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What is an "open' model?

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Many issues raised

Summarizing

References

Open Models for Generative Artificial Intelligence

Jesus M. Gonzalez-Barahona

Universidad Rey Juan Carlos https://floss.social/@jgbarah https://jgbarah.github.io/presentations

I Jornadas de Software Libre en Educacion IES Rafael Alberti, Cadiz, Spain, June 2 2025

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- 1 What is an "open" model?
- 2 Generative Al in your computer
- 3 Models, models, models
- 4 Infrastructure to play, to share
- 6 Many issues raised
- **6** Summarizing

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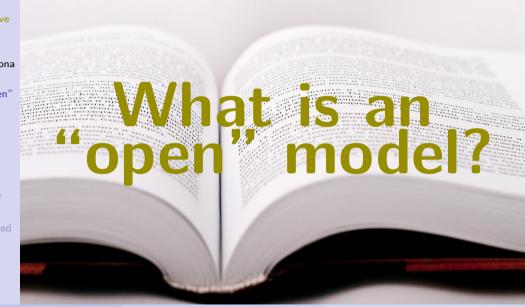
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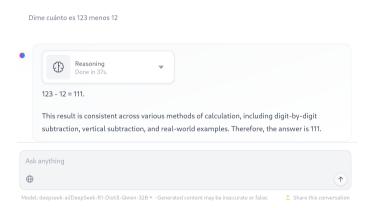
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Start by trying!



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Reference

Start by trying!

https://huggingface.co/chat/

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Reference

Start by trying!

https://api.aime.info/sd3_5/

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Reference

Start by trying!

https:

//api.aime.info/tts-tortoise/

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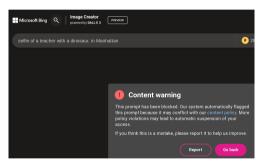
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But beware!



"selfie of a teacher with a dinosaur, in Manhattan"

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Can we control how we use generative models?

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References

What's a generative model

- Architecture
- Weights, just weights
- Software to make inferences

But also:

- Data to train, benchmark
- Software to train, benchmark
- Weights of intermediate models
- Documentation, explaining everything

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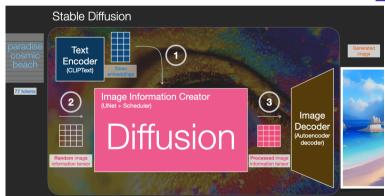
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Example: Stable Diffusion

1.0



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

Matt White^{1,2}, Ibrahim Haddad², Cailean Osborne^{2,3}, Xiao-Yang (Yanglet) Liu^{1,4}, Ahmed Abdelmonsef¹, Sachin Varghese¹

¹LF AI & Data - Generative AI Commons, ²Linux Foundation, ³University of Oxford, ⁴Columbia University

https://arxiv.org/abs/2403.13784

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Classes of "openess"

- Open science: paper, datasets, log files, intermediate models parameters & metadata
- Open tooling: training, inference, and evaluation code, libraries, evaluation data
- Open model: architecture, model parameters
 & metadata, tech report, model card, data
 card

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"Open reproducible model"

All of the above, and

complete training set

(and any other detail needed to produce the same binary model)

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References

The four freedoms

- Freedom to use
- Freedom to study and modify
- Freedom to distribute
- Freedom to distribute modifications

```
https://www.gnu.org/philosophy/
free-sw.en.html
```

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Use

- Model weights
- Minimum: Detailed descritpion of the model architecture
- Practical: Inference software
- Permission

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Study and modify

- Training set, software & parameters
- Permission

Special case: Finetuning (model weights & architecture)

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Distribute

Both as such and modified:

Permission

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Open Source Al

Open Source AI Definition:

- Fundamentally, four freedoms
- ...but...
- ...only description of the training set

```
https://opensource.org/ai/
open-source-ai-definition
```

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Minimum for running in your computer

- Inference code, with libraries
- Model architecture
- Model parameters & metadata (weights)
- Technical report (prompts, etc.)
- Model card (convenient)

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Equipment requirements

- Depends on architecture, and size of the model
- CPU can be enough, GPU can accelerate a lot
- RAM enough so that model fits
- Code is usually FOSS

