

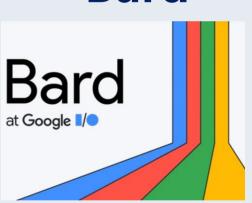
Generative AI

생성형 AI는 인공신경망을 이용하여 새로운 데이터를 생성해내는 기술로 명령어(Prompt)를 통해 사용자의 의도를 스스로 이해하고, 주어진 데이터로 학습, 활용하여 텍스트, 이미지, 오디오, 비디오 등 새로운 콘텐츠를 생성해내는 인공지능이다.

ChatGPT



Bard



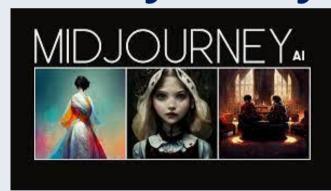
DALL-E 2



Stable Diffusion



Midjourney



https://chat.openai.com/

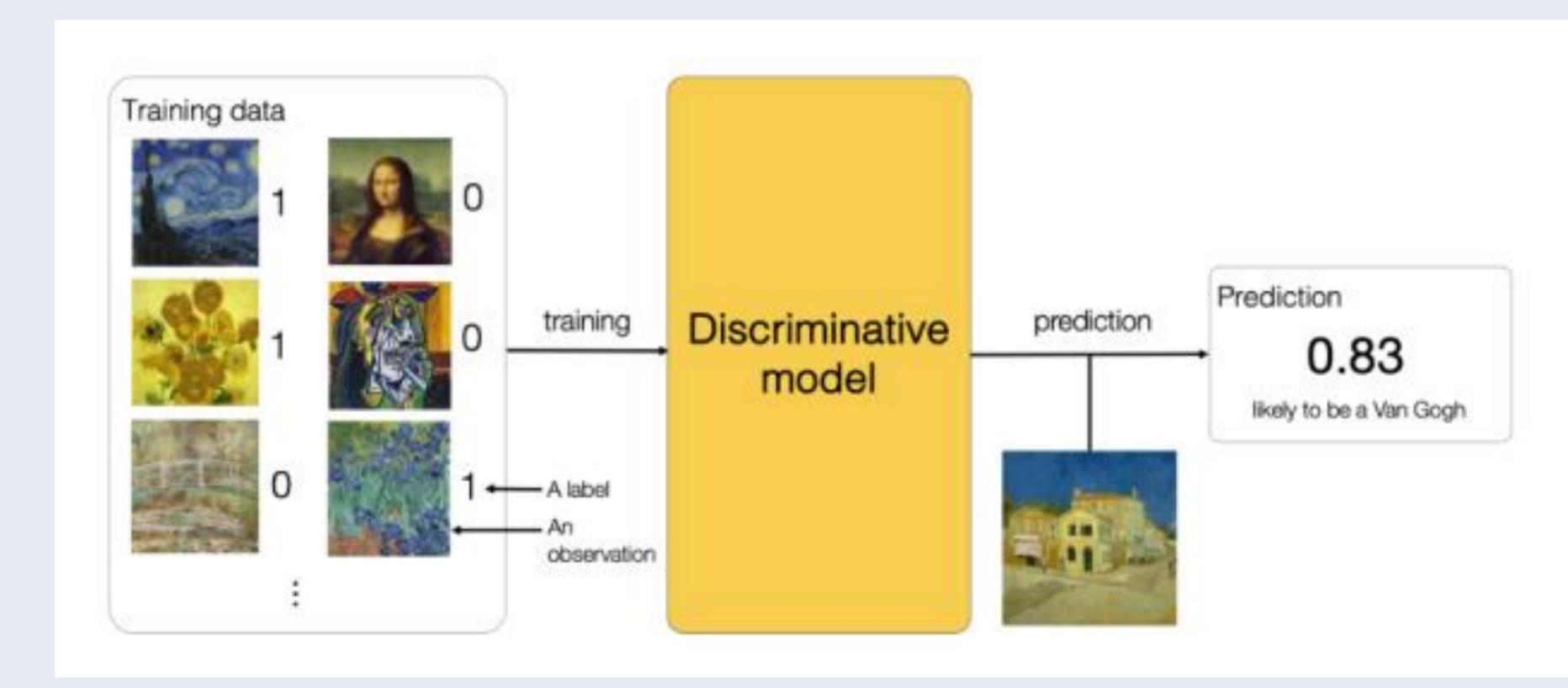
https://www.midjourney.com/

https://bard.google.com/

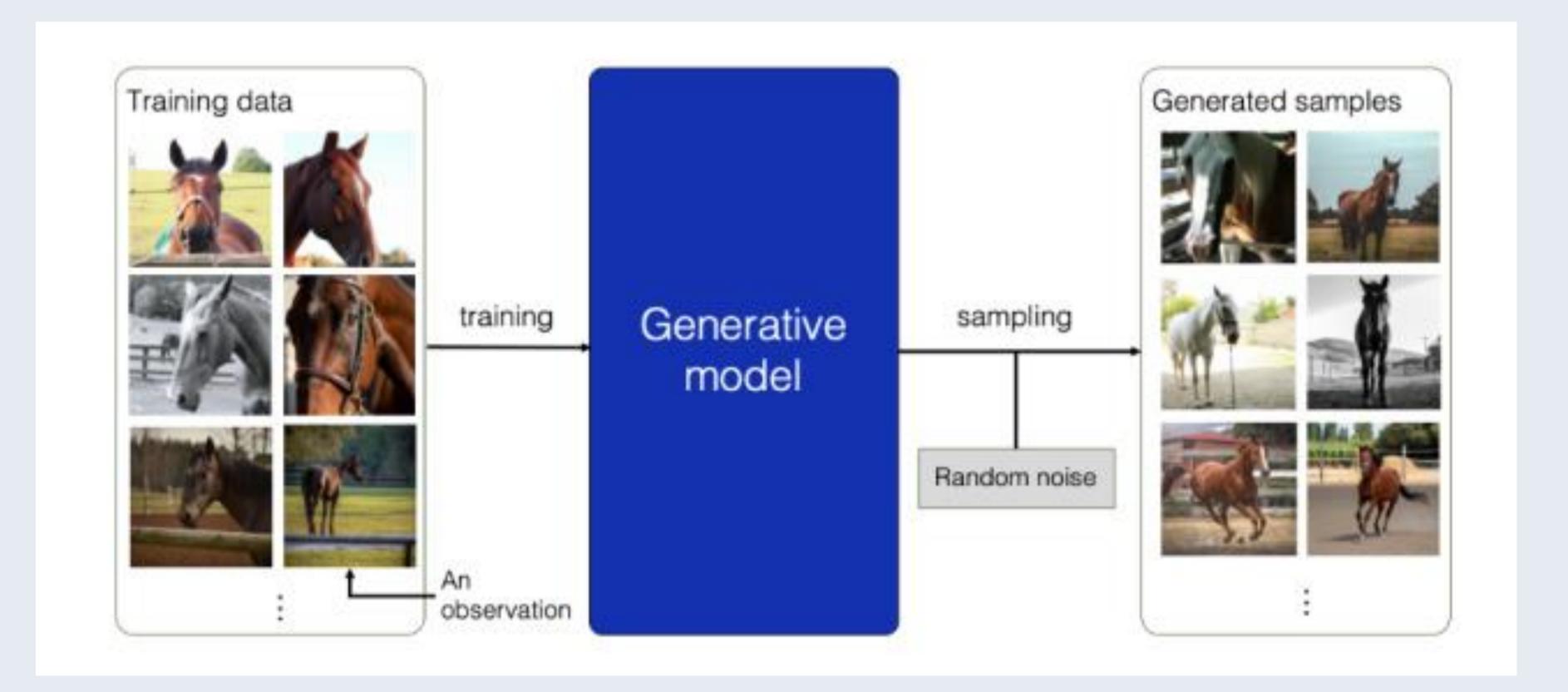
https://stablediffusionweb.com/

https://openai.com/product/dall-e-2

판별모델링(Discriminative Modeling)



생성모델링(Generative Modeling)



