



# Claude AI from basic to advance





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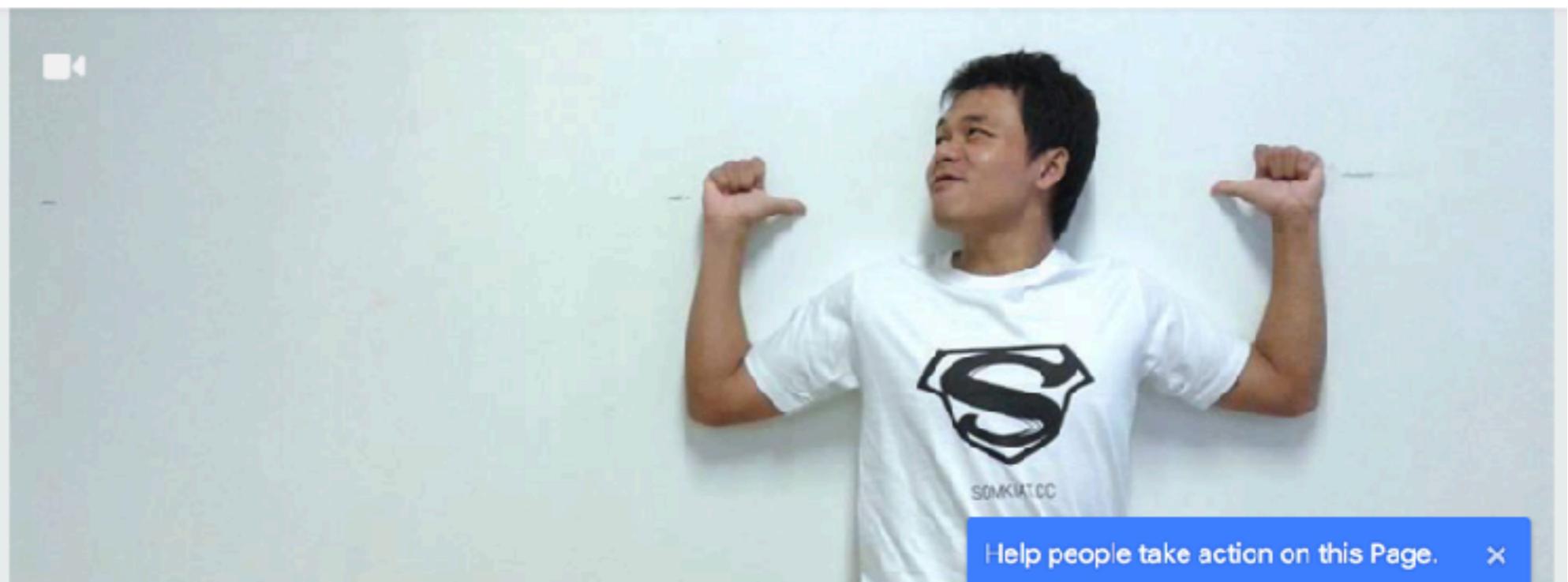
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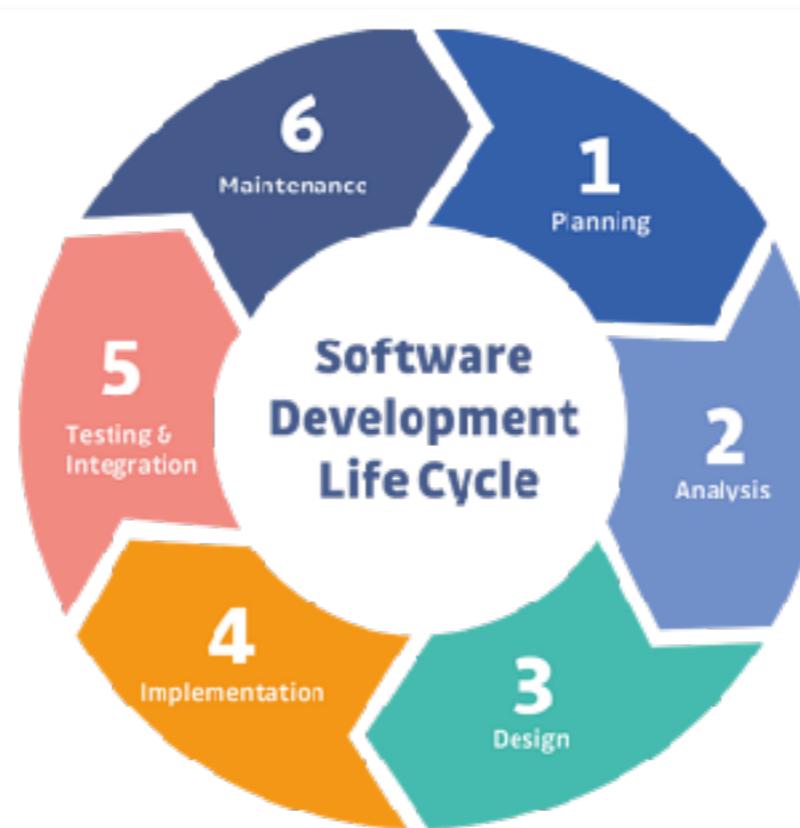
3

**[https://github.com/up1/  
workshop-ai-with-technical-team](https://github.com/up1/workshop-ai-with-technical-team)**



# Goals

Integrate Generative AI in Software Development  
Optimize code quality  
Team up with AI on coding tasks  
Develop innovative solutions



# Software Development

Requirement

Design

Develop

Testing

Deploy

Generative AI

Improve Productivity ... (Replace human !!)