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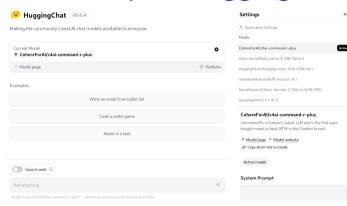
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Example: HuggingChat



https://huggingface.co/chat/

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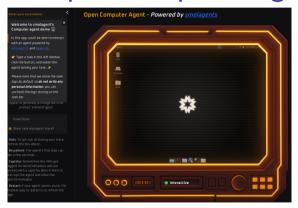
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Example: computer-agent



https://huggingface.co/spaces/smolagents/computer-agent

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Example: computer-agent

Key components:

Agents framework: smolagents

Model: Qwen2-VL-72B

Desktop: E2B Desktop

https://github.com/huggingface/smolagents https://huggingface.co/Qwen/Qwen2-VL-72B-Instruct https://github.com/e2b-dev/desktop

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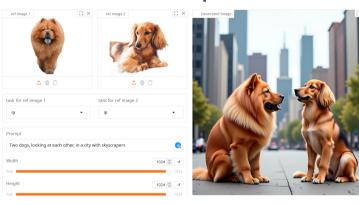
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Example: DreamO



https://huggingface.co/spaces/ByteDance/DreamO

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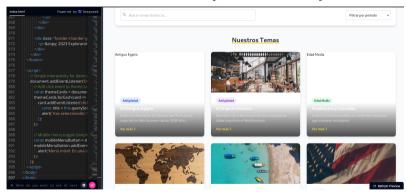
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Example: DeepSite



https://huggingface.co/spaces/enzostvs/deepsite

https://huggingface.co/spaces/enzostvs/deepsite/discussions/74

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More examples

https://huggingface.co/spaces/

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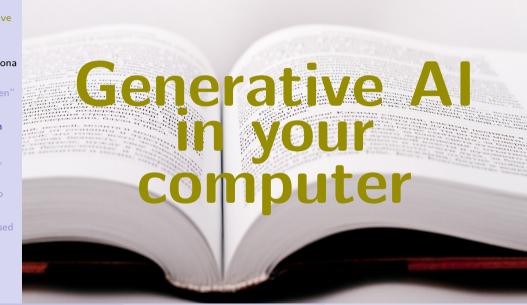
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Models to download

HuggingFace: all kinds

https://huggingface.co/

CivitAI: images

https://civitai.com/

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References

Models via cloud APIs

OpenRouter: text

https://openrouter.ai/

• Groq: text

https://groq.com/

Replicate: images

https://replicate.com

Together.ai: multimodal

https://together.ai/

Models, models

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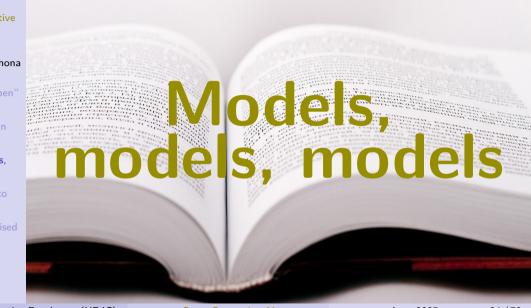
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Speech to text: Whisper

#!/usr/bin/python3
import whisper

```
model = whisper.load_model('tiny')
transcription = model.transcribe('recording.wav')
print(transcription['text'])
```

\$ whisper speech.wav --language Spanish

```
https://openai.com/blog/whisper/
https://github.com/openai/whisper
License: MIT (open source)
```

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References

Text to speech: Coqui TTS

```
$ tts --text "Texto" \
   --model_name tts_models/es/mai/tacotron2-DDC \
   --out_path speech.wav
```

```
https://github.com/idiap/coqui-ai-TTS
License: MPL-2.0 (open source)
```

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Text to speech: Tortoise TTS

```
$ python tortoise/do_tts.py \
  --text "Hello everybody!" \
  --voice random --preset fast
```

```
https://github.com/neonbjb/tortoise-tts
License: Apache-2.0 (open source)
```

