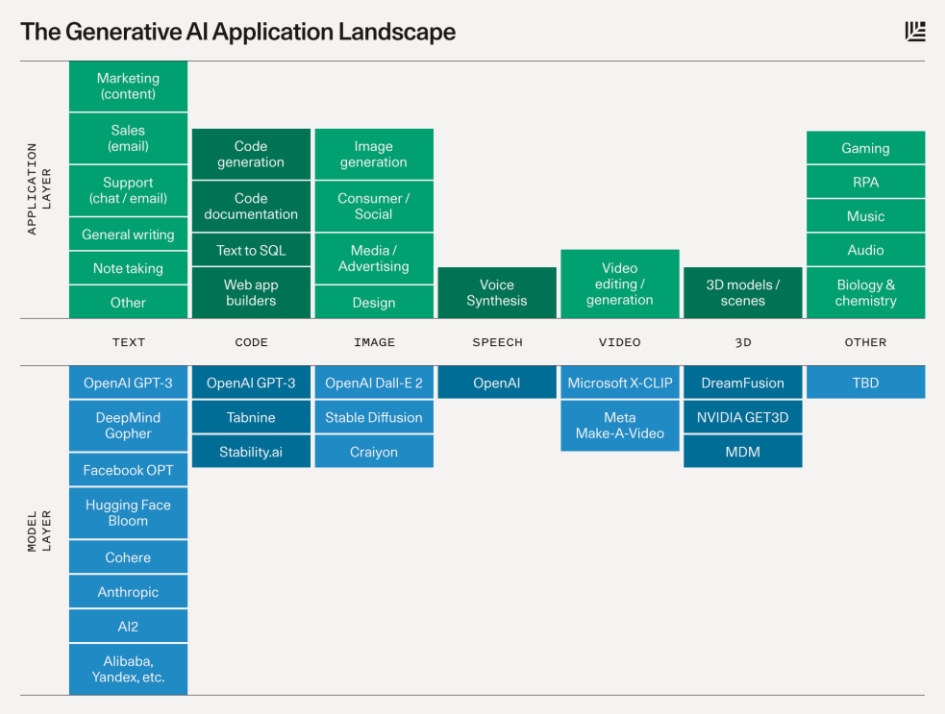
Generative AI:
Tools & Landscape

General Overview

Generative AI Tools

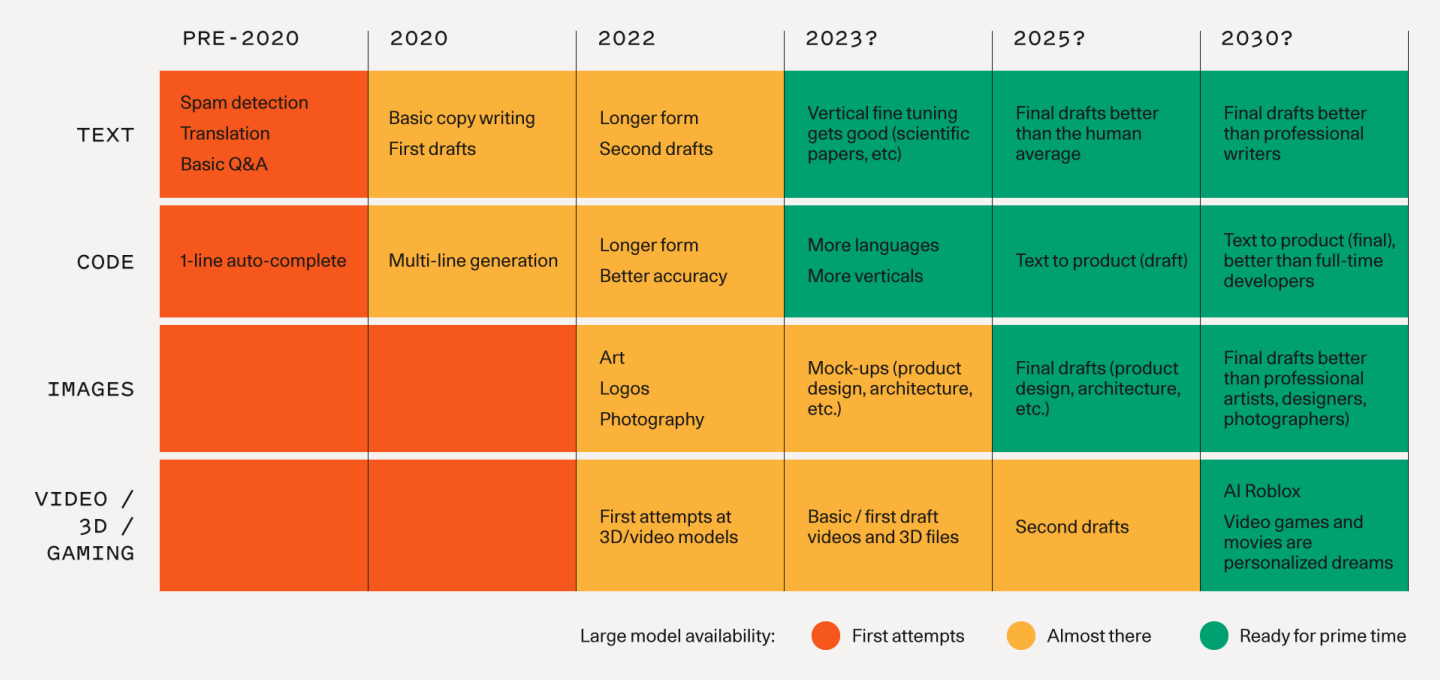
Application Landscape



Source: https://www.sequoiacap.com/article/generative-ai-a-creative-new-world/

Generative AI Tools

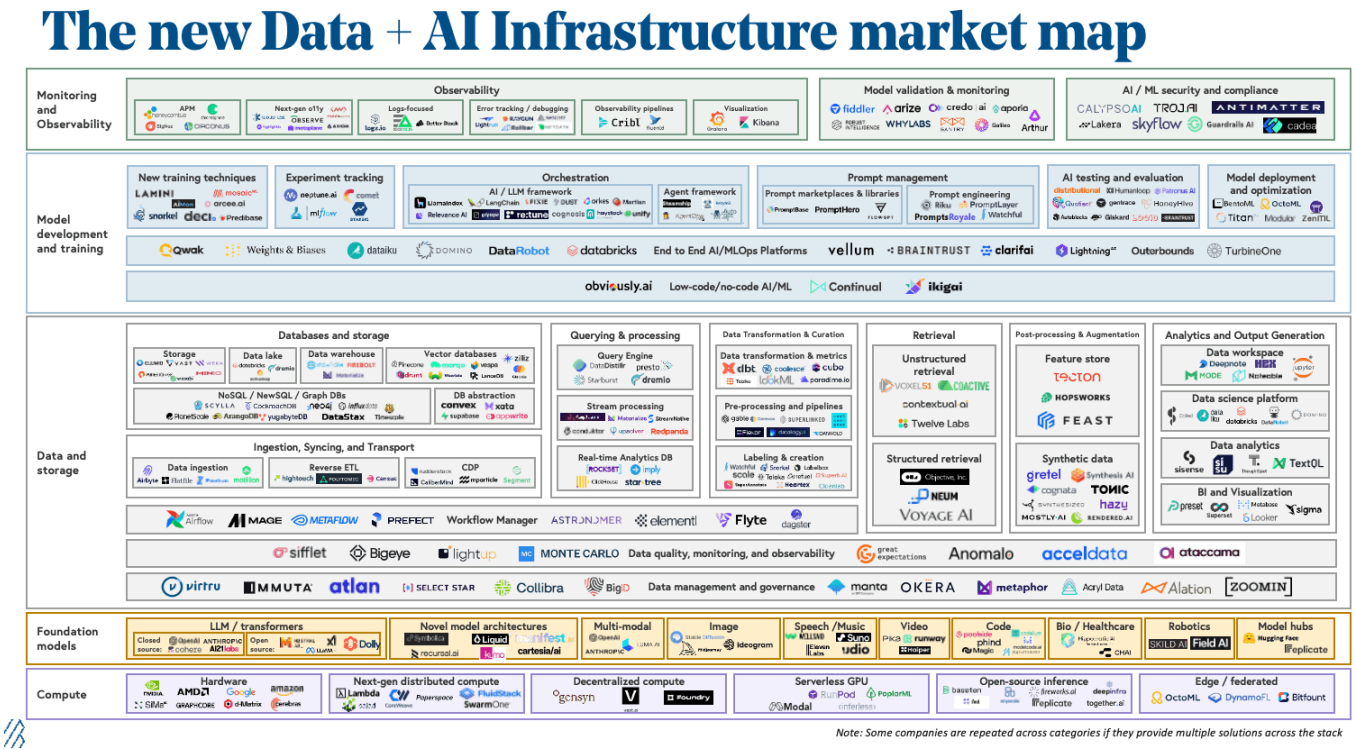
Application Landscape Maturity



Source: https://www.sequoiacap.com/article/generative-ai-a-creative-new-world/

Generative AI Tools

AI Data and Infrastructure Market Map



Source: https://nextword.substack.com/p/why-ai-infrastructure-startups-are?ref=dailydev

Generative AI Tools

Introduction

