

Bilder mit Hilfe von KI erstellen: Ein Blick auf Tools und ihre Möglichkeiten

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11.7.2023



[daily-dachshunds](https://twitter.com/daily-dachshunds) auf Twitter: „Dachshund Brutalism #midjourneyv52 #aiart #aiarchitecture <https://t.co/3gbtQVwhr1>“ / Twitter

Generative künstliche Intelligenz
in Studium und Lehre



Große Themenreihe
für Lehrende und
Studierende der RUB

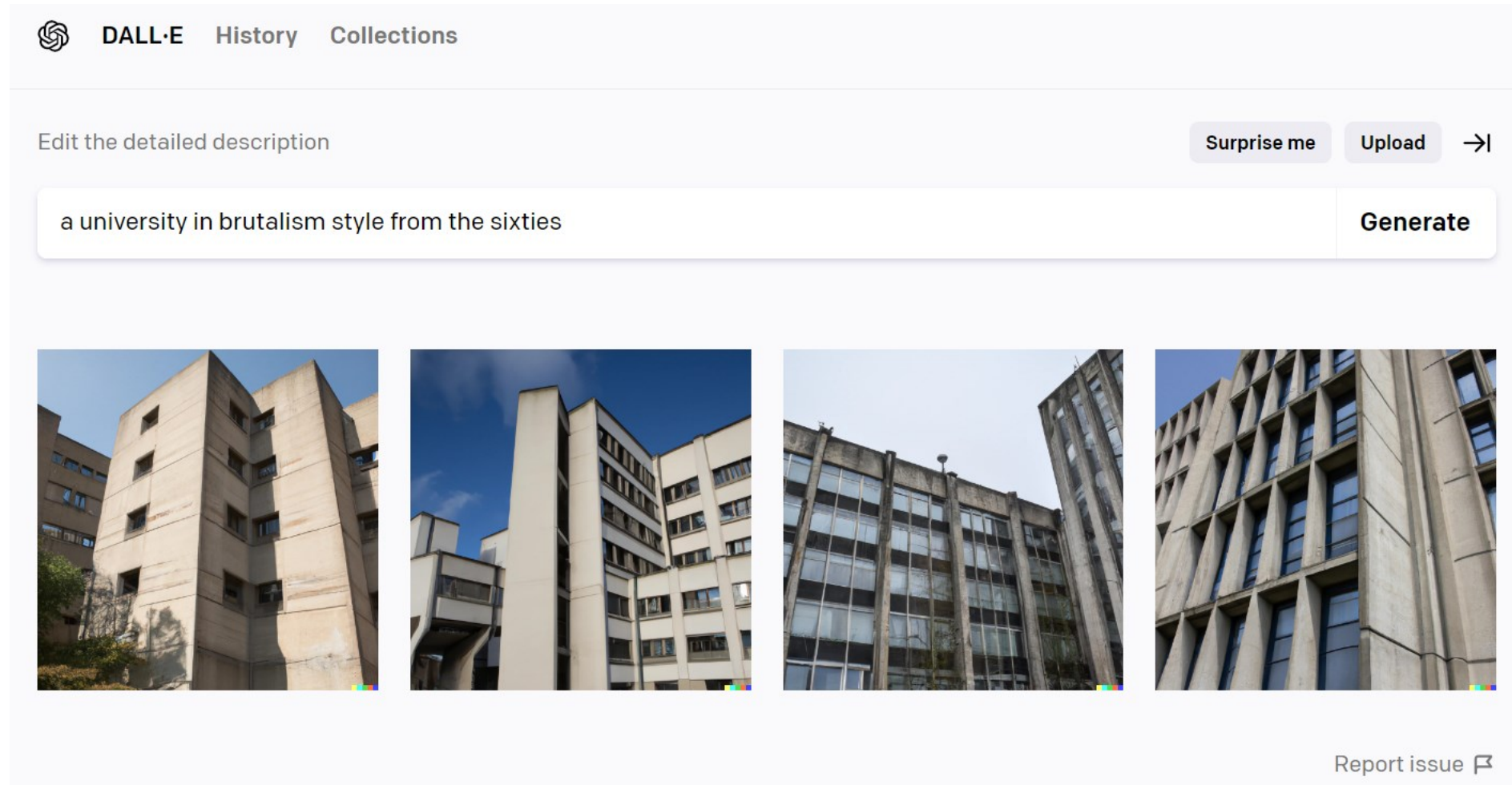


Agenda

- Technologie
- Tools
- KI-Kunst
- Bias
- Kennzeichnung

DALL-E2: <https://openai.com/dall-e-2>

- Textgenerator von OpenAI
- Nutzungsbedingungen
- frei + kostenpflichtig



The screenshot displays the DALL-E2 web interface. At the top, there is a navigation bar with the OpenAI logo, "DALL-E", "History", and "Collections". Below this, there is a section for editing the prompt, with a button for "Edit the detailed description". To the right of the prompt area are buttons for "Surprise me", "Upload", and a right arrow. The prompt itself is "a university in brutalism style from the sixties". A "Generate" button is located to the right of the prompt. Below the prompt, four generated images are shown, each depicting a different view of a brutalist university building with concrete facades and large windows. At the bottom right, there is a "Report issue" link with a flag icon.

