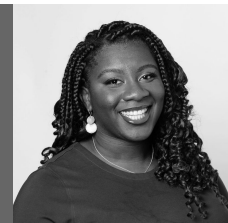
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Member

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Chief Information Security Officer
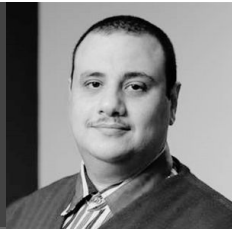
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Guy Podjarny
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Justin Cormack
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Dr Melanie Garson
Member

Dr. Rebecca Rumbul
Member

Robert Carolina
Member

Sal Kimmich
Special Advisor

Sonya Moisset
Member
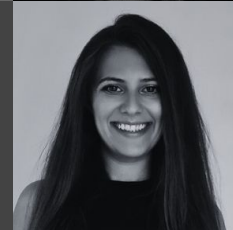
Stefania Chaplin
Member

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ARUP

asanti

Atos

avanade

Bristows

CIVI
knows
open
source

CONFLUENT

controlplane

CyrusOne

drawnALism
drawing knowledge

epan

Federated
Hermes
International

FINOS Fintech
Open Source
Foundation

fieldfisher

intel

JETSTACK

mimu

moorcrofts
corporate law

ODI
open
data
institute

open
invention
network

Osmii

OpenSource
Connections

OVHcloud

puppet

Resonance

SDIA

STELIA
WITHOUT BOUNDARIES

SUSE

The Stack
.Technology

01110100
thinkingbinaries

vmware
by Broadcom

vodafone
business

Building a Cohesive Open Tech Community and voice

- **Community Recognition Program**
  - **Awards**
    - Fifth Annual Awards open for nominations - ceremony House of Lords, 28 November
    - 12 categories
  - **Ambassador Program**
    - 50 plus UK Ambassadors
    - International Ambassadors Launched 2022
    - Apprentice Ambassadors Launched 2023
  - **Honours List**
    - Annual New Year's list of 100
- **Events**
  - **IWD**:
    - 22 -House of Lords with Baroness Kennedy and Afghan Judges
    - 23 BT Tower
  - **Black History Month**
    - Lunches House of Lords 23 and 24
  - **Meet-Ups**
    - 2 years in London and launched in Edinburgh and Glasgow, Cardiff and Bristol in autumn

Open:UK

Open:UK Awards 2024

Nominate now. With thanks to our Awards Sponsors

Category: Software

DEVTANK
Category: Hardware

ODI open data institute
Category: Data

RED BADGER
Category: Individual

Venafi Jetstack Consult
Category: Young Person

Category: Belonging

avanade
Category: Sustainability

Category: Finance

AUTOgpt
Category: AI

controlplane
Category: Security

Runa Capital
Category: Start-up

Iain G Mitchell KC
Honorary KC
Category: Law and Policy

openuk.uk/awards   openuk.uk/awards/judges   #openukawards

2022 OpenUK Honours List

OpenUK is pleased to share its New Year's Honours List for 2022 celebrating the future generations of Open Technology in the UK

Influencing Legal and Policy to make sure the UK is a great place to do Open Tech

- Review of new laws and policy, respond to consultations
  - 25 responses to date
  - quoted in both National Data Strategy Report and House of Lords LLM Report
- Day One Member Gaia-X and UK Hub coordinator
- NHS Research and Report commissioned 2022
- Research and reporting :2021 - 2024 - first organisation to do value-based economics of open source
- COP26 event and Second Open Technology for Sustainability Day
- Blueprints for open technology - data centres and EV Charging
- Energy Catapult – open source support and mentoring of 6 projects given £1.8m in 2023
- KubeCon Europe 24 Hackathon Challenges on Data Centre Blueprint
- 2nd Thought Leadership Day London September 2024
- State of Open Con 2025 - 4 and 5 February in planning for 1000 delegates, over 200 speakers and 50 plus partners
- House of Commons community event January 2024 and monthly roundtables with Parliamentarians from September
- Planned All Party Parliamentary Group in Open Tech
- Hosting panels at Labour Party Conference on Opening AI and Data Centres, speaking at others on Skills
- The Open Manifesto with 3 asks of government shared for Sign up by Individuals and Companies to be presented to PM
- Advisory Board Refresh including AI, Finance, Mobile, Space and Quantum being announced now

Open:UK

An open source blueprint for the CARBON NEGATIVE DATA CENTRE based on the three opens - open source software, open hardware and open data

Demand for data and digital services is expected to continue its exponential growth over the coming years, with global internet traffic expected to double by 2022 to 4.2 zettabytes per year (4.2 trillion gigabytes).

The Internet of Things (IOT) connections expected to double from 12 Bn to 25 Bn

Adoption of an open technology platform across hardware, software and data (3 Opens) and carbon accounting frameworks as the critical backbone in enabling circular, CARBON NEGATIVE DATA CENTRES.

Open source software enables release of licenced and copyrighted source code;
Open Source hardware enables the release of the designs of tangible artifacts;
Open Data relies on the notion of transparency and that data should be freely available to everyone.

All rely on the principles of collaboration and public benefit which is key to an effective circular economy.

10 Bn

5 billion mobile internet users by 2025

For ICT, the answer is in wholly circular, CARBON NEGATIVE DATE CENTRES based on the 3 Opens of Technology (open source software, open hardware and open data)

OpenUK has formed a diverse, international consortium to develop a blueprint for the CARBON NEGATIVE DATA CENTRE

DECARBONISATION DEMATERIALISATION
CIRCULARITY

Full energy efficiency in the built environment

Reduction and offset of product transportation miles

Power data centers via renewable energy sources

Arrangement for onsite/offsite repair and lifecycle extension of parts

Share learnings to partners in supply chain

Local or district level heat recovery solutions

Adoption of responsible packaging solutions

Reuse of servers and components

Electrification of transportation fleet

Electrification of onsite fossil fuel processes such as steam

Designing out waste and pollution

Keeping products and materials in use

Regenerating natural systems in the process

Decarbonization of all key layers of the data centers.

We would love the opportunity to share this blueprint at COP26 as an engaging and dynamic Computer Aided Design (CAD) model that will take industry, government, and prosumer participants on a journey which educates them on the true environmental cost of a data centre

©OpenUK

Open:UK

Electric Vehicle Charging Open Technology Blueprint 2022

An Open Technology blueprint for sustainable EV Charging infrastructure standardising Open Source Hardware, Open Hardware and Open Data components to create beneficial environmental impacts and improved Sustainability

BLUEPRINT

Components (not sub-components) for Sustainable EV Charging

Scope

1. An Open Technology blueprint listing the key components of an EV Charging ecosystem grounded in sustainability, providing a clear and conciseoverview of the community's goals and objectives for electric vehicle charging sustainability.

a. Each component will describe sub-components with the approach, the potential impact of adopting the approach, and related resources.

b. The blueprint should identify key stakeholders in electric vehicle charging sustainability and their respective roles and responsibilities

c. The blueprint should outline the community's approach to electric vehicle charging sustainability, including key strategies, initiatives, and programs.

d. The blueprint should identify key metrics for measuring progress and success in electric vehicle charging sustainability.

Charging Point Operators (CPO) & Connectivity

Energy Infrastructure

Vehicle Infrastructure

Community & Engagement

Regulatory & Planning

End-user Services

Stakeholder Mapping

Primary

End user facing

Below the waterline

Secondary

Tertiary

Key themes

a. End user experience

b. Better use of energy and infrastructure

c. People and community

d. Organisation and standards

Aims based on stakeholder feedback

Designing for circularity and sustainability

Designing out waste and pollution
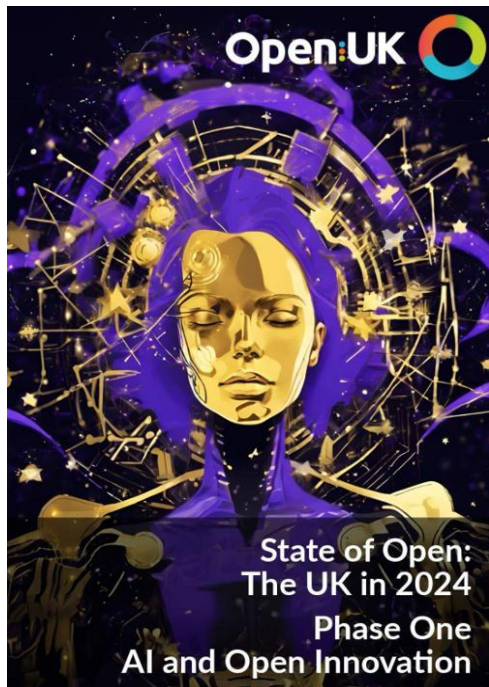
Regenerating natural systems in the process