Chatbots (Text generation)

Claude

Gemini

Text to Code

GitHub Copilot

CURSOR

Text to Image

Leonardo.Ai

DALL·E 3

Image to Image

Aragon.ai

fal

Text to Sound / Music

IIElevenLabs

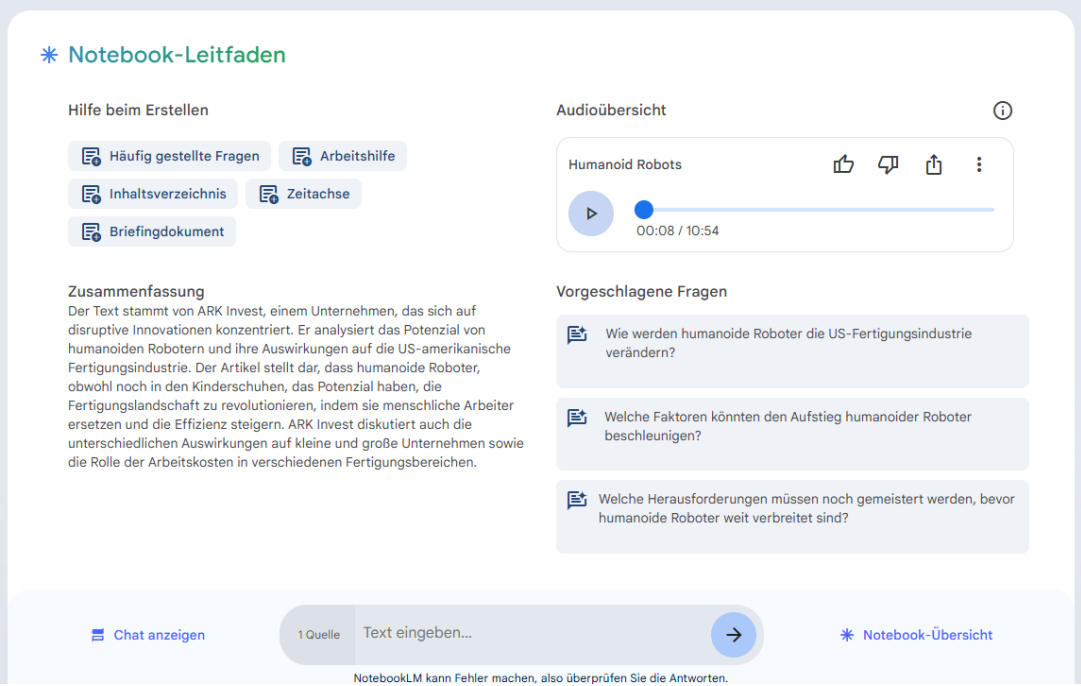
SUNO

Text

Generative AI Tools

Text: NotebookLM

- creates RAG on your document on the fly
- has AI search
- literature review

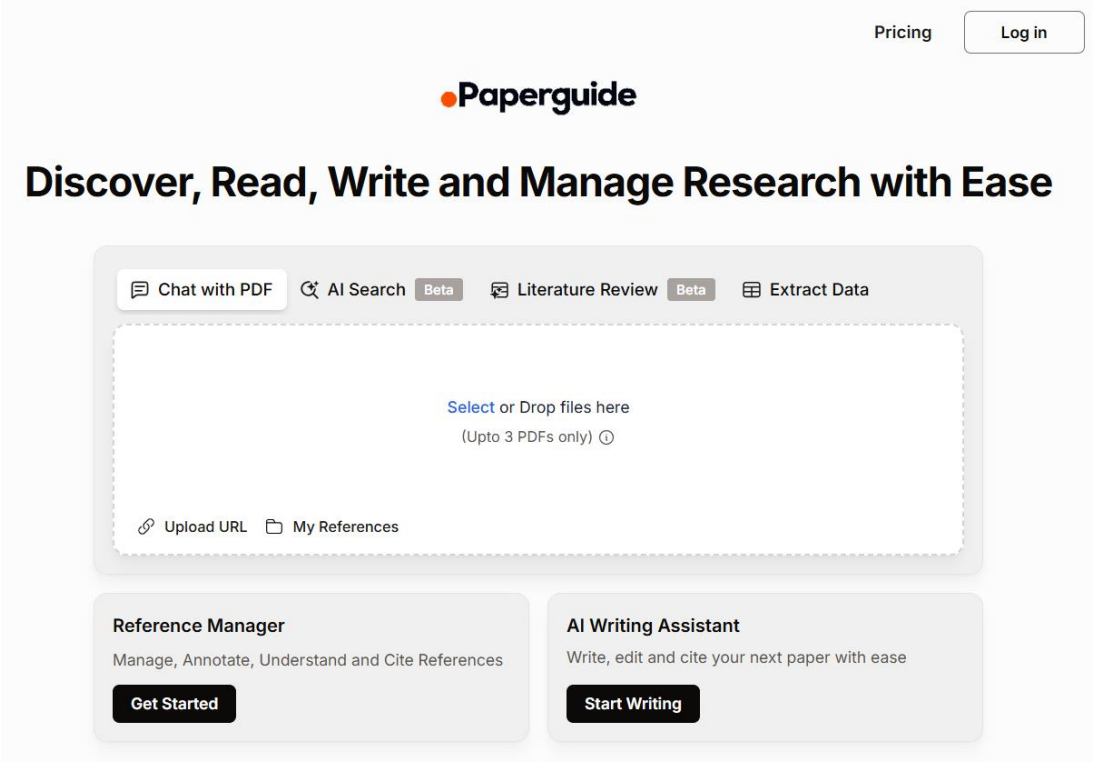


Source: https://notebooklm.google.com/notebook/dfdabbb2-3529-47a8-ac65-0fce0b8cdde4

Generative AI Tools

Text: NotebookLM

- creates RAG on your document on the fly
- creates a lively podcast of two podcasters discussing the topic

