



LUNDS UNIVERSITET

DIKA21.6 Syntetiska medier & generativ AI

Teorier – Fortsättning (7,5 hp) VT24

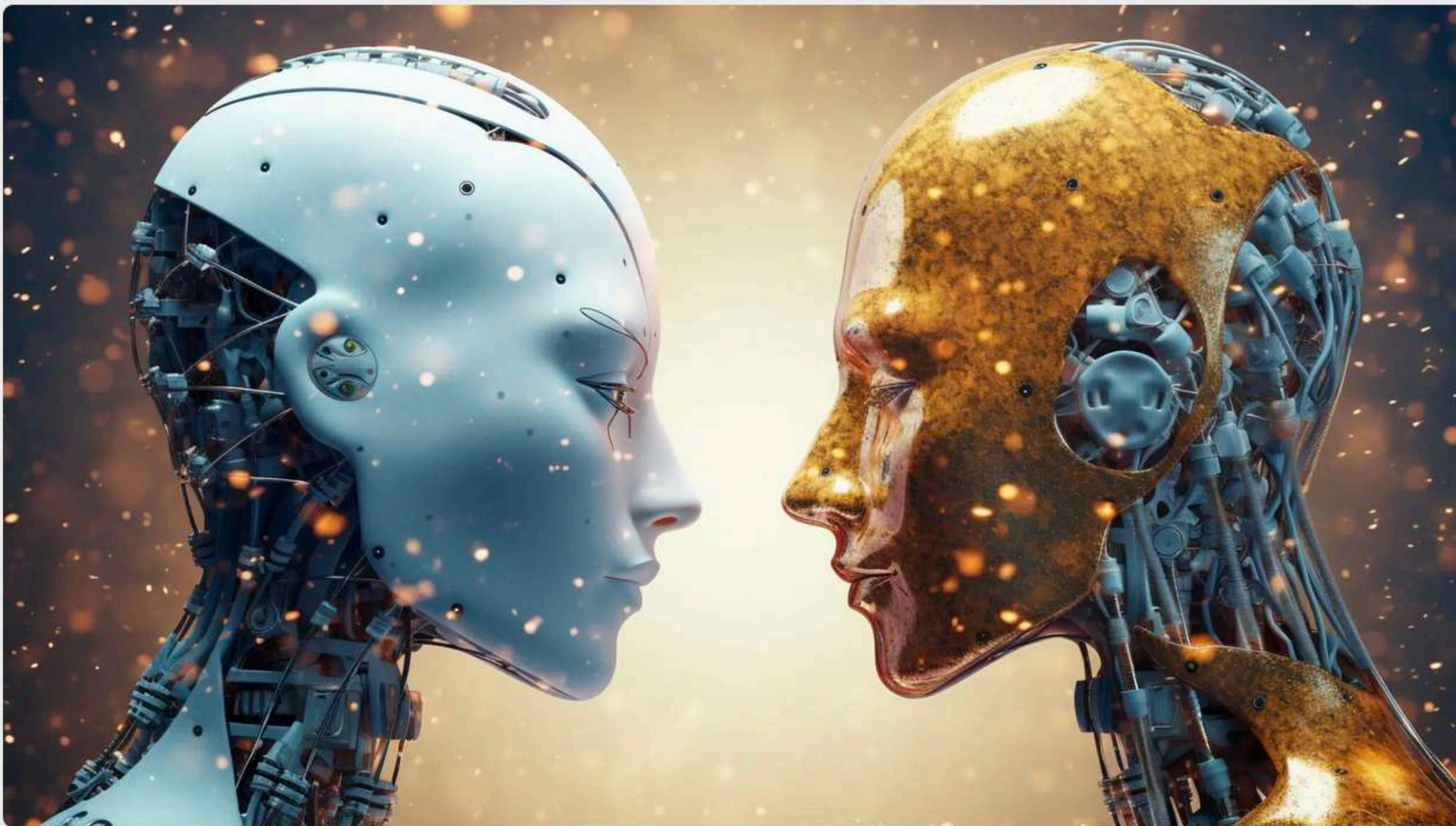
Professor Pelle Snickars

Institutionen för kulturvetenskaper

Avdelningen för ABM & digitala kulturer

Vad är generativ AI?

Att skriva och rita är bara två välkända exempel på vad AI-verktygen kan göra för oss redan idag. Men det finns många fler användningsområden där AI kan underlätta arbetet. Det finns appar och webbplatser som kan skapa musik, klippa ihop en video, förbättra en poddinspelning, fylla en blogg med innehåll, gör en Powerpoint-presentation och mycket mer.



Generativ AI kan användas för att skapa både text och bilder. Det här är en AI-genererad bild gjort i verktyget Midjourney.

Dessa olika verktyg brukar kallas generativ AI. Det är alltså AI som kan användas för att generera, det vill säga skapa något nytt, så som text, ljud och bild utifrån den data verktyget har lärt upp sig på. Daniel Gillblad säger att



You

Vad är generativ ai?



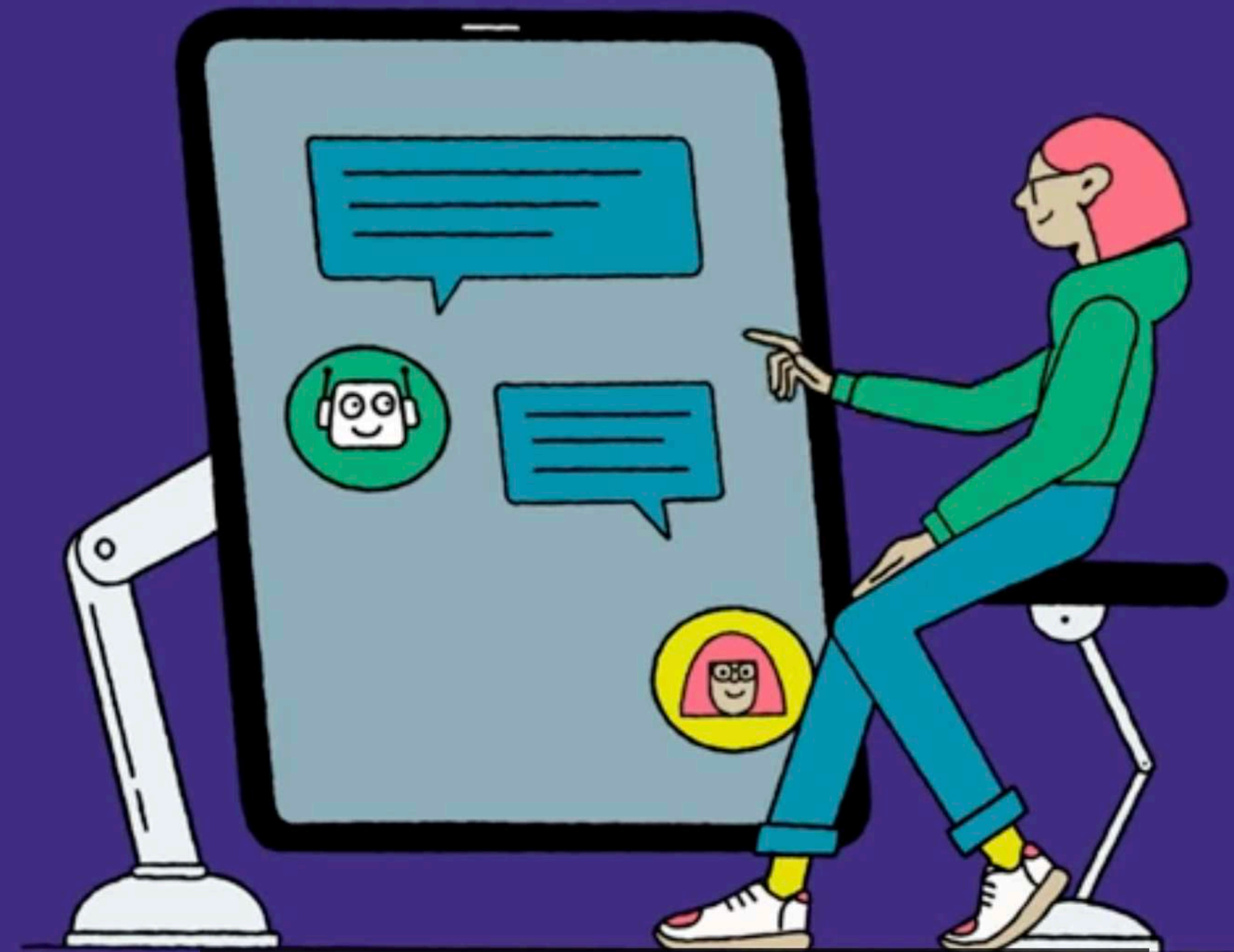
ChatGPT

Generativ AI, eller generativ artificiell intelligens, refererar till en typ av artificiell intelligens (AI) som är inriktad på att generera något nytt eller skapa något, snarare än att bara utföra förutbestämda uppgifter eller svara på givna instruktioner. Generativ AI-system är designade för att skapa innehåll, mönster eller artefakter som liknar de som människor kan producera.

Ett exempel på generativ AI är GPT (Generative Pre-trained Transformer), som är en serie av modeller utvecklade av OpenAI. GPT-modellerna är tränade på stora mängder textdata och kan generera kreativt och sammanhängande text baserat på de mönster de har lärt sig under träningen. De kan användas för uppgifter som textgenerering, översättning, frågesvar och mycket mer.

Generativ AI kan också tillämpas inom andra områden, såsom bildgenerering, där AI-system kan skapa realistiska bilder från abstrakta eller slumpmässiga mönster. Dessa system kan vara kreativa verktyg för konstnärligt skapande och har också potential inom områden som medicinsk forskning, datorspelutveckling och mycket mer.





This description is called a "prompt".

Generative AI explained in 2 minutes



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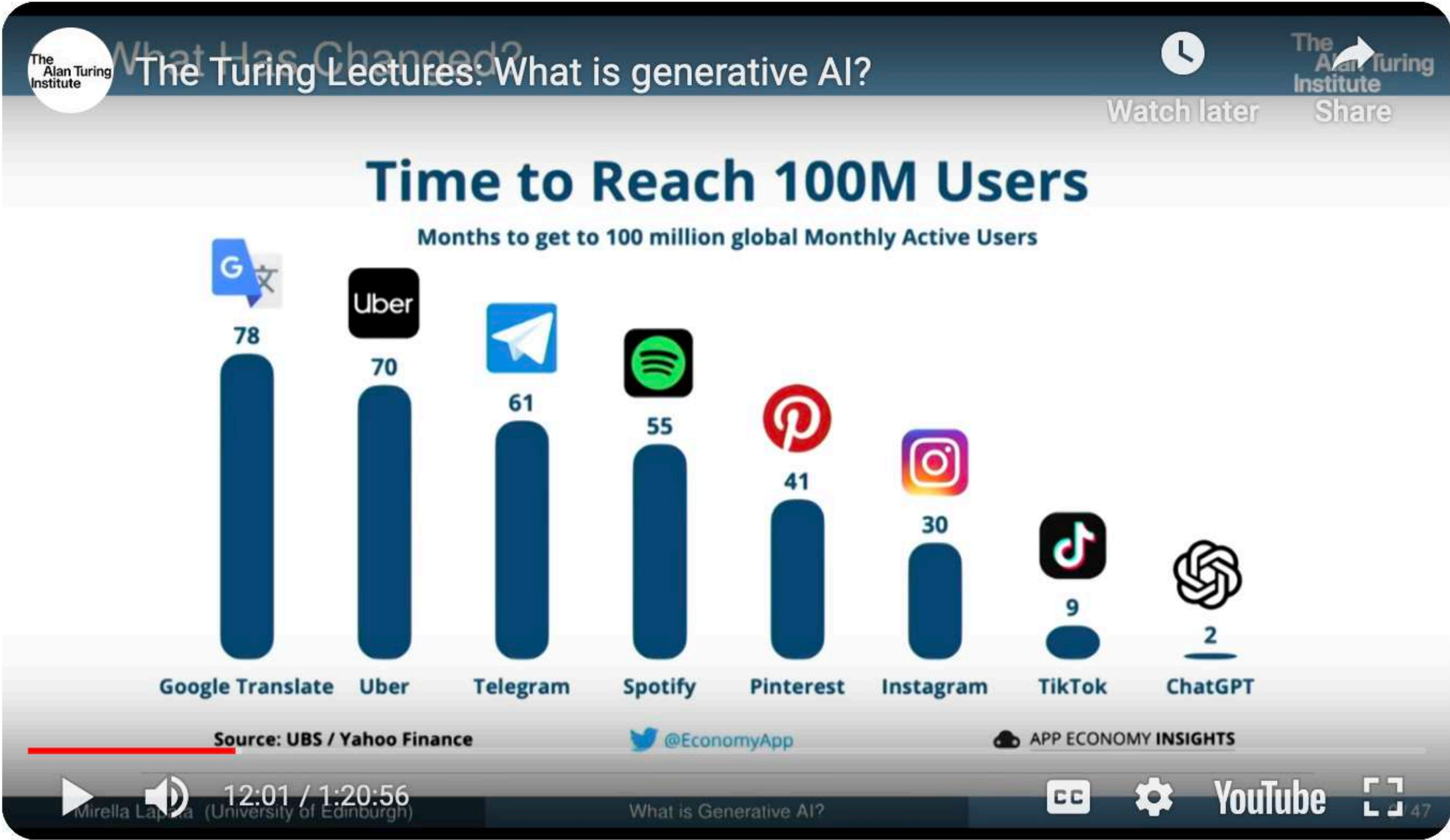
≡+ Spara



The Turing Lectures: What is generative AI?