PEOPLE
PROCESS & GOVERNANCE
OPEN TECHNOLOGY

OpenUK Future Leaders' Public Procurement Review
Levelling the playing field

State of Open: The UK in 2021
Phase One
March 2021

State of Open: The UK in 2021
Phase Two: UK Adoption
7 July 2021

State of Open: The UK in 2021
Phase Three
The Values of Open
October 2021

Open:UK
State of Open 2023
Phase One
A year in review

Open:UK
State of Open: The UK in 2023
Phase Two, Part 1
"Show us the Money - The Economics
of Open Source Software"

Open:UK
State of Open: The UK in 2023
Phase Three
"Skills or Bust"

Open:UK

State of Open: The UK in 2023
Phase Two, Part 2
"Show us the Money -
AI Openness"

Open:UK

State of Open:
The UK in 2024
Phase One
AI and Open Innovation

Open:UK

State of Open: The UK in 2024
Phase Two:
The Open Manifesto Report

Open:UK's Open Manifesto

1. Develop Future UK Tech Sector Skills through Open Source Contribution

2. Enhance utilisation of Open Source across the UK Public Sector

3. Enable AI Openness

Read, and sign up as an individual or organisation
https://openuk.uk/openmanifesto/ #OpenManifesto

Building Skills in Open Technology

Achieved:
- Annual Kids' Competition in 2022
- Future Leaders Talks
- Future Founders - 8 workshops led by Founders Forum
- CEO Book - Open Source Law, Policy and Practice published by OUP and open access, https://amandabrock.com/books/
- SOOCon 23 and 24 content free to download

2024 focus:
- Community Inclusion Project launching September
- Kids Camp refresh on back of microbit Giveaway for Key Stage 3 - 13-15 year ols
- Activity for under 11s - partnership discussion ongoing with Sustainability organisation
- University level Partnership with MOOC (massive open online course) on Business of Open Source planned
- Apprenticeship scheme and Curriculum - input

OpenUK Kids Camp

https://openuk.uk/openkidscamp/ #openkidscamp

Sponsored by
Red Hat

Camp 2 Episode 1

OpenUK Kids Camp 2 Lesson 1

Lesson One

Open source is for everyone

https://openuk.uk/openkidscamp

Camp 2 Episode 2

OpenUK Kids Camp 2 Lesson 2

Lesson Two

Open Source is human readable code

openuk.uk/openkidscamp

a = 97 b = 98 c = 99
A B = 66 C = 67
BINARY
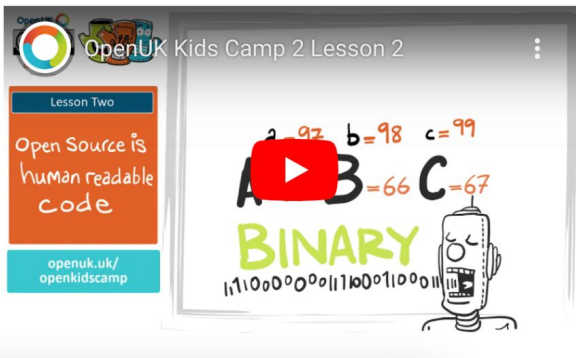
Future Founders Training

Kicking off 2022 with world class training for Future Founders, the Founders Forum will be leading a course and mentoring program for Future Founders from January 2022. Led by the Entrepreneur in Residence OpenUK's Founders Forum is a group of UK based Founders, former founders, potential founders and senior business people experienced in businesses based on Open Technology who wish to support the founding and scaling of the UK's Open Technology based businesses. The recordings

- **21 January** – Session 1 – **Why found an Open Source Business?**
- **28 January** – Session 2 – **Open Source Product Market Fit / Developing a Product**
- **4 February** – Session 3 – **Corporate Structure, licensing and IP for Open Tech Businesses**
- **25 February** – Session 4 – **Sales in Open Source Businesses**
- **4 March** – Session 5 – **Revenue Generation and Models**
- **11 March** – Session 6 – **Raising and Runway in Open Tech Businesses**
- **1 April** – Session 7 – **Community and DevRel in Open Tech**
- **13 May** – Session 8 – **People, Hiring and Scaling**

Recordings have been made available for anyone who could not join.

Open:UK

STATE OF OPEN CON 25

4-5 February 2025
Southbank, London

What is open source, and why does it matter today?

February 8, 2022

https://www.openaccessgovernment.org/open-source-technology/129261/

The Open Source Definition

Introduction

Open source doesn't just mean access to the source code. The distribution terms of open-source software must comply with the following criteria:

1. Free Redistribution

The license shall not restrict any party from selling or giving away the software as a component of an aggregate software distribution containing programs from several different sources. The license shall not require a royalty or other fee for such sale.

2. Source Code

The program must include source code, and must allow distribution in source code as well as compiled form. Where some form of a product is not distributed with source code, there must be a well-publicized means of obtaining the source code for no more than a reasonable reproduction cost, preferably downloading via the Internet without charge. The source code must be the preferred form in which a programmer would modify the program. Deliberately obfuscated source code is not allowed. Intermediate forms such as the output of a preprocessor or translator are not allowed.

3. Derived Works

The license must allow modifications and derived works, and must allow them to be distributed under the same terms as the license of the original software.

4. Integrity of The Author's Source Code

The license may restrict source-code from being distributed in modified form *only* if the license allows the distribution of "patch files" with the source code for the purpose of modifying the program at build time. The license must explicitly permit distribution of software built from modified source code. The license may require derived works to carry a different name or version number from the original software.

5. No Discrimination Against Persons or Groups

The license must not discriminate against any person or group of persons.

6. No Discrimination Against Fields of Endeavor

The license must not restrict anyone from making use of the program in a specific field of endeavor. For example, it may not restrict the program from being used in a business, or from being used for genetic research.

7. Distribution of License

The rights attached to the program must apply to all to whom the program is redistributed without the need for execution of an additional license by those parties.

8. License Must Not Be Specific to a Product

The rights attached to the program must not depend on the program's being part of a particular software distribution. If the program is extracted from that distribution and used or distributed within the terms of the program's license, all parties to whom the program is redistributed should have the same rights as those that are granted in conjunction with the original software distribution.

9. License Must Not Restrict Other Software

The license must not place restrictions on other software that is distributed along with the licensed software. For example, the license must not insist that all other programs distributed on the same medium must be open-source software.

## 10. License Must Be Technology-Neutral

No provision of the license may be predicated on any individual technology or style of interface.

The Open Source Definition was originally derived from the Debian Free Software Guidelines (DFSG).

Version 1.9, last modified, 2007-03-22

State of Open: The UK in 2024
Phase Two "The Open Manifesto" Report

Figure 9. Open Source Software versus Proprietary Software

Open Source   **Proprietary**

Open Source Software

Non Open Source Software with Public or Distributed Source Code

Closed Source
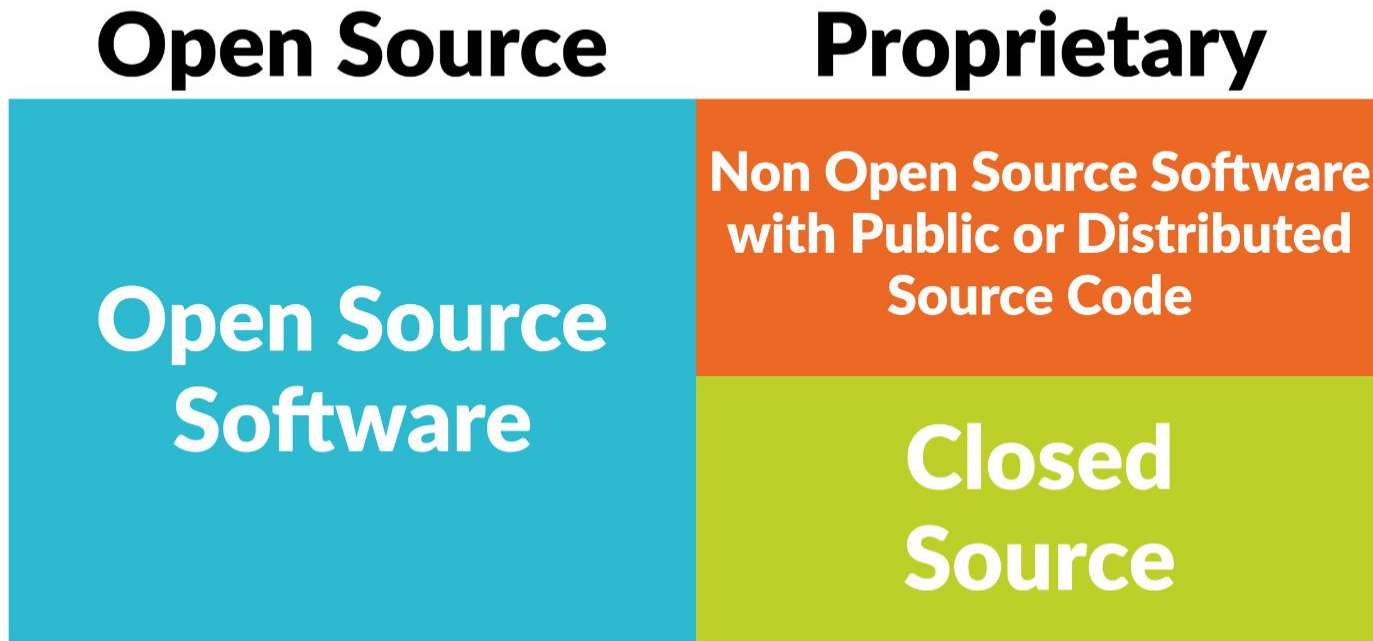
State of Open: The UK in 2024
Phase Two "The Open Manifesto" Report