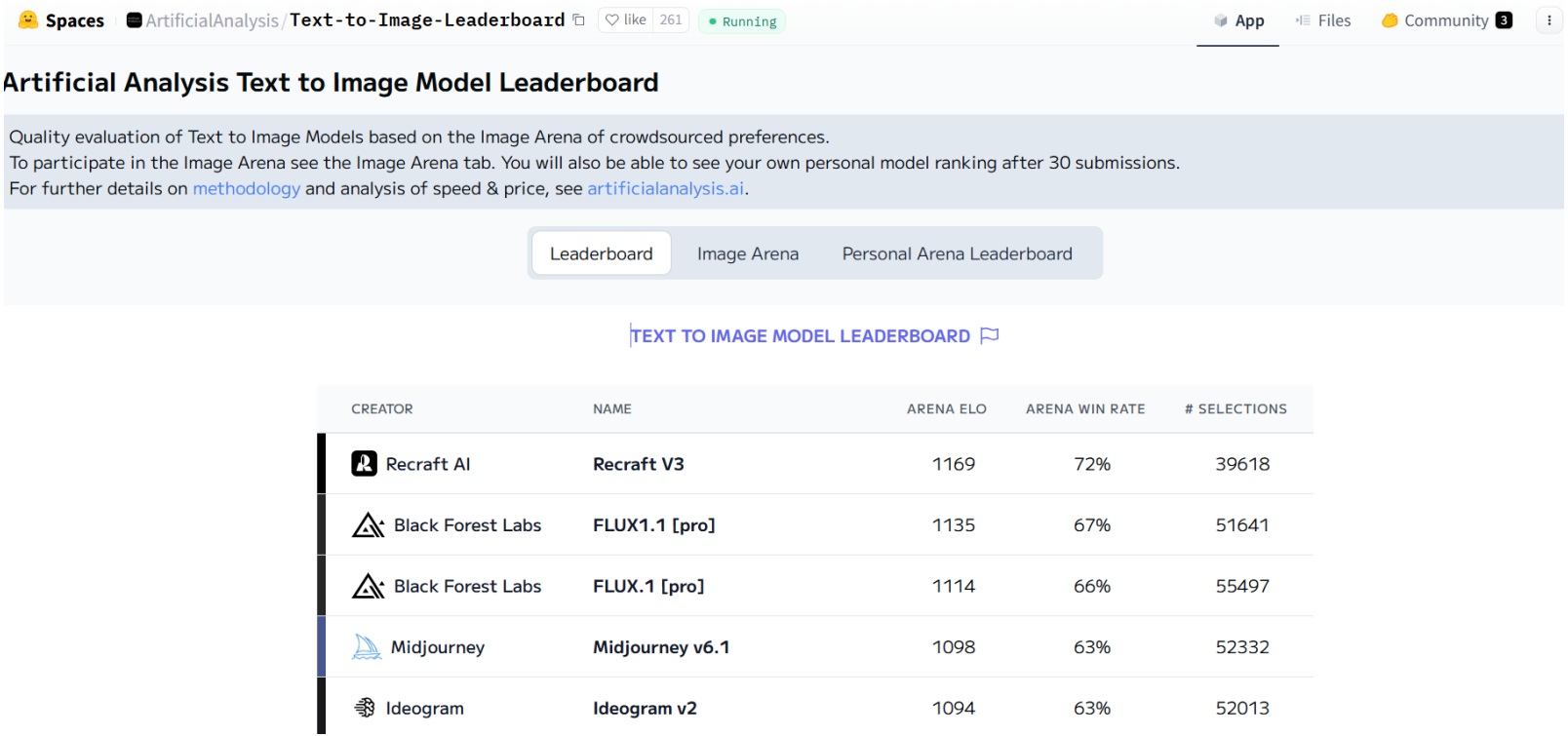


Source: https://paperguide.ai/

Images & Video

Generative AI Tools

Text2Image: Leaderboard

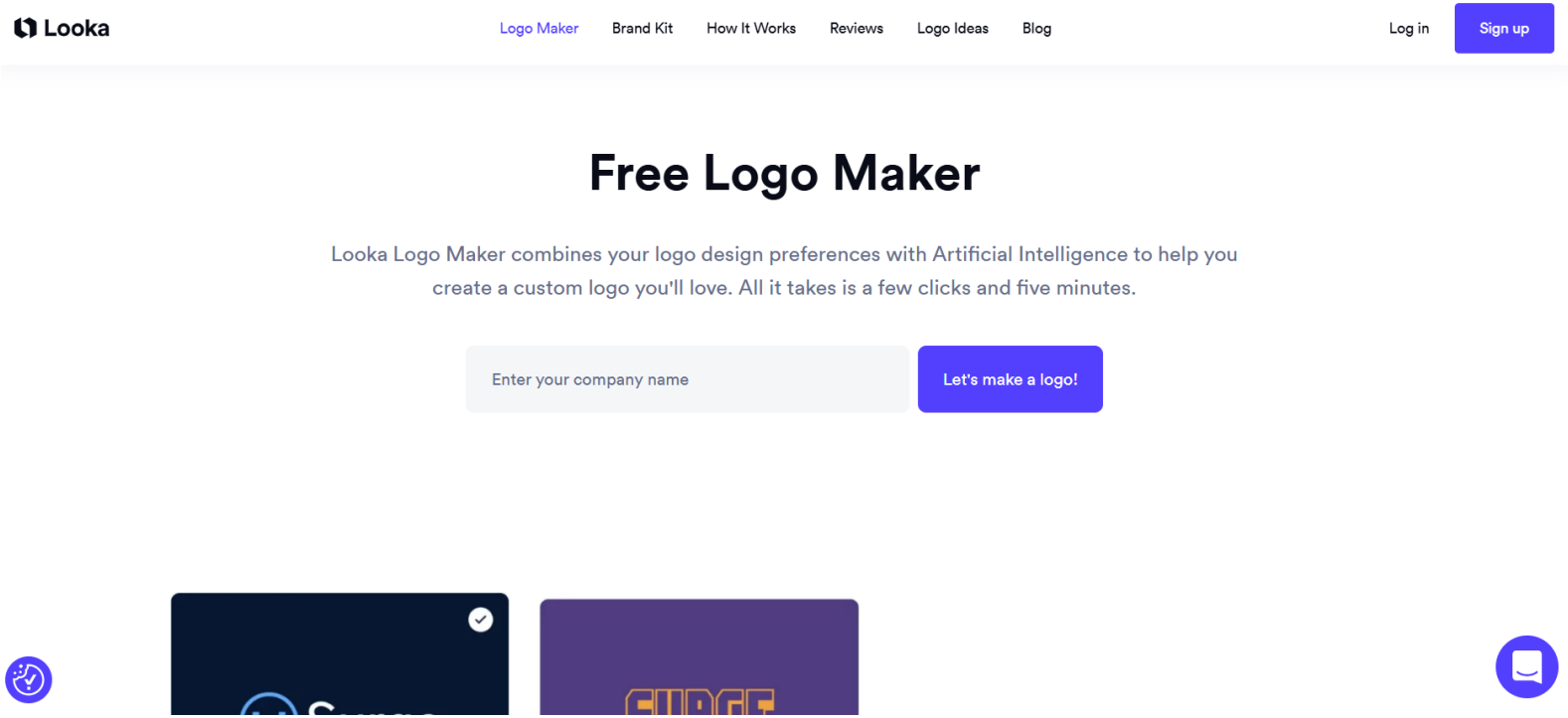


CREATOR	NAME	ARENA ELO	ARENA WIN RATE	# SELECTIONS
Recraft AI	**Recraft V3**	1169	72%	39618
Black Forest Labs	**FLUX1.1 [pro]**	1135	67%	51641
Black Forest Labs	**FLUX.1 [pro]**	1114	66%	55497
Midjourney	**Midjourney v6.1**	1098	63%	52332
Ideogram	**Ideogram v2**	1094	63%	52013

Source: https://huggingface.co/spaces/ArtificialAnalysis/Text-to-Image-Leaderboard