YouTube · The Alan Turing Institute · 8 Nov 2023

YouTube 



In this video

01:54 Examples of Generative Ai

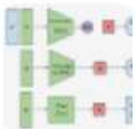
06:19 Outline of the Talk

07:54 Siri

16:14 Neural Language Model

19:14 Language Model

Related topics



Generative model



Generative artificial intelligence

MODERNA TIDER 1936

[Blogg](#)

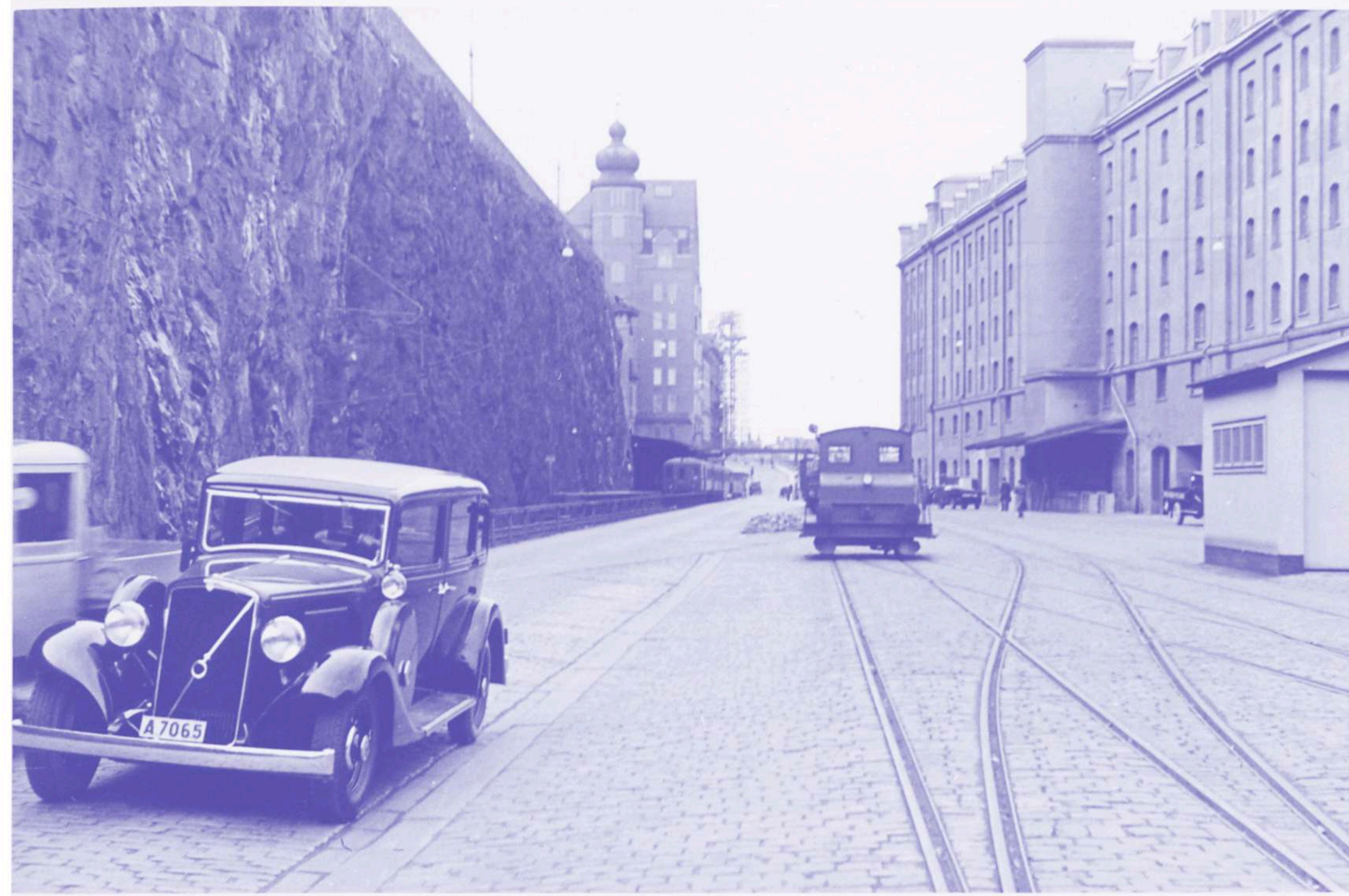
[Om forskningsprojektet](#)

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Vad ser och hör samtida algoritmer för mönsterigenkänning när de appliceras på mediehistoriskt källmaterial?

All historieskrivning kräver tolkningsarbete, men vilka algoritmiska uttolkningar av det förflutna åstadkommer mjukvara? Moderna tider 1936 är ett empiriskt orienterat forskningsprojekt som studerar hur maskiner tolkar vardagliga modernitetssymboler i medialt arkivmaterial från 1936.

Med utgångspunkt i fotografiska och audiovisuella samlingar analyserar projektet hur modernt Sverige egentligen var, samtidigt som det utforskar hur datadrivna metoder kan hjälpa oss förstå modernitetens historia på nya sätt.

[LÄS MER →](#)





Fotograf: Sandberg, Paul / Upplandsmuseet 

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"Inför 'Fågel Blå':s festpremiär i dag", Uppsala 1936

Biografen Fågel Blå, Svartbäcksgatan 7

CHAPLIN | MODERNA TIDER



master

1 branch

0 tags

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Code

xiaozhongji release training code			5f85f24	on Sep 2, 2020	🕒 18 commits
📁 codes	add files				3 years ago
📁 figures	add files				3 years ago
📄 .gitignore	update ignore				3 years ago
📄 LICENSE	init				3 years ago
📄 README.md	release training code				3 years ago

☰ README.md

RealSR

Real-World Super-Resolution via Kernel Estimation and Noise Injection

Xiaozhong Ji, Yun Cao, Ying Tai, Chengjie Wang, Jilin Li, and Feiyue Huang

Tencent YouTu Lab

Our solution is the **winner of CVPR NTIRE 2020 Challenge on Real-World Super-Resolution** in both tracks.

About

Real-World Super-Resolution via Kernel Estimation and Noise Injection

- super-resolution
- noise-injection
- kernel-estimation

- 📖 Readme
- 📜 Apache-2.0 license
- ★ 660 stars
- 👁 25 watching
- 🍴 90 forks
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TensorFlow Hub

Search for models, collections & publishers

Back

 Image super resolution

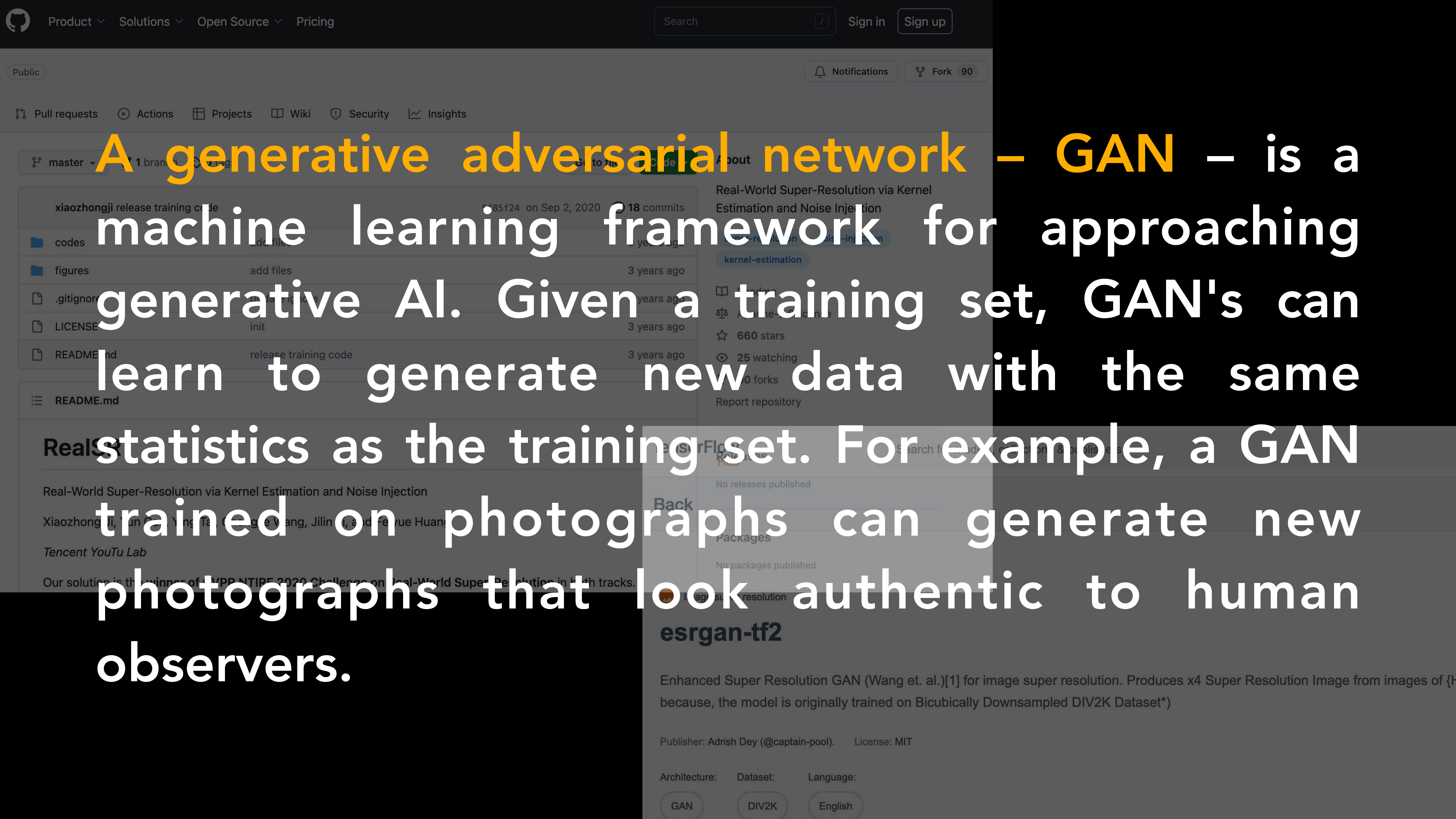
esrgan-tf2

Enhanced Super Resolution GAN (Wang et. al.)[1] for image super resolution. Produces x4 Super Resolution Image from images of {H,W} because, the model is originally trained on Bicubically Downsampled DIV2K Dataset*)

Publisher: Adrish Dey (@captain-pool). License: MIT

Architecture: Dataset: Language:

- GAN
- DIV2K
- English



A generative adversarial network – GAN – is a machine learning framework for approaching generative AI. Given a training set, GAN's can learn to generate new data with the same statistics as the training set. For example, a GAN trained on photographs can generate new photographs that look authentic to human observers.



FAGEL BLÅ

CHAPLIN I MODERNA TIDER







... vad är det som mjukvara ser?





How Samsung Galaxy Cameras Combine Super Resolution Technologies With AI Technology to Produce High-Quality Images of the Moon

March 15, 2023



Samsung is committed to delivering best-in-class camera experiences in all conditions. Since the introduction of the Galaxy S10, the Samsung Galaxy series has harnessed artificial intelligence (AI) technologies in its cameras to help users capture every epic moment anytime, anywhere.