Figure 10. Misuse of the Term Open Source

Closed Source **Open Source**

Proprietary Closed Source

Open Source Software

Non Open Source Software with Public or Distributed Source Code
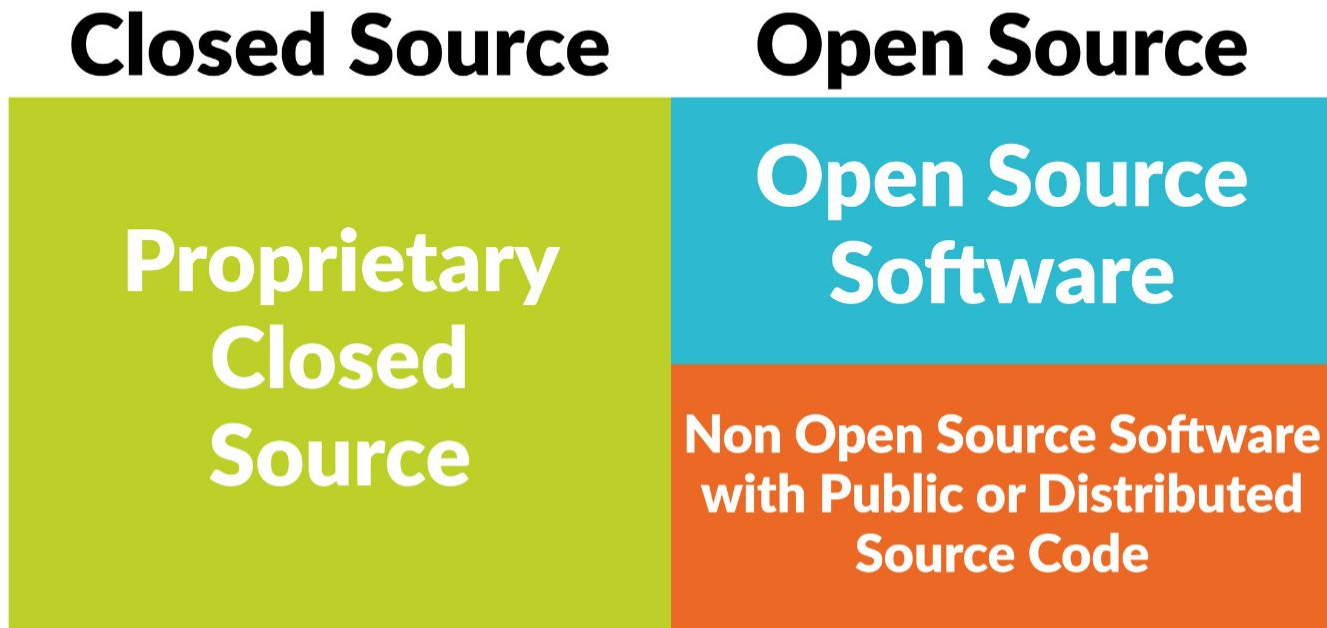
State of Open: The UK in 2024
Phase Two "The Open Manifesto" Report

Figure 11. 3 Categories of Software
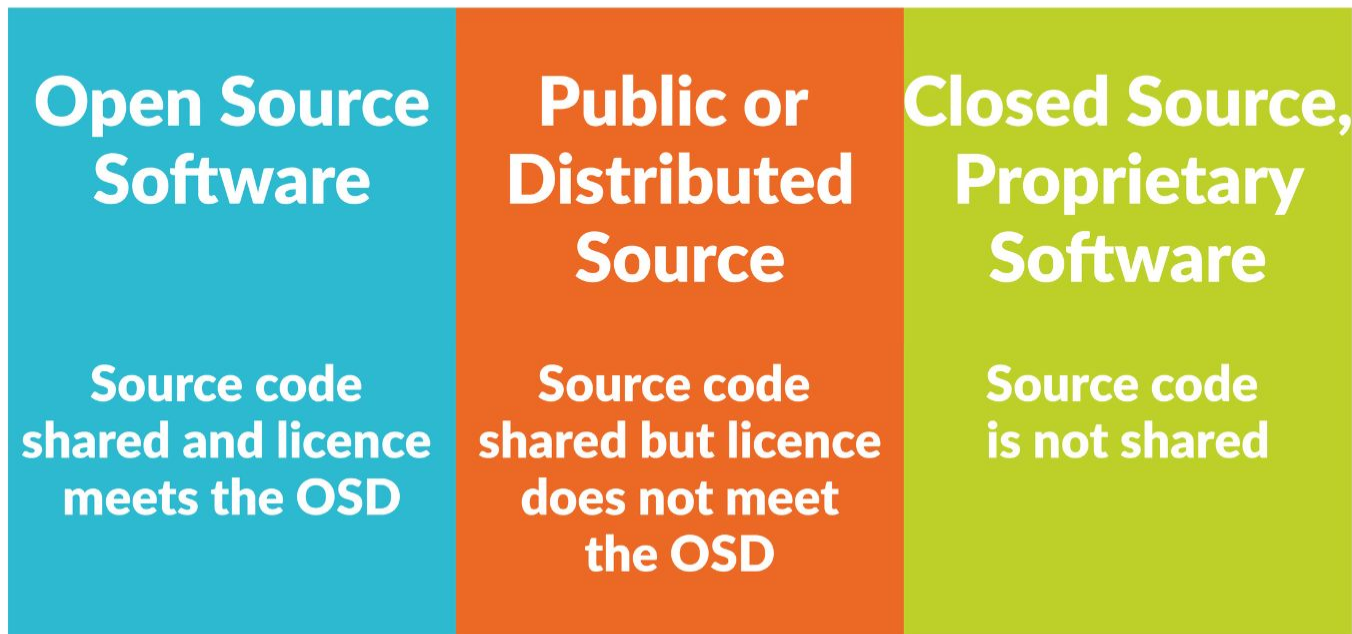
Open Source Software	Public or Distributed Source	Closed Source, Proprietary Software
Source code shared and licence meets the OSD	Source code shared but licence does not meet the OSD	Source code is not shared

openuk.uk/reports
#openuk #stateofopen #openmanifesto

Figure 11.

Open:UK

Forbes

Jan 26, 2022, 08:30am EST | 103 views

Dispelling The Most Widespread Myths About Open-Source Software

Alexander Belokrylov Forbes Councils Member
Forbes Technology Council COUNCIL POST | Membership (Fee-Based)
Innovation

CEO of BellSoft, accomplished expert in Java technology and IT leadership with 10+ years of experience.
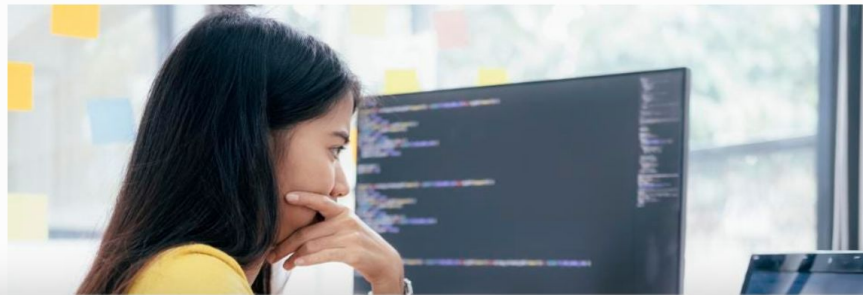
14 JANUARY 2021   NEWS   EN DE ES JP PT KR FR CN

Doubling down on open, Part II

By **Shay Banon**

Share

110000///1000000//1//lol

COMPANY

HashiCorp adopts Business Source License

HashiCorp adopts the Business Source License to ensure continued investment in its community and to continue providing open, freely available products.