Generative AI Tools

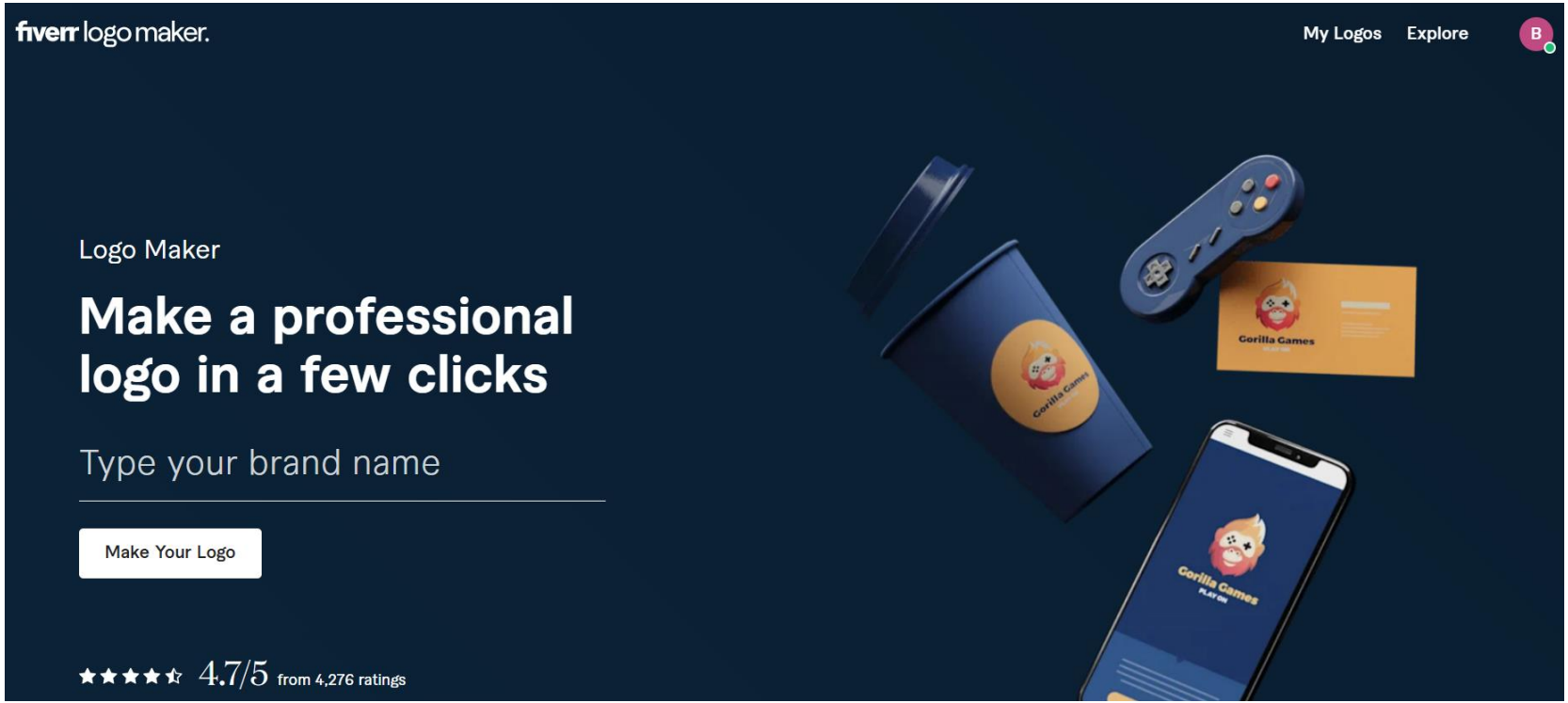
looka.com



create branding content like logos

Generative AI Tools

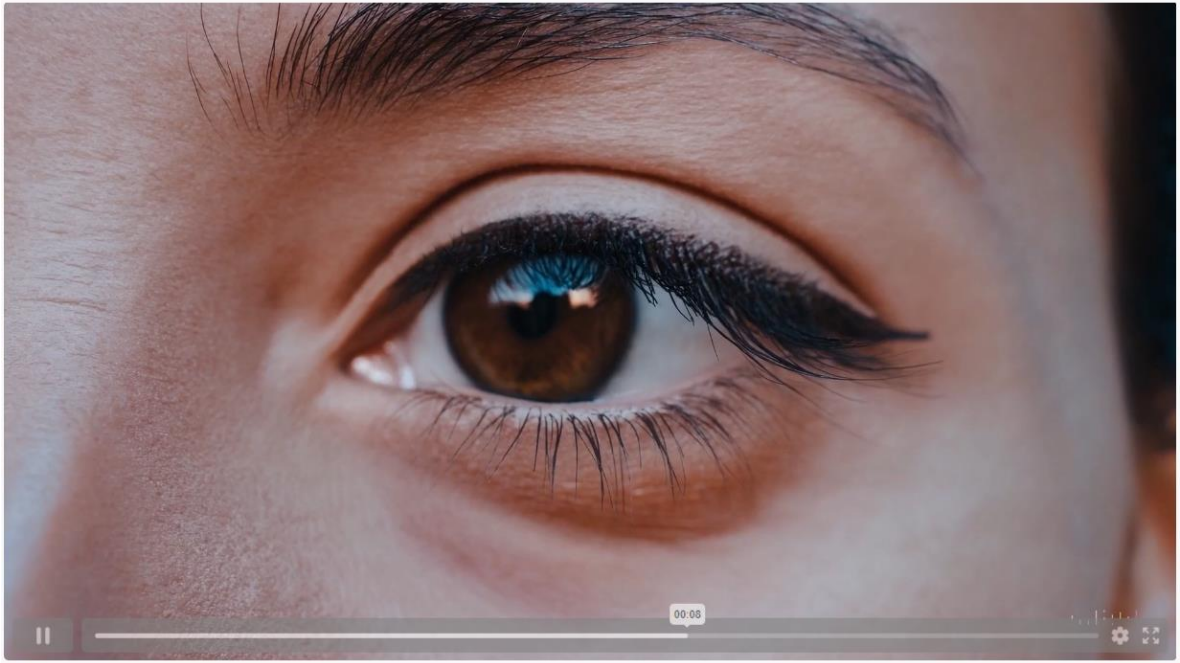
looka.com



https://www.fiverr.com/logo-maker

Generative AI Tools

Text2Video: Open AI Sora



Prompt: Extreme close up of a 24 year old woman's eye blinking, standing in Marrakech during magic hour, cinematic film shot in 70mm, depth of field, vivid colors, cinematic

Source: https://openai.com/index/sora/

Generative AI Tools

Text2Video: Microsoft Talking Faces

Source: https://www.microsoft.com/en-us/research/project/vasa-1/

Generative AI Tools

Text2Image: Finetuned Text to Image Model

Generative AI Tools

Text2Video

Image (AI generated)

a video showing an astronaut in a spacesuit floating gracefully inside a modern space station. The astronaut should appear relaxed, moving slowly as they float weightlessly, occasionally reaching out to gently push off walls or grab onto handrails. The background should include details of the space station's interior, with cables, control panels, and ambient lighting adding to the realistic feel. The video should convey the calm, serene experience of zero gravity as the astronaut navigates through the station.

Prompt (AI generated)

wait for it

Generative AI Tools

Text2Video

Generative AI Tools

Text2Video (fal.ai)

Image (AI generated)

the dog turns the head to watch the gladiator. the gladiator walks towards the dog. the focus gradually changes from dog to gladiator

Prompt (AI generated)

Model: fal-ai/minimax-video/image-to-video

Generative AI Tools

Video2Video (runwayml.com)

Video (AI generated)

zoom 3D cartoon, professionally rendered with volumetric lighting and shadows, [your prompt here] in the style of professional 3D render, expressive features, 3D ray traced lighting and shadows, high fidelity 3D cartoon render.