# Learning Path

AI/ML

LLM, SLM

Prompt Engineer

AI in Software development

Develop AI/LLM app

RAG

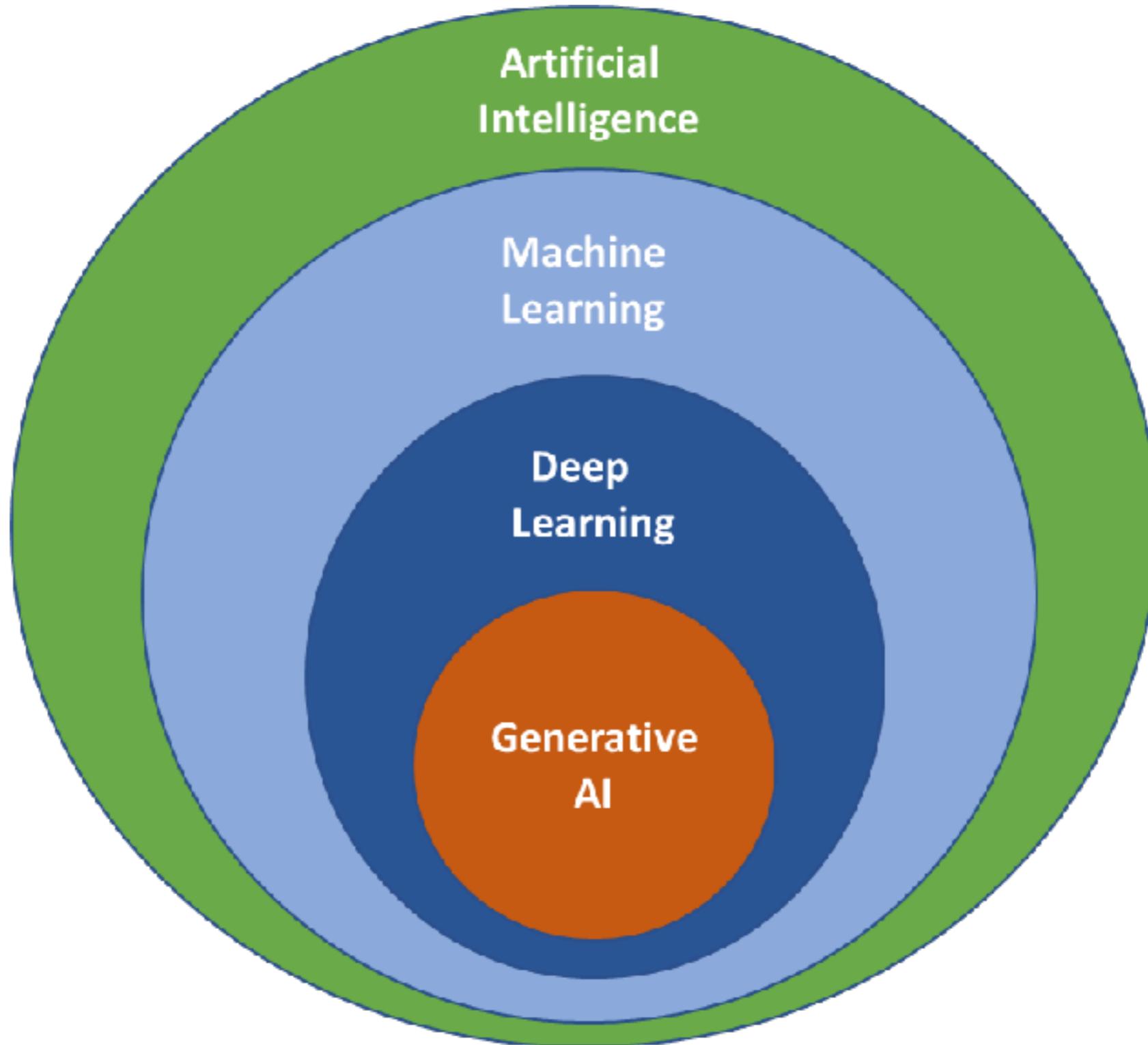
Use cases and workshops with Claude AI

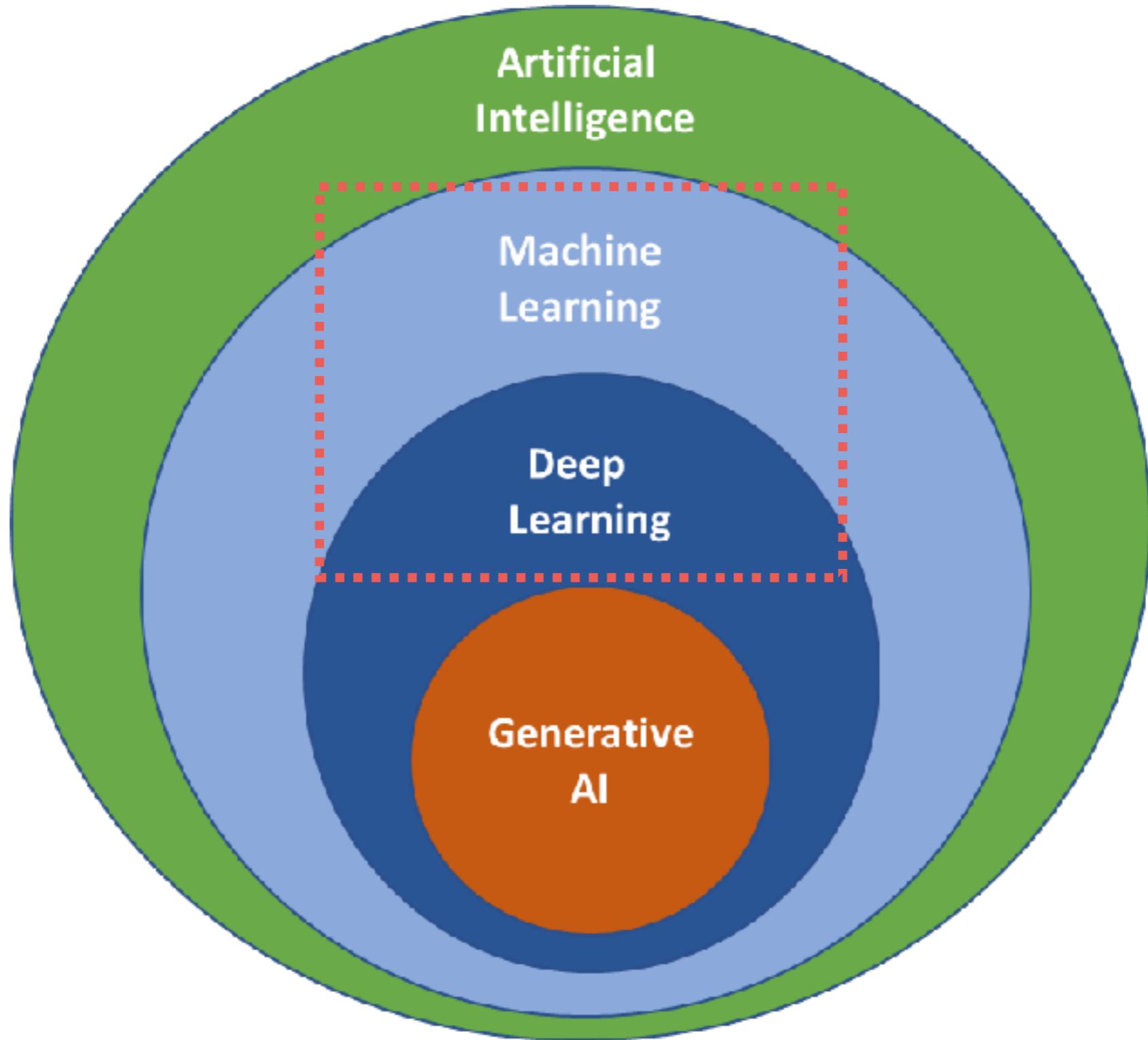


# **Module 1**

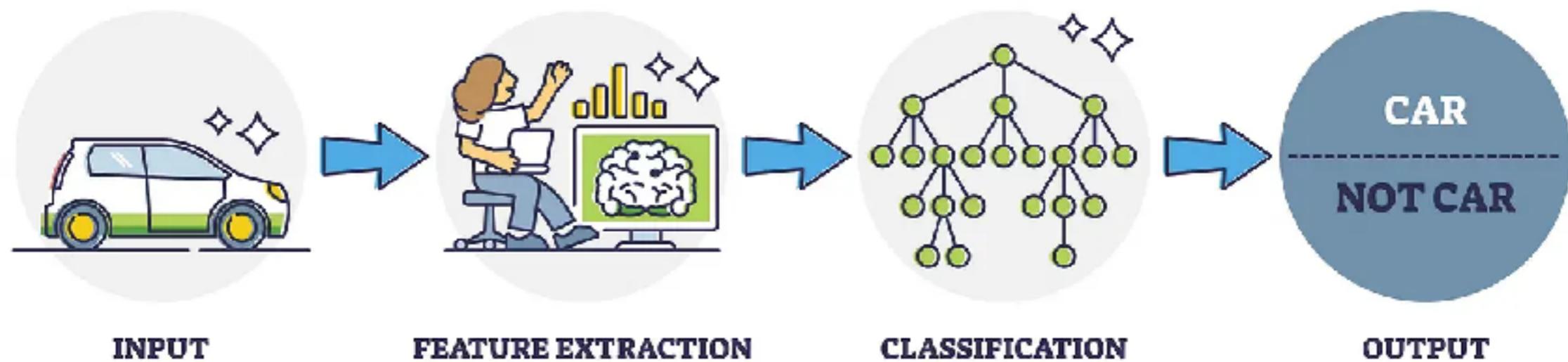