AUG 10 2023 | ARMON DADGAR

When Mitchell and I founded HashiCorp, we made the decision to make our products open source because of a few key beliefs:

- We believe strongly in freely available source code to make it easy for practitioners to freely download, inspect source code, and solve their own problems.

- We believe in building an ecosystem and community around our products to enable broad integrations.

- We believe in the importance of transparency for our users.

Open Washing != Open Source

Ronald Ssebalamu   ·   Follow

3 min read   ·   Feb 19, 2024
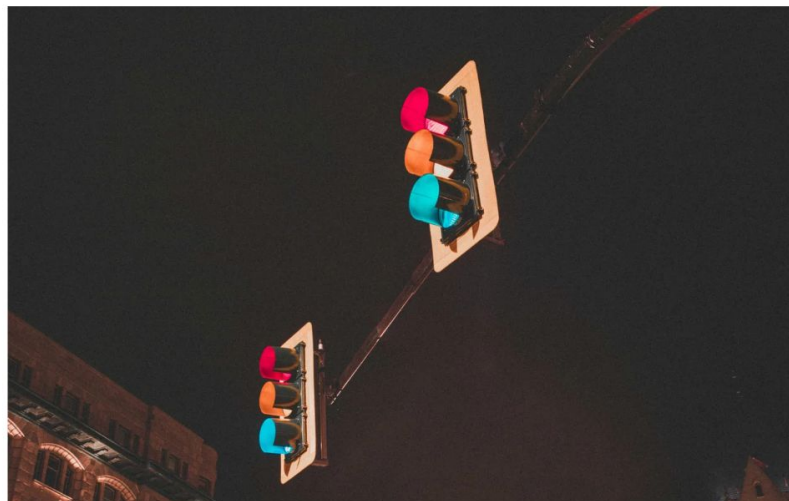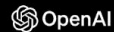
Elon Musk Takes Credit for OpenAI: 'It Wouldn't Exist Without Me'

Musk expressed concerns about OpenAI's shift towards a closed-source, for-profit model and Microsoft's influence.

By **Jason Nelson**

📅 May 17, 2023

🕐 3 min read

Open:UK

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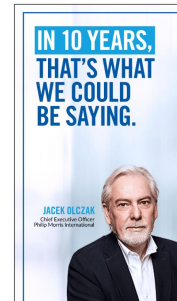
COINTELEGRAPH
The future of money

	BTC	ETH	BNB	SOL	XRP
	$73,079	$3,987	$588	$159	$0.6
	+2.83%	+0.85%	+9.64%	+6.76%	+0.0

News ⌄   Markets ⌄   Magazine   People ⌄   Cryptopedia ⌄   Research   Video   Podcasts

Navigating the Crypto and Traditional Finance Worlds Seamlessly

BRAYDEN LINDREA   JUN 07, 2023

Meta's Zuckerberg grilled by senators over 'leak' of LLaMA AI model

The senators weren't happy with the "seemingly minimal" protections to fight against fraud and cybercrime in Meta's AI model.

6393 Total views   10 Total shares   Listen to article   ▶ 3:01

COINTELEGRAPH

NEWS

1100000111100000011111101

Google "We Have No Moat, And Neither Does OpenAI"

Leaked Internal Google Document Claims Open Source AI Will Outcompete Google and OpenAI

DYLAN PATEL AND AFZAL AHMAD
4 MAY 2023 • PAID

♡ 614   💬 10   Share   ···

The text below is a very recent leaked document, which was shared by an anonymous individual on a public Discord server who has granted permission for its republication. It originates from a researcher within Google. We have verified its authenticity. The only modifications are formatting and removing links to internal web pages. The document is only the opinion of a Google employee, not the entire firm. We do not agree with what is written below, nor do other researchers we asked, but we will publish our opinions on this in a separate piece for subscribers. We simply are a vessel to share this document which raises some very interesting points.

And neither does OpenAI

We've done a lot of looking over our shoulders at OpenAI. Who will cross the next milestone? What will the next move be?

But the uncomfortable truth is, *we aren't positioned to win this arms race and neither is OpenAI*. While we've been squabbling, a third faction has been quietly eating our lunch.

I'm talking, of course, about open source. Plainly put, they are lapping us. **Things we consider "major open problems" are solved and in people's hands today.** Just to name a few:

- **LLMs on a Phone:** People are running foundation models on a Pixel 6 at 5 tokens / sec.
- **Scalable Personal AI:** You can finetune a personalized AI on your laptop in an evening.
- **Responsible Release:** This one isn't "solved" so much as "obviated". There are entire websites full of art models with no restrictions whatsoever, and text is not far behind.
- **Multimodality:** The current multimodal ScienceQA SOTA was trained in an hour.

While our models still hold a slight edge in terms of quality, the gap is closing astonishingly quickly. Open-source models are faster, more customizable, more private, and pound-for-pound more capable. They are doing things with $100 and 13B params that we struggle with at $10M and 540B. And they are doing so in weeks, not

Open:UK

110 0 0 0 ||||| 1 0 0 0 0 0 0 || 1 || |o|

THENEWSTACK

Open Source May Yet Eat Google's and OpenAI's AI Lunch

Recent AI progress by the open source community has prompted a reevaluation of strategy for Google and OpenAI.

Jun 19th, 2023 6:00am by Steven J. Vaughan-Nichols

EXCLUSIVE | GOOGLE   FACEBOOK   AI

Meta Wants Companies to Make Money Off Its Open-Source AI, in Challenge to Google

By Sylvia Varnham O'Regan, Jon Victor and Amir Efrati | June 15, 2023 2:24 PM PDT
Photo: Meta Platforms CEO Mark Zuckerberg. Photo by Getty

Meta Platforms CEO Mark Zuckerberg and his deputies want other companies to freely use and profit from new artificial intelligence software Meta is developing, a decision that could have big implications for other AI developers and businesses that are increasingly adopting it.

∞ Meta   Llama 2   Purple Llama   Community Stories   Get started

Download models

Partnerships

Our global partners and supporters

We have a broad range of supporters around the world who believe in our open approach to today's AI — companies that have given early feedback and are excited to build with Llama 2, cloud providers that will include the model as part of their offering to customers, researchers committed to doing research with the model, and people across tech, academia, and policy who see the benefits of Llama and an open platform as we do.

Dauphine | PSL★ LAMSADE   lawgorithm*}   Open:UK   Vault Hill   NCAI NATIONAL CENTRE OF ARTIFICIAL INTELLIGENCE   cnrs   海天瑞声 DATAOCEAN AI   MOHAMED BIN ZAYED UNIVERSITY OF ARTIFICIAL INTELLIGENCE

BAIR BERKELEY ARTIFICIAL INTELLIGENCE RESEARCH   AIIS Artificial Intelligence Institute   paloalto NETWORKS   RESPONSIBLE ARTIFICIAL INTELLIGENCE LAB   PR[AI]RIE   COATUE   snowflake   Petuum   ni

"We support an open innovation approach to AI. Responsible and open innovation gives us all a stake in the AI development process, bringing visibility, scrutiny and trust to these technologies. Rather than limiting large language models and AI progress to a select few, we should bring AI development into the open where we can all benefit from this technology."

Llama website

Open:UK

110000//////10000000//1///lol

Mark Zuckerberg

Studied Computer Science and Psychology at **Harvard University**

Lives in **Palo Alto, California**

From **Dobbs Ferry, New York**

Married to **Priscilla Chan**

Followed by **119,386,934 people**

Photos

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Write a comment...

Mark Zuckerberg ✔
July 18, 2023 · 🌐

We're partnering with Microsoft to introduce Llama 2, the next generation of our open source large language model. Llama 2 will be available for free for research and commercial use.

Meta has a long history of open sourcing our infrastructure and AI work -- from PyTorch, the leading machine learning framework, to models like Segment Anything, ImageBind, and Dino, to basic infrastructure as part of the Open Compute Project. This has helped us build better products by driving progress across the industry.

Open source drives innovation because it enables many more developers to build with new technology. It also improves safety and security because when software is open, more people can scrutinize it to identify and fix potential issues. I believe it would unlock more progress if the ecosystem were more open, which is why we're open sourcing Llama 2.

Today we're releasing pretrained and fine-tuned models with 7B, 13B, and 70B parameters. Llama 2 was pretrained on 40% more data than Llama 1 and has improvements to its architecture. For the fine-tuned models, we collected more than 1 million human annotations and applied supervised fine-tuning and reinforcement learning with human feedback (RLHF) with leading results on safety and quality.