DALL-E History Collections

Edit the detailed description

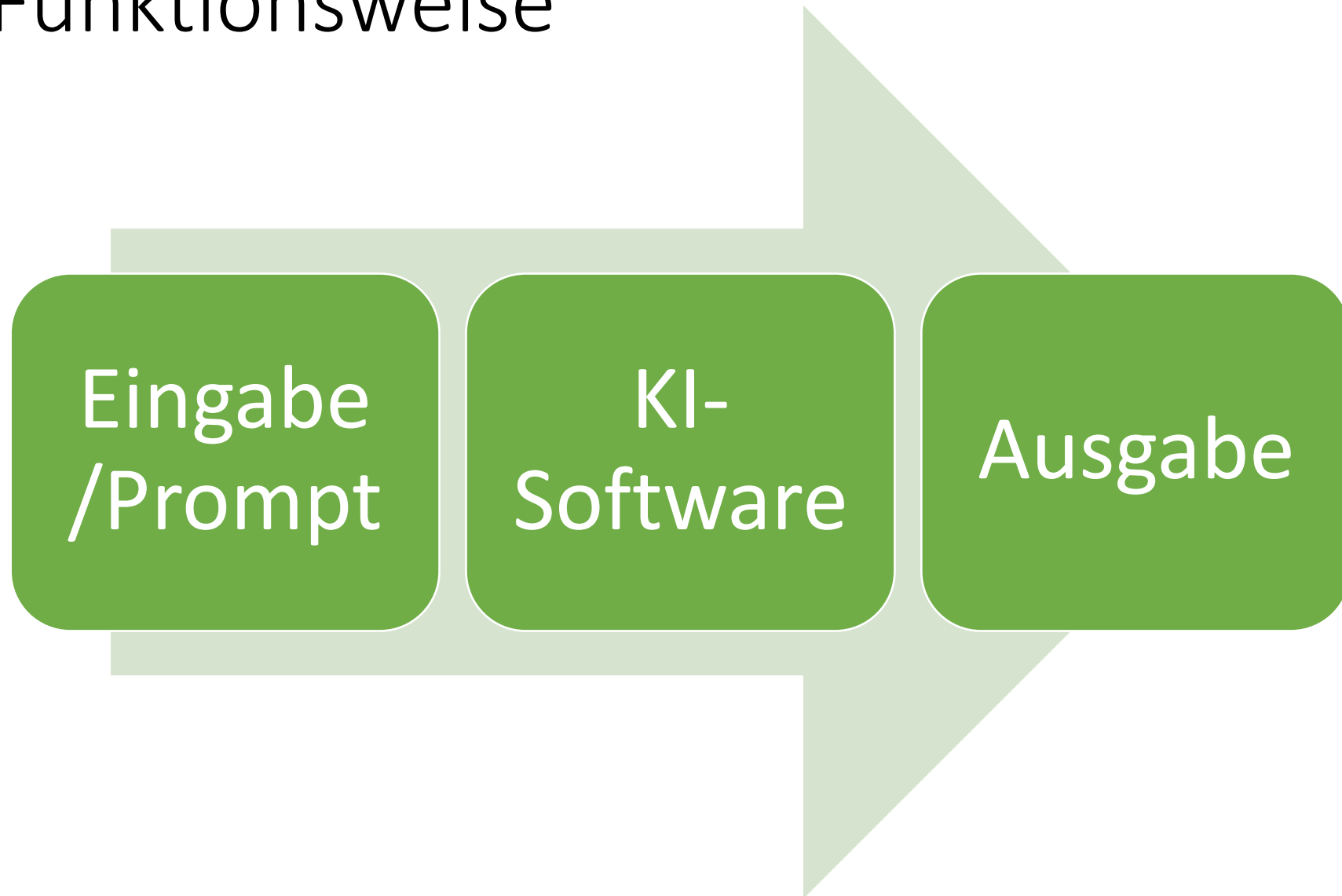
Surprise me Upload →

a university in brutalism style from the sixties

Generate

Report issue

Funktionsweise



KI-Technologie bei Bildgeneratoren



Helmut Linde,

<https://www.golem.de/news/kuenstliche-intelligenz-so-funktionieren-ki-bildgeneratoren-2305-174436-2.html>

Stable Diffusion:

<https://stablediffusionweb.com/>

- frei nutzbar
- entwickelt von der Machine Vision & Learning research group (CompVis) der LMU München:
<https://ommer-lab.com/research/latent-diffusion-models/>
- Dataset:
<https://laion.ai/blog/laion-5b/>
- Nutzungsbedingungen:
<https://stablediffusionweb.com/license>

Just enter your prompt and click the generate button.