As part of this, Samsung developed the Scene Optimizer feature, a camera functionality which uses advanced AI to recognize objects and thus deliver the best results to users. Since the introduction of the Galaxy S21 series, Scene Optimizer has been able to recognize the moon as a specific object during the photo-taking process, and applies the feature's detail enhancement engine to the shot.



How Samsung Galaxy Cameras Combine Super Resolution Technologies With AI Technology to



LONG READS BUSINESS CULTURE GEAR SCIENCE SECURITY VIDEO

Samsung's Moon Shots Force Us to Ask **How Much AI Is Too Much**

We like HDR-pimped pics, but this latest camera controversy outlines how computational photography could set us down a dicey path.





How Samsung Phones are "Faking" their Photos.



Mrwhosetheboss ✓
17,7 mn prenumeranter

Prenumerera

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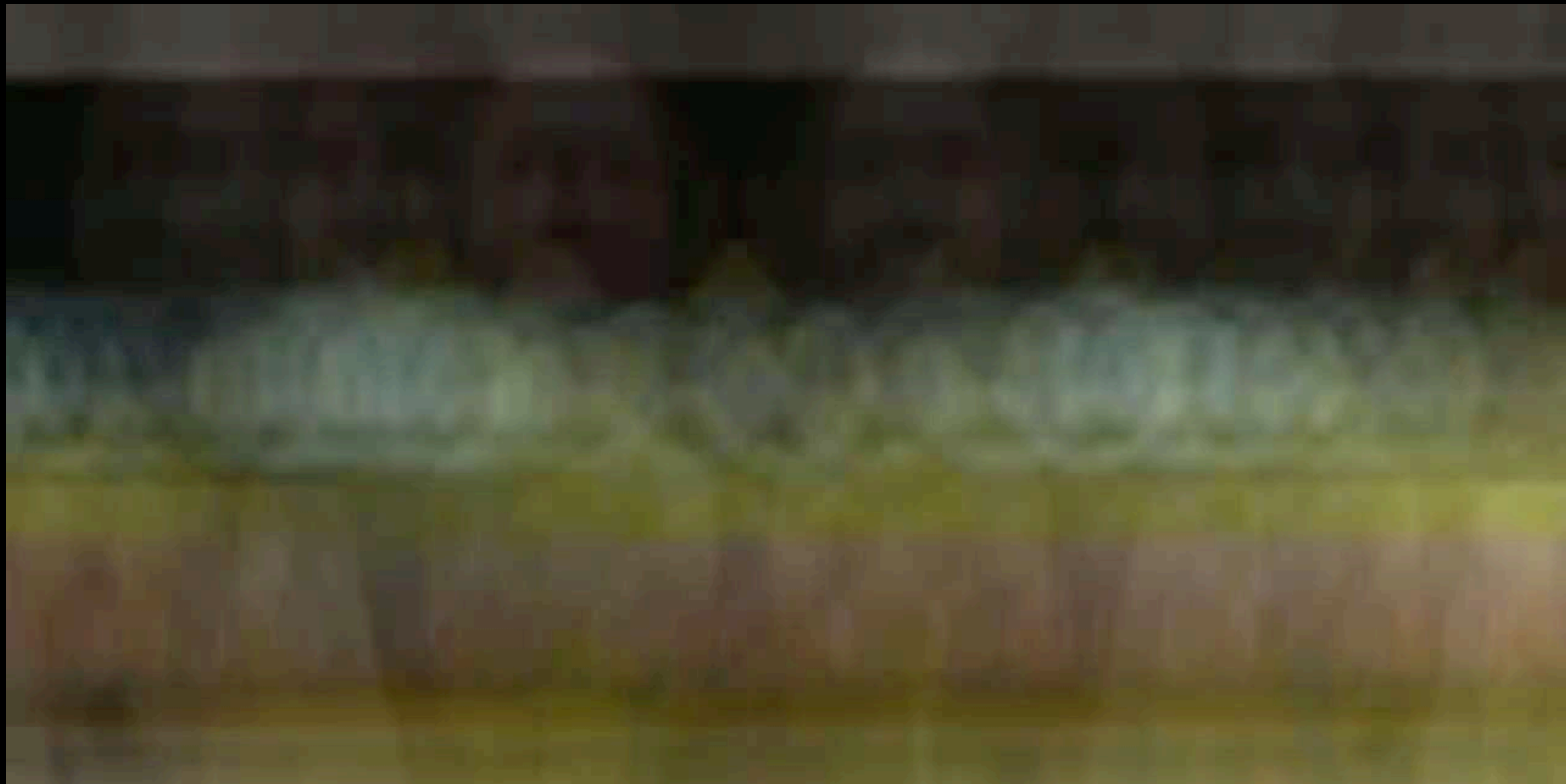


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✂ Klipp







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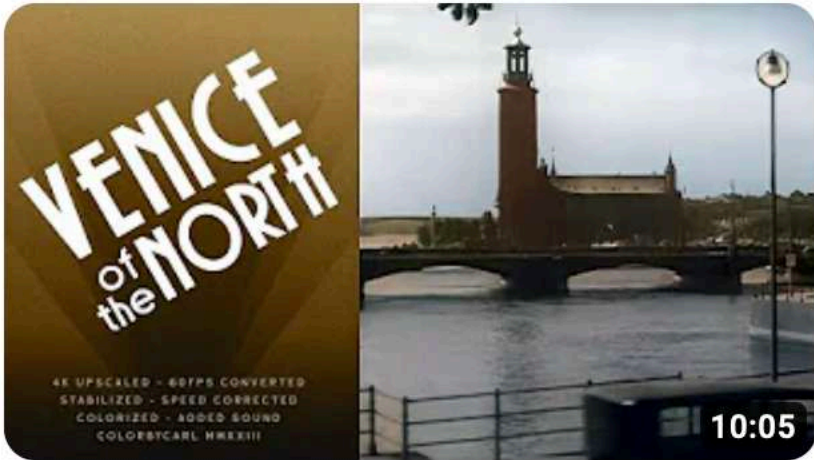
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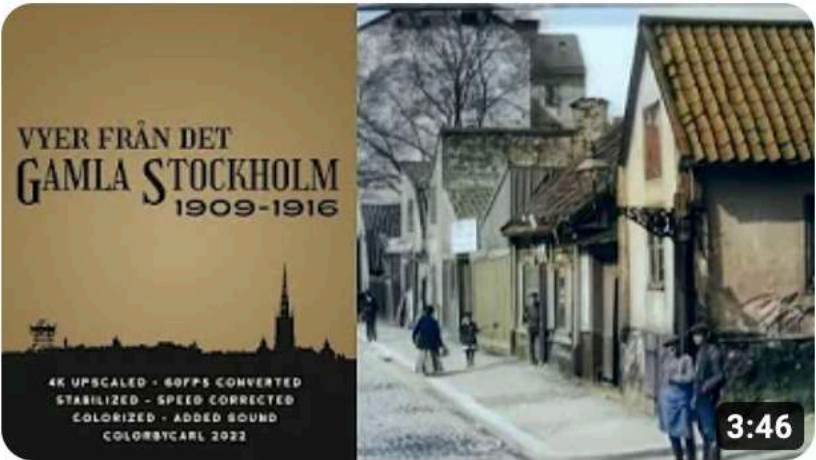
Venice of the North (1936) - Remastered 4K 60fps

1.2K views • 2 weeks ago



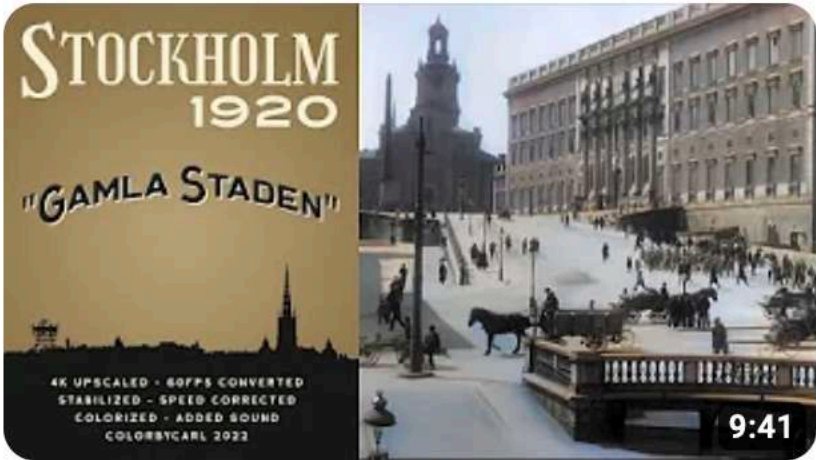
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1.2K views • 1 month ago



Vyer från det Gamla Stockholm (1909-1916) - Remastered 4K 60fps

12K views • 7 months ago



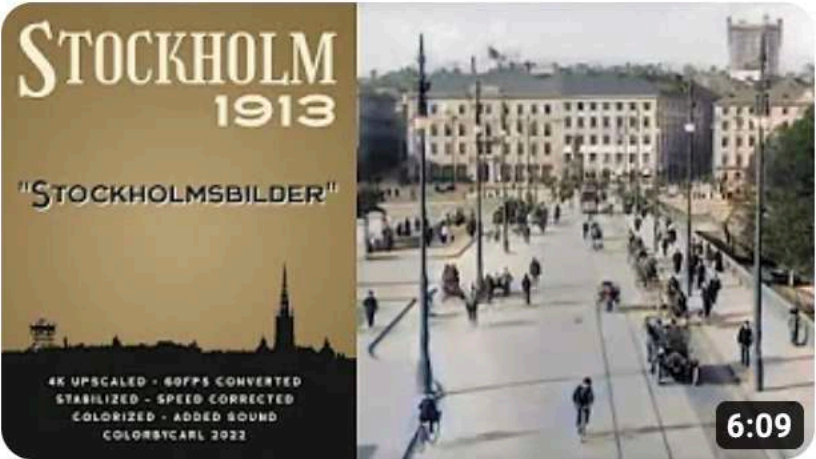
Stockholm 1920: Gamla Staden - Remastered 4K 60fps