# **AI and Machine Learning (ML)**



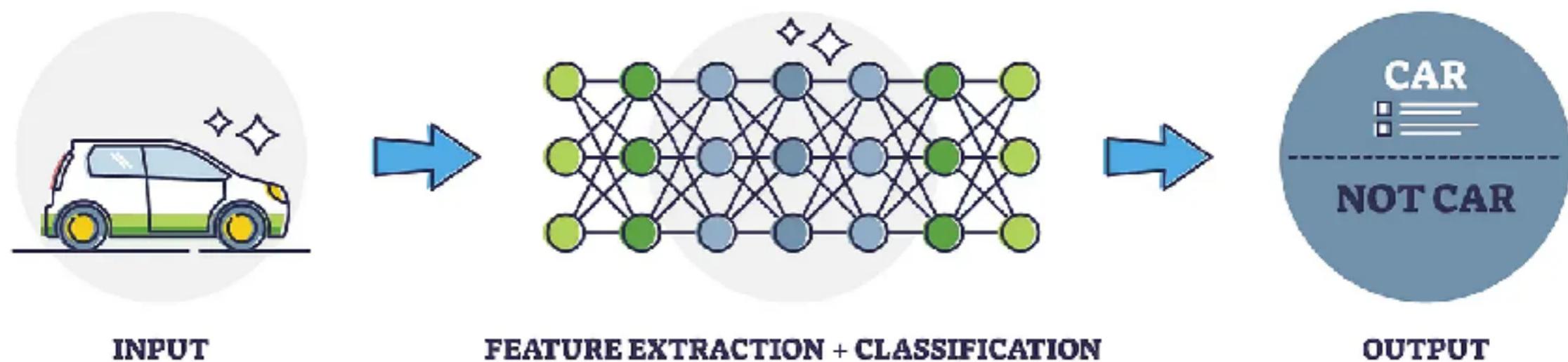




## MACHINE LEARNING

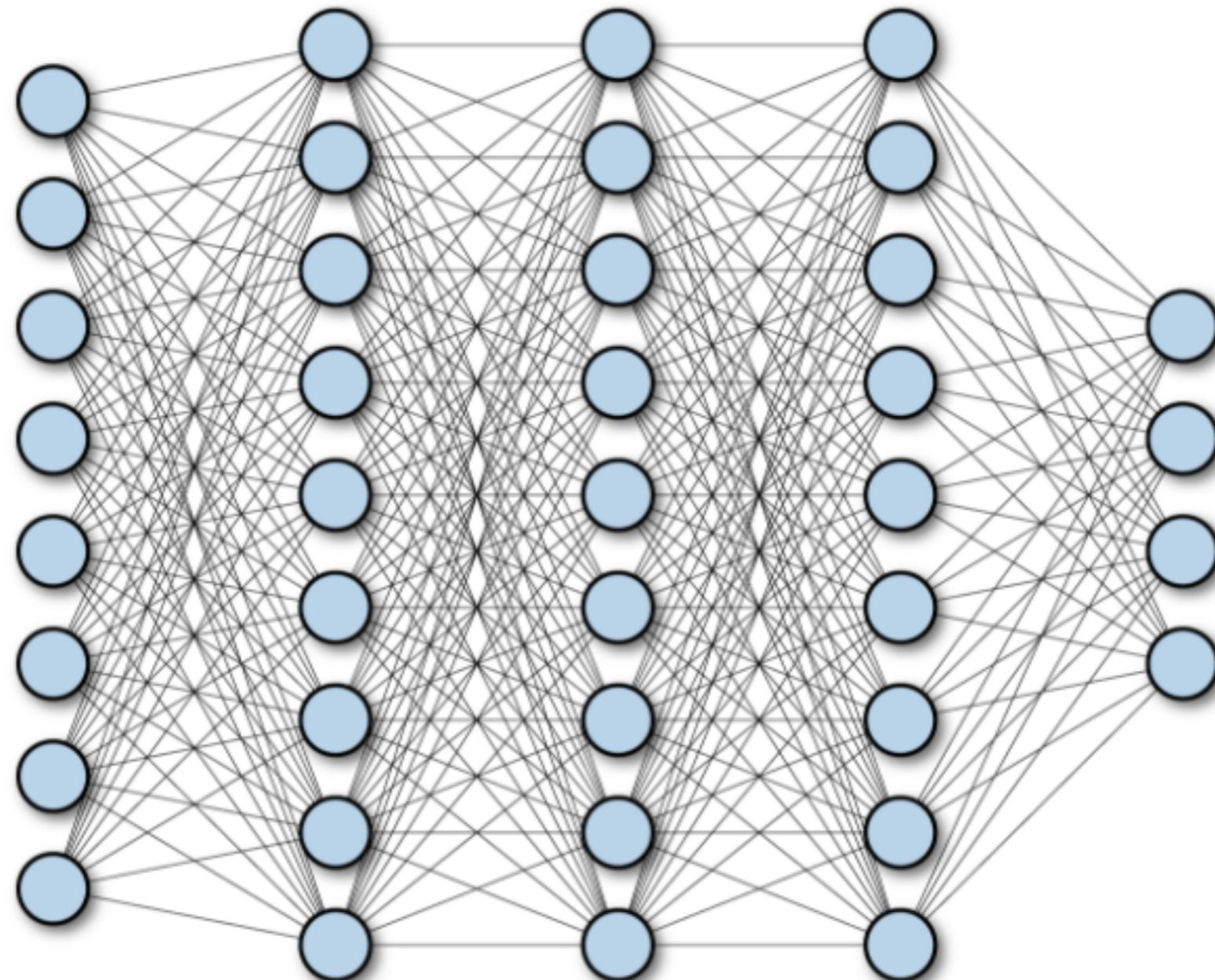


## DEEP LEARNING



AI

# Multilayer Deep Fully Connected Network



# Neural Network !!