No code required to generate your image!

Due to the large number of users, the server may experience problems. If you encounter an error, please try again.

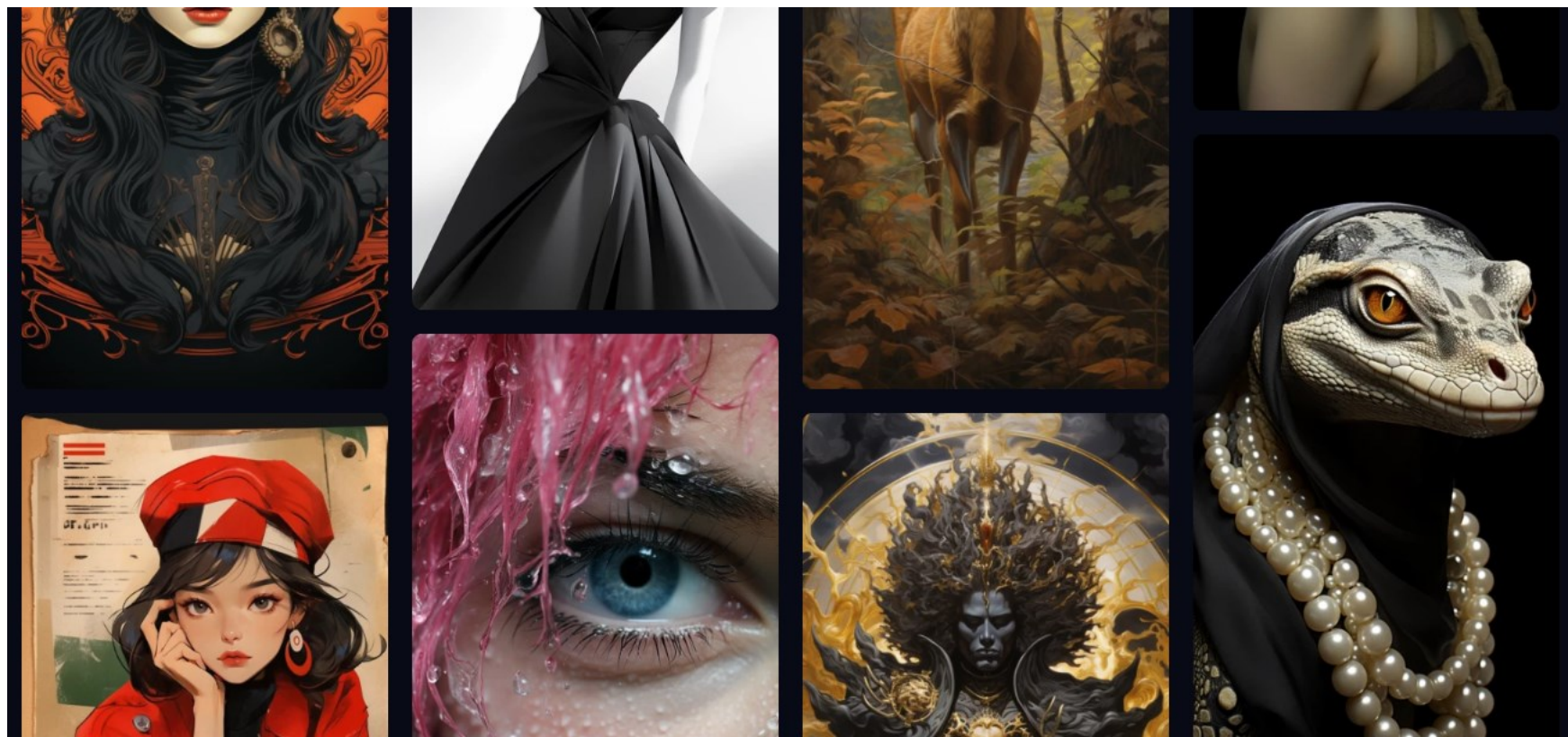
a university in brutalism style from the sixties

Generate image



Midjourney: <https://www.midjourney.com>

- Forschungsinstitut aus den USA
- Nutzungsbedingungen: <https://docs.midjourney.com/docs/terms-of-service>
- Dokumentation: <https://docs.midjourney.com/>
- kostenpflichtig



<https://www.midjourney.com/showcase/recent/>

AI-generiertes Kinderbuch

A Tech Worker Is Selling A Children's Book He Made Using AI. Professional Illustrators Are Pissed.

Ammaar Reshi told BuzzFeed News that he has received death threats and messages encouraging self-harm on social media.



Alice and Sparkle
Ammaar Reshi

Chris Stokel-Water,

<https://www.buzzfeednews.com/article/chrisstokelwalker/tech-worker-ai-childrens-book-angers-illustrators>



Pop Base 

@PopBase · [Follow](#)



AI-generated image of Pope Francis goes viral on social media.