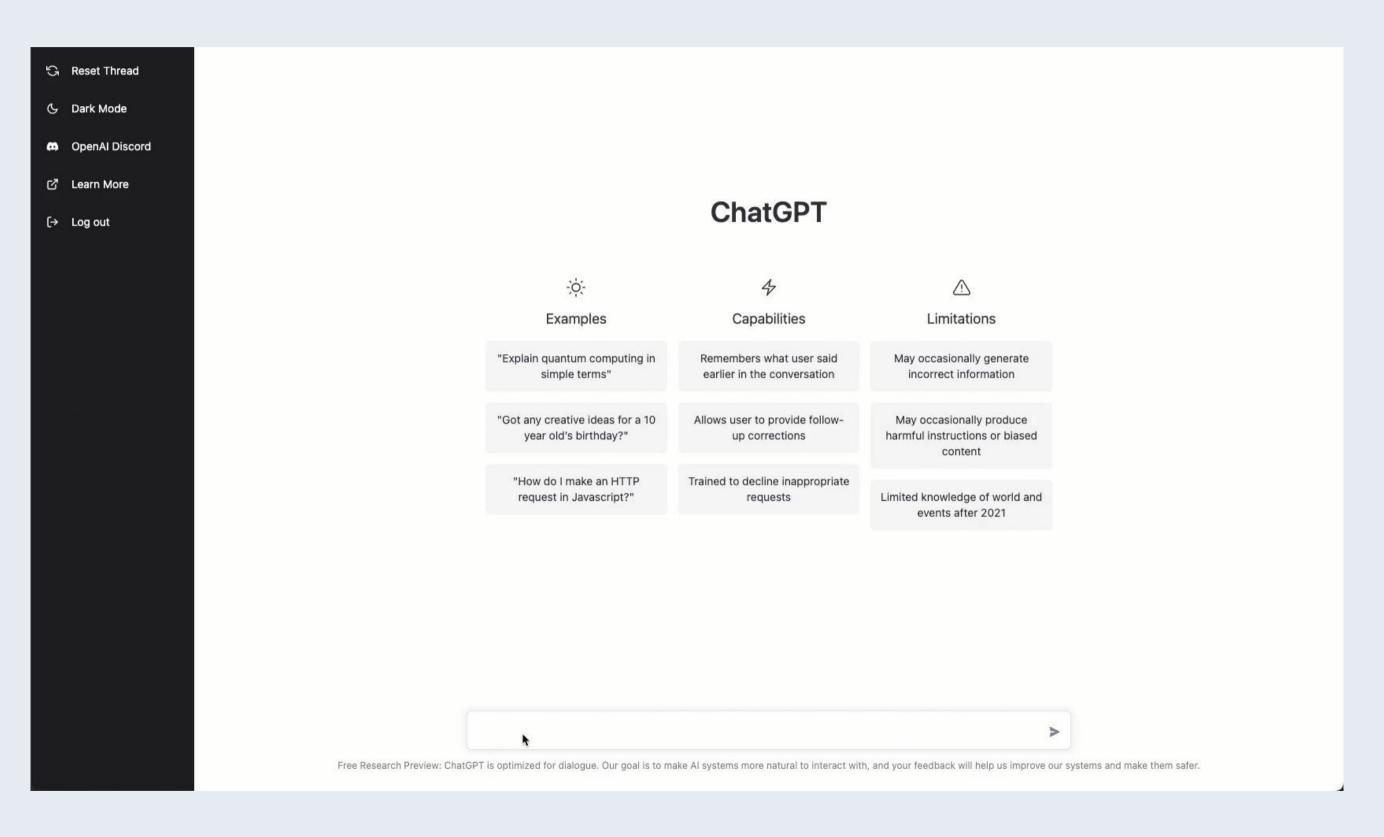
생성형 모델의 등장



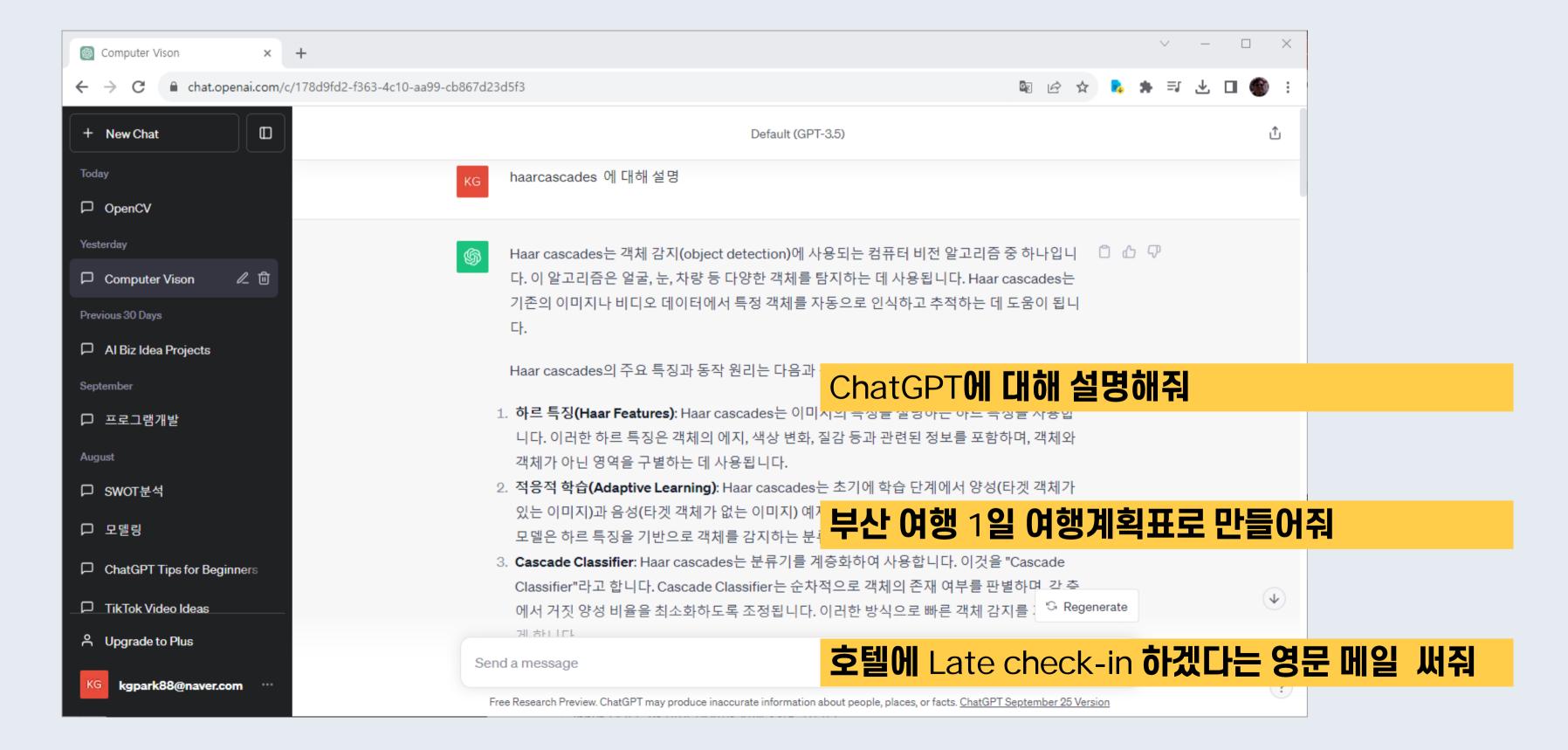
ChatGPT

https://chat.openai.com/

텍스트 이해 질문에 대한 답변 콘텐츠 생성 리스트 생성 코드 작성/디버깅 장단점 비교 제시 교육 지원 창의적인 글쓰기 아이디어 기획 번역 단계별 지침 제공 가상 비서 역할