**ANN**

**Artificial Neural Network**

**CNN**

**Convolutional Neural Network**

**RNN**

**Recurrent Neural Network**

General purpose

Spatial data

Sequencial data

Variety of data types

Image

Time-series data

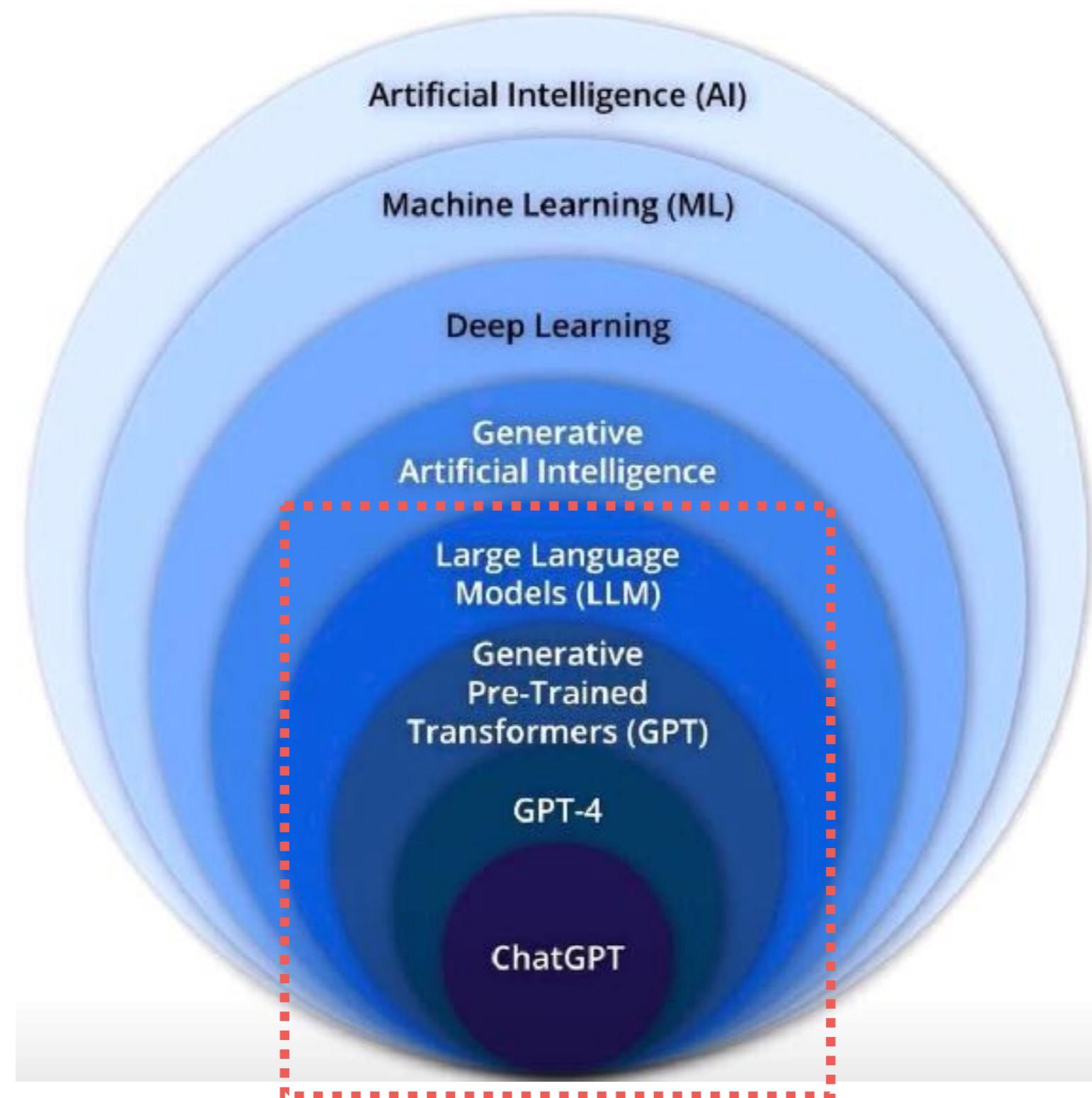