Prompt (AI generated)

Source: runwayml

Generative AI Tools

Video2Video (runwayml.com)

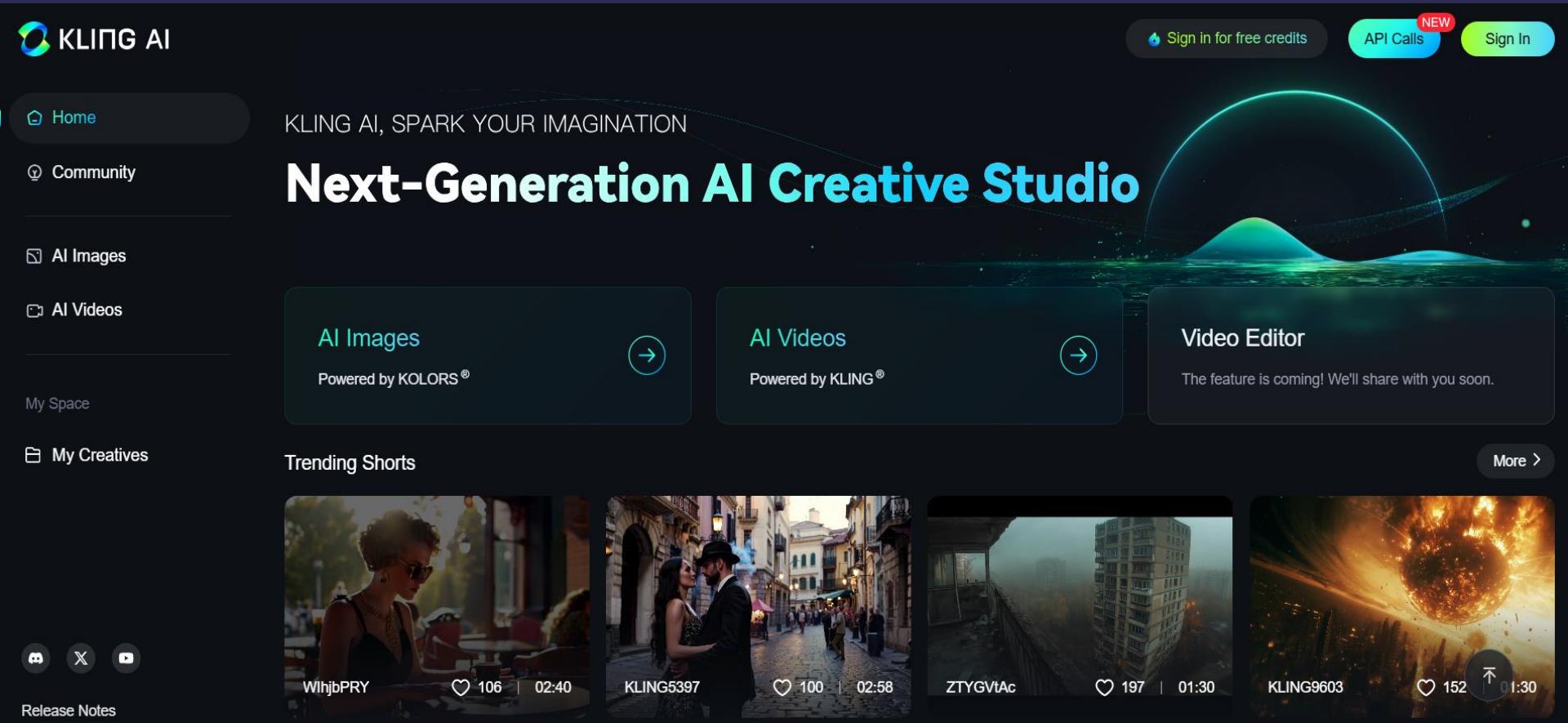
Driving Performance

Generated Character Animations

Source: https://runwayml.com/research/introducing-act-one

Generative AI Tools

AI Video (klingai.com)



Generative AI Tools

AI Video (https://byteaigc.github.io/X-Portrait2/)

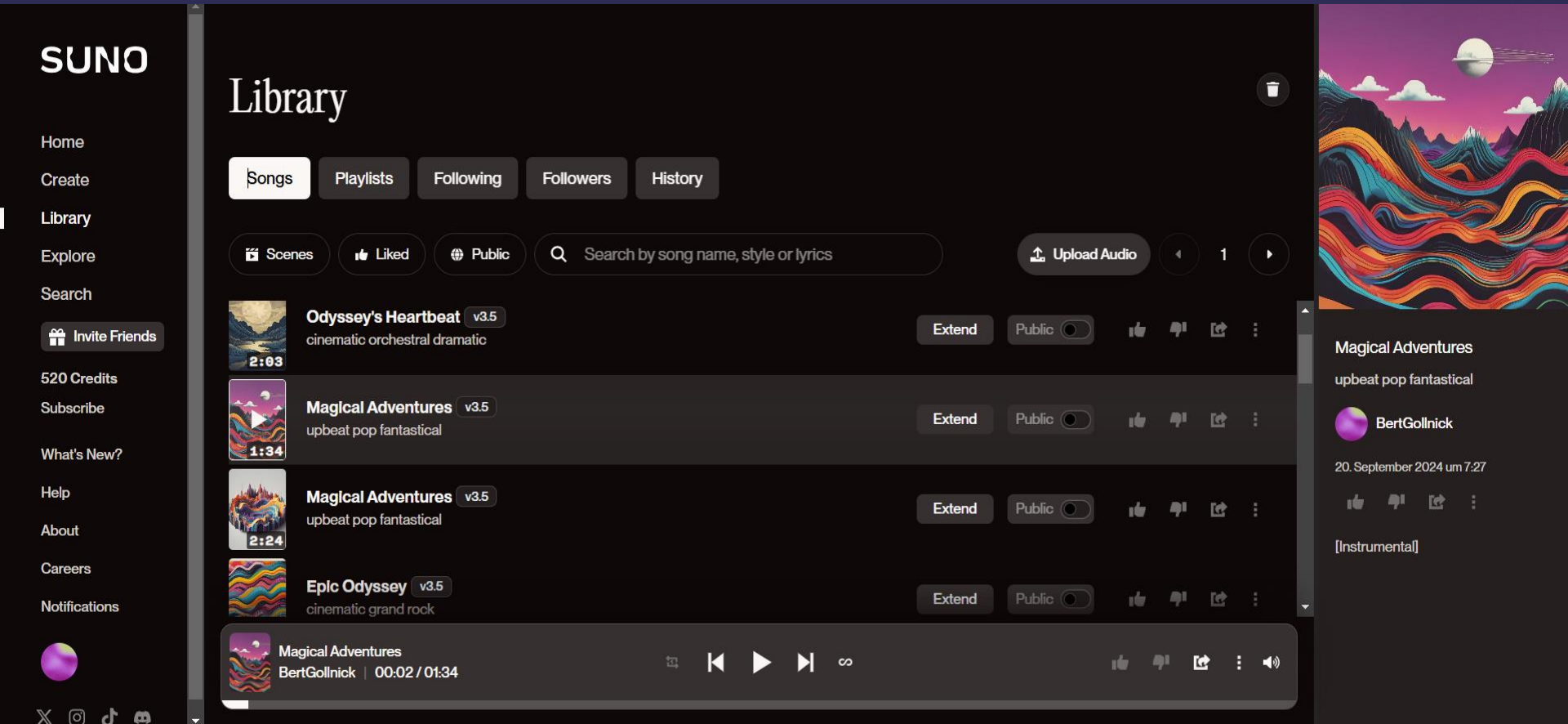
X-Portrait 2: Highly Expressive Portrait Animation

Xiaochen Zhao[1,2], Hongyi Xu[1], Guoxian Song[1], You Xie[1], Chenxu Zhang[1], Xiu Li[1], Linjie Luo[1], Jinli Suo[2], Yebin Liu[2],
[1]ByteDance Inc., [2]Tsinghua University