<https://www.berliner-zeitung.de/news/ki-bild-schoepfer-pablo-xavier-erklaert-so-kam-es-zum-papst-franziskus-fakefoto-li.332514>

KI-Kunst

Interview

'AI isn't a threat' - Boris Eldagsen, whose fake photo duped the Sony judges, hits back

Zoe Williams

The German artist caused uproar this week when he revealed the shot that won a prestigious award wasn't what it seemed. But, he insists, AI isn't about sidelining humans - it's about liberating artists



Promptography

“The process has many steps, it's not putting in three words and clicking 'generate'...”

“Two thirds of the prompts are only good if you have knowledge and skills, when you know how photography works, when you know art history. This is something that a 20-year-old can't do.”

AMG: authentic, manipulated or generated



Titus Blome

@derLampenputzer



ich füttere beschreibungen von borges geschichten in midjourney und lasse sie im stil von jean "mœbius" giraud ausspucken und es ist ganz wunderbar



[Titus Blome auf Twitter: „ich füttere beschreibungen von borges geschichten in midjourney und lasse sie im stil von jean "mœbius" giraud ausspucken und es ist ganz wunderbar https://t.co/bAaBh1gU6B“ / Twitter](https://t.co/bAaBh1gU6B)

Lawsuits

Stable Diffusion litigation case updates get updates by email contact legal team

We've filed a lawsuit challenging Stable Diffusion, a 21st-century collage tool that violates the rights of artists.

Because AI needs to be fair & ethical for everyone.

- <https://stablediffusionlitigation.com/>
- <https://haveibeentrained.com/>

Glaze

The image shows a YouTube video player interface. At the top left is a circular profile picture of a woman. To its right is the video title "Introducing Glaze, a tool to protect hu...". Further right are icons for "Später ans..." (clock) and "Teilen" (share). The video content features a purple and black background with the text "HOW DOES GLAZE WORK?". Below this, a white text box contains the summary: "The TLDR version: On a pixel level Glaze interferes with AI's ability to accurately train on your images." Two side-by-side images illustrate the concept: the left one shows a clear, stylized image of a woman's face with the text "So instead of trying to analyzing this:", and the right one shows a heavily blurred version of the same image with the text "It's trying to analyze this.". At the bottom left, there is a "WEITERE VIDEOS" button. The video progress bar shows 0:16 / 2:03. The bottom right corner contains standard YouTube controls: a play button, a volume icon, a settings gear, the "YouTube" logo, and a full-screen icon.

Introducing Glaze, a tool to protect hu...

HOW DOES GLAZE WORK?

Später ans... Teilen

The TLDR version: On a pixel level Glaze interferes with AI's ability to accurately train on your images.

So instead of trying to analyzing this: It's trying to analyze this.