Simple data

Text

**LSTM**

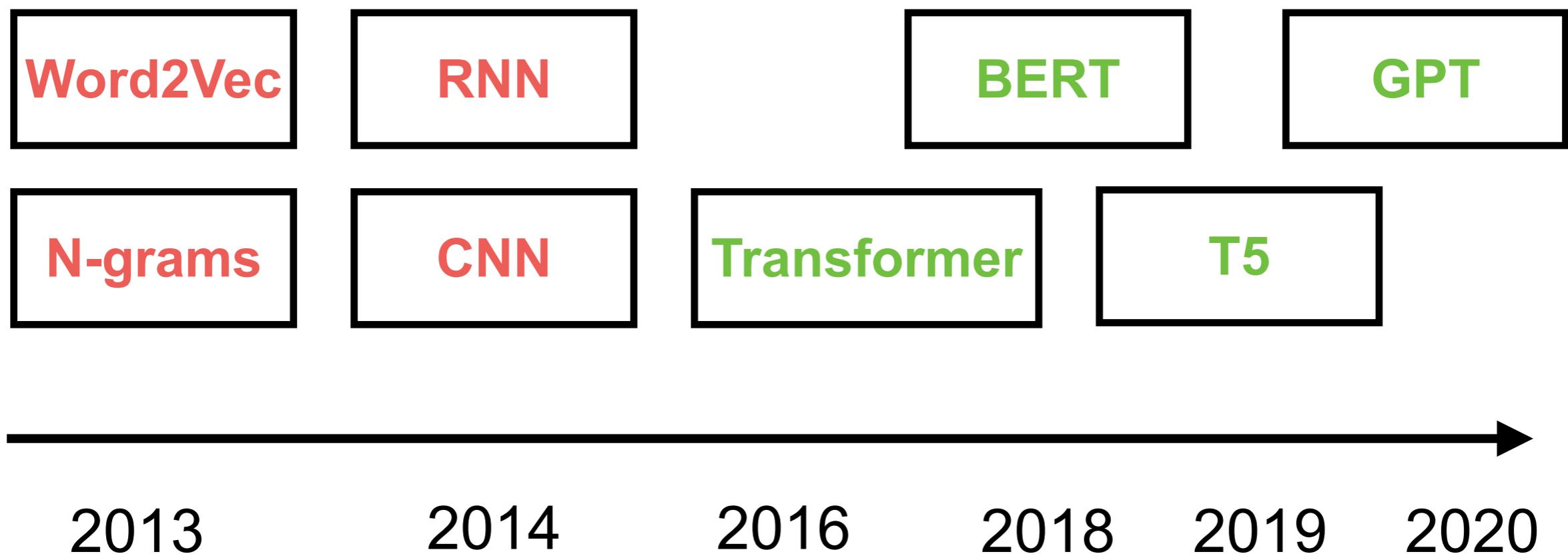
**Long Short-Term Memory**



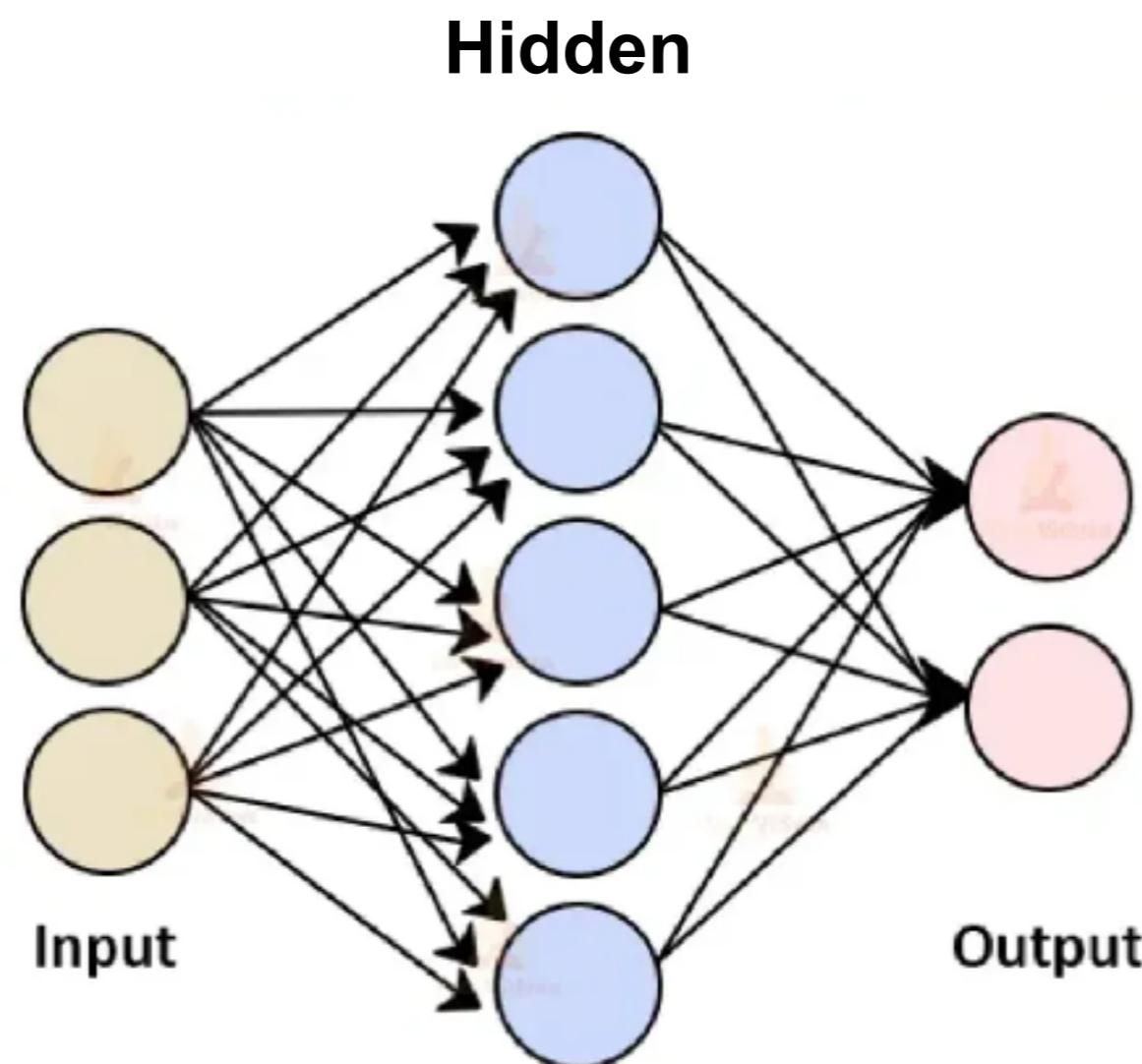


# Language Model History

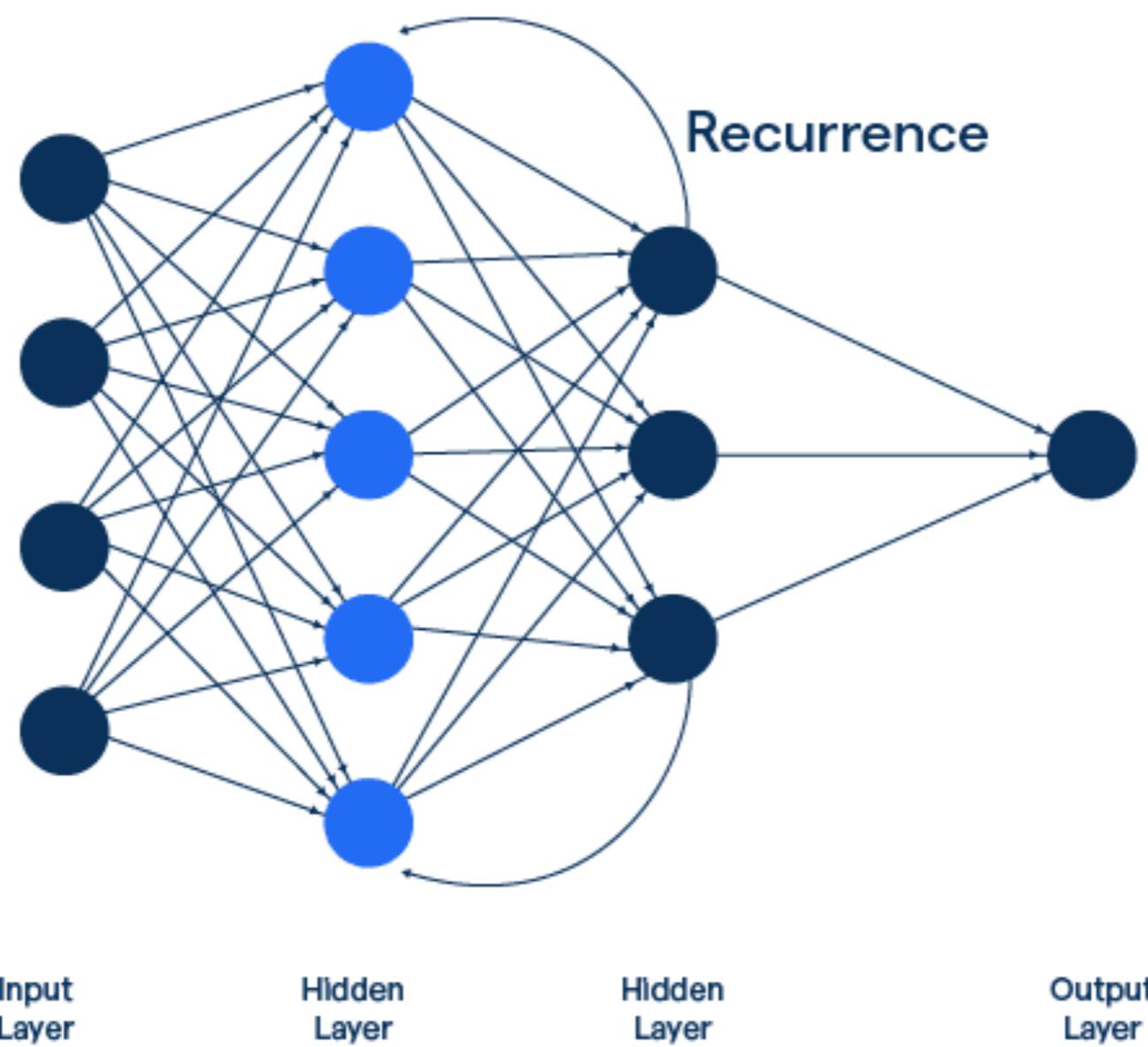
Trained to understand and generate human language