113K views • 8 months ago



Sundsvall 1911 - Remastered 4K 60fps

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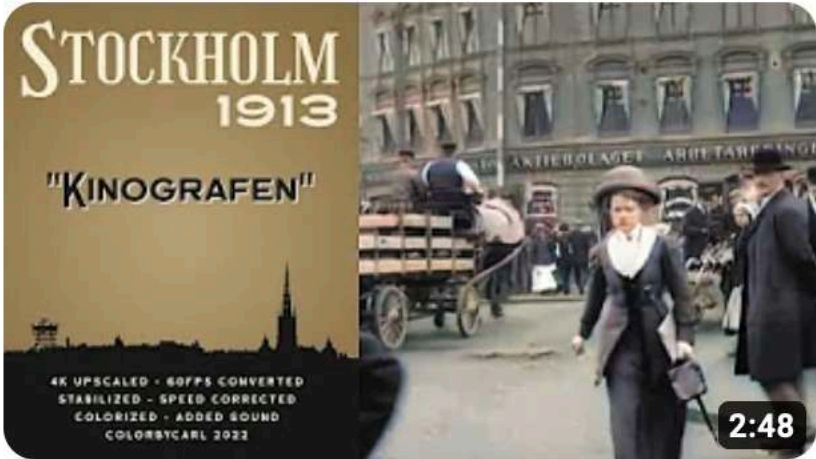
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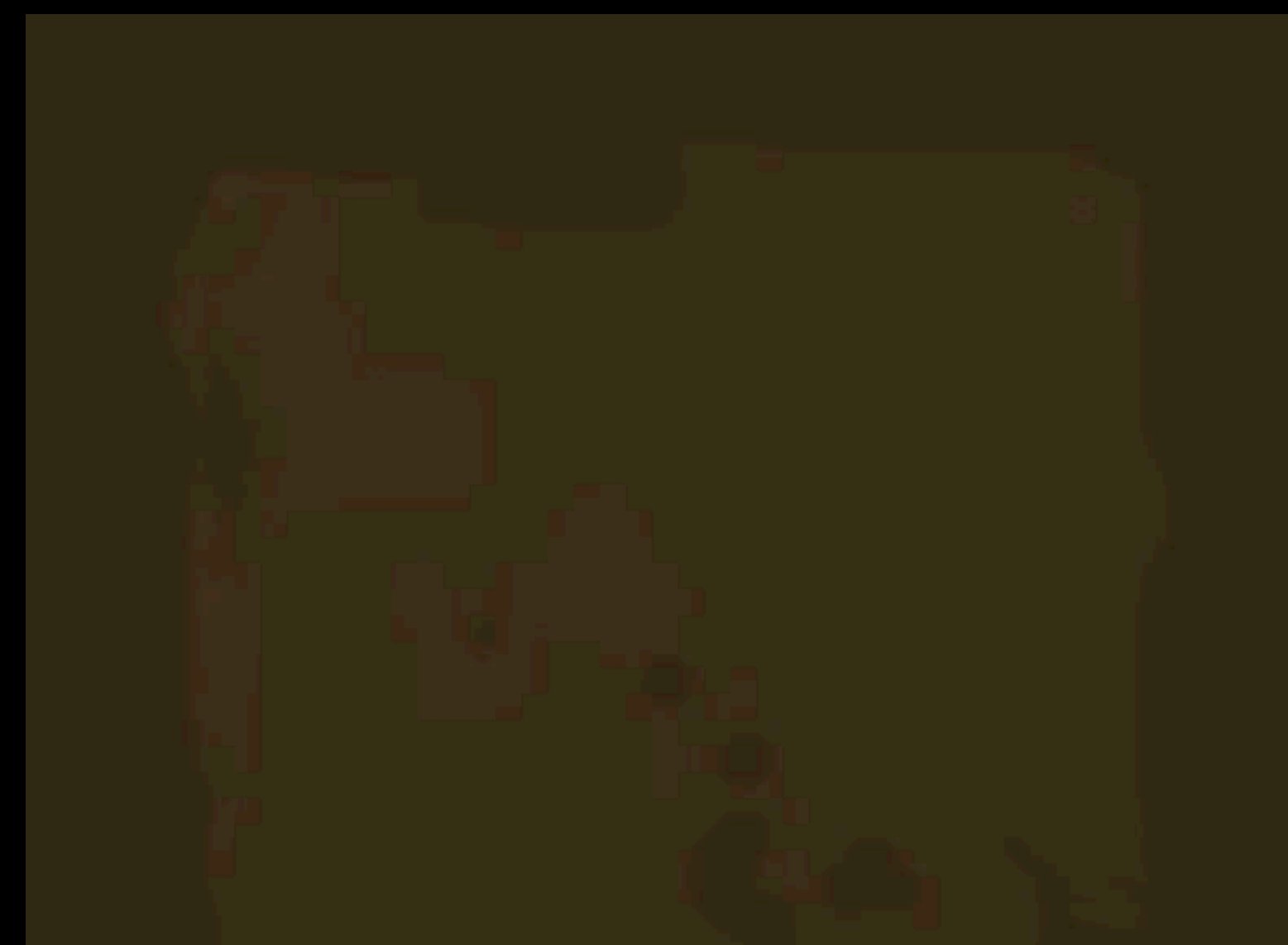
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SUNDSVALL 1911

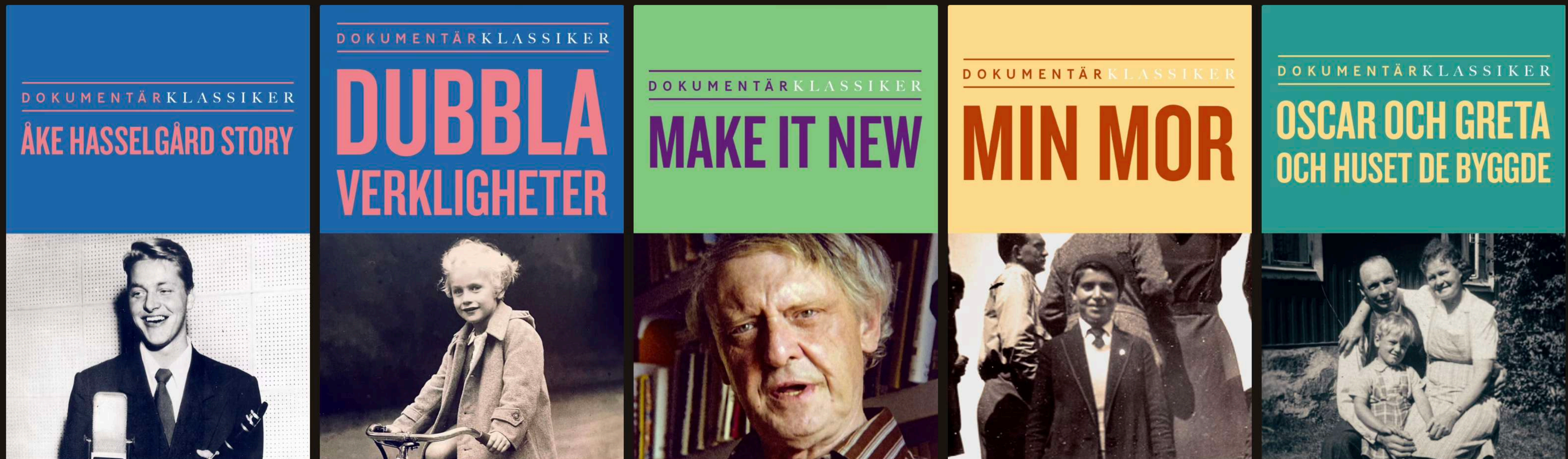
Svenska Biografteatern SF2074-2

4K UPSCALED - 60FPS CONVERTED - STABILIZED
SPEED CORRECTED - COLORIZED - ADDED SOUND
COLORBYCARL 2022



... autentiskt äkta filmmaterial?

DOKUMENTÄRKLASSIKER UR SVT:S ARKIV →





**NORDISKA
MUSEET**

Stable Diffusion Online

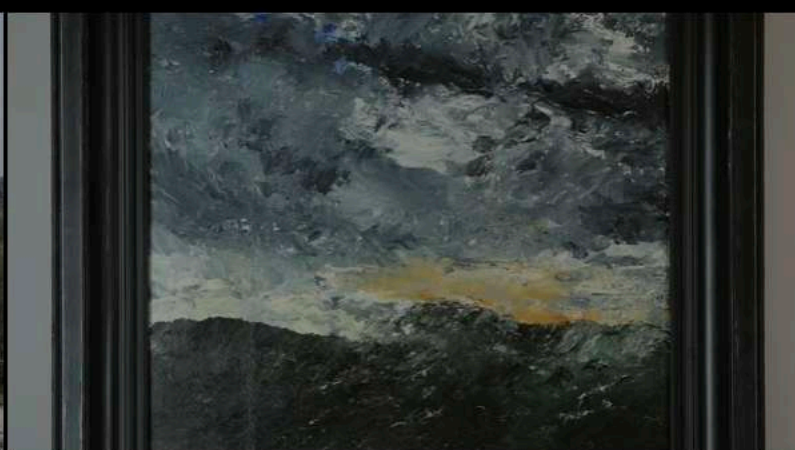
Stable Diffusion XL is a latent text-to-image diffusion model capable of generating photo-realistic images given any text input, cultivates autonomous freedom to produce incredible imagery, empowers billions of people to create stunning art within seconds.

Create beautiful images with our AI Image Generator (Text to Image) for free.

Let Your Creativity Flow. Create Unique AI Generated Images in 1-Click.

Free AI Image Generator

▶ AI Art Generator **PRO**



Have I Been Trained?



Search for images, books, magazines, and more...



Search for your work in popular AI training datasets

Block AI scrapers who don't respect opt-outs! [Learn more here](#) to join the Kudurru beta network.

AI organizations, use our [API](#) to respect opt-outs in your models



These images were the closest matches from the LAION-5B training data.

[SIGN IN](#) to opt out of AI Art systems with Spawning.



Foto: Landin, Mats

Nordiska museet



Foto: Lönnerth, Erik

Nordiska museet



Foto: Kristofferson, Per

Nordiska museet



Hossa 130 x 190 cm.

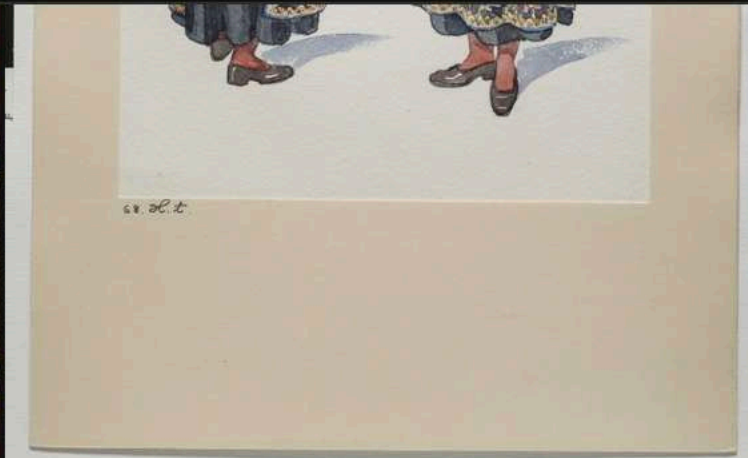
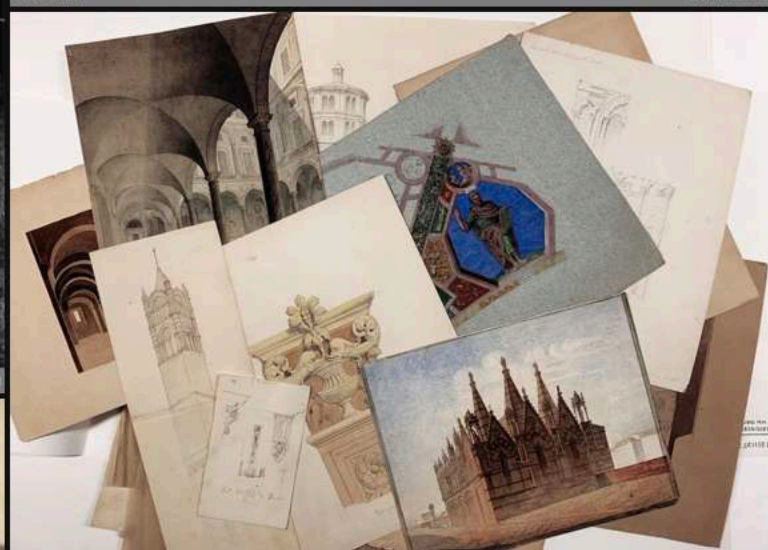


Foto: Landin, Mats

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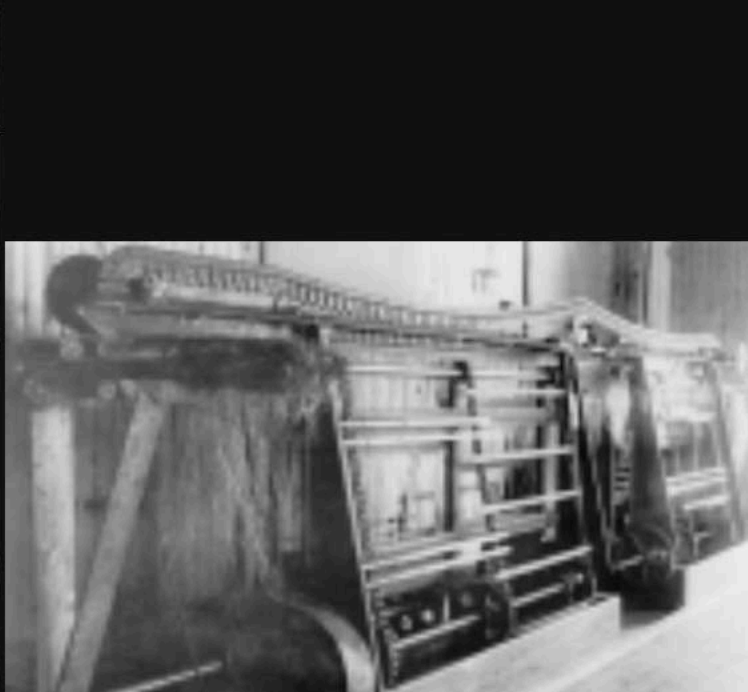