Music

Generative AI Tools

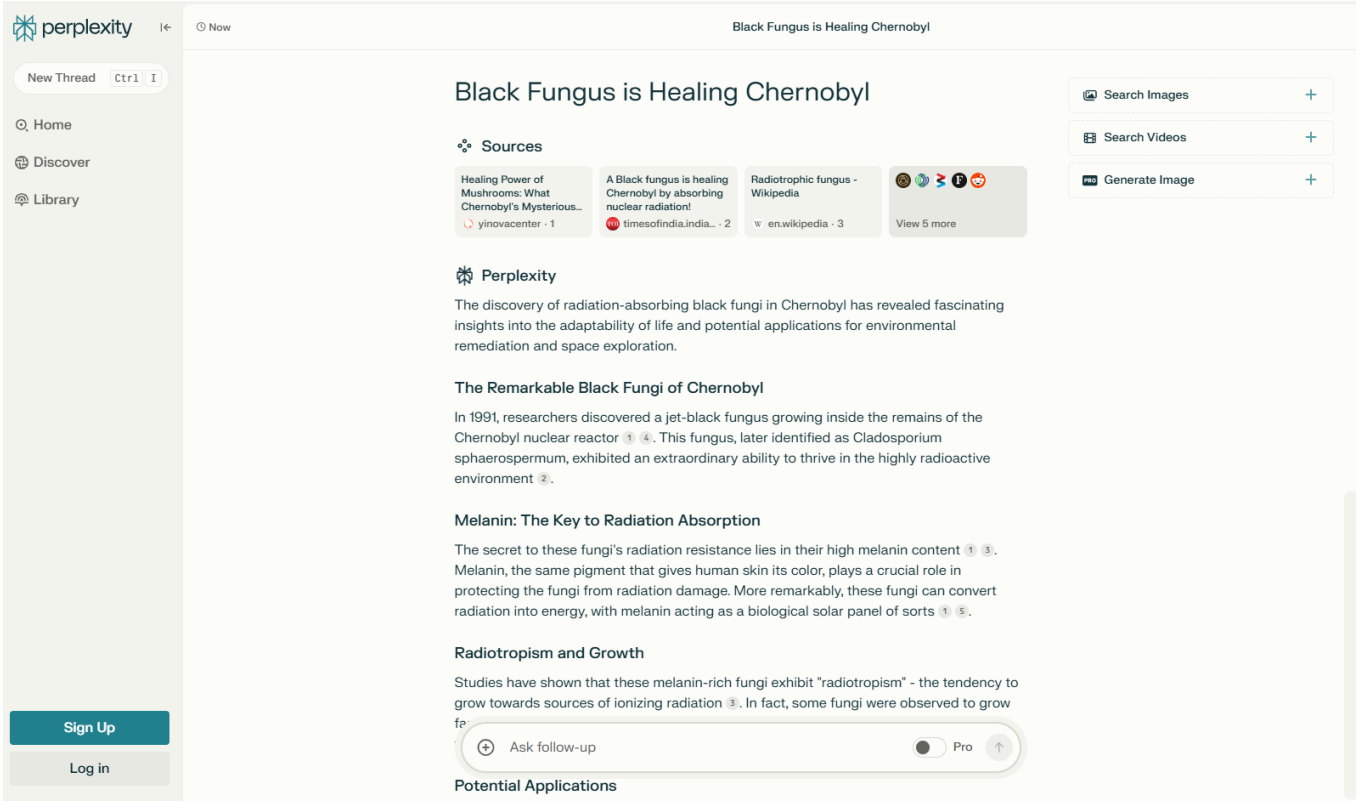
Music Generation (suno.com)



AI Search

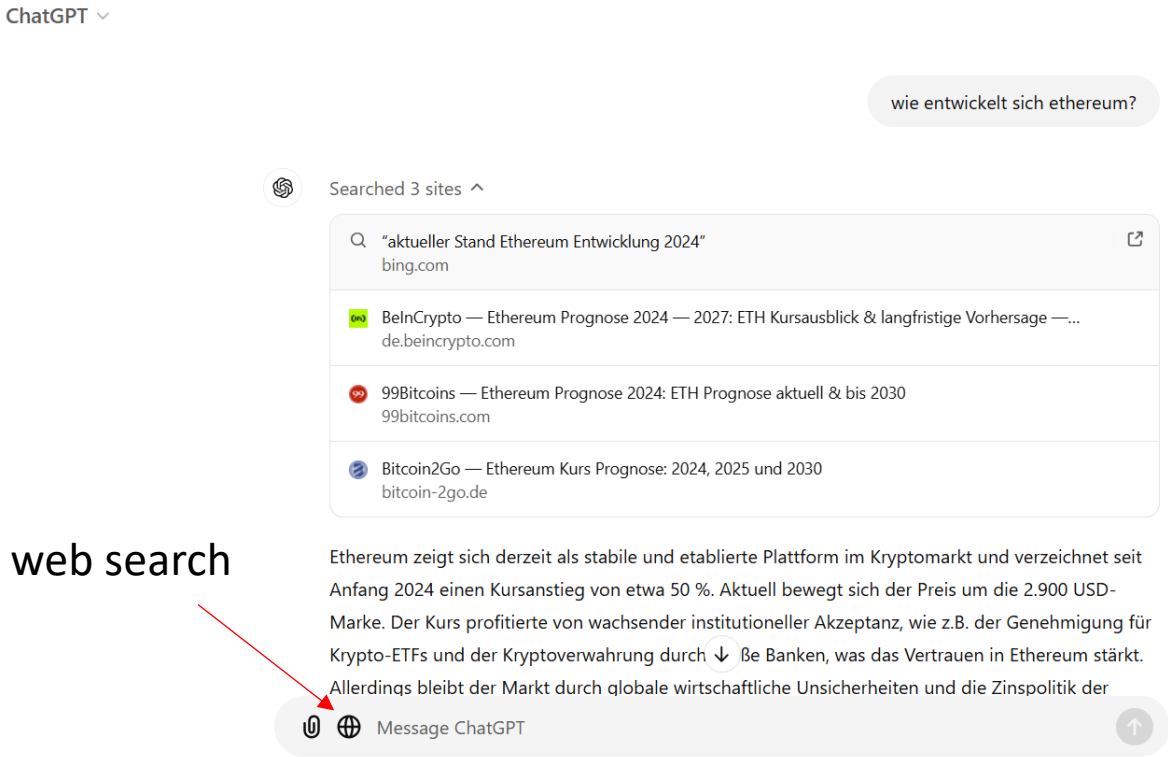
Generative AI Tools

AI Search (perplexity.ai)