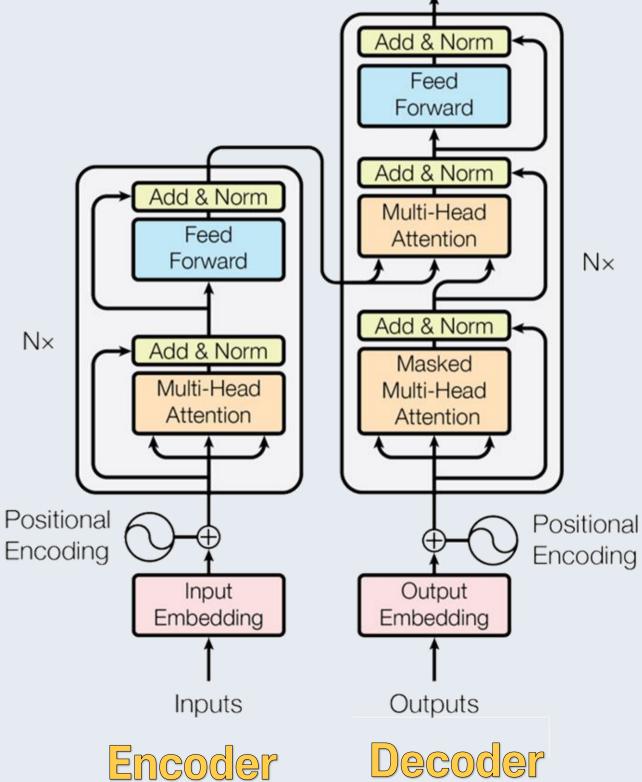
ChatGPT



GPT

Generative

GPT = Pre-trained Transformer



Transformer

Output

Probabilities

Softmax

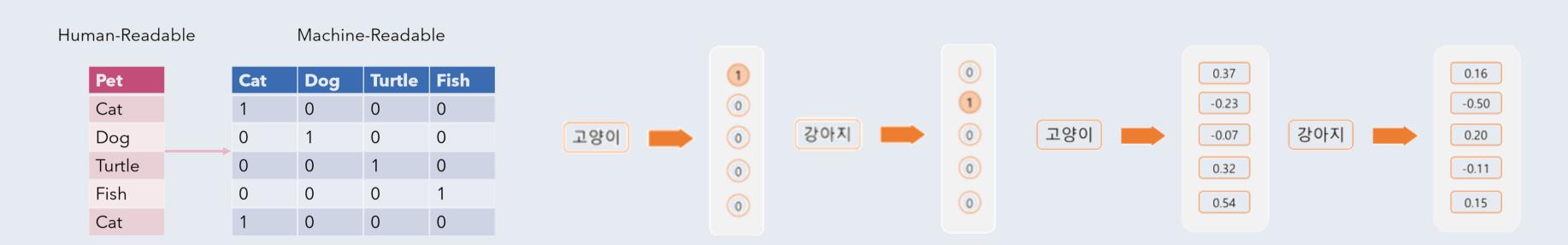
Linear

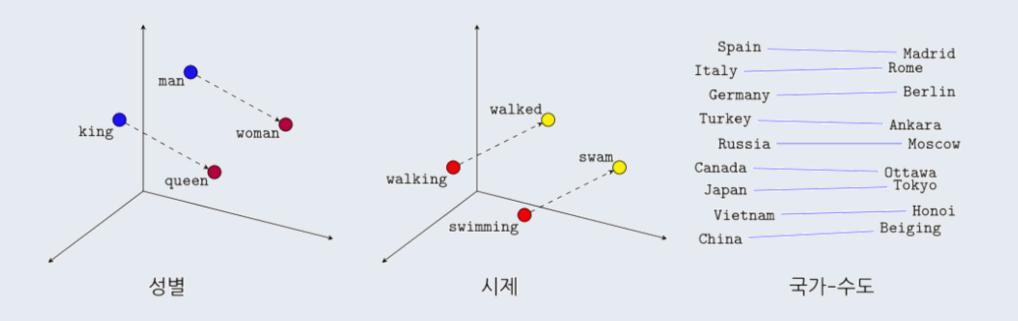
임베딩(Embedding)

원핫 인코딩(one hot encoding)

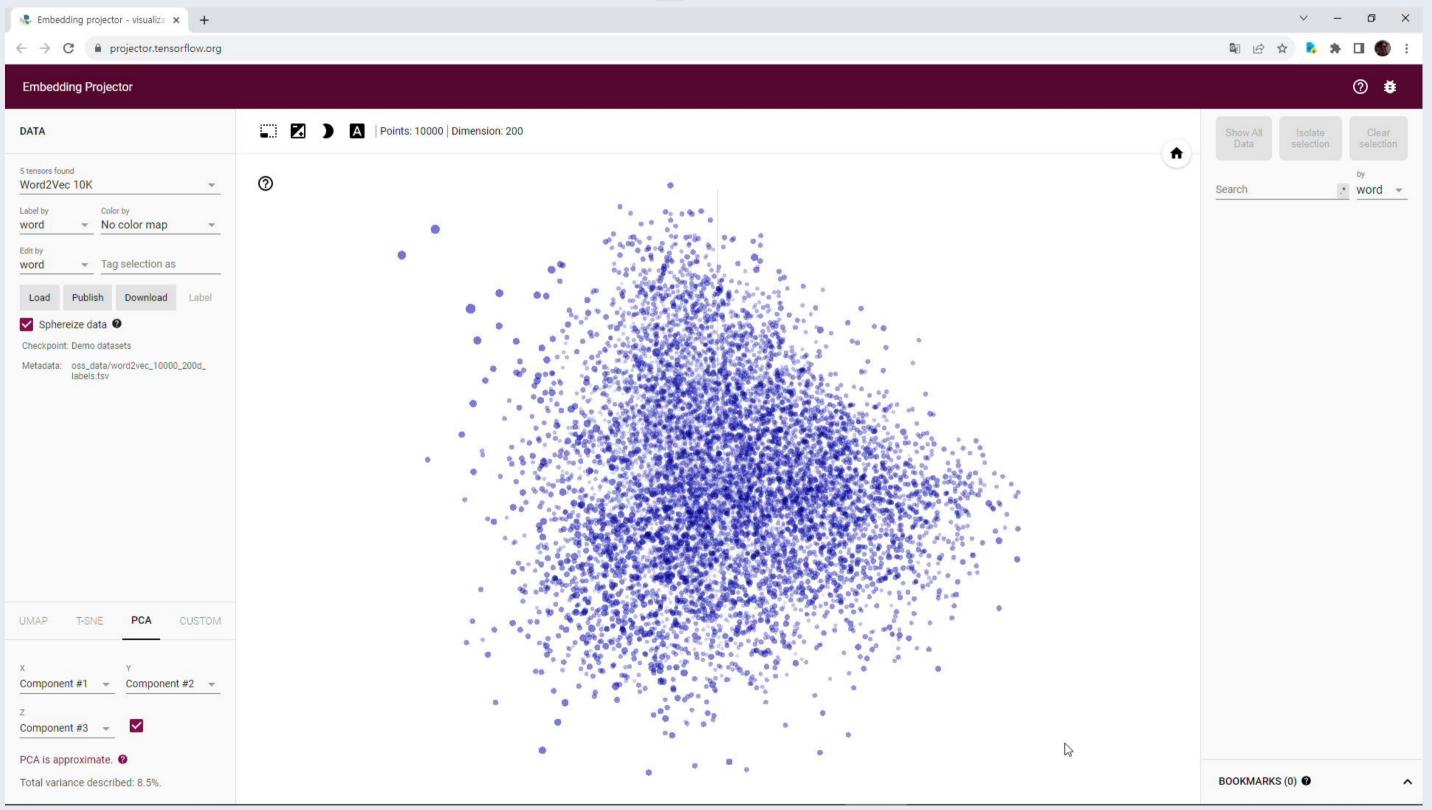
희소표현(sparse representation)

밀집표현(distributed representation)