WEITERE VIDEOS

0:16 / 2:03



YouTube

<https://glaze.cs.uchicago.edu/>


Midjourney


prompt The prompt to imagine

 /imagine prompt a university in a brutalist style from the sixties

 Midjourney Bot  neute um 13:57 Uhr

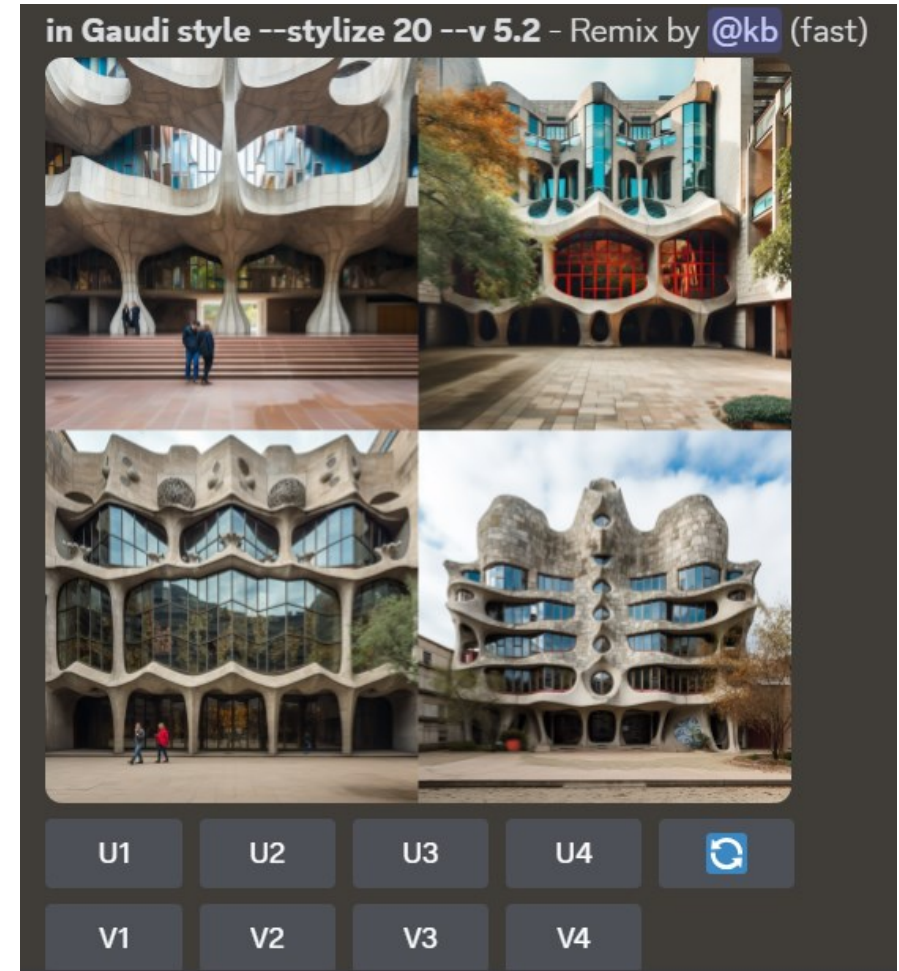
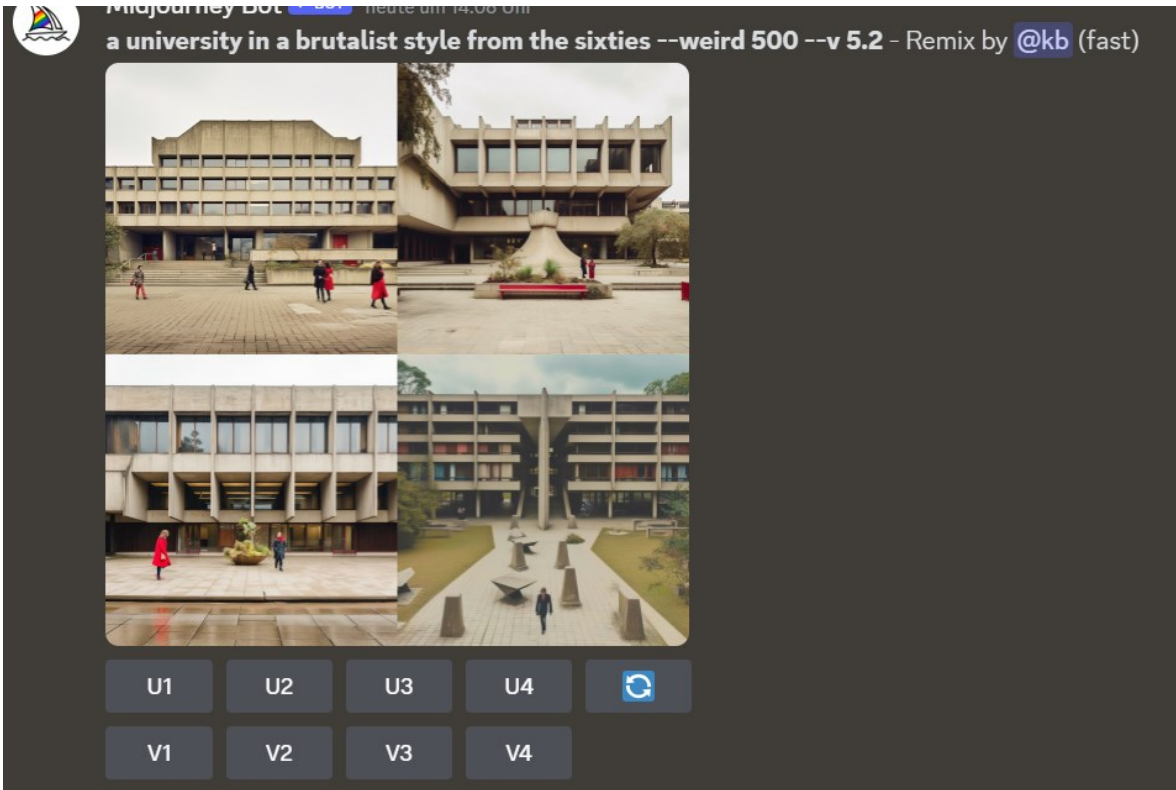
a university in a brutalist style from the sixties --v 5.2 - @kb (fast)