Foto: Landin, Mats

Nordiska museet



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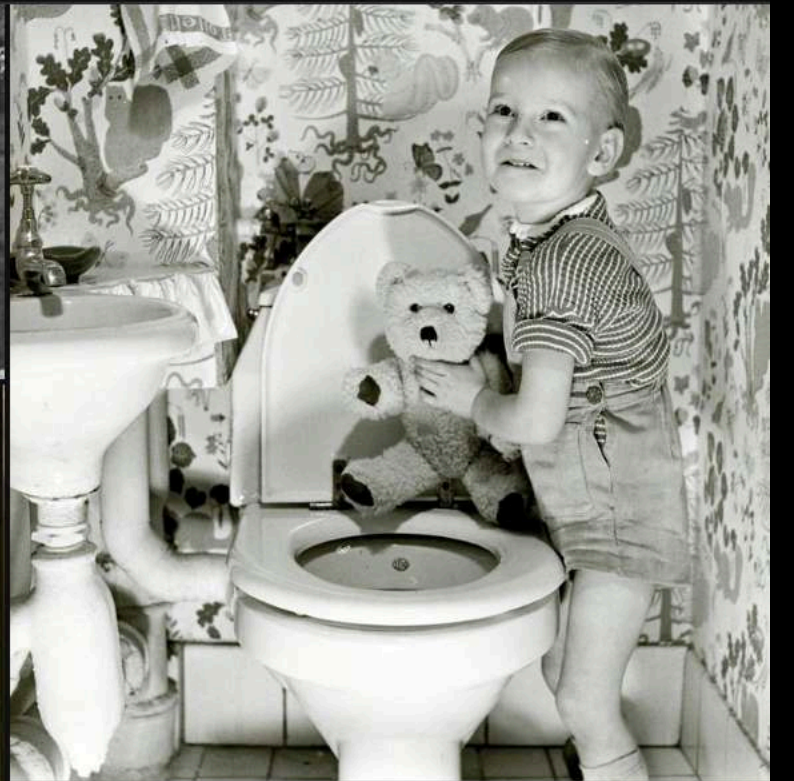


Foto: Glaser, Gösta

Nordiska museet



Hossa 130 x 190 cm.

Vad är idag autentiskt kulturarv?





Scoutläger i Tullgarn





Fotograf: Kalmar läns museum  PUBLIC DOMAIN

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Kommunens inhysestuga, bebodd av Augusta Holmström. Inre västgaveln.





Foto: Walfrid Carlsson

Örebro Stadsarkiv

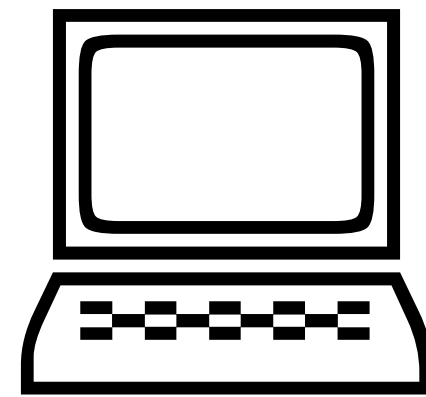
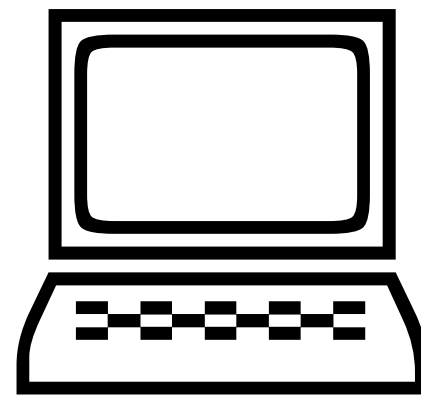
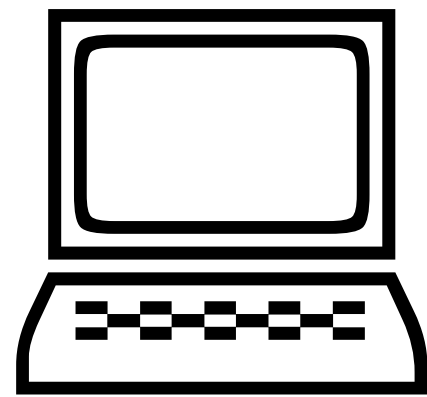
Fotograf: Walfrid Carlsson / Örebro Stadsarkiv



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Kolorerad ateljébild, 1930-tal

Anmärkning: Firma Fotografi Örebro





You

What is synthetic media?



ChatGPT

Synthetic media refers to media content, such as images, videos, or audio, that is generated or manipulated using artificial intelligence (AI) techniques. This technology enables the creation of realistic-looking content that may not necessarily be based on actual events or real people. Synthetic media can be produced using various AI methods, including deep learning, neural networks, and other machine learning techniques.

Some common forms of synthetic media include deepfake videos, which involve replacing a person's face in a video with someone else's, or generating entirely new content by mimicking a specific style. Other examples include AI-generated art, voice synthesis, and text generation. Synthetic media has both positive and negative implications, as it can be used for creative purposes, entertainment, and innovative applications, but it also raises concerns about misinformation, privacy, and ethical considerations. As technology continues to advance, the impact and prevalence of synthetic media are likely to increase.





You

has synthetic media both positive and negative implications?



ChatGPT

Yes, synthetic media has both positive and negative implications:

Positive Implications:

1. **Creative Expression:** Synthetic media allows for new forms of creative expression. Artists, filmmakers, and content creators can leverage AI tools to generate innovative and unique content.
2. **Entertainment:** It can enhance entertainment experiences by creating realistic special effects, virtual characters, and immersive virtual worlds in movies, video games, and other media.
3. **Personalized Content:** AI can be used to personalize content based on individual preferences, creating tailored experiences for users in areas like advertising, recommendations, and interactive storytelling.
4. **Automation:** Synthetic media can be applied to automate certain tasks in content creation, making it more efficient and cost-effective.

How Generative AI Can Augment Human Creativity

Use it to promote divergent thinking. by Tojin T. Eapen, Daniel J. Finkenstadt, Josh Folk, and Lokesh Venkataswamy

From the Magazine (July–August 2023)



Generative AI tools can solve an important challenge faced in idea contests: combining or merging a large number of ideas to produce much stronger ones.

Our research and our experience working with companies, academic institutions, governments, and militaries on hundreds of innovation efforts—some with and some without the use of generative AI—have demonstrated that this technology can help organizations overcome these challenges. It can augment the creativity of employees and customers and help them generate and identify novel ideas—and improve the quality of raw ideas. We have observed the following five ways.

Your creative vision, elevated and realized by AI

 Start Creating Now 

A female X

Adult X

Hispanic X

Relaxed and smiling, standing in front of a red background on a city street.







You

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ChatGPT

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4. **Automation:** Synthetic media can be applied to automate certain tasks in content creation, making it more efficient and cost-effective.

Negative Implications:

1. **Misinformation and Deepfakes:** One of the most significant concerns is the potential for malicious use, such as the creation of deepfake videos that convincingly manipulate content to spread false information, manipulate public opinion, or even defame individuals.
2. **Privacy Concerns:** There are concerns about the unauthorized use of personal data and images to create synthetic content without the individual's consent, potentially leading to privacy violations.
3. **Manipulation and Trust Issues:** The ability to generate realistic-looking content raises questions about the authenticity of media. It becomes challenging to discern between real and synthetic content, leading to trust issues in society.
4. **Ethical Considerations:** The creation and use of synthetic media also raise ethical questions related to consent, digital rights, and the potential misuse of technology for harmful purposes.

The New York Times Company *v.* Microsoft Corporation (1:23-cv-11195)

District Court, S.D. New York

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Last Updated: Jan. 13, 2024, 5:02 a.m.

Assigned To: [Sidney H. Stein](#)

Citation: The New York Times Company v. Microsoft Corporation, 1:23-cv-11195, (S.D.N.Y.)

Date Filed: Dec. 27, 2023

Date of Last Known Filing: Jan. 11, 2024

Cause: [17:501 Copyright Infringement](#)

Nature of Suit: [820 Copyright](#)

Jury Demand: [Plaintiff](#)

Jurisdiction Type: Federal Question

We Asked A.I. to Create the Joker. It Generated a Copyrighted Image.

By [Stuart A. Thompson](#) Jan. 25, 2024



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234

When Reid Southen, a movie concept artist based in Michigan, tried an A.I. image generator for the first time, he was intrigued by its power to transform simple text prompts into images.

But after he learned how A.I. systems were [trained on other people's artwork](#), his curiosity gave way to more unsettling thoughts: Were the tools exploiting artists and violating copyright in the process?

Inspired by tests he saw circulating online, he asked Midjourney, an A.I. image generator, to create an image of Joaquin Phoenix from “The Joker.” In seconds, the system made an image nearly identical to a frame from the 2019 film.



Reid Southen

Create an image of Joaquin Phoenix Joker movie, 2019, screenshot from a movie, movie scene ■



Midjourney's response

GENERATED BY A.I.



Copyrighted image from Warner Bros.



We Asked A.I. to Create the Joker. It Generated a Copyrighted Image.

By [Stuart A. Thompson](#) Jan. 25, 2024



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The test raise questions about the training data used to create every A.I. system and whether the companies are violating copyright laws.

When Reid Southen, a professional comedian based in Michigan, tried an A.I. image generator for the first time, he was intrigued by its power to transform simple text prompts into images. But after he learned how A.I. systems were trained on other people's artwork, his curiosity gave way to more unsettling thoughts: Were the tools exploiting artists and violating copyright in the process?

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Reid Southen

Create an image of Joaquin Phoenix Joker movie, 2019, screenshot from a movie, movie scene



Midjourney's response

GENERATED BY A.I.

Copyrighted image from Warner Bros



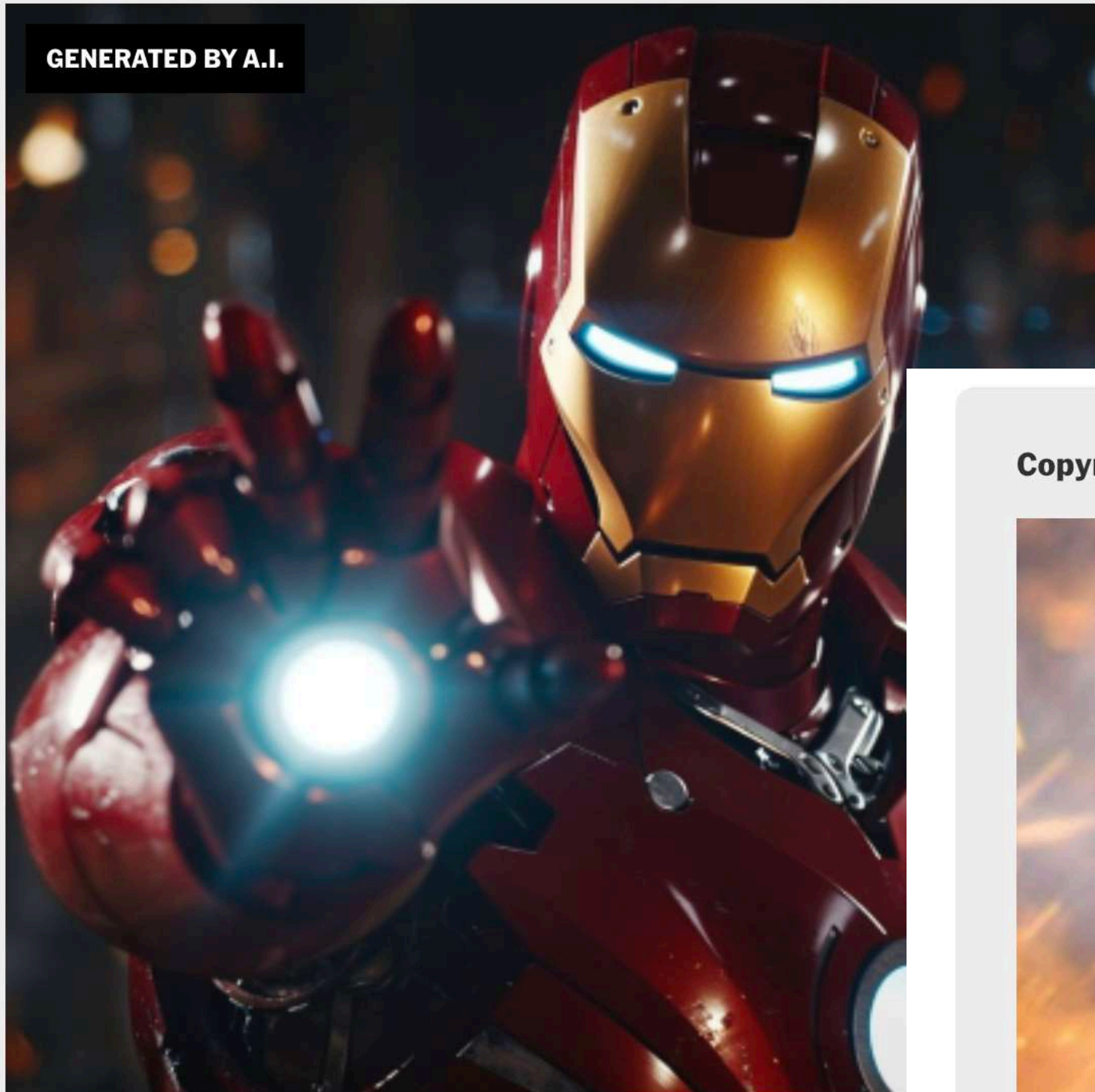
Mr. Southen

popular movie screencap



Midjourney's response

GENERATED BY A.I.