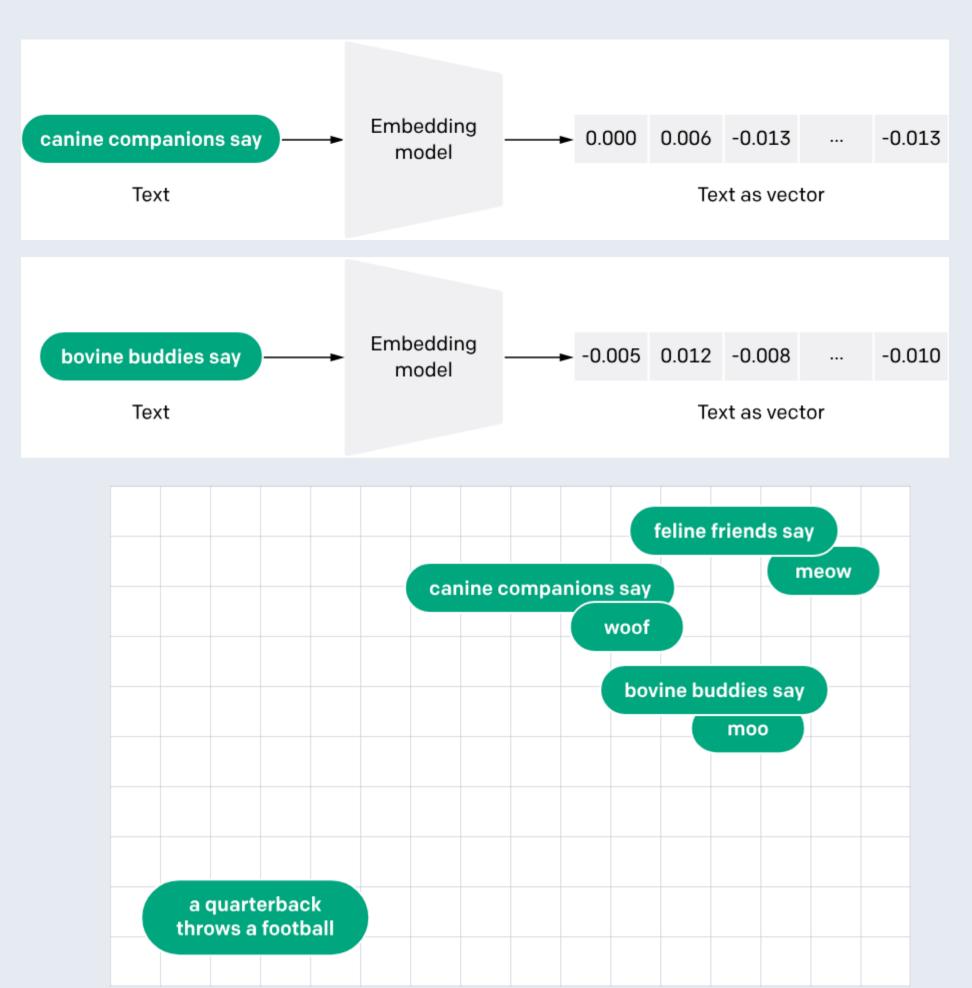
임베딩(Embedding)



출처: https://projector.tensorflow.org/

임베딩(Embedding)

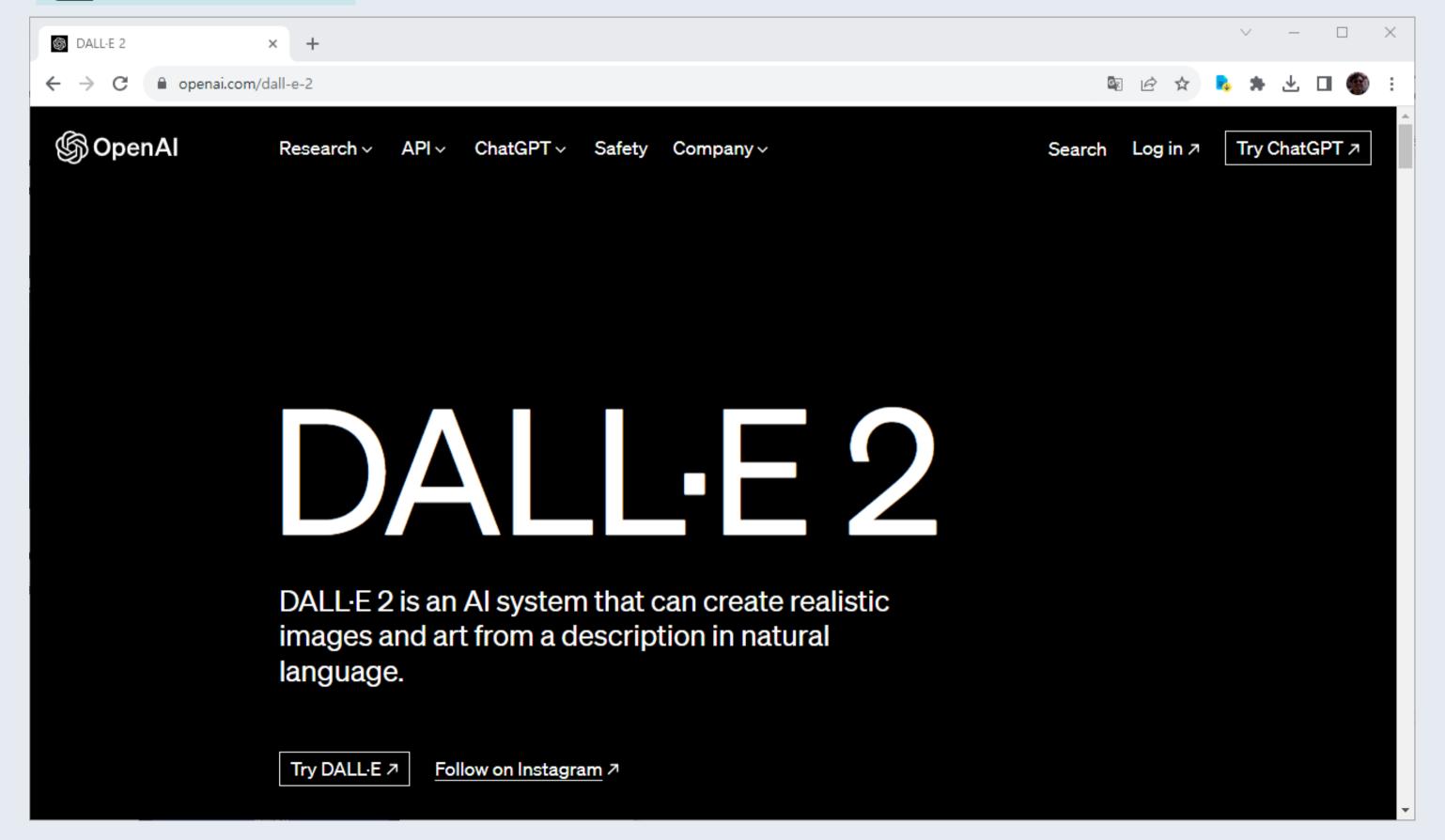
```
import openai
response = openai.Embedding.create(
   input="canine companions say",
   engine="text-similarity-davinci-001")
print(response)
  "data":
      "embedding": [
       0.000108064,
       0.005860855,
        -0.012656143,
        -0.006642727,
       0.002583989,
        -0.012567150
      "index": 0,
      "object": "embedding"
  "model": "text-similarity-davinci-001",
  "object": "list"
```