You can download these models directly, or through our preferred partnership with Microsoft you can access these models through Azure along with Microsoft's safety and content tools. There is also an optimized version that you can run locally on Windows.

I'm looking forward to seeing what you all build!

👍❤️ Dirk Van Slyke and 132K others   21K comments   6.7K shares

👍 Like   💬 Comment   ➤ Share

THENEWSTACK

Meta's Llama 2 Is Not Open Source and That's OK

It looks unlikely that open source as we know it can be the future of AI. Instead, we must support an open approach and understand what that approach can bring in these evolving circumstances.

Jul 25th, 2023 10:00am by Amanda Brock

Elon Musk ✔ 🅧
@elonmusk

This week, @xAI will open source Grok

8:41 AM · Mar 11, 2024 · **28.2M** Views

META / ARTIFICIAL INTELLIGENCE / TECH

Meta releases the biggest and best open-source AI model yet

/ Llama 3.1 outperforms OpenAI and other rivals on certain benchmarks. Now, Mark Zuckerberg expects Meta's AI assistant to surpass ChatGPT's usage in the coming months.

∞ Meta

Image: Cath Virginia / The Verge

By **Alex Heath,** a deputy editor and author of the *Command Line* newsletter. He has over a decade of experience covering the tech industry.

Jul 23, 2024, 6:00 PM GMT+3

34 Comments (34 New)

Back in April, Meta teased that it was working on a first for the AI industry: an open-source model with performance that matched the best private models from companies like OpenAI.

Today, that model has arrived. Meta is releasing Llama 3.1, the largest-ever open-source AI model, which the company claims outperforms GPT-4o and Anthropic's Claude 3.5 Sonnet on several benchmarks. It's also making the Llama-based Meta AI assistant available in more countries and languages while adding a feature that can generate images based on someone's specific likeness. CEO Mark Zuckerberg now predicts that Meta AI will be the most widely used assistant by the end of this year, surpassing ChatGPT.

THE LINUX FOUNDATION

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3 MIN READ

Linux Foundation Welcomes the Open Model Initiative to Promote Openly Licensed AI Models

THE LINUX FOUNDATION | 12 AUGUST 2024

State of Open: The UK in 2024
Phase Two "The Open Manifesto" Report
Figure 16. Repositories in the UK Versus Europe

(AI Repositories = 4.65% share of all)

Number of AI repos with 1k+ stars in Europe

(AI Repositories = 6.00% share of all)

Number of AI repos with 1k+ stars in UK

442

102

openuk.uk/reports
#openuk #stateofopen #openmanifesto

Figure 16.
Source: GitHub June, 2024

In association with

Runa Capital

State of Open: The UK in 2024
Phase Two "The Open Manifesto" Report
Figure 17. Number of AI Repos with 1k+ Stars for 1 June 2024

US	China	Germany	UK	France	India
804	487	112	102	56	34

openuk.uk/reports
#openuk #stateofopen #openmanifesto

Figure 17.
Source: GitHub at 1 June, 2024

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THE WHITE HOUSE

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Blueprint for an AI Bill of Rights

MAKING AUTOMATED SYSTEMS WORK FOR THE AMERICAN PEOPLE

OSTP

A mong the great challenges posed to democracy today is the use of technology, data, and automated systems in ways that threaten the rights of the American public. Too often, these tools are used to limit our opportunities and prevent our access to critical resources or services. These problems are well documented. In America and around the world, systems supposed to help with patient care have proven unsafe, ineffective, or biased. Algorithms used in hiring and credit decisions have been found to reflect and reproduce existing unwanted inequities or embed new harmful bias and discrimination. Unchecked social media data collection

this country."[ii]

To advance President Biden's vision, the White House Office of Science and Technology Policy has identified five principles that should guide the design, use, and deployment of automated systems to protect the American public in the age of artificial intelligence. The Blueprint for an AI Bill of Rights is a guide for a society that protects all people from these threats—and uses technologies in ways that reinforce our highest values. Responding to the experiences of the American public, and informed by insights from researchers, technologists, advocates, journalists, and policymakers, this framework is accompanied by From Principles to Practice—a handbook for anyone seeking to incorporate these protections into policy and practice, including detailed steps toward actualizing these principles in the technological design process. These principles help provide guidance whenever automated systems can meaningfully impact the public's rights, opportunities, or access to critical needs.

Share

Safe and Effective Systems

Algorithmic Discrimination Protections

Data Privacy

Notice and Explanation

Human Alternatives, Consideration, and Fallback

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Applying the Blueprint for an AI Bill of Rights

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Department for
Science, Innovation
& Technology

Office for Artificial
Intelligence

Policy paper

A pro-innovation approach to AI regulation

Published 29 March 2023

Contents

Presented to Parliament by the Secretary of State for Science, Innovation and Technology by Command of His Majesty on 29 March 2023.

Command Paper Number: 815

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ISBN: 978-1-5286-4009-1

UK to host first global AI summit, Rishi Sunak announces

Political and tech leaders will come together to agree upon safety measures and monitor the risks of AI
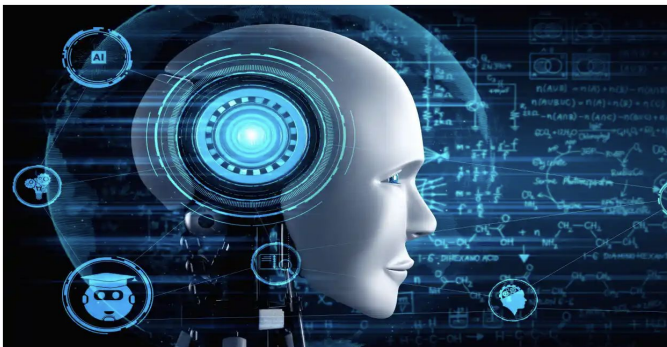
💬 **VIEW COMMENTS**   f 🐦 ✉

Open:UK

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Rishi Sunak's AI summit: what is its aim, and is it really necessary?

Meeting is expected to discuss 'internationally coordinated action' to mitigate risks posed by artificial intelligence

Many experts have expressed concern that the rapid development of artificial intelligence could spin out of control. Photograph: Pitinan Piyavatin/Alamy

Rishi Sunak has announced that the UK will host a global summit on safety in artificial intelligence in the autumn, as fears grow that the technology's rapid advancement could spin out of control.

Safety concerns are mounting after breakthroughs in generative AI, which can produce convincing text, images and even voice on command, with tech executives such as Elon Musk among the figures expressing alarm. Here is a

Rishi Sunak says AI has threats and risks - but outlines its potential

🕐 1 day ago

⌣ (share)

LONG-TERM DECISIONS FOR A BRIGHTER FUTURE

LONG-TERM DECISIONS FOR A BRIGHTER FUTURE

![IP Federation logo] Improving the IP framework to meet the needs of innovative industry

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### 📄 TEXT AND DATA MINING (TDM) IN THE UK

Document No: PP 5/23   🕑 *Posted: 10 November 2023*

Text and data mining (TDM) in the UK – multi-organisation letter urging the UK Government to ensure the UK is a favourable place to develop and use safe AI, by clarifying that public and legally accessed data is available for AI training and analysis in its code of practice

Artificial intelligence   + Add to myFT

UK shelves proposed AI copyright code in blow to creative industries

Government-led talks stall as artists and tech groups fail to agree terms over access to copyrighted work
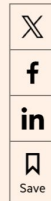
AI has caused alarm among artists, authors, musicians and media groups who are concerned that their work will be mined and reproduced without payment © Orlando Britain/Alamy

Daniel Thomas and **Cristina Criddle** in London FEBRUARY 5 2024

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THE WHITE HOUSE

Administration Priorities The Record Briefing Room Español MENU

OCTOBER 30, 2023

Executive Order on the Safe, Secure, and Trustworthy Development and Use of Artificial Intelligence

🏛 ▸ **BRIEFING ROOM** ▸ **PRESIDENTIAL ACTIONS**

By the authority vested in me as President by the Constitution and the laws of the United States of America, it is hereby ordered as follows:

Section 1. Purpose. Artificial intelligence (AI) holds extraordinary potential for both promise and peril. Responsible AI use has the potential to help solve urgent challenges while making our world more prosperous, productive, innovative, and secure. At the same time, irresponsible use could exacerbate societal harms such as fraud, discrimination, bias, and

About ⌄   Committee Activity ⌄   Subcommittees ⌄   Media Center ⌄   Blow the Whistle

Hearing   Hearing Date: March 21, 2024 10:00 am | 2154 Rayburn House Office Building

White House Overreach on AI

Subject	White House Overreach on AI
Date	March 21, 2024
Time	10:00 am
Place	2154 Rayburn House Office Building

Cybersecurity, Information Technology, and Government Innovation

White House Overreach on AI

SUBCOMMITTEE HEARING

White House Overreach on AI

Thursday, March 21, 2024   10:00 a.m. ET

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Technology

MEPs approve world's first comprehensive AI law

🕓 5 hours ago

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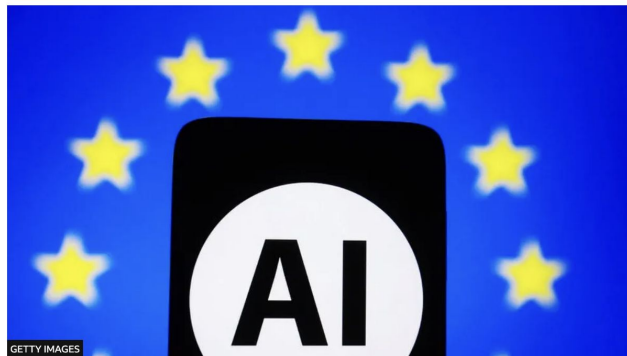
By Shiona McCallum, Liv McMahon & Tom Singleton
Technology reporters

The European Parliament has approved the world's first comprehensive framework for constraining the risks of artificial intelligence (AI).