Copyrighted image from Marvel



Mr. Southen

Create an image of Dune movie screencap, 2021, Dune movie trailer



Midjourney's response

GENERATED BY A.I.



Copyrighted image from Warner Bros.



AI-generated 'synthetic media' is starting to permeate the internet

The question some AI researchers say they are grappling with is whether AI-generated content is enhancing internet creativity or squandering it.



Adobe Is Selling AI-Generated Images of Violence in Gaza and Israel

User-submitted AI photos for sale by Adobe depict fake explosions and bombed-out streets in both Gaza and Israel.



By [Matthew Gault](#)

November 7, 2023, 7:45pm



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Snap



Destroyed buildings as a result of a rocket fired by militants from the Gaza Strip

By [Anna](#)

Generated with AI

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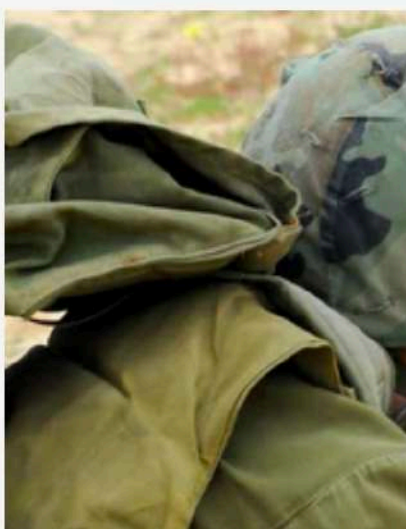
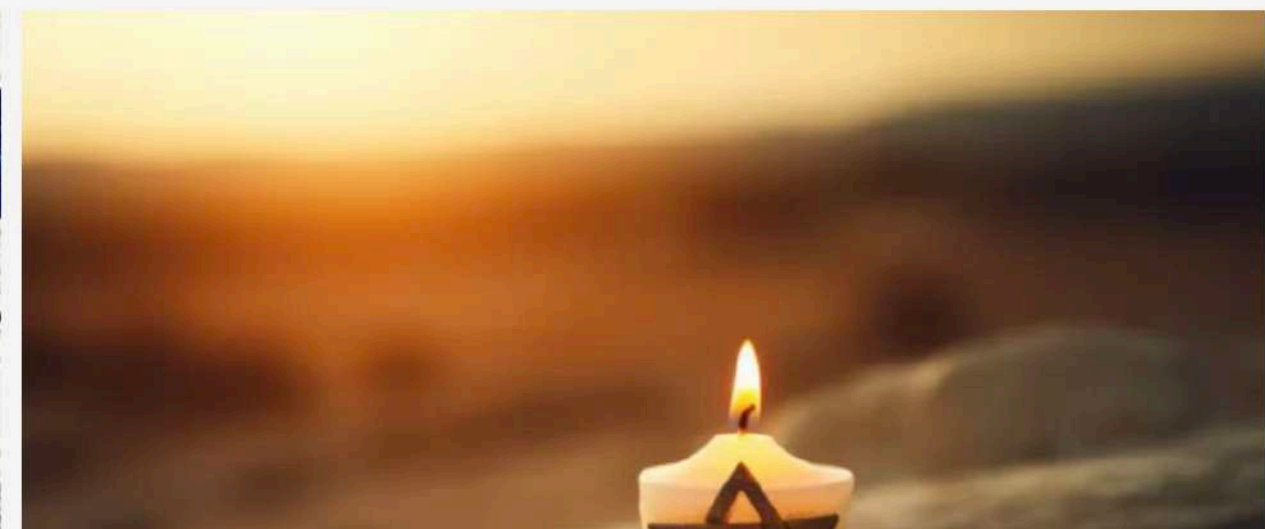
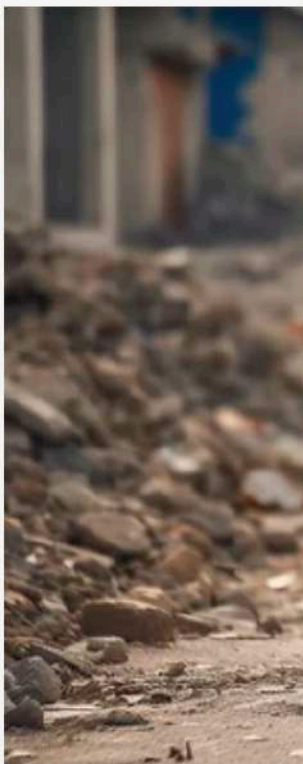
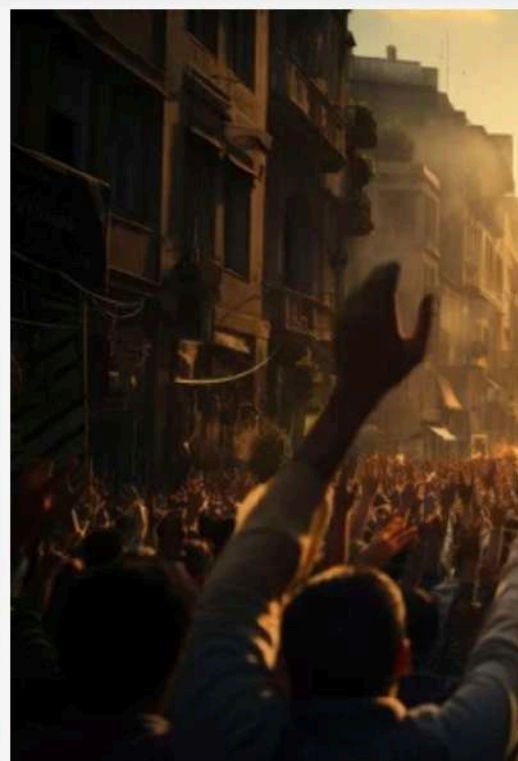
Adobe is selling [AI-generated images](#) showing fake scenes depicting bombardment of cities in both Gaza and Israel. Some are photorealistic,

St Adobe Stock

All



israel gaza



civilians in the weeks since an attack by Hamas killed 1,400 Israelis. One AI-generated image is titled “Destroyed buildings as a result of a rocket fired by militants from the Gaza Strip” and shows devastated streets; another is called “Destroyed buildings in Gaza town of Gaza strip in Israel, Affected by war.” Other AI-generated images for sale on Adobe Stock show fake explosions inside Israel.



Destroyed buildings in Gaza town of Gaza strip in Israel, Affected by war.

By [visoot](#)

Generated with AI

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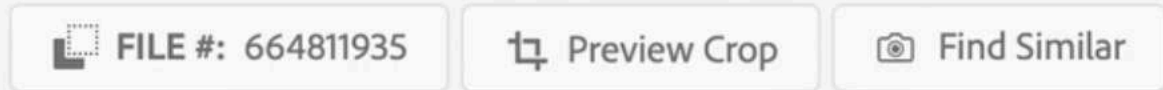
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Everyone: AI art will make designers obsolete

AI accepting the job:



8:20 PM · Jan 22, 2023



115.5K



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Diskutera 2 & 2



Vilka risker finns det med att syntetiska medier inte längre är autentiska? Hur förhåller man sig källkritisk till sådana medier?

why are black women so



why are black women so **angry**
why are black women so **loud**
why are black women so **mean**
why are black women so **attractive**
why are black women so **lazy**
why are black women so **annoying**
why are black women so **confident**
why are black women so **sassy**
why are black women so **insecure**

ALGORITHMS OF OPPRESSION

HOW SEARCH ENGINES
REINFORCE RACISM

SAFIYA UMOJA NOBLE

why are black women so



why are black women so **angry**
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ALGORITHMS OF OPPRESSION

HOW SEARCH ENGINES
REINFORCE RACISM

SAFIYA UMOJA NOBLE



SDXL TURBO Beta

Real-Time Text-to-Image Generation



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why are black women so **insecure**