Generative AI Tools

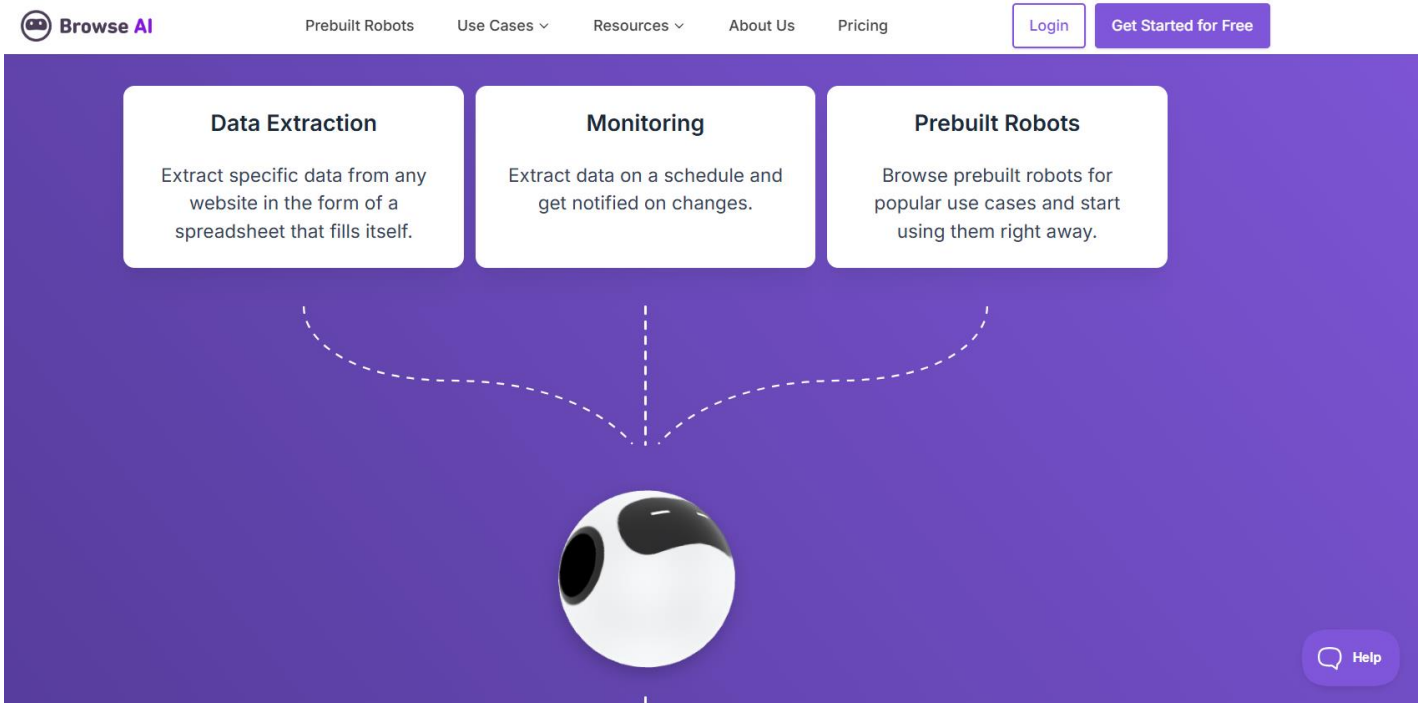
OpenAI (chat.com)