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References

Stable Diffusion

EasyDiffusion:

https://easydiffusion.github.io

Fooocus:

https://github.com/lllyasviel/Fooocus

AUTOMATIC1111:

https://github.com/AUTOMATIC1111/

stable-diffusion-webui

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References

Stable Diffusion (2)

SD.next:

https:

//github.com/vladmandic/automatic

ComfyUI:

https:

//github.com/comfyanonymous/ComfyUI

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References

Text generation models

Llama4, Llama Community License

```
https://llama.com/models/llama-4/
https://github.com/meta-llama/
```

DeepSeek, DeepSeek License

```
https://deepseek.com/
```

https://huggingface.co/deepseek-ai

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Text generation models (2)

Mistral, Apache 2.0

https://mistral.ai/

https://huggingface.co/mistralai

Qwen, Apache 2.0

https://huggingface.co/Qwen

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Leaderboard

Rank* ^	₾ Model ^	* Arena . Elo	₩ 95% CI ^	Notes A	Organization ^	License ^	Knowledge Cutoff
1	GPT-4-Turbo-2024-04-09	1258	+3/-3	44592	0penAI	Proprietary	2023/12
2	GPT-4-1106-preview	1252	+2/-3	76173	OpenAI	Proprietary	2023/4
2	Genini 1.5 Pro API-8409-Preview	1249	+3/-3	61011	Google	Proprietary	2023/11
2	Claude 3 Opus	1248	+2/-2	101063	Anthropic	Proprietary	2023/8
3	GPT-4-0125-preview	1246	+3/-2	70239	OpenAI	Proprietary	2023/12
6	Bard (Genini Pro)	1268	+5/-6	12387	Google	Proprietary	Online
6	Llana-3-70b-Instruct	1208	+3/-3	75844	Mota	Llama 3 Community	2023/12
7	Reka-Core-20240501	1199	+4/-4	18735	Roka AI	Proprietary	Unknown
В	Claude 3 Sonnet	1260	+2/-3	84252	Anthropic	Proprietary	2023/8
10	GPT-4-0314	1189	+3/-3	53446	OpenAI	Proprietary	2021/9
10	Qwen-Max-9428	1186	+5/-7	10598	Alibaba	Proprietory	Unknown
10	Connand R+	1189	+3/-3	58498	Cohere	CC-BY-NC-4.0	2024/3
12	Claude 3 Haiku	1180	+2/-3	74897	Anthropic	Proprietary	2023/8
13	Qwen1.5-1188-Chat	1172	+7/-8	6019	Alibaba	Qianmen LICENSE	2024/4

https://lmarena.ai/?leaderboard

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References

Inference engines

llama.cpp

https://github.com/ggerganov/llama.cpp

Ollama

https://ollama.com/

vLLM

https://github.com/vllm-project/vllm

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Models, models,

Infrastructure to

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References

Chat frontends

Oobabooga:

https://github.com/oobabooga/ text-generation-webui

openplayground:

https://github.com/nat/openplayground

catAl

https://github.com/withcatai/catai

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Collections of consented, open data

LAION Open Empathic

https://laion.ai/blog/open-empathic/

LAION Datasets

https://laion.ai/projects/

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Agent frameworks

Camel-Al Owl

https://github.com/camel-ai/owl

https://github.com/camel-ai

LangChain

https://langchain.com/

Smolagents

https://github.com/huggingface/smolagents

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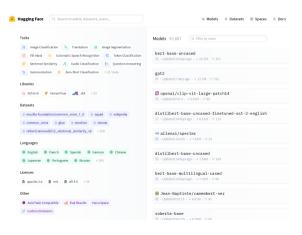
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References

Hugging Face



"GitHub for ML"

https://huggingface.co

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Gradio



https://gradio.app/

License: Apache 2.0

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Diffusers



Pretrained diffusion models (vision, audio, etc.)
Modular toolbox for inference & training of
diffusion models

https://github.com/huggingface/diffusers

License: Apache 2.0

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Model frameworks, etc

PvTorch

TensorFlow

Keras

Cuda

https://tensorflow.org/

https://keras.io/

https://developer.nvidia.com/

https://pytorch.org/

cuda-toolkit

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Collab



Python in the browser, zero configuration Access to GPUs & easy sharing

https://colab.research.google.com/

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Python in the browser, easy

https://jupyter.org/

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References

Intellectual property (training set)