출처 : https://openai.com/blog/introducing-text-and-code-embeddings

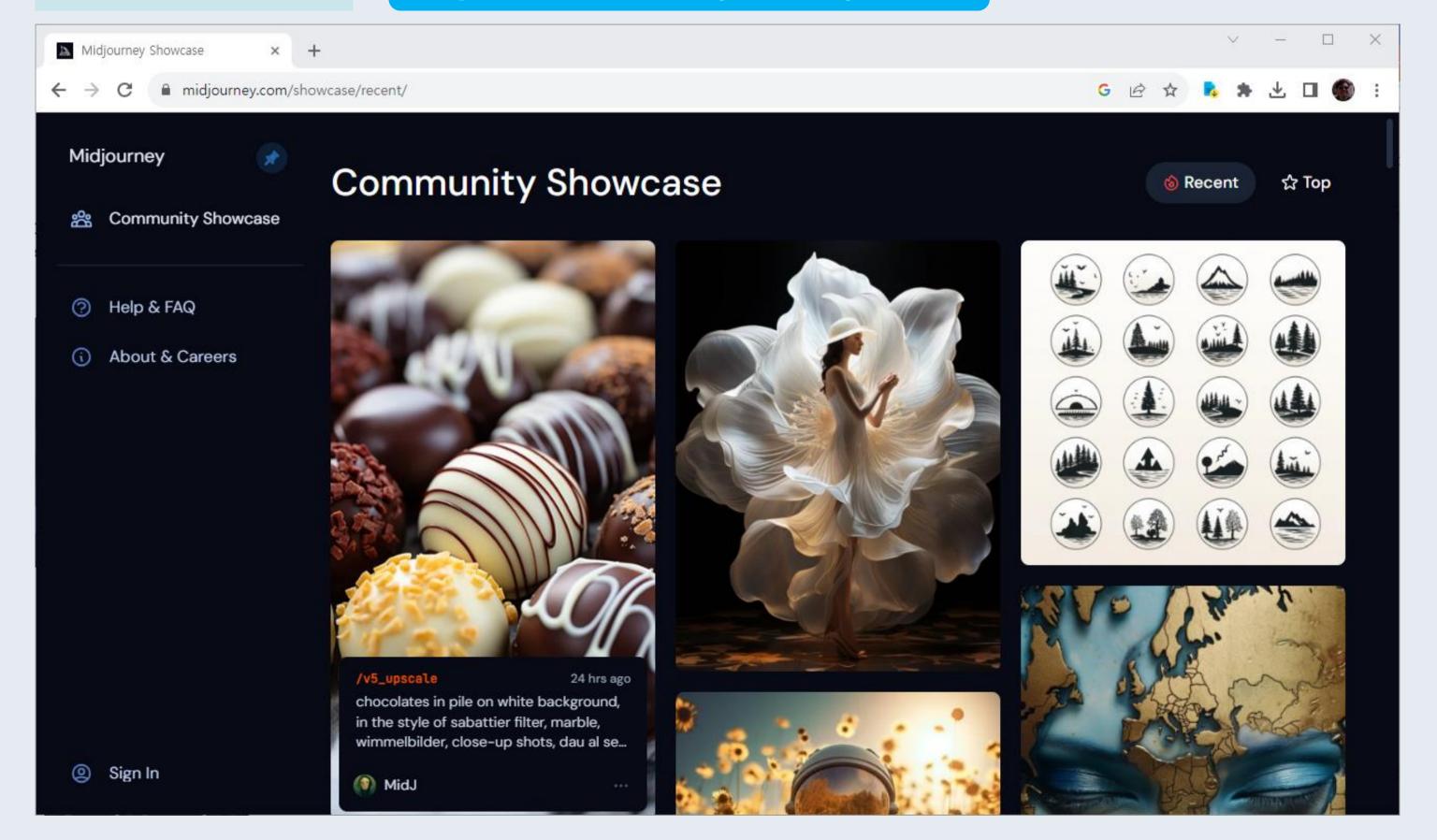


https://openai.com/dall-e-2



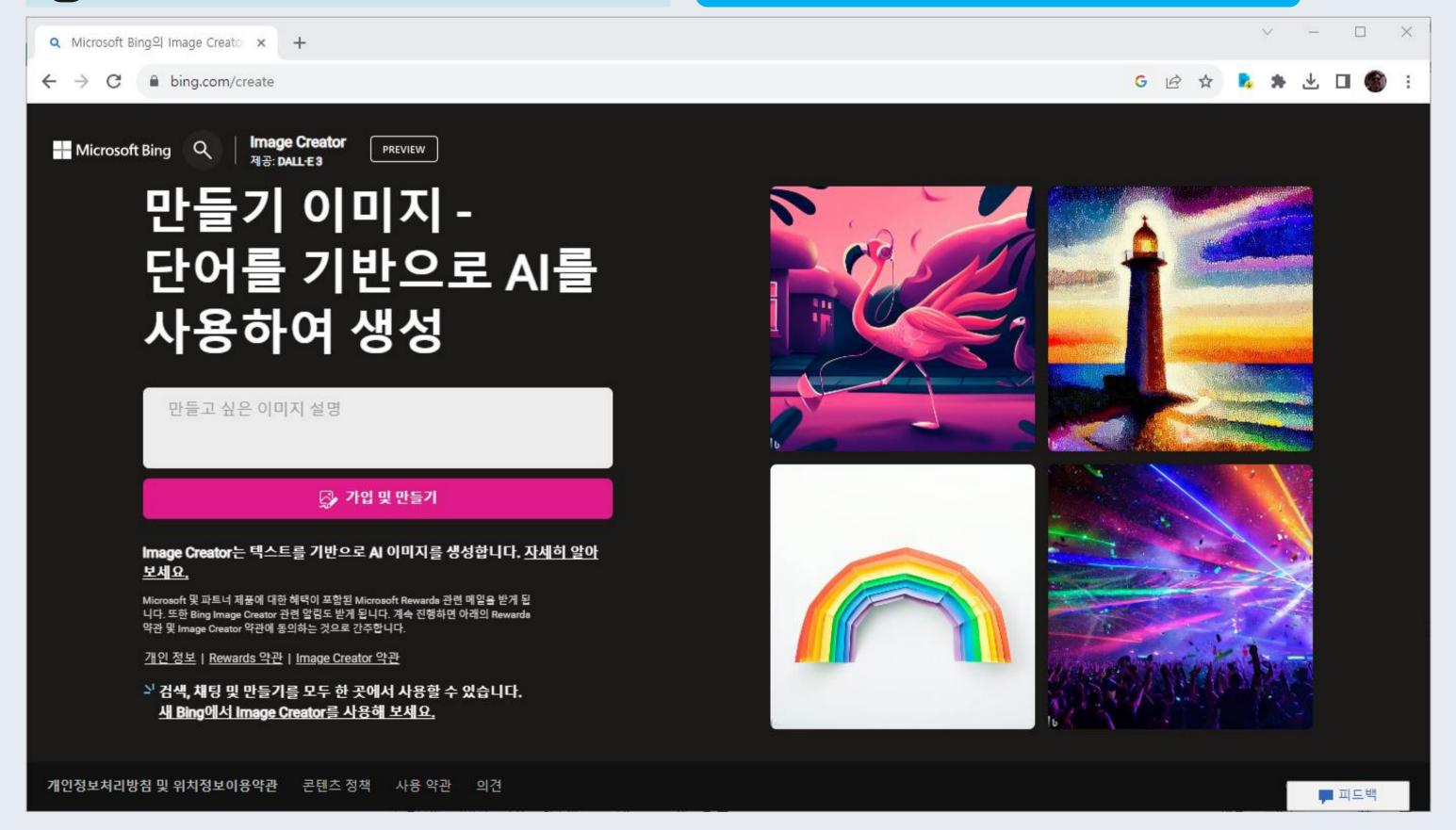
미드저니

https://www.midjourney.com/

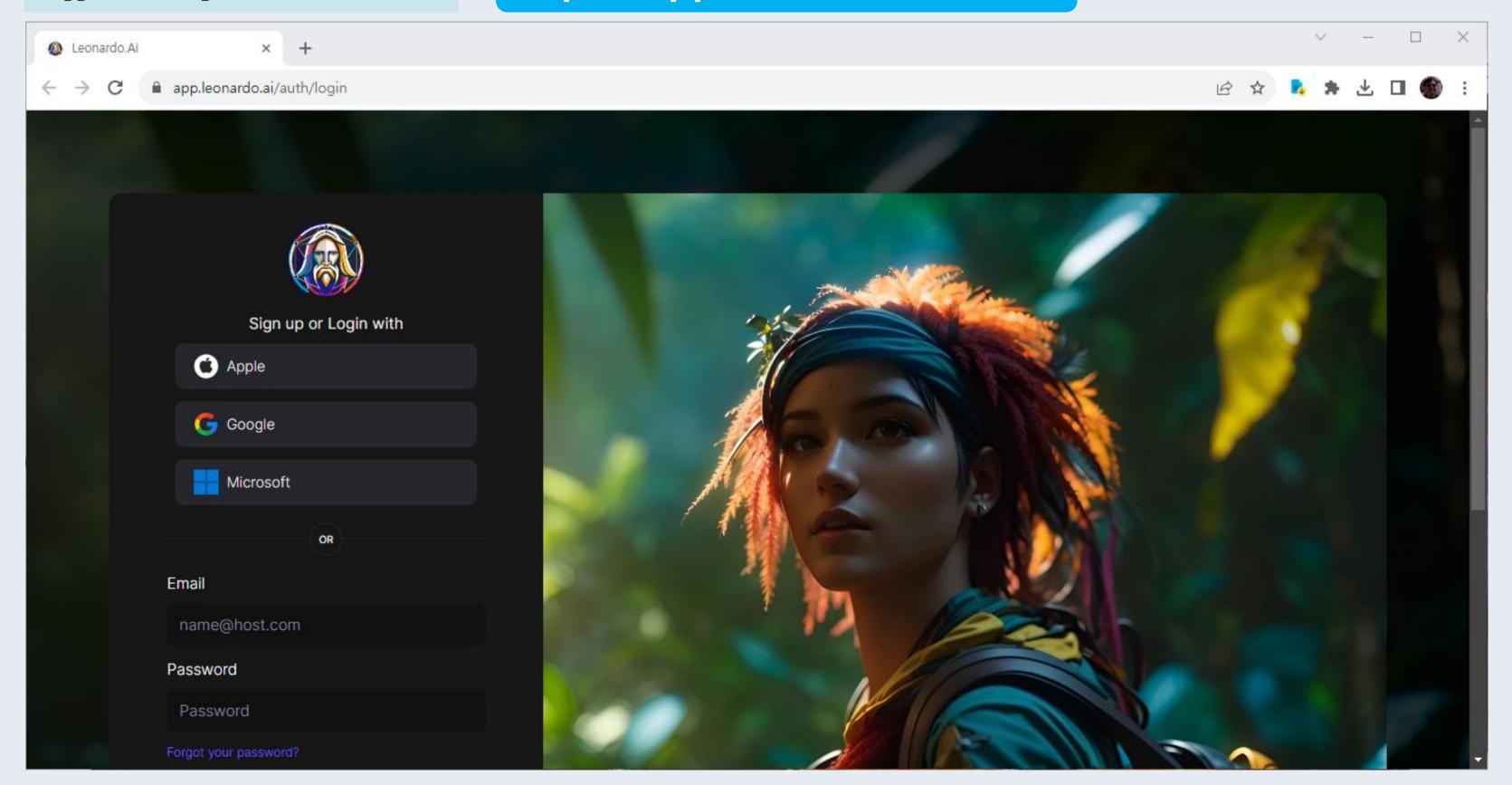


빙 이미지 크리에이터

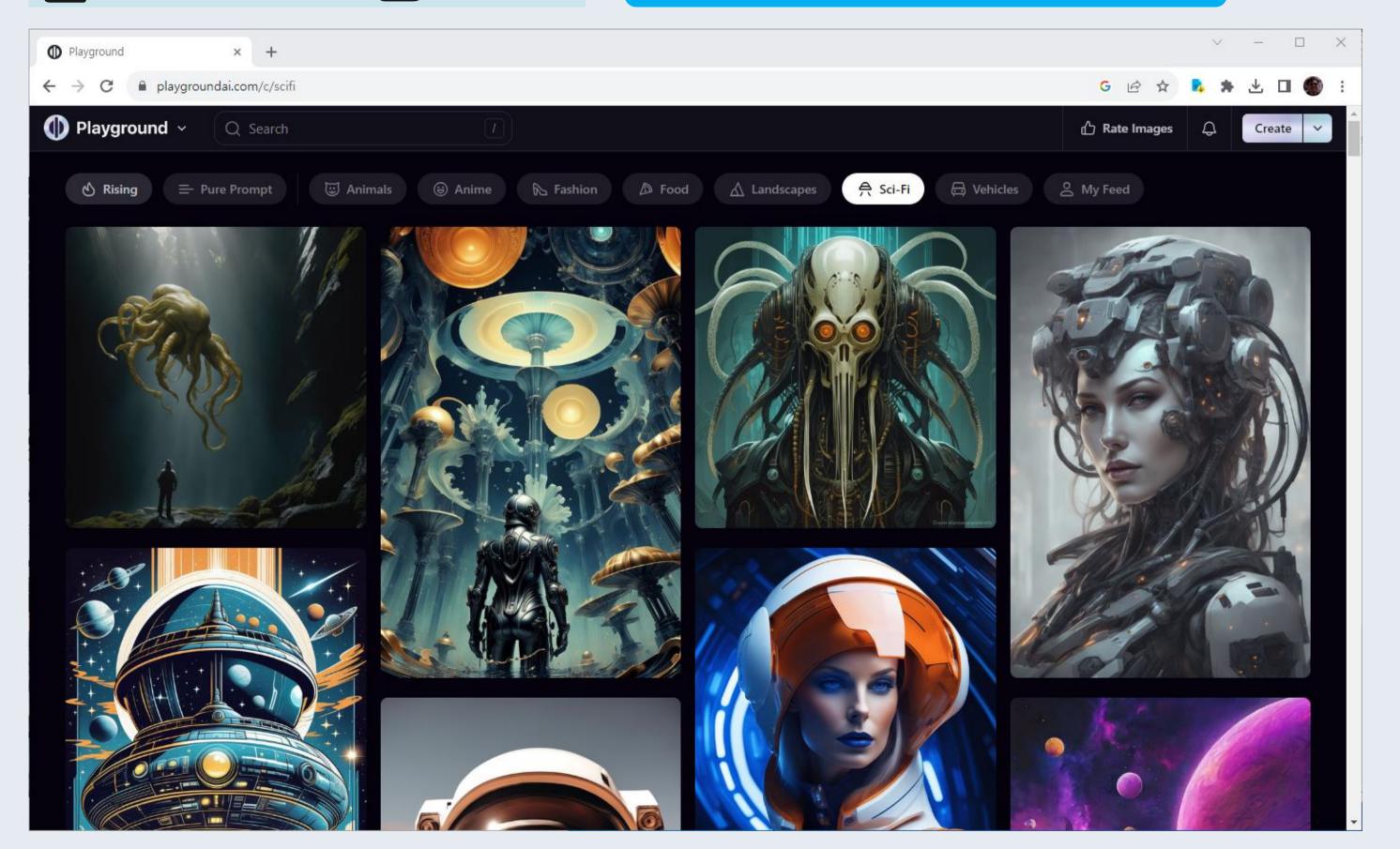
https://www.bing.com/create



레오나르드 AI https://app.leonardo.ai/



플레이그라운드위I https://playgroundai.com/



Generative Al Reshaping the future

