Generative AI

With Tony



"Madrid in flames as aliens invade the city"

What is Generative AI?

Artificial Intelligence models that **generate** content.
Usually, things like audio, video, or images.

One (relatively) old breakthrough has been in audio or song generation

https://www.youtube.com /watch?v=uSWTSML9hw Y

How does this work?

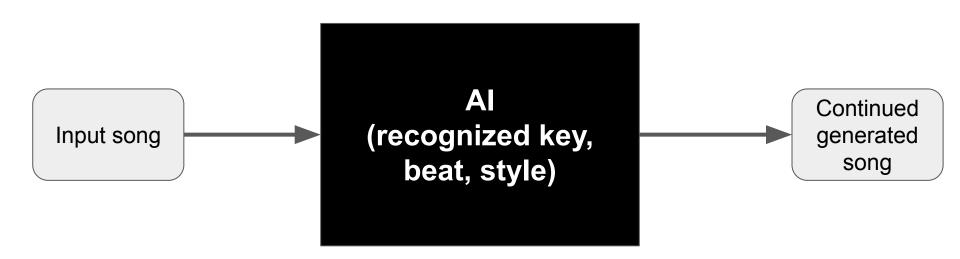
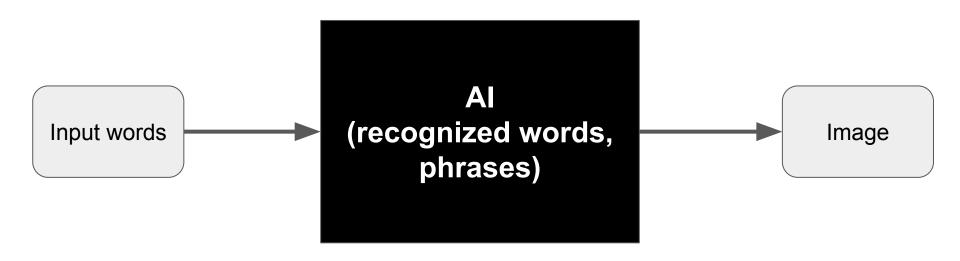
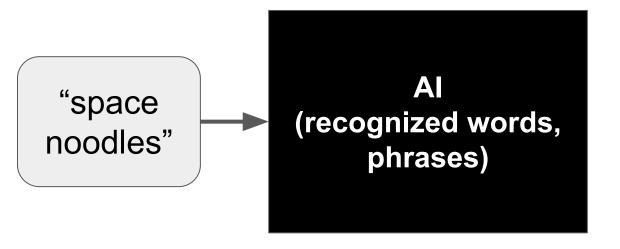


Image Generation Al

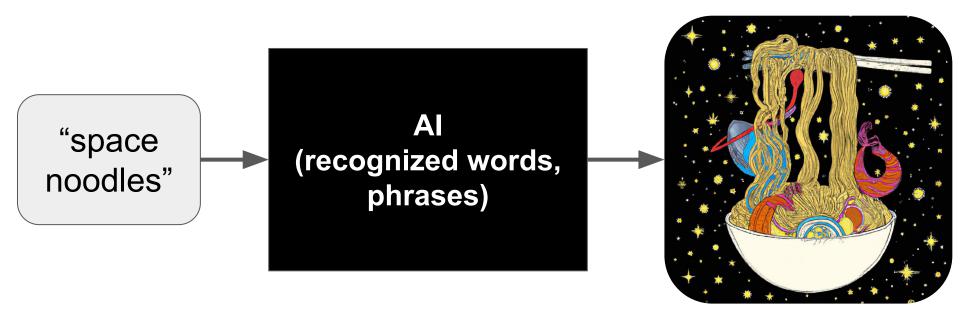
How does this work?



Generative Image Al



Generative Image Al



You need two big parts for this technology

- 1. Natural Language Processing
- 2. Image Labeling

Natural Language Processing

Which is the more likely word in the blank?

A green _____

- (1) A green tree.
- (2) A green person.

Natural Language Processing

Which is the more likely word in the blank?

A green _____

- (1) A green tree.
- (2) A green person.

How do you know?

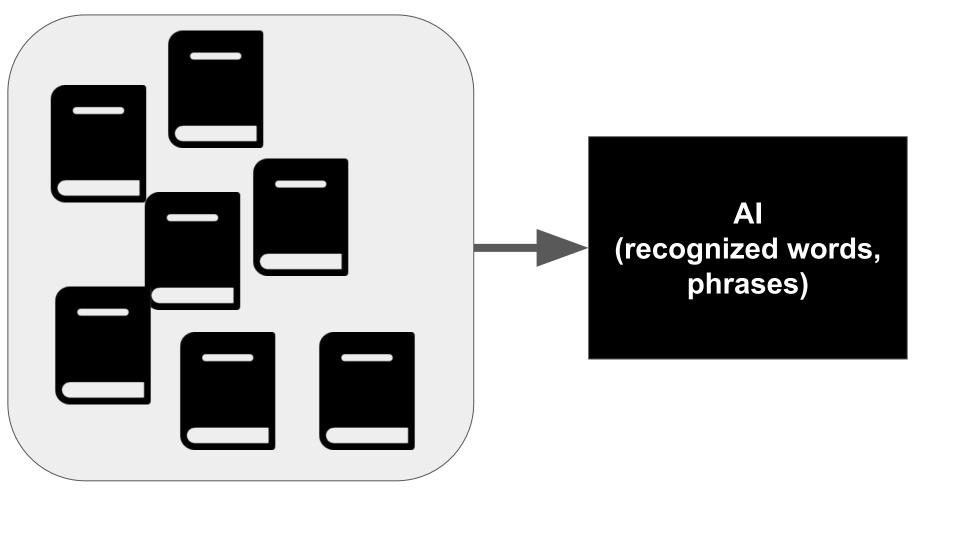
Natural Language Processing

Which is the more likely word in the blank?

A green _____.

- (1) A green tree.
- (2) A green person.

How does a computer know?





man with glasses

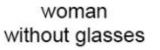


35

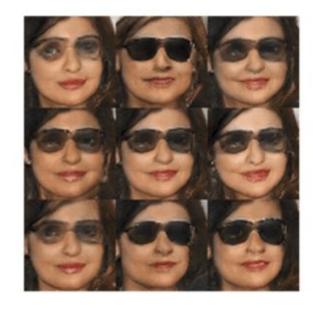
man without glasses







https://analyticsindiamag.com/gans-biggest-breakthrough-in-ai/



woman with glasses

DALL-E 2



a fantasy palace under the sea, photorealistic



an otter wearing a medieval dress, by Johannes Vermeer

Let's Try https://openai.com/dall-e-2/

u5FKWjw

https://www.youtube.com/watch?v=3YNk