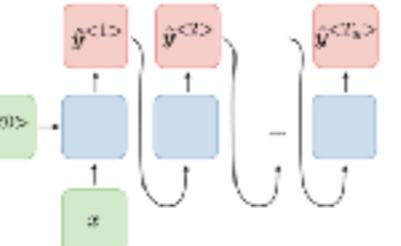
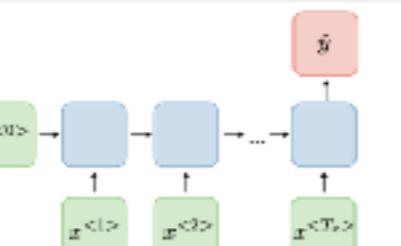
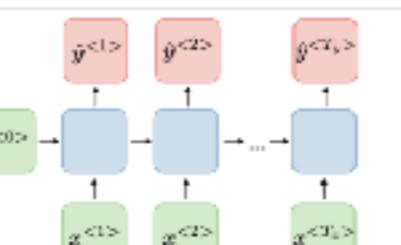
# RNN + LSTM



# Recurrent Neural Network



# Types of RNN

Type of RNN	Illustration	Example
One-to-one $T_x = T_y = 1$		Traditional neural network
One-to-many $T_x = 1, T_y > 1$		Music generation
Many-to-one $T_x > 1, T_y = 1$		Sentiment classification
Many-to-many $T_x = T_y$		Name entity recognition
Many-to-many $T_x \neq T_y$		Machine translation