Have AI image generators assimilated your art? New tool lets you check

New search engine combs through harvested images used to train Stable Diffusion, others.

```
ars Technica

BY 1 IEE SCINE POLIT CAS CAMING OUTURE ST
```

```
https:
```

//haveibeentrained.com/

https://arstechnica.com/ information-technology/ 2022/09/

have-ai-image-generators-as

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Intellectual property (results)

Impact of Technology Deep Dive Report I

STUDY ON THE IMPACT OF ARTIFICIAL INTELLIGENCE ON THE INFRINGEMENT AND ENFORCEMENT OF COPYRIGHT AND DESIGNS

https://euipo.europa.eu/tunnel-web/secure/webdav/guest/document_library/observatory/documents/reports/2022_Impact_AI_on_the_Infringement_and_Enforcement_CR_Designs/2022_Impact_AI_on_the_Infringement_and_Enforcement_CR_Designs_FullR_en.pdf

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Intellectual property

- Can models be trained on anything public?
- Are models subject to copyright law?
- Who is the author of the production of a model?
- Can anybody besides the author claim rights on the production of a model

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Link to License

https://github.com

/GLM-1308/Nob/main

MODEL LICENSE

OPT.9 outout license GPT-3 VOLO Public domain license /darknet/blob/master/LICENSI Pytorch implementation https://github.com/lucidrains DALLE MIT License of DALLE created by /DALLE-ovtorch/blob/main pytorch individual researcher Open & Responsible Al License (RAIL) created by Stability at and https://huggingfape.co/spaces CreativeMI adapted from the Diffusion Open BAILM BLOOM BAIL license including use-based attachment A) Meta restrictive license

> enabling use of the model weights for

Description

Permissive open source

Model Model

License MIT Lisance

OPT-175B

establishing a set of /OPT/MODEL LICENSE md which could be considered a RAII Onen & Responsible Al License (RAIL) created by BinScience and adapted from the https://huggingface.co/spaces OpenBAIL-M **BLOOM RAIL license** including use-based restrictions (see attachment A)

Licenses

https://hackmd.io/@jending12/HvvMU8sJo

https://thegradient.pub/

machine-learning-ethics-and-open-source-li

June 2025

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model weights for

enabling use of the

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Bias

















Mugshot of a technical speaker, machine learning expert, smiling, long hair, big eyes [t-shirt, curly hair]

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Security



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Whitepaper – Practical Attacks on Machine Learning Systems

- ♣ Jennifer Fernick
- > Machine Learning, Offensive Security & Artificial Intelligence, Research, Research Paper, Whitepaper
- ⑤ July 6, 2022
 ☐ 1 Minute

Written by Chris Anley, Chief Scientist, NCC Group

https://research.nccgroup.com/2022/07/06/

whitepaper-practical-attacks-on-machine-learning-systems/ https://simonwillison.net/2022/Sep/12/prompt-injection/

1 1 7 7 7

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Impact on professionals

- No more draw for hire as a profession?
- New opportunities for artists?
- Access to models as a fundamental need?

Is this different from the invention of photography?

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Prompt engineers

A new profession

Artists, engineers, craftsmen?

Is it here to stay?

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What is an "open model?

Generative Al ir your computer

Models, models, models

Infrastructure to play, to share

Many issues raised

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What is true?

Make-A-Video

Make-A-Video research builds on the recent progress made in text-toimage generation technology built to enable text-to-video generation. The system uses images with descriptions to learn what the world looks like and how it is often described. It also uses unlabeled videos to learn how the world moves. With this data, Make-A-Video let say othing your imagination to life by generating whimsical, one-of-a-kind videos with just a few words or lines of fext.



https://makeavideo.studio/

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Open Generative AI

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The future just started

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References, credits, license

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https://johnowhitaker.github.io/tglcourse/

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