ALGORITHMS OF OPPRESSION

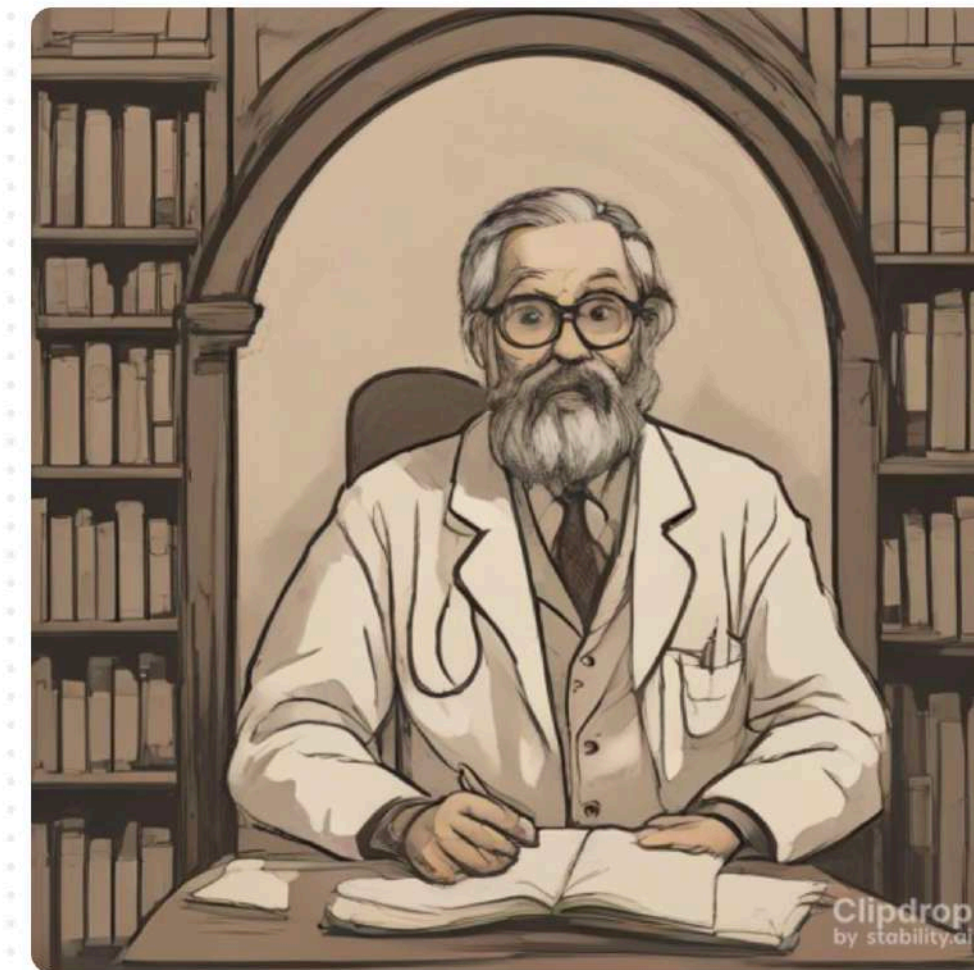
HOW SEARCH ENGINES
REINFORCE RACISM

SAFIYA UMOJA NOBLE



SDXL TURBO Beta

Real-Time Text-to-Image Generation



professor



why are black women so



why are black women so angry

why are black women so loud

why are black women so mean

why are black women so attractive

why are black women so lazy

why are black women so annoying

why are black women so confident

why are black women so sassy

why are black women so insecure

ALGORITHMS OF OPPRESSION

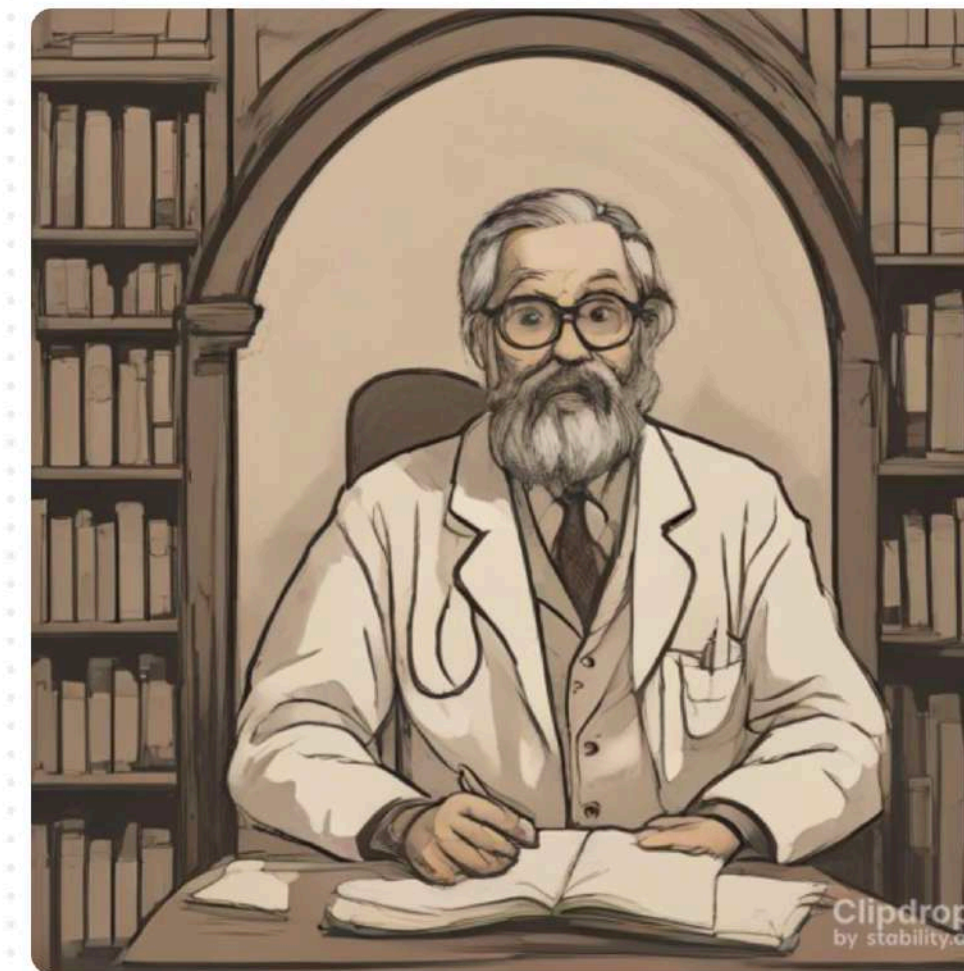
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professor



nurse



HUMANS ARE BIASED. GENERATIVE AI IS EVEN WORSE

Stable Diffusion's text-to-image model amplifies stereotypes about race and gender – here's why that matters

By [Leonardo Nicoletti](#) and [Dina Bass](#) for **Bloomberg Technology** + **Equality**



<https://www.bloomberg.com/graphics/2023-generative-ai-bias/>

Who's responsible?

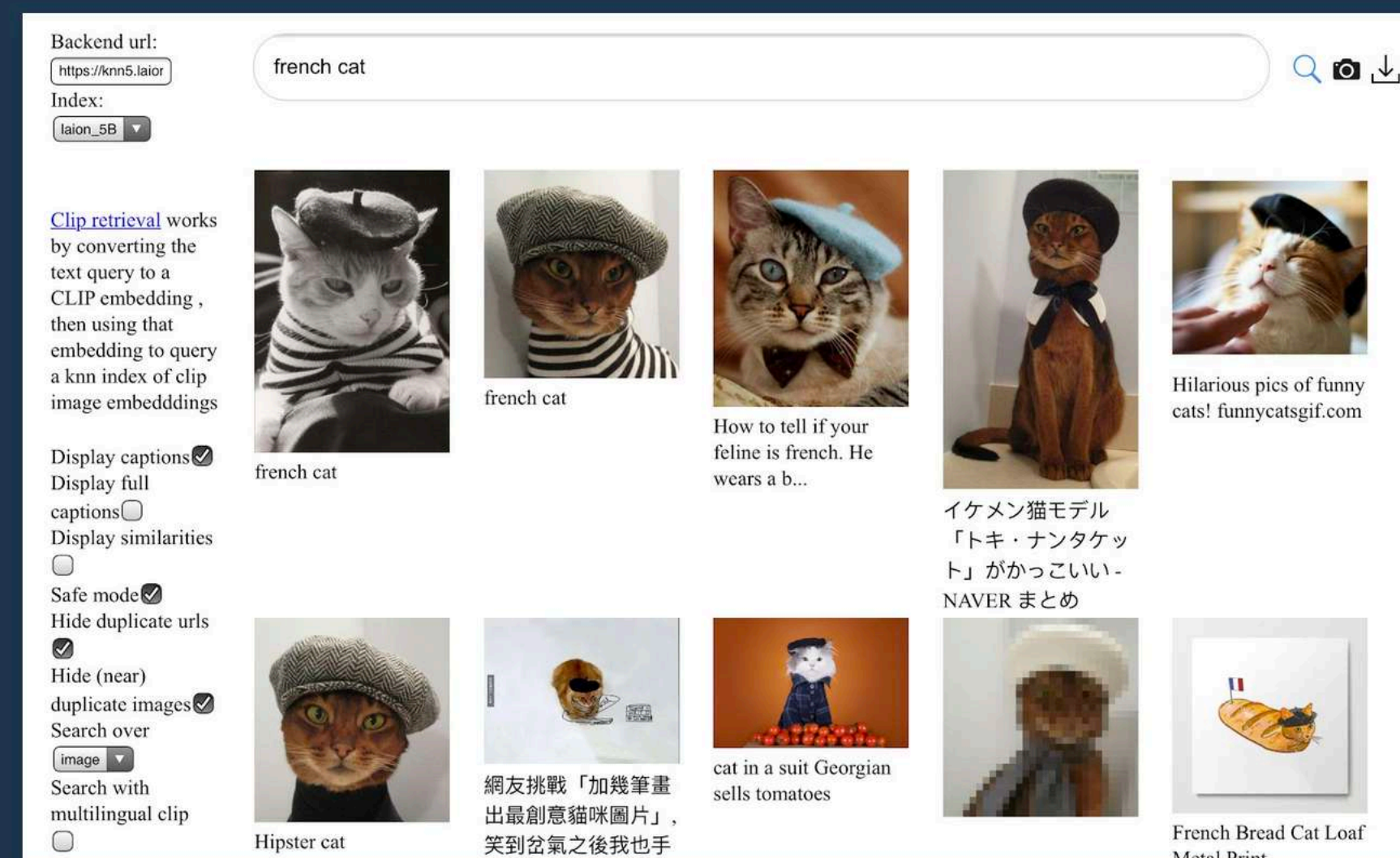
Stable Diffusion gets its raw data from LAION-5B, the world's largest openly accessible image-text dataset, with more than 5 billion images and captions found on the internet. Links to the images were collected programmatically from countless websites, without human curation. The dataset includes scores of problematic and offensive imagery from across the web, including depictions of violence, hate symbols, pornography and more. Stability AI says it filtered out pornographic content before using LAION'S data.

LAION-5B: A NEW ERA OF OPEN LARGE-SCALE MULTI-MODAL DATASETS

by: Romain Beaumont, 31 Mar, 2022

We present a dataset of 5,85 billion CLIP-filtered image-text pairs, 14x bigger than LAION-400M, previously the biggest openly accessible image-text dataset in the world - see also our [NeurIPS2022 paper](#)

Authors: Christoph Schuhmann, Richard Vencu, Romain Beaumont, Theo Coombes, Cade Gordon, Aarush Katta, Robert Kaczmarczyk, Jenia Jitsev



🔗Disclaimer on dataset purpose and content warning

The motivation behind dataset creation is to democratize research and experimentation around large-scale multi-modal model training and handling of uncurated, large-scale datasets crawled from publically available internet. Our recommendation is therefore to use the dataset for research purposes. Be aware that this large-scale dataset is uncurated. Keep in mind that the uncurated nature of the dataset means that collected links may lead to strongly discomfoting and disturbing content for a human viewer. Therefore, please use the demo links with caution and at your own risk. It is possible to extract a "safe" subset by filtering out samples based on the safety tags (using a customized trained NSFW classifier that we built). While this strongly reduces the chance for encountering potentially harmful content when viewing, we cannot entirely exclude the possibility for harmful content being still present in safe mode, so that the warning holds also there. We think that providing the dataset openly to broad research and other interested communities will allow for transparent investigation of benefits that come along with training large-scale models as well as pitfalls and dangers that may stay unreported or unnoticed when working with closed large datasets that remain restricted to a small community. Providing our dataset openly, we however **do not recommend using it for creating ready-to-go industrial products, as the basic research about general properties and safety of such large-scale models, which we would like to encourage with this release, is still in progress.**

ADVENTURES IN IMAGE SYNTHESIS —

Meta's new AI image generator was trained on 1.1 billion Instagram and Facebook photos

"Imagine with Meta AI" turns prompts into images, trained using public Facebook data.

BENJ EDWARDS - 12/6/2023, 10:52 PM



Meta | Benj Edwards

[Enlarge](#) / Three images generated by "Imagine with Meta AI" using the Emu AI model.

116

On Wednesday, Meta [released](#) a free standalone AI image-generator website, "[Imagine with Meta AI](#)," based on its Emu image-synthesis model. Meta used 1.1 billion publicly visible Facebook and Instagram images to [train the AI model](#), which can render a novel image from a written prompt. Previously, Meta's version of this technology—using the same data—was [only available](#) in messaging and social networking apps such as Instagram.

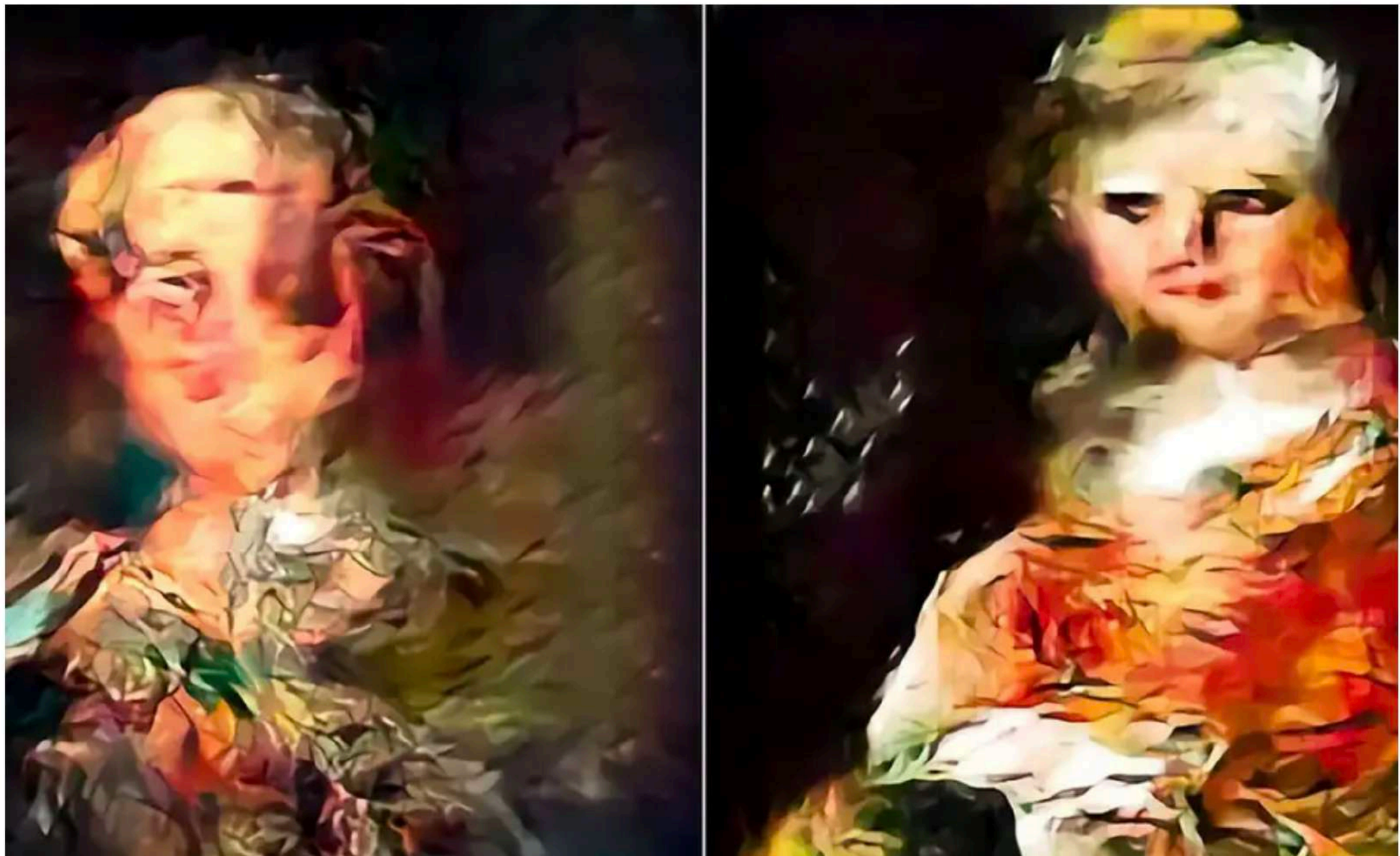
Technology

AIs trained on AI-generated images produce glitches and blurs

Using AI-generated images to train AI quickly creates a loop where the results get worse in either quality or visual diversity