<https://aman.ai/primers/ai/dl-comp/>



# **How to apply RNN/LSTM in NLP (Natural Language Processing) task ?**



# How NLP Works

The machine responds with an audio file



A human talks to the machine



Data-to-audio conversion occurs



The machine captures the audio



The machine processes the text's data

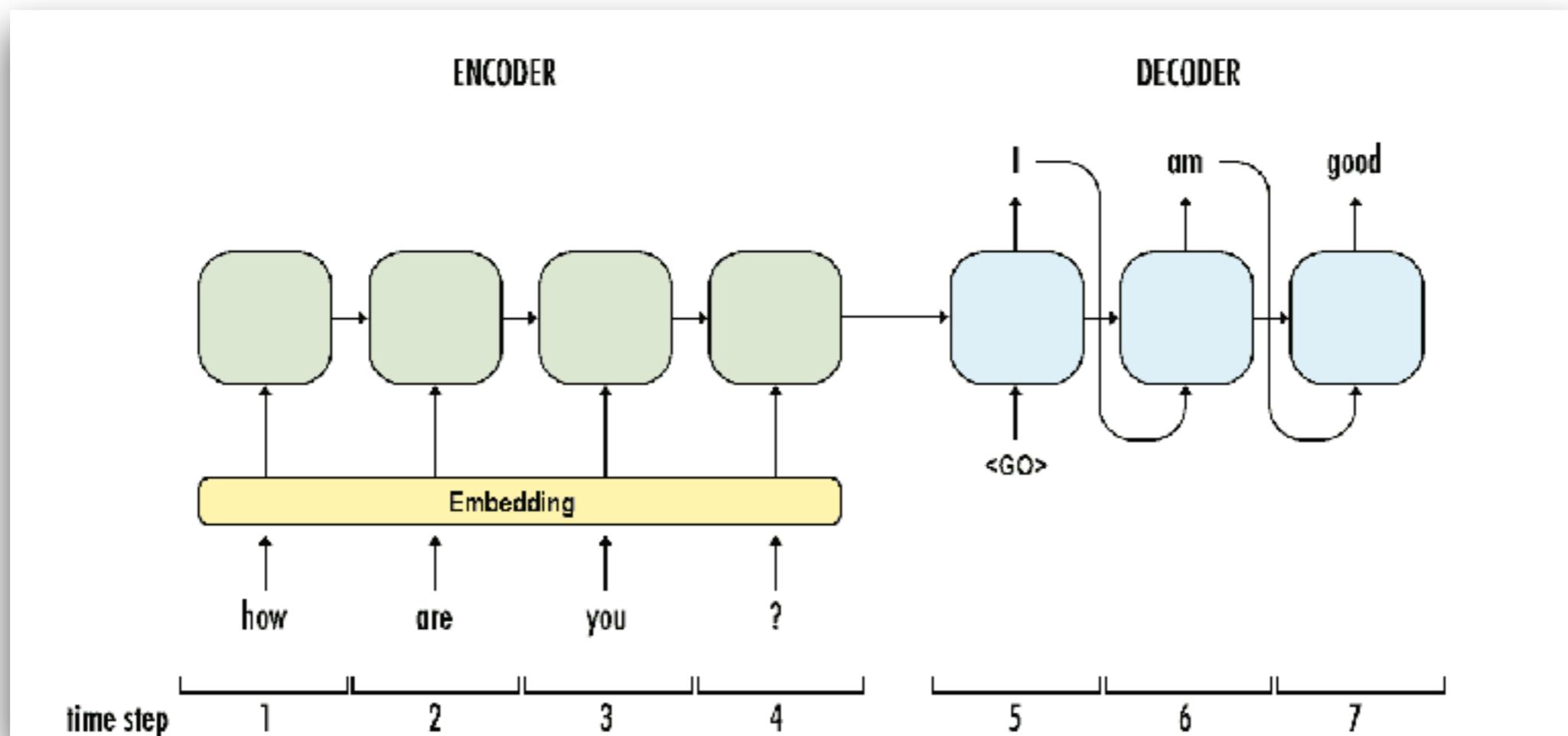


Audio-to-text conversion takes place



# Sequence-to-Sequence model

Encoder-decoder model  
Convert to **fixed length vector** data



# Problems with RNN ?

**Long input data**

**Not sequence data**

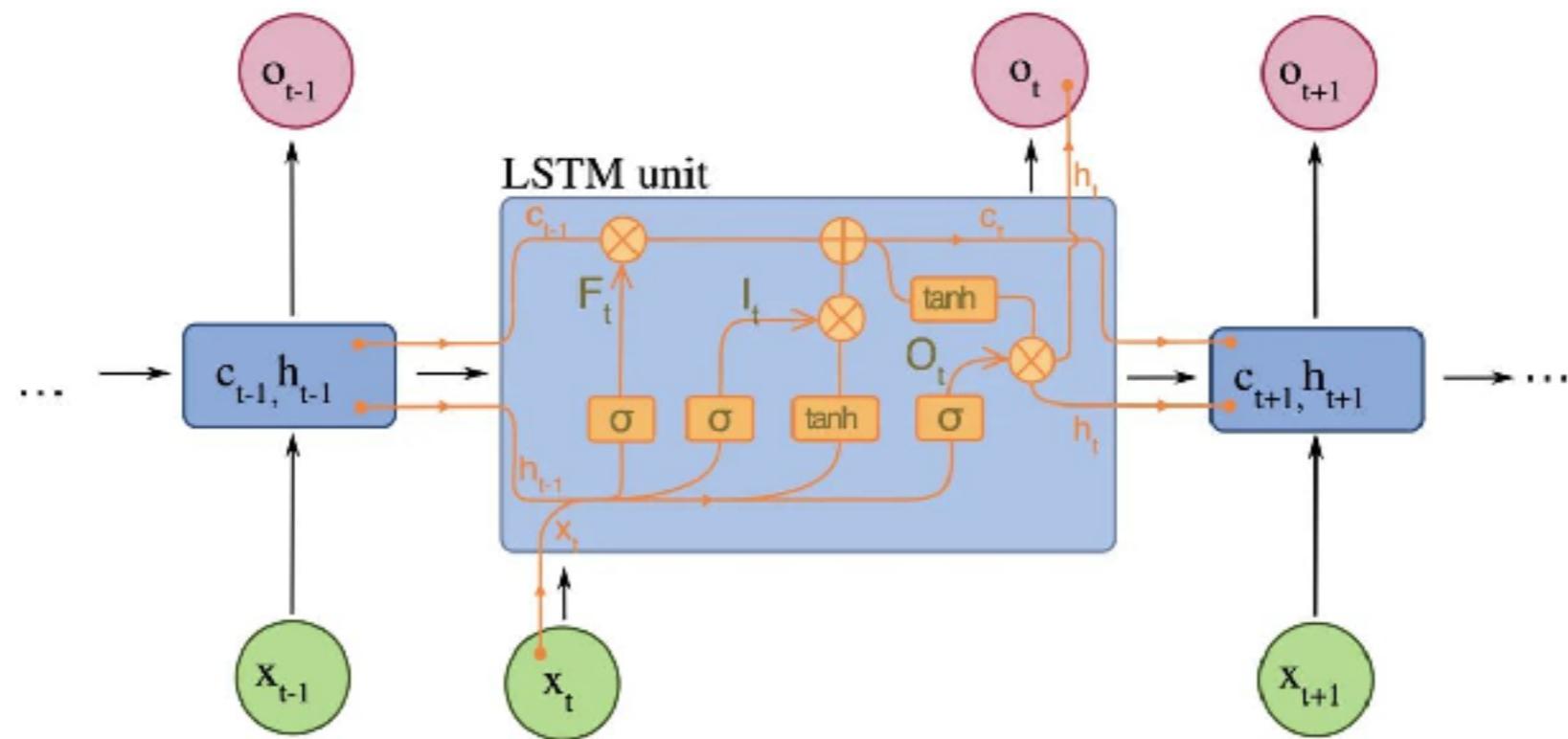
**Slow to train  
(sequential processing)**