U1 U2 U3 U4 

V1 V2 V3 V4

Midjourney

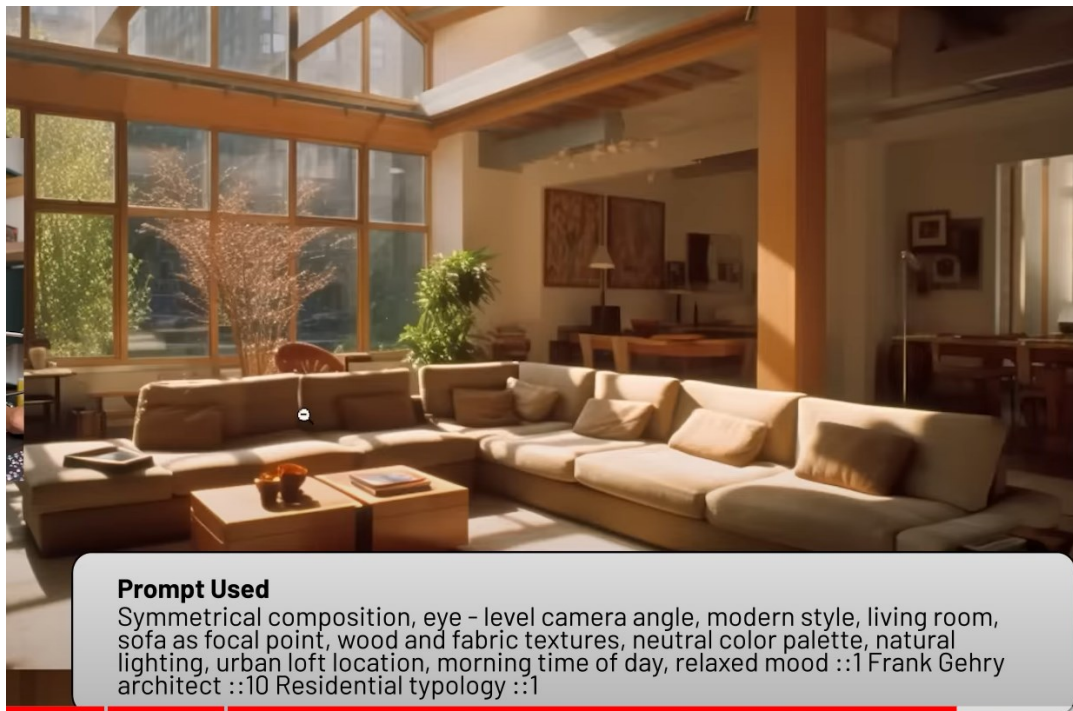


Additive prompting



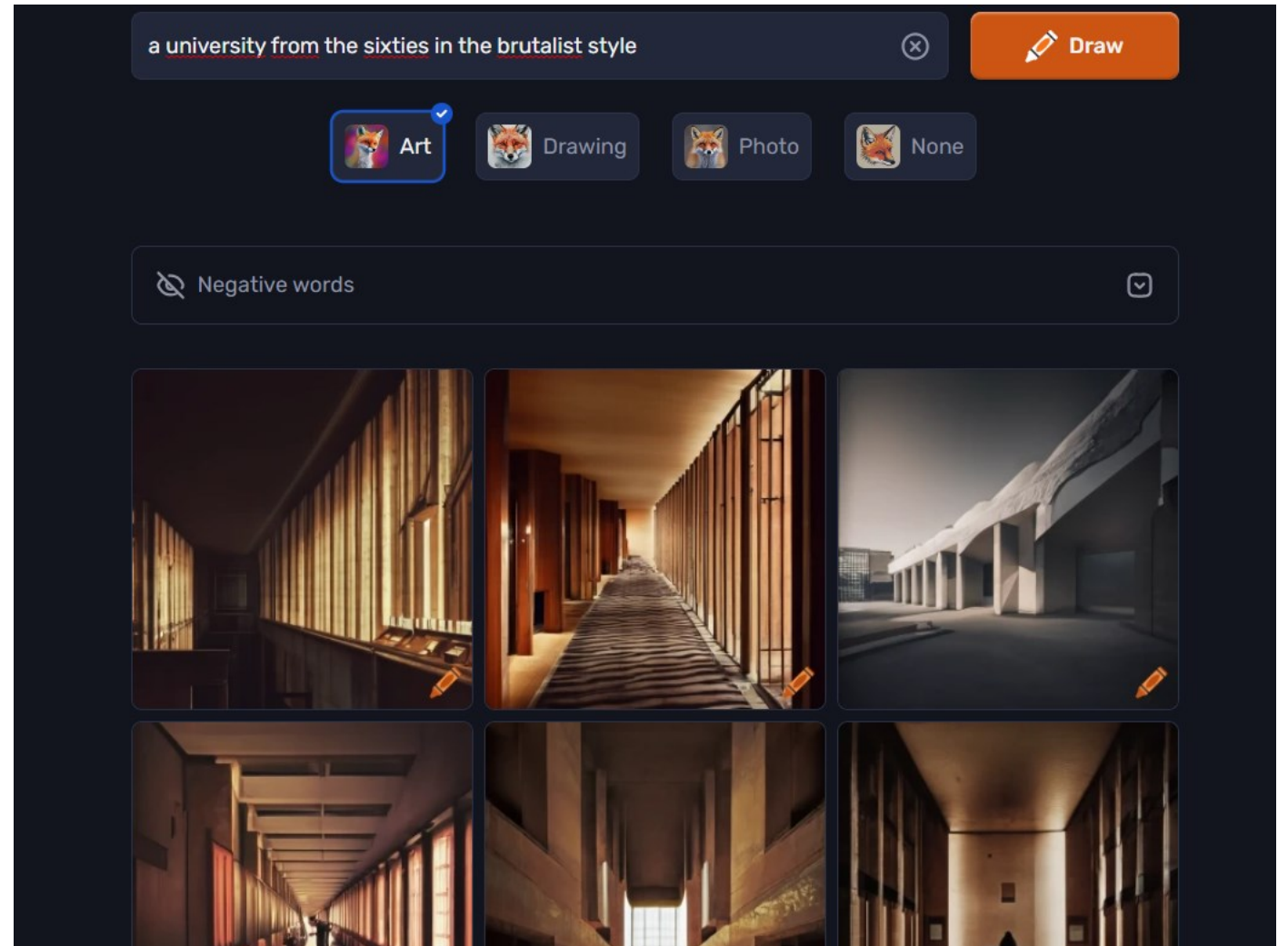
GPT-4 currently has a cap of 25 messages every 3 hours.