By [Jeremy Hsu](#)

18 July 2023



AI Trained on AI Images Produces Terrible Results, Study Finds

AUG 11, 2023

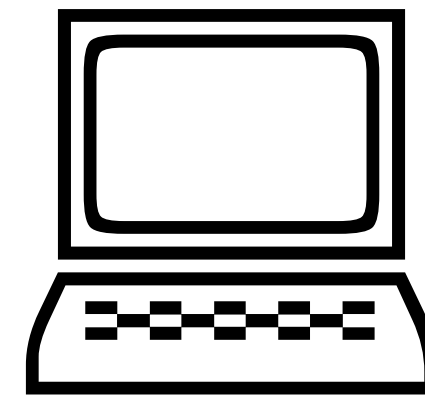
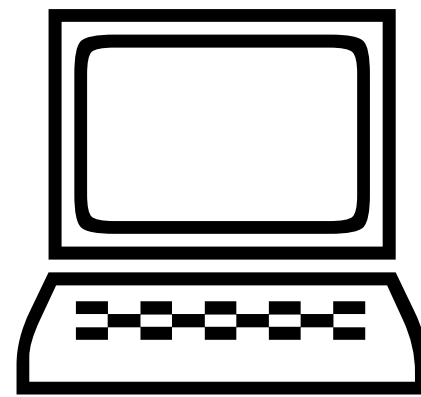
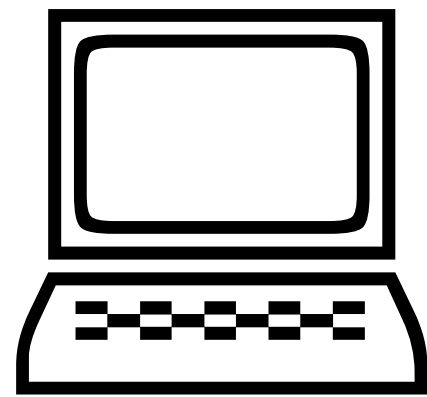
MATT GROWCOOT



AI images that were trained on AI images with visible artifacts.

A study has found that training AI image generators with AI images produces bad results.

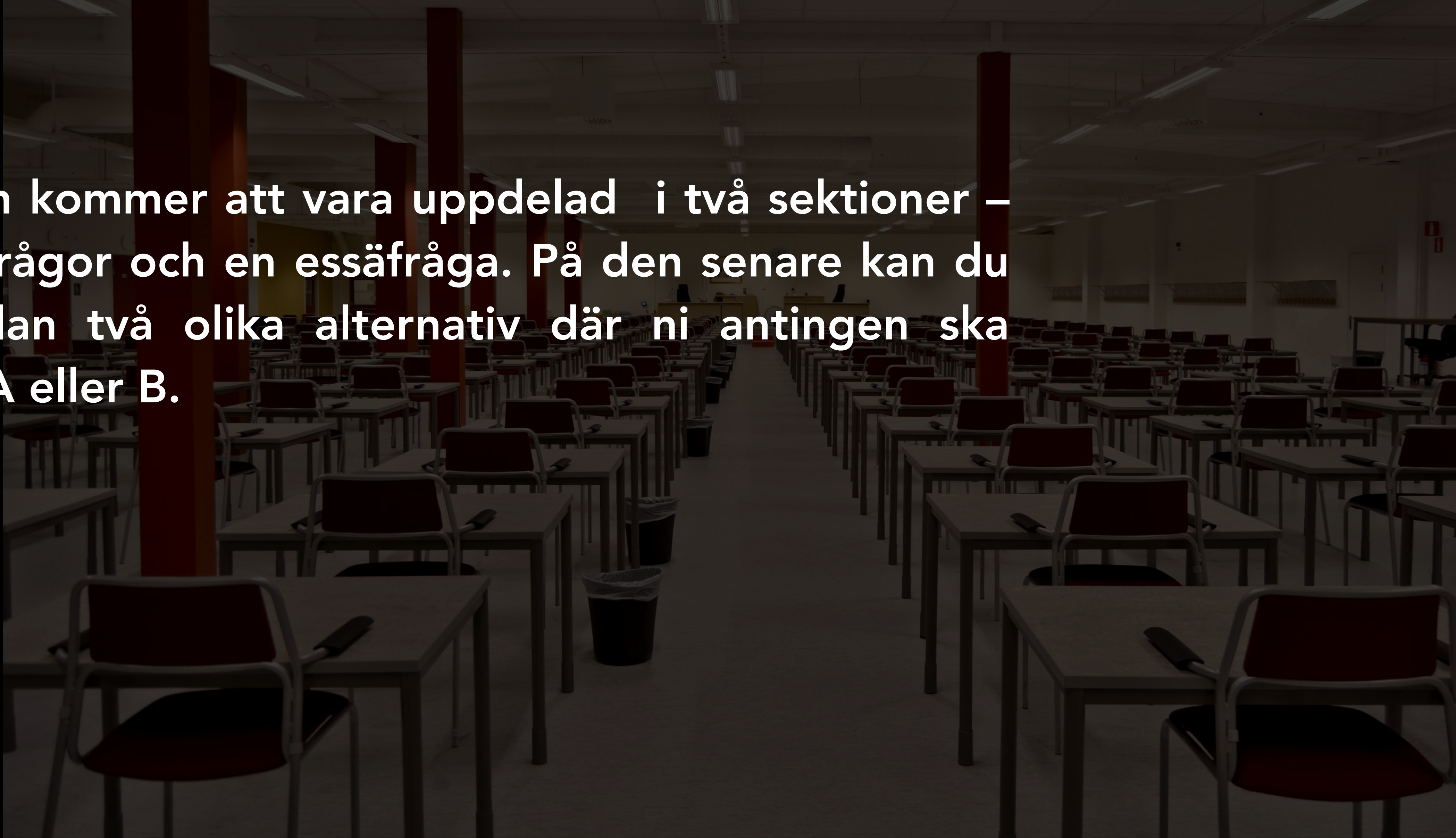
Researchers from Stanford University and Rice University discovered that generative artificial intelligence (AI) models need “fresh real data” or the quality of the output decreases.



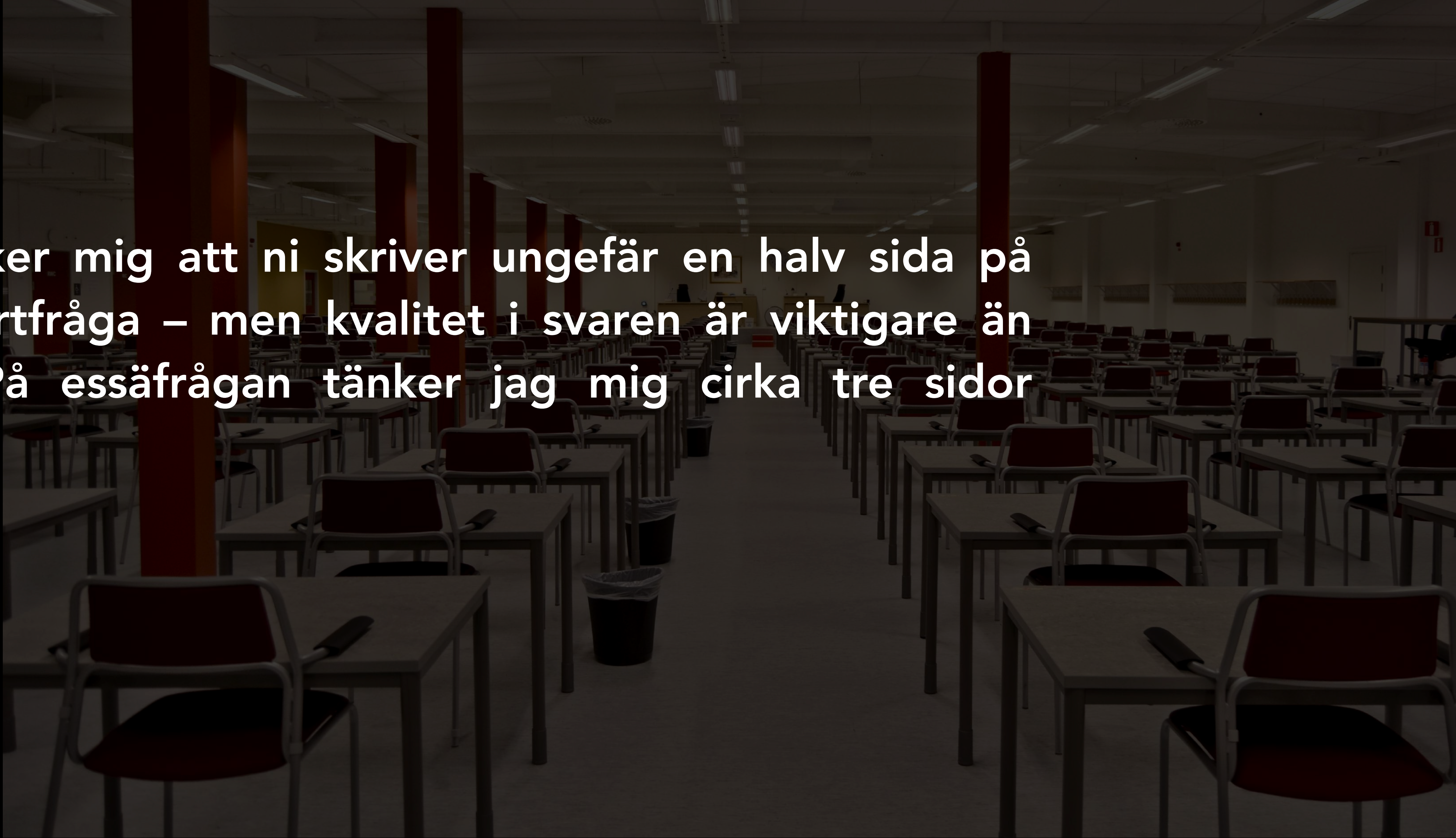


Examination DIKA21

Salstentan kommer att vara uppdelad i två sektioner – fem kortfrågor och en essäfråga. På den senare kan du välja mellan två olika alternativ där ni antingen ska svara på A eller B.



Jag tänker mig att ni skriver ungefär en halv sida på varje kortfråga – men kvalitet i svaren är viktigare än längd. På essäfrågan tänker jag mig cirka tre sidor ungefär.



Mina frågor kommer förstås att basera sig på kurslitteraturen – liksom om sådant som vi talat om på föreläsningar och seminarier.

Framför allt essäfrågan är tänkt som ett sätt för er att diskutera både kurslitteratur, föreläsningar och seminarier och analytiskt redogöra för innehållet.

På kortfrågorna kommer ni att max få tre poäng på vardera fråga. På essäfrågan max tio poäng.

Totalt alltså tjugofem poäng – för väl godkänt krävs arton poäng, för godkänt räcker tolv poäng.

– tack!