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King's Speech: Vision for AI overlooked in the UK government's plans for new laws

Copyright AP Photo/Kirsty Wigglesworth, Pool

By **Pascale Davies**

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NEWS | ARTIFICIAL INTELLIGENCE

California's "AI Safety" Bill Will Have Global Effects › The recently passed bill will impact most large AI firms in the world

BY LAURA HAUTALA | 30 AUG 2024 | 4 MIN READ

FINANCIAL TIMES

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OpenAI joins opposition to California AI safety bill

ChatGPT maker says legislation would harm innovation and stifle start-ups in the state

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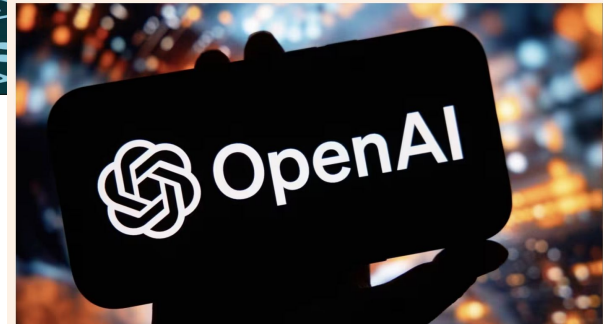
WIRED

BACKCHANNEL   BUSINESS   CULTURE   GEAR   IDEAS   SCIENCE   SECURITY

WILL KNIGHT   BUSINESS   AUG 24, 2023 12:00 PM

The Myth of 'Open Source' AI

A new analysis shows that "open source" AI tools like Llama 2 are still controlled by big tech companies in a number of ways.
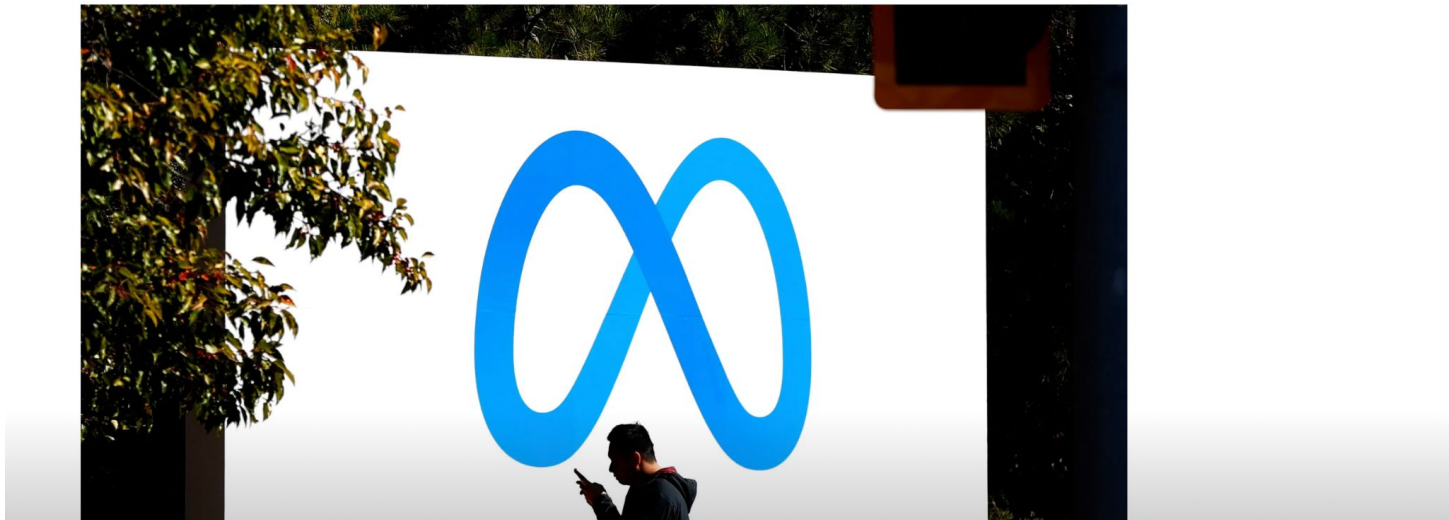
CHAPTER 3: OPEN OR CLOSED?

29. Competition dynamics will play a defining role in shaping who leads the market and what kind of regulatory oversight works best. At its heart, this involves a contest between those who operate 'closed' ecosystems, and those who make more of the underlying technology openly accessible. We examined whether the Government should adopt an explicit position favouring one or the other, and how it should navigate concerns about regulatory capture.

Open and closed models

30. The arguments were nuanced and shaped in part by stakeholders' particular interests. Closed models are associated with the most advanced capabilities developed in a small number of research laboratories such as OpenAI (backed by Microsoft), Anthropic (which has relationships with Amazon and Google), and Google DeepMind.[44] A range of smaller fine-tuned products may be built on top of a base model. But closed models offer fewer downstream opportunities for other businesses to examine and experiment with the underlying technology.[45]

31. Open access models tend to be cheaper and more accessible.[46] Dr Draief, Managing Director of Mozzilla.ai, argued that open models provided a "virtuous circle" by enabling more people to experiment with the technology.[47] Irene Solaiman, Global Policy Director of the open access platform Hugging Face, said openness provided better transparency and opportunities for community-led improvements.[48] Open models have however lagged behind the most advanced closed models on full-spectrum benchmarks[49] and have fewer options to recall and fix harmful products.[50]

32. Microsoft and Google said they were in general very supportive of open access technologies but believed the security risks arising from openly available powerful LLMs were so significant that more guardrails were needed.[51] OpenUK said there were many different types of 'open' technologies, in the same way that cars and lorries are different types of vehicle, and suggested nuanced regulatory proposals were essential.[52] Getty Images cautioned against "gaps in the fabric of regulations" that might exempt open models from obligations.[53]

33. Our evidence suggested a nuanced and iterative approach will be essential. Our review of risks in Chapter 5 suggests that the release and deployment of models without guardrails may pose credible risks. Equally, a market

to trace exactly how a model uses a particular input to generate particular outputs, though efforts are underway to improve insight into their workings.[18]

Figure 2: Building, releasing and using a large language model
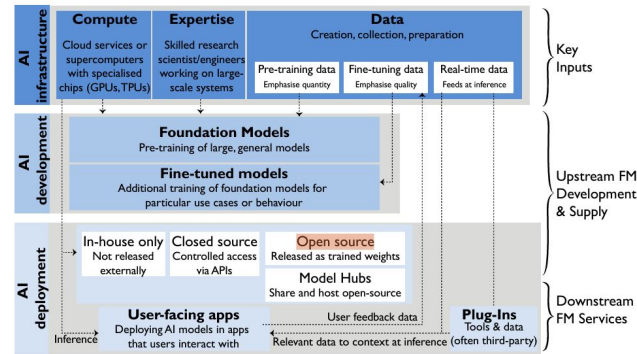
Source: Competition and Markets Authority, AI Foundation Models Review (2023): https://assets.publishing.service.gov.uk/media/65045590dec5be000dc35f77/Short_Report_PDFA.pdf [accessed 14 December 2023]

14.   Models may be released in a variety of open or closed formats. Those on the open end of the spectrum tend to make more of the underlying system code, architecture and training data available.[19] The parameters may also be published, allowing others to fine-tune the model easily.[20] Those on the closed end of the spectrum tend to publish less information about how it has been developed and the data used.[21] The use of the term 'open source' model remains contested. We therefore use the term 'open access'.[22]

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ARTIFICIAL INTELLIGENCE

The tech industry can't agree on what open-source AI means. That's a problem.