Please create a table that breaks down an interior architecture photograph composition into the following key elements, where each of these key elements is a column: Composition, Camera Angle, Style, Room Type, Focal Point, Textures, Detail, Color Palette, Brand, Lighting, Location, Time of Day, Mood, Architecture.



Craiyon: <https://www.craiyon.com/>

- Modell: DALL-E mini
- Freie und kostenpflichtige Versionen



Replicate: <https://replicate.com/>

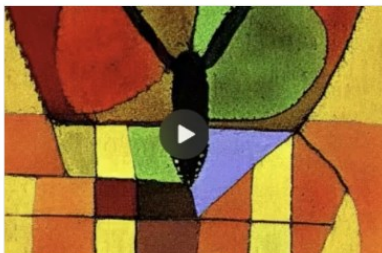
Thousands of models, ready to use

Machine learning can do some extraordinary things. Replicate's community of machine learning hackers have shared thousands of models that you can run.



Language models

Models that can understand and generate text



Video creation and editing

Models that create and edit videos



Super resolution

Upscaling models that create high-quality images from low-quality images

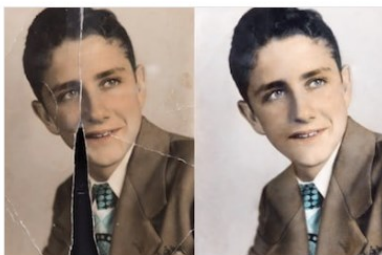


Image restoration

Image and video generation models trained with diffusion processes



Image to text

Image and video generation





Text to image

Image and video generation

Replicate: <https://replicate.com/>


ai-forever / kandinsky-2

 PUBLIC text2img model trained on LAION HighRes and fine-tuned on internal datasets


 1.9M runs


 GitHub

 License

 Demo

 API

 Examples

 Versions (601eea49)

Input

T prompt

a university from the sixties in the brutalist style

Input Prompt

num_inference_steps

100

Number of denoising steps (minimum: 1; maximum: 500)

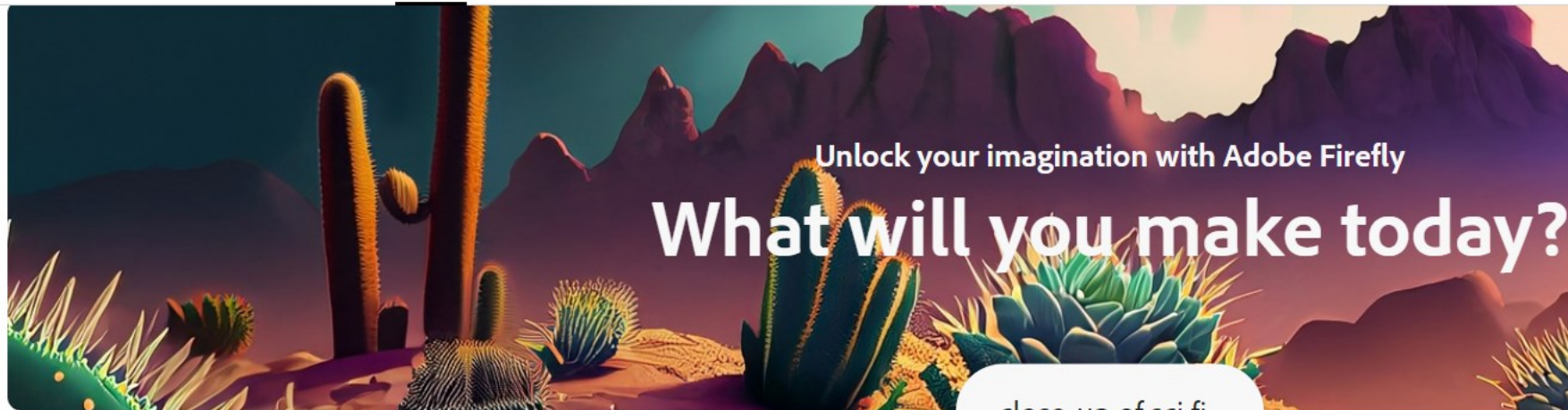
guidance_scale

Output



Adobe Firefly: <https://firefly.adobe.com/>

 **Adobe Firefly (Beta)** [Home](#) [Gallery](#) [Favorites](#) [About](#) [FAQ](#)



Try these out

Google: Imagen:

<https://imagen.research.google/>



Click on a word below and Imagen!