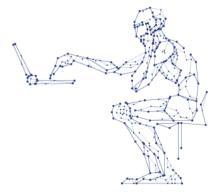


Al foundation models of global knowledge



internal

Al foundation models of enterprise knowledge



Other AI models and frameworks, including near-AGI

Types of AI enablement

Generative Info collection

Generative research

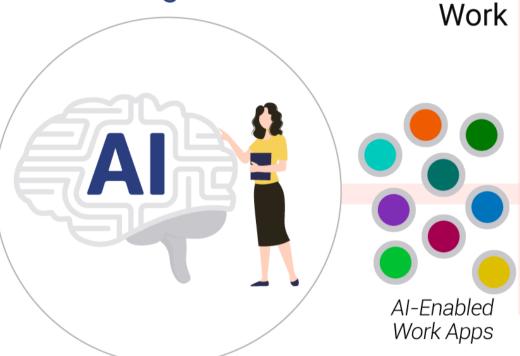
Generative insights

Generative automation

Generative innovation

Generative decisions

AI-Enabled knowledge worker



Strategic

Tactical

Work

Safety

Ethics

Compliance

How Artificial Intelligence will reshape the workplace and employee experience

Pursuing new markets

Enhancing products and services

Designing CX/EX experiences

Imagining new products + processes

Creating + using unique knowledge

Communicating + collaborating

Making better decisions, faster

Optimizing business operations

Business administration

Gathering needed information



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