The answer could determine who gets to shape the future of the technology.
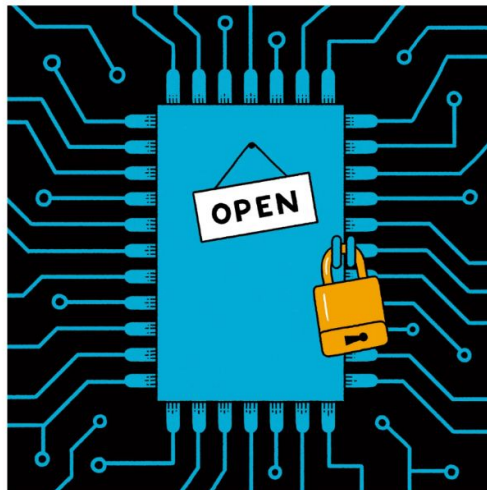
By Edd Gent   March 25, 2024

SHOP TALK

Openwashing

/ō-pən-wä-shǐng/

An accusation against some A.I. companies that they are using the "open source" label too loosely.

Germany

University of Rostock

"Open source will be a cornerstone of Germany's digital state."

https://joinup.ec.europa.eu/collection/open-source-observatory-osor/news/open-source-be-norm-german-public-procurement

France

Grenoble Alpes University

"Open source as a critical component of scientific research"

https://joinup.ec.europa.eu/collection/open-source-observatory-osor/news/open-source-software-supported-french-open-science-policy

Netherlands

Radboud University

"Open source by default" principle

https://joinup.ec.europa.eu/collection/open-source-observatory-osor/news/open-source-toolbox-released-netherlands

"It's why we are not legislating.

It's also why we are pro-open source.

Open source drives innovation.

It creates start-ups.

It creates communities.

There must be a very high bar for any restrictions on open source."

"That's why the AI Safety Institute is today open sourcing what it has built.
The code for its Inspect project – a framework for building AI safety evaluations – is now available to anyone to use.

The AI Safety institute will also soon announce plans for an Open Source Open Day bringing together experts to explore how open source tools can improve safety."

Open:UK

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Reuters

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Technology | Data Privacy | ADAS, AV & Safety | Software-Defined Vehicle | Sustainable & EV Supply Chain

Second global AI summit secures safety commitments from companies

By Joyce Lee

May 21, 2024 11:42 PM GMT+3 · Updated 4 months ago

[1/2] Words reading "Artificial intelligence", miniature of robot and toy hand are pictured in this illustration taken

Macron delivers a speech during the Global Forum on AI for Humanity in Paris in 201~~ Images~~

COMMENTARY

France's AI Summit Is a Chance to Reshape Global Narratives on AI

But Paris first must hone its alternative vision.

AISI | AI SAFETY INSTITUTE

Inspect ⚙

🔍

Inspect

An open-source framework for large language model evaluations

Welcome

Welcome to Inspect, a framework for large language model evaluations created by the UK AI Safety Institute.

Inspect provides many built-in components, including facilities for prompt engineering, tool usage, multi-turn dialog, and model graded evaluations. Extensions to Inspect (e.g. to support new elicitation and scoring techniques) can be provided by other Python packages.

We'll walk through a fairly trivial "Hello, Inspect" example below. Read on to learn the basics, then read

The EU's AI Act Creates Regulatory Complexity for Open-Source AI

by Daniel Castro | March 4, 2024

AP

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BUSINESS

White House says no need to restrict 'open-source' artificial intelligence — at least for now

BY MATT O'BRIEN
Updated 4:31 PM GMT+3, July 30, 2024

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The White House is coming out in favor of "open-source" artificial intelligence technology, arguing in a report Tuesday that there's no need right now for restrictions on companies making key components of their powerful AI systems widely available.

"We recognize the importance of open systems," said Alan Davidson, an assistant secretary of the U.S. Commerce Department, in an interview with The Associated Press.

As part of a sweeping executive order on AI last year, President Joe Biden gave the U.S. Commerce Department until July to talk to experts and come back with

THENEWSTACK

Calls to Ban Open Source are Misguided and Dangerous

Open source is already under challenge, and conversations about "banning open source" in AI raise genuine concerns.

Jun 24th, 2024 2:05pm by Amanda Brock

NEWS | ARTIFICIAL INTELLIGENCE

California's "AI Safety" Bill Will Have Global Effects › The recently passed bill will impact most large AI firms in the world

BY LAURA HAUTALA | 30 AUG 2024 | 4 MIN READ

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California's AI Bill Won't Harm Open Source, Says Author

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Policy Readout - Columbia Convening on Openness and AI

MARCH 27, 2024 | TECH POLICY & REGULATION / OPENNESS AND AI

This policy brief distills the discussions at Columbia Convening in 2024 for policymakers - identifying benefits that openness can bring to the AI ecosystem, the risk/benefit tradeoffs in opening up different components of the AI stack, and recommendations for policymakers.

Policy Readout - Columbia Convening

A new framework is proposed to help inform practical and nuanced decisions about the openness of AI systems, including foundation models. The recent [proceedings from the Columbia Convening on Openness in Artificial Intelligence](), made available for the first time this week, are a welcome addition to the process.

The Columbia Convening brought together experts and stakeholders to discuss the complexities and nuances of openness in AI. The goal was not to define [Open Source AI]() but to illuminate the multifaceted nature of the issue. The proceedings reflect the February conversations and are based on the backgrounder text developed collaboratively with the working group.

One of the significant contributions of these proceedings is the framework for understanding openness across the AI stack. The framework summarizes previous work on the topic, analyzes the various reasons for pursuing openness, and outlines how openness varies in different parts of the AI stack, both at the model and system levels. This approach provides a common descriptive framework to deepen a more nuanced and rigorous understanding of openness in AI. It also aims to enable further work around definitions of openness and safety in AI.

The proceedings emphasize the importance of recognizing safety safeguards,

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Blog

Introducing the Model Openness Framework: Promoting Completeness and Openness for Reproducibility, Transparency and Usability in AI

By cakerly | April 17, 2024 | No Comments

The Open Source AI Definition

💬 27

version 0.0.8

> ℹ Note: This document is made of three parts: A preamble, stating the intentions of this document; the Definition of Open Source AI itself; and a checklist to evaluate legal documents.

> ℹ This document follows the definition of AI system adopted by the Organization for Economic and Co-operation Development (OECD)
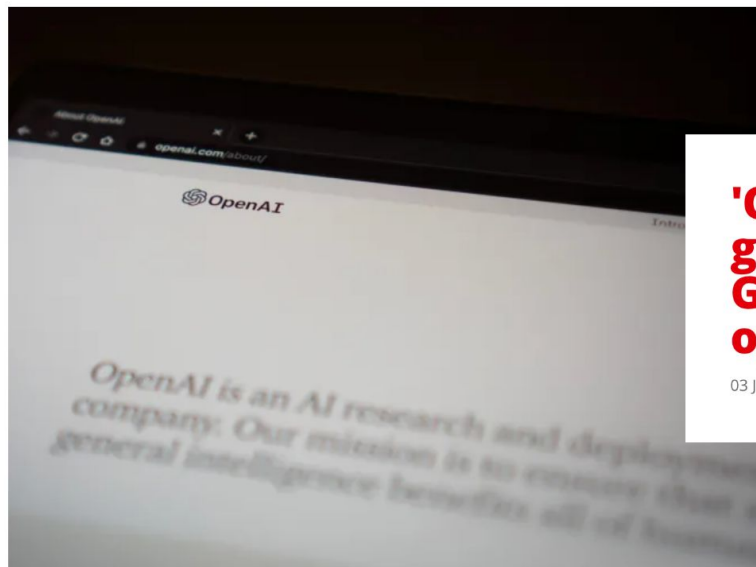>
> > An AI system is a machine-based system that, for explicit or implicit objectives, infers, from the input it receives, how to generate outputs such as predictions, content, recommendations, or decisions that can influence physical or virtual environments. Different AI systems vary in their levels of autonomy and adaptiveness after deployment.
>
> More information about definitions of AI systems on OSI's blog.

