



How many planets?

There are eight planets in the solar system.

What's Transflux Conduction?

Sorry, I have no information on Transflux Conduction.



Highly specialized or proprietary topic

## PARAMETRIC KNOWLEDGE



Learned during training



Knowledge cutoff



Expensive to update/extend



Google Transformer 0.05B

OpenAI GPT-2 1.5B

Meta Llama 2 70B

OpenAI GPT-3 175B

Google Palm 2 350B

OpenAI GPT-4 ~1 Trillion

MODEL SIZE

OpenAI GPT-4 ~1 Trillion

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Embedding vector

Embedding Model

0.02

1.34

0.34

2.94

OpenAI Embedding Ada-001

OpenAI Embedding Ada-002

OpenAI Embedding Ada-003

OpenAI Embedding Ada-004

OpenAI Embedding Ada-005

OpenAI Embedding Ada-006

OpenAI Embedding Ada-007

OpenAI Embedding Ada-008

OpenAI Embedding Ada-009

OpenAI Embedding Ada-010

## SENTENCE SIMILARITY

Closer vectors represent similar sentences

"The impact of rising temperatures on the Arctic ecosystem..."

"The repercussions of environment warming on polar bear habitats..."

"Combating urban a pollution..."

"Sustainable agriculture in temperate climates."

More accurate embedding

Effective at identifying passages that share semantic connection

LIMITATIONS

Embedding vector

Embedding Model

0.02

1.34

0.34

2.94

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