web search

Generative AI Tools

browse.ai

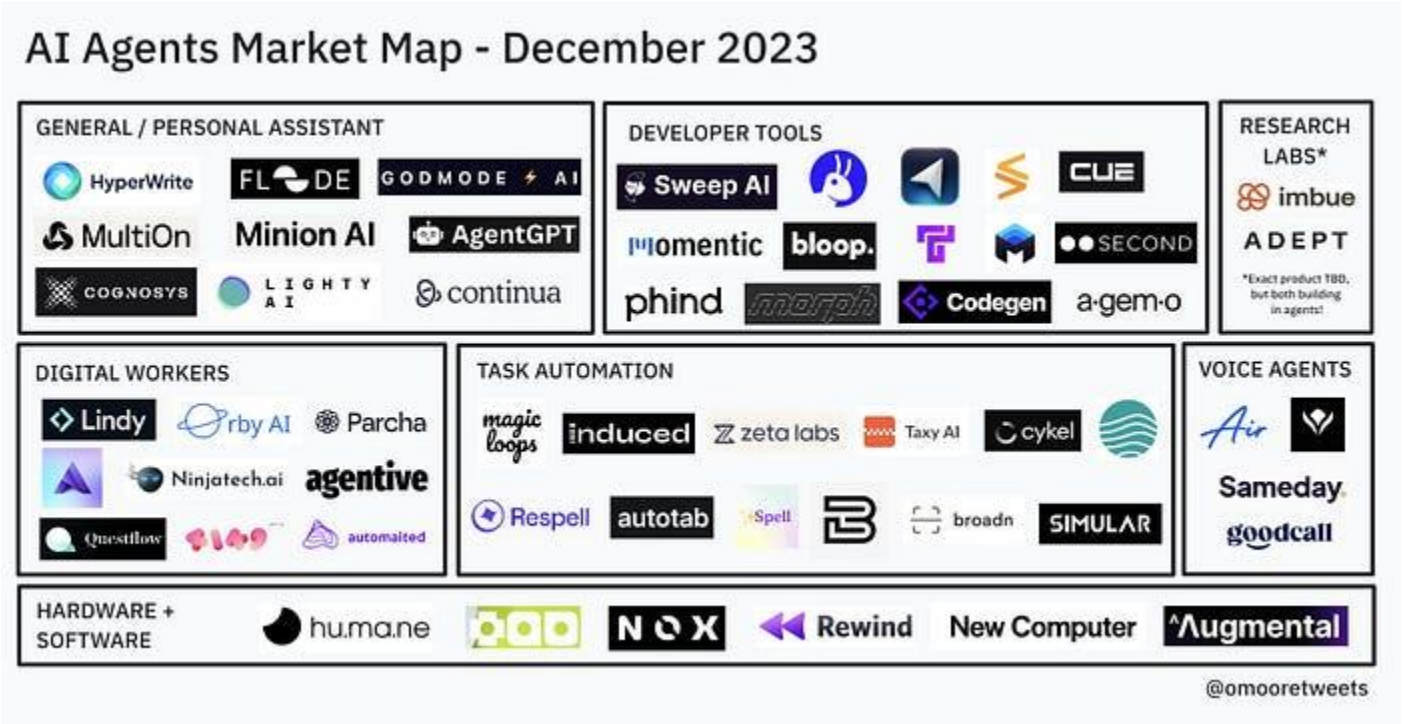


scrape websites via robot

Agents

Generative AI Tools

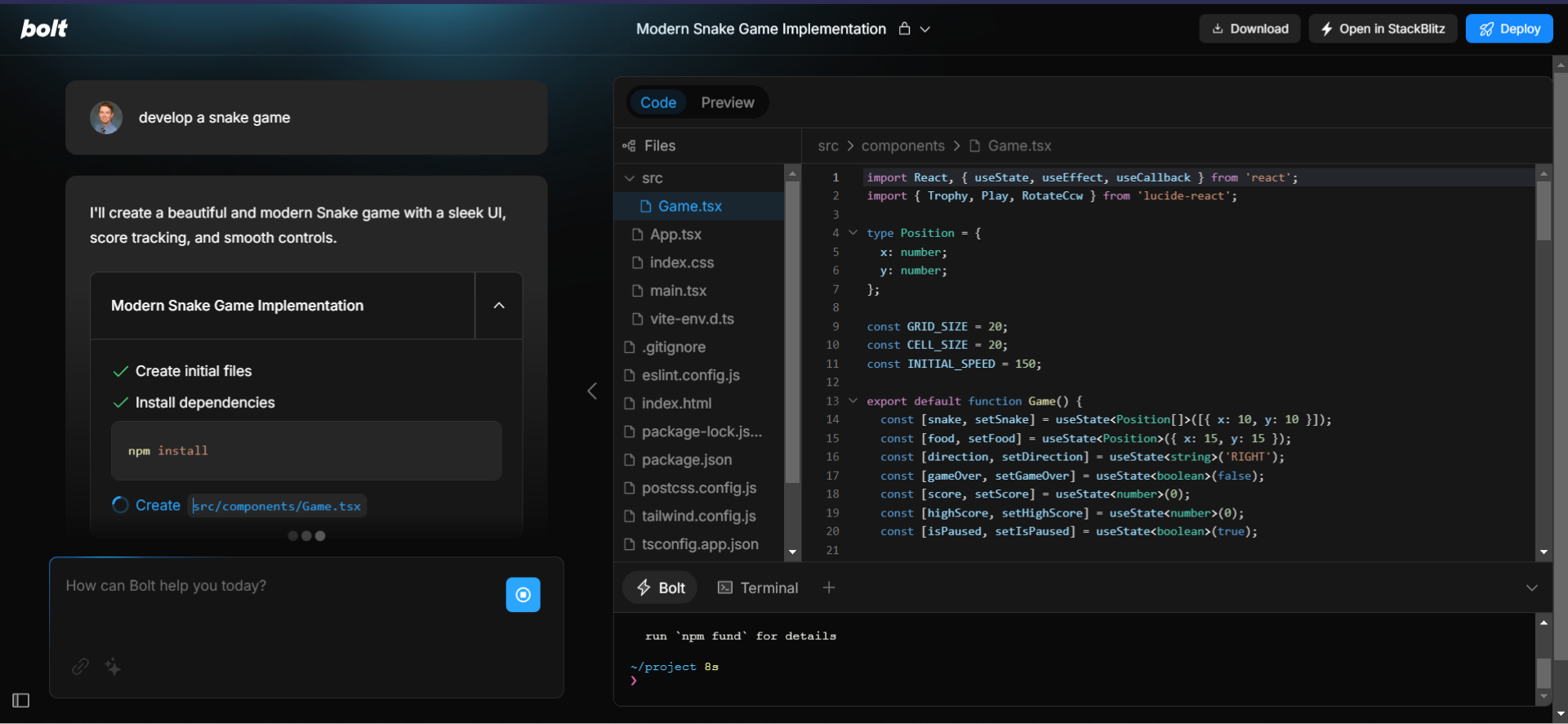
AI agents



Source: https://towardsdatascience.com/navigating-the-ai-landscape-of-2024-trends-predictions-and-possibilities-41e0ac83d68f

Generative AI Tools

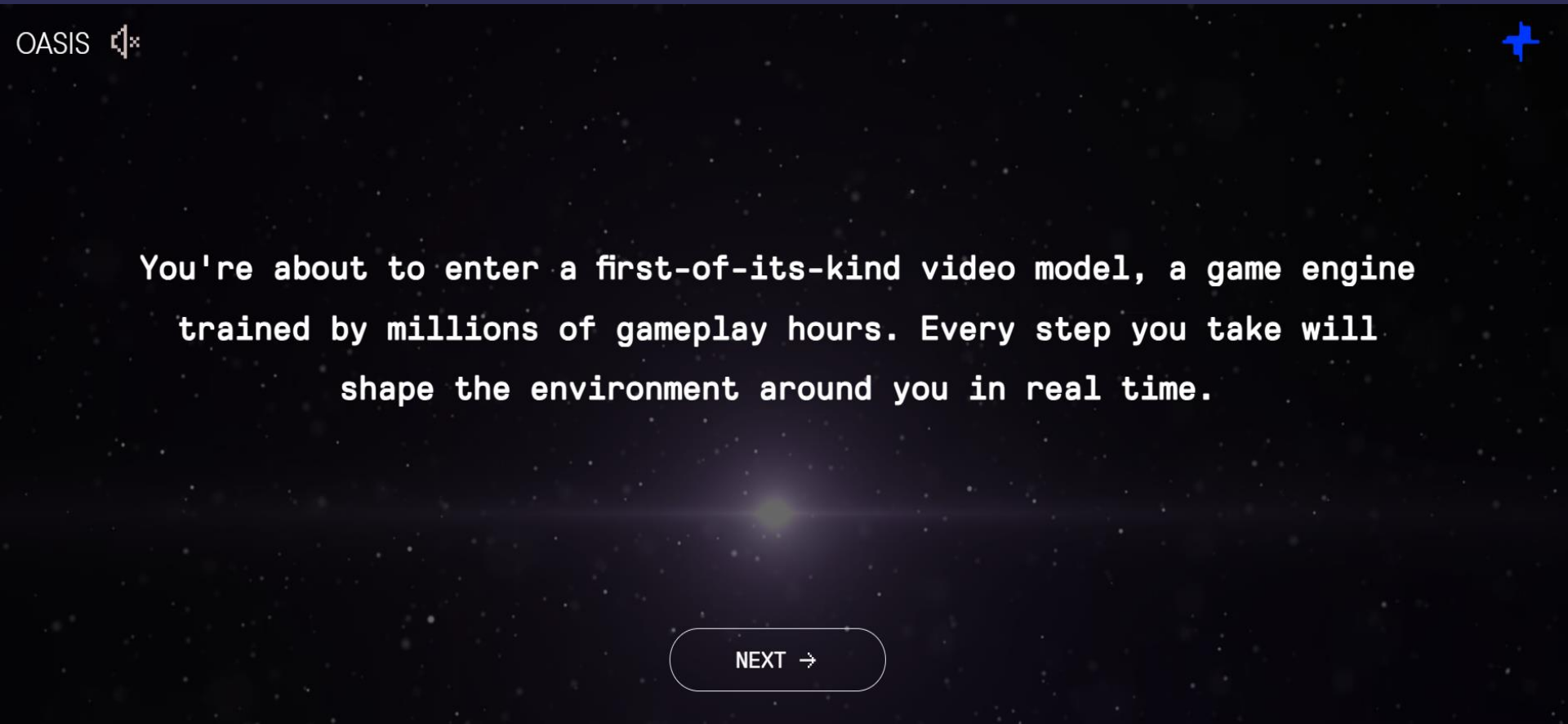
bolt.new



Gaming

Generative AI Tools

Open world AI generated (oasis.decart.ai)



Robotics

Generative AI Tools

Robot learns to walk in 2 days

Source: https://x.com/i/status/1852246146049282531

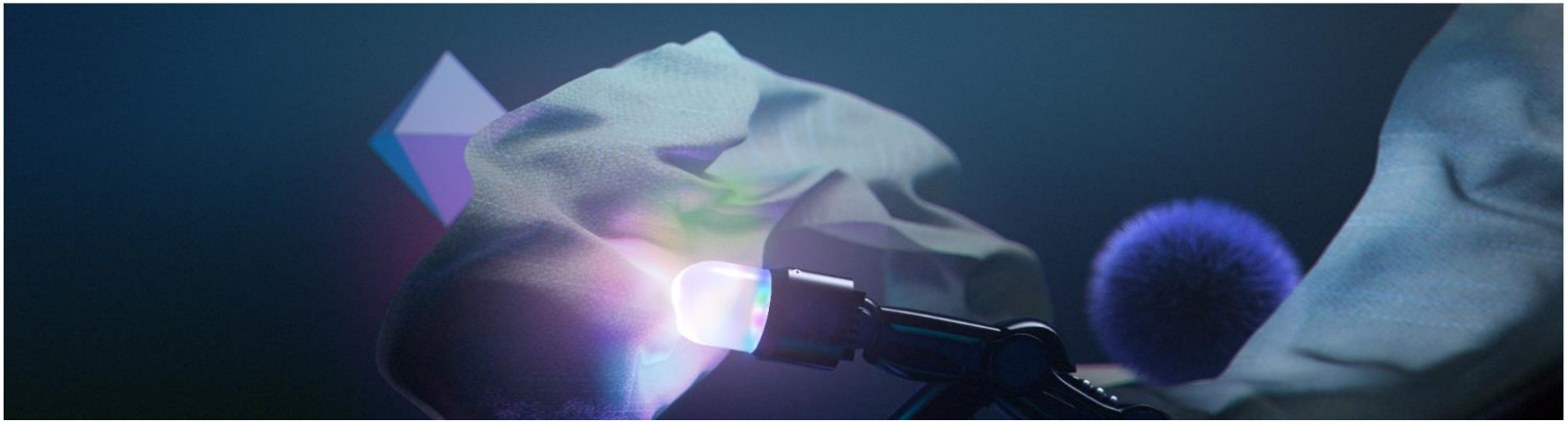
Generative AI Tools

Robot with sense of touch (https://ai.meta.com/blog/fair-robotics-open-source/)

Meta | Our approach | Research | Product experiences | Llama | Blog | Try Meta AI

Advancing embodied AI through progress in touch perception, dexterity, and human-robot interaction

October 31, 2024 • 11 minute read



Generative AI Tools

Finetuned Text to Image Model