♡
5

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Preamble

Why we need Open Source Artificial Intelligence (AI)

Open Source has demonstrated that massive benefits accrue to everyone when you remove the barriers to learning, using, sharing and improving software systems. These

'Open-washing' generative AI: how Meta, Google and others feign openness

03 July 2024 • Research news item

The past year has seen a steep rise in generative AI systems that claim to

Open GenAI: LLMs (simplified table)

Project	Availability						Documentation						Access	
	Open code	LLM data	LLM weights	RL data	RL weights	License	Code	Architecture	Preprint	Paper	Modelcard	Datasheet	Package	API
OLMo 7B Instruct	✔	✔	✔	✔	✔	✔	✔	✔	✔	✗	✔	✔	✔	~
BLOOMZ	✔	✔	✔	~	~	✔	✔	✔	✔	✔	✔	✔	✗	✔
AmberChat	✔	✔	✔	✔	✔	✔	✔	✔	✔	~	✗	✔	✗	✔
Open Assistant	✔	✔	✔	✔	✔	~	✔	✔	~	✔	✗	✔	~	✔
OpenChat 3.5 7B	✔	✗	✔	✗	✔	✔	✔	~	✗	✗	✔	✗	~	✔
Pythia-Chat-Base-7…	✔	✔	✔	✔	✔	~	✔	~	✗	✗	✔	✔	✔	✗
Cerebras GPT 111…	~	✔	✔	✔	✔	~	✗	✔	~	✗	✗	✗	✗	✔
RedPajama-INCITE…	✔	✔	✔	✔	✔	~	✔	~	✗	✗	✔	✗	✗	✗
dolly	✔	✔	✔	✔	✗	✔	✔	~	✗	✗	✗	✗	✔	✗
Tulu V2 DPO 70B	✔	✗	~	~	~	✔	✔	✔	✗	✔	✗	~	✔	✔
MPT-30B Instruct	✔	✔	✔	~	~	~	✔	~	✗	✗	✔	✗	✔	~
MPT-7B Instruct	✔	✔	✔	~	~	~	✔	~	✗	✗	✔	✗	✔	~
trlx	✔	~	✔	✔	✔	✔	✔	~	✗	✗	✗	✗	✔	✔
NeuralChat 7B	~	✗	✔	✔	✔	✔	~	~	✗	✗	✔	✗	✔	✗
Vicuna 13B v 1.3	✔	✔	✔	✗	✗	✔	✔	✔	~	✔	✗	✗	✔	~
minChatGPT	✔	✔	✔	~	~	✔	✔	~	✗	✗	✗	✗	✔	✔
ChatRWKV	✔	✔	✔	✗	✗	✔	~	~	✗	✗	✗	✗	✔	~
BELLE	✔	~	✔	~	✗	~	✔	✔	✔	~	✗	✗	✗	✗
Geitje Ultra 7B	✗	~	✔	✔	✔	✔	✗	~	✗	✗	✔	✗	✔	✗
Phi 3 Instruct	✗	✗	✔	✗	✗	✔	✗	~	✔	✔	✔	✗	~	✗
WizardLM 13B v1.2	✗	✗	✔	~	✗	~	✗	~	✔	✔	✗	✗	✔	~
Airoboros L2 70B G…	✗	✗	✔	✗	✗	✔	✗	✗	✗	✗	~	✗	✔	✔
ChatGLM-6B	~	~	✔	✗	✗	✔	~	~	✔	✗	✗	✗	✔	✔

Open GenAI: LLMs (simplified table)

Project	Availability						Documentation						Access	
	Open code	LLM data	LLM weights	RL data	RL weights	License	Code	Architecture	Preprint	Paper	Modelcard	Datasheet	Package	API
Mistral 7B-Instruct	~	✗	✔	✔	✗	✔	✗	~	✔	✗	✗	✗	~	✔
WizardLM-7B	~	✗	✔	✗	✔	✔	✗	✔	~	✔	✗	✗	✗	✗
Qwen 1.5	~	✗	✔	✗	~	~	✗	~	✗	✔	~	✗	✗	✗
StableVicuna-13B	~	~	✔	~	~	✔	~	~	✗	✗	✔	✗	~	~
Falcon-40B-instruct	✗	~	✔	~	~	✔	✗	~	✗	✔	✗	✗	~	~
UltraLM	✗	✗	✔	✔	✗	✔	✗	✔	✗	✔	✗	✗	~	✗
Yi 34B Chat	~	✗	✔	✗	✗	✔	✗	~	✗	✗	~	✗	~	✔
Koala 13B	✔	~	~	~	✗	~	✔	~	✗	✗	✗	✗	~	✗
Mixtral 8x7B Instruct	✗	✗	✔	✗	✗	✔	✗	~	✗	✔	~	✗	~	~
Stable Beluga 2	✗	✗	✔	✗	✗	✔	✗	~	✗	✗	~	✗	~	✗
Stanford Alpaca	✔	~	~	✔	✗	✔	✔	~	✗	✗	✗	✗	~	✗
Falcon-180B-chat	~	~	✔	✗	✗	~	✗	~	✗	✗	✗	✗	~	~
Gemma 7B Instruct	~	✗	✔	✗	✗	~	✗	~	✗	✔	✔	✗	~	~
Orca 2	✗	✗	✔	✗	✗	~	✗	✔	✔	✔	~	✗	~	✗
Command R+	✗	✗	✔	✗	✗	~	✗	~	✗	✗	~	✗	~	✗
LLaMA2 Chat	✗	✗	✔	✗	✗	~	✗	~	✗	✔	~	✗	~	~
Nanbeige2-Chat	✔	✗	✔	✗	✗	~	✗	✗	✗	✗	~	✗	~	~
Llama 3 Instruct	✗	✗	✔	✗	✗	~	✗	~	✗	✗	~	✗	~	~
Solar 70B	✗	✗	✔	✗	✗	✔	✗	~	✗	✔	~	✗	~	~
Xwin-LM	✗	✗	✔	✗	✗	✔	✗	~	✗	✗	~	✗	~	~
ChatGPT	✗	✗	✗	✗	✗	✗	✗	✗	✗	✔	✗	✗	~	✗

How to use this table. Every cell records a three-level openness judgement (✔ open, ~ partial or ✗ closed) with a direct link to the available evidence; on hover, the cell will display the notes we have on file for that judgement. The name of each project is a direct link to source data. The table is sorted by cumulative openness, where ✔ is 1, ~ is 0.5 and ✗ is 0 points. Note that RL may refer to RLHF or other forms of fine-tuning aimed at fostering instruction-following behaviour.

Figure 12.

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Meta is accused of "bullying" the open-source community

It hopes its models will set the standard for open-source artificial intelligence

"A market dominated by closed models presents other risks around overreliance, single points of failure and concentrated market power."
House of Lords LLM Report 2024

Dan Milmo *Global technology editor*

Sat 25 Nov 2023 10.00 GMT

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Sacking, revolt, return: how crisis at OpenAI over Sam Altman unfolded

Firing of the CEO behind ChatGPT company sent shock waves through Silicon Valley - only for him to be reinstated days later

Sam Altman speaks at the Asia-Pacific Economic Cooperation summit in San Francisco, California, on 16 November. Photograph: Andrew Caballero-Reynolds/AFP/Getty Images

The lawsuit that could rewrite the rules of AI copyright
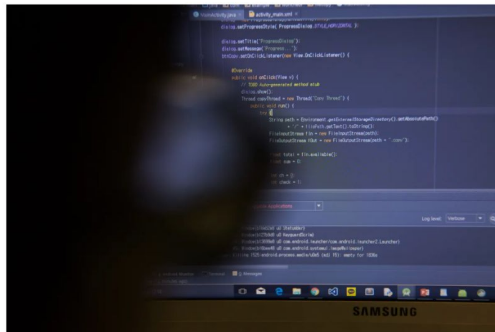
The key question in the lawsuit is whether open-source code can be reproduced by AI without attached licenses. Credit: Getty Images

/ Microsoft, GitHub, and OpenAI are being sued for allegedly violating copyright law by reproducing open-source code using AI. But the suit could have a huge impact on the wider world of artificial intelligence.
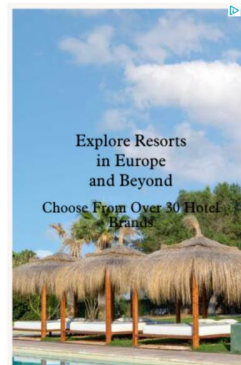
By James Vincent, a senior reporter who has covered AI, robotics, and more for eight years at The Verge.

Nov 8, 2022, 4:09 PM GMT

Comments (9 New)

Microsoft, its subsidiary GitHub, and its business partner OpenAI have been targeted in a proposed class action lawsuit alleging that the companies' creation of AI-powered coding assistant GitHub Copilot relies on "software piracy on an unprecedented scale." The case is only in its earliest stages but could have a huge effect on the broader world of AI, where companies are making fortunes training software on copyright-protected data.

Copilot, which was unveiled by Microsoft-owned GitHub in June 2021, is trained on public repositories of code scraped from the web, many of which are published with licenses that require anyone reusing the code to credit its creators. Copilot has been found to regurgitate long sections of licensed code without providing credit — prompting this lawsuit that accuses the companies of violating copyright law on a massive scale.

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