A photo of a **An oil painting of a**

fuzzy panda British Shorthair cat **Persian cat** Shiba Inu dog raccoon

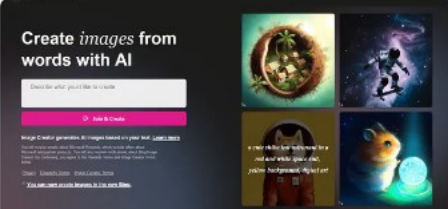
wearing a cowboy hat and wearing a sunglasses and

red shirt **black leather jacket**

playing a guitar riding a bike **skateboarding**

in a garden. **on a beach.** on top of a mountain.

Weitere Tools: futurepedia.com



Create images from words with AI


312

★★★★☆ (2)

Create images from words with AI

Free

#image generator



PicFinder

Infinite image generation powered by AI.

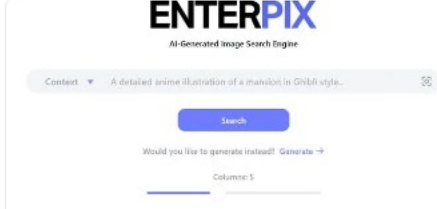
248

★★★★☆ (1)

Infinite image generation powered by AI

Free

#image generator



ENTERPIX

AI-Generated Image Search Engine


223

★★★★☆ (1)

AI-powered image search engine.

Free

#image generator #search engine

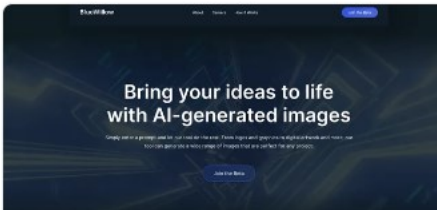


FreeImage.AI

Free AI Image Generator

222

★★★★☆ (1)

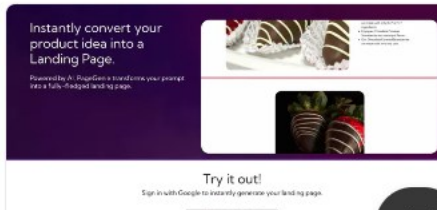


BlueWillow

Bring your ideas to life with AI-generated images

215

★★★★☆ (2)



Pagegenie

Instantly convert your product idea into a Landing Page.

190

★★★★☆

Social biases in text to image systems



(a) SD 1.4 (b) SD 2 (c) Dall-E 2

Average face for "Photo portrait of a social worker"



(d) SD 1.4

Average face for

Diffusion Bias Explorer

Choose from the prompts below to explore how the text-to-image models like Stable Diffusion v1.4, Stable Diffusion v.2 and DALLE-2 represent different professions and adjectives

Choose a model to compare results
Stable Diffusion 1.4

Choose a first adjective (or leave this blank!)
pleasant

Choose a first group
childcare worker

Choose a model to compare results
Stable Diffusion 1.4

Choose a second adjective (or leave this blank!)

Choose a second group



Diffusion bias explorer: <https://huggingface.co/spaces/society-ethics/DiffusionBiasExplorer>

Alexandra Sasha Luccioni, Christopher Akiki, Margaret Mitchell, Yacine Jernite:

Stable Bias: Analyzing Societal Representations in Diffusion Models: [\[2303.11408\]](https://arxiv.org/abs/2303.11408) [Stable Bias: Analyzing Societal Representations in Diffusion Models \(arxiv.org\)](https://arxiv.org/abs/2303.11408)

Kennzeichnung

- Kennzeichnung empfohlen, aber nicht verpflichtend, analog Public Domain-Werken
- Kennzeichnung z.T. mit Prompts im ALT-Text

US Copyright Office: AI Generated Works Are Not Eligible for Copyright

<https://www.artnews.com/art-news/news/ai-generator-art-text-us-copyright-policy-1234661683/>

Generative künstliche Intelligenz in Studium und Lehre



Große Themenreihe
für Lehrende und
Studierende der RUB



Zentrum für
Wissenschafts-
didaktik

Informationen zu KI-Tools in der Lehre:

<https://www.zfw.rub.de/ki-tools>

KI-Themenreihe: <https://moodle.ruhr-uni-bochum.de/course/view.php?id=52225>