<https://jinglescode.github.io/2020/05/27/illustrated-guide-transformer/>



# LSTM

Improve memory and deal with longer sequences than RNN



Slow

Complex



# **Drawback of RNN encoder-decoder**

**Fixed-length vector !!**



# Can't store large information



**Different sentence with similar words  
BUT with different meanings !!**



# Attention Mechanism

Improve performance of encoder-decoder

BUT still have bottleneck with RNN

<https://arxiv.org/pdf/1409.0473>

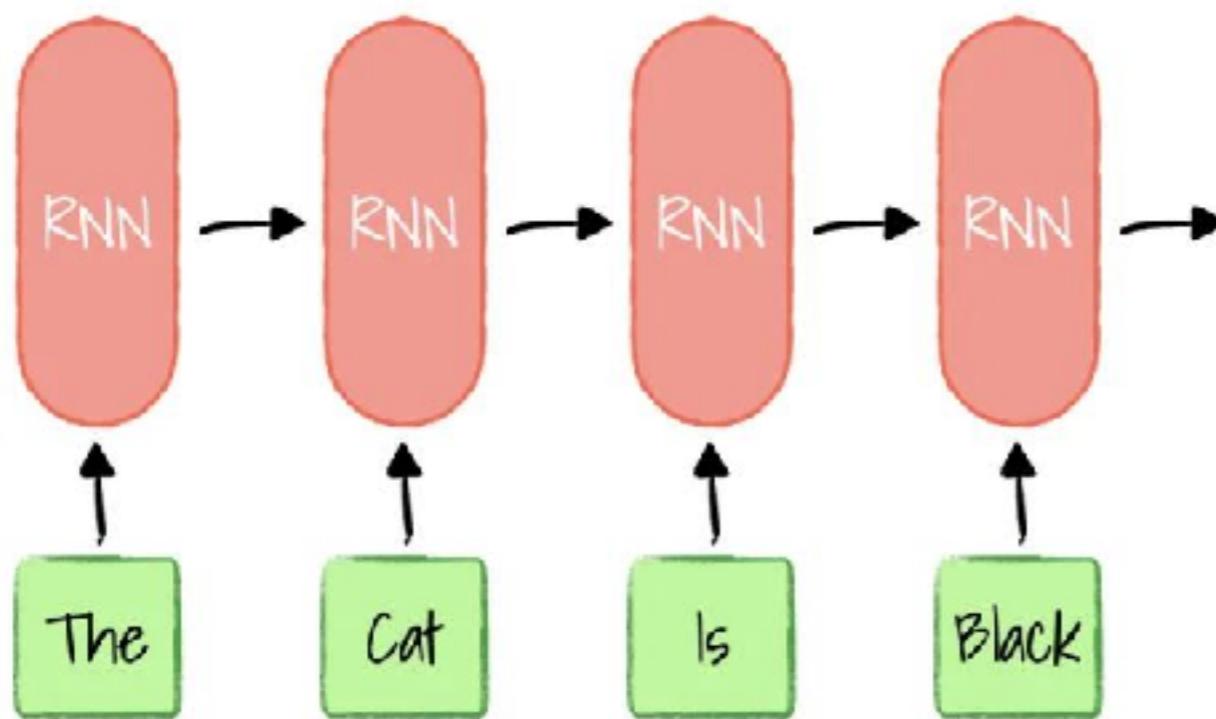


# **Can we remove RNN for sequential data ?**

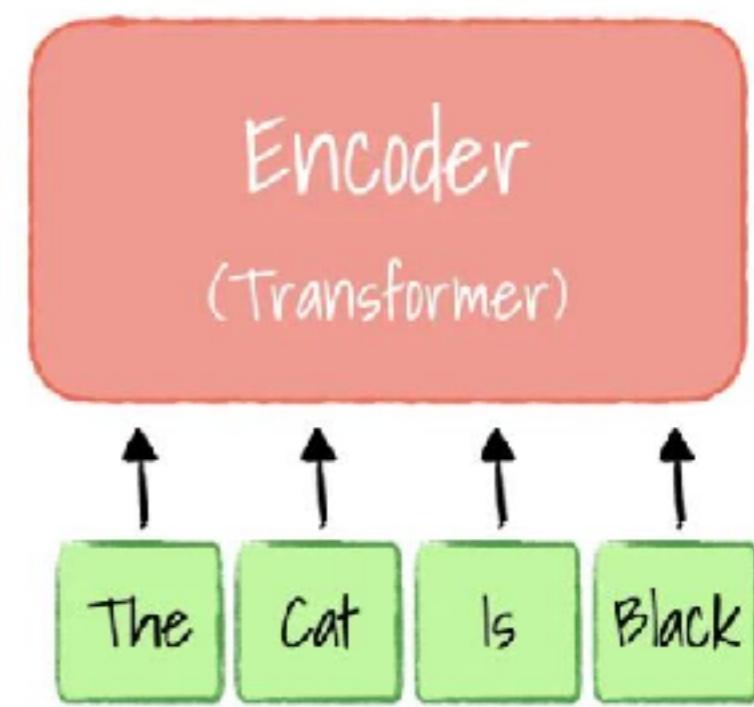


# Parallel processing

RNN based Encoder



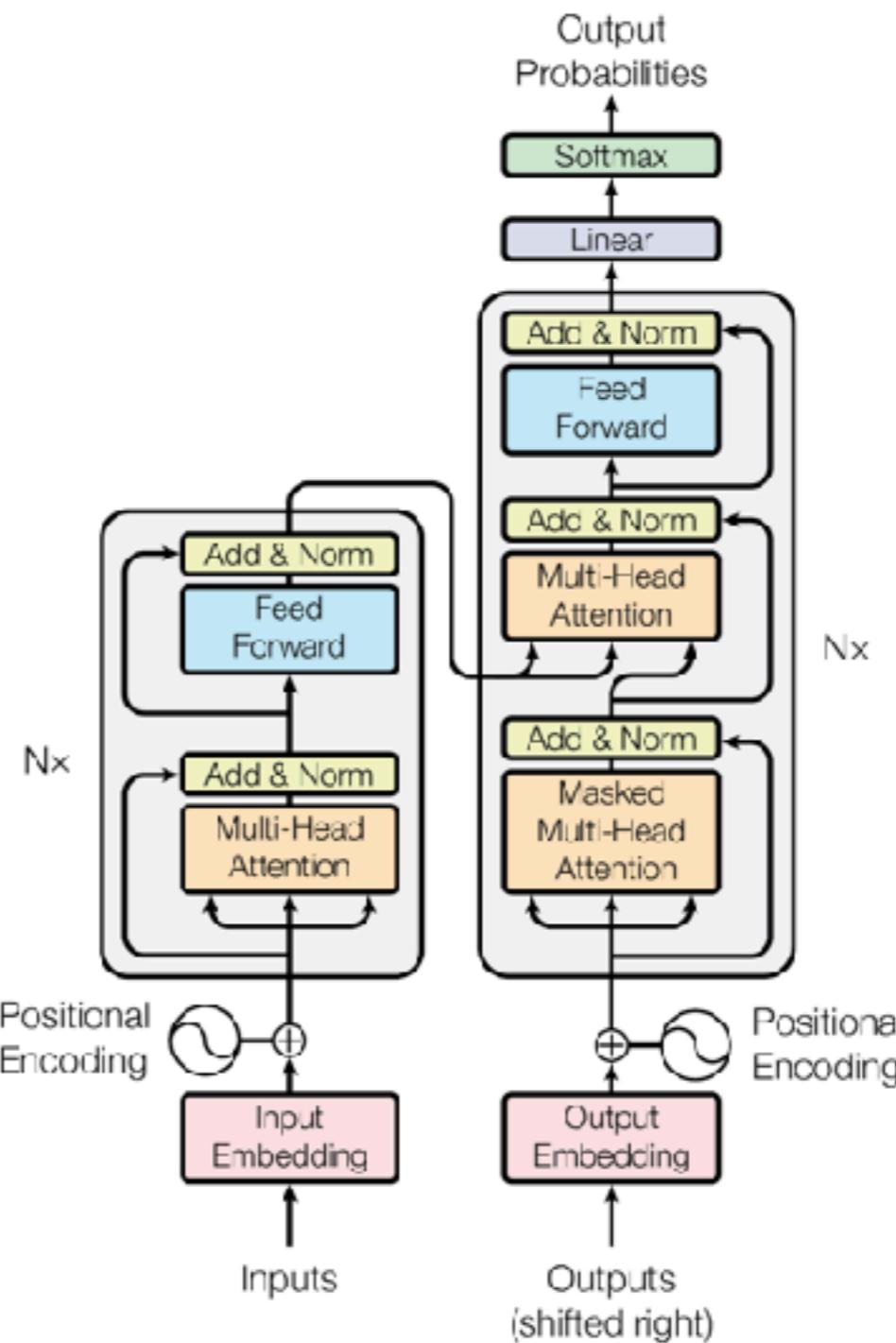
Transformer's Encoder



**Start using Transformer  
apply attention mechanism**



# Attention is all you need



<https://arxiv.org/abs/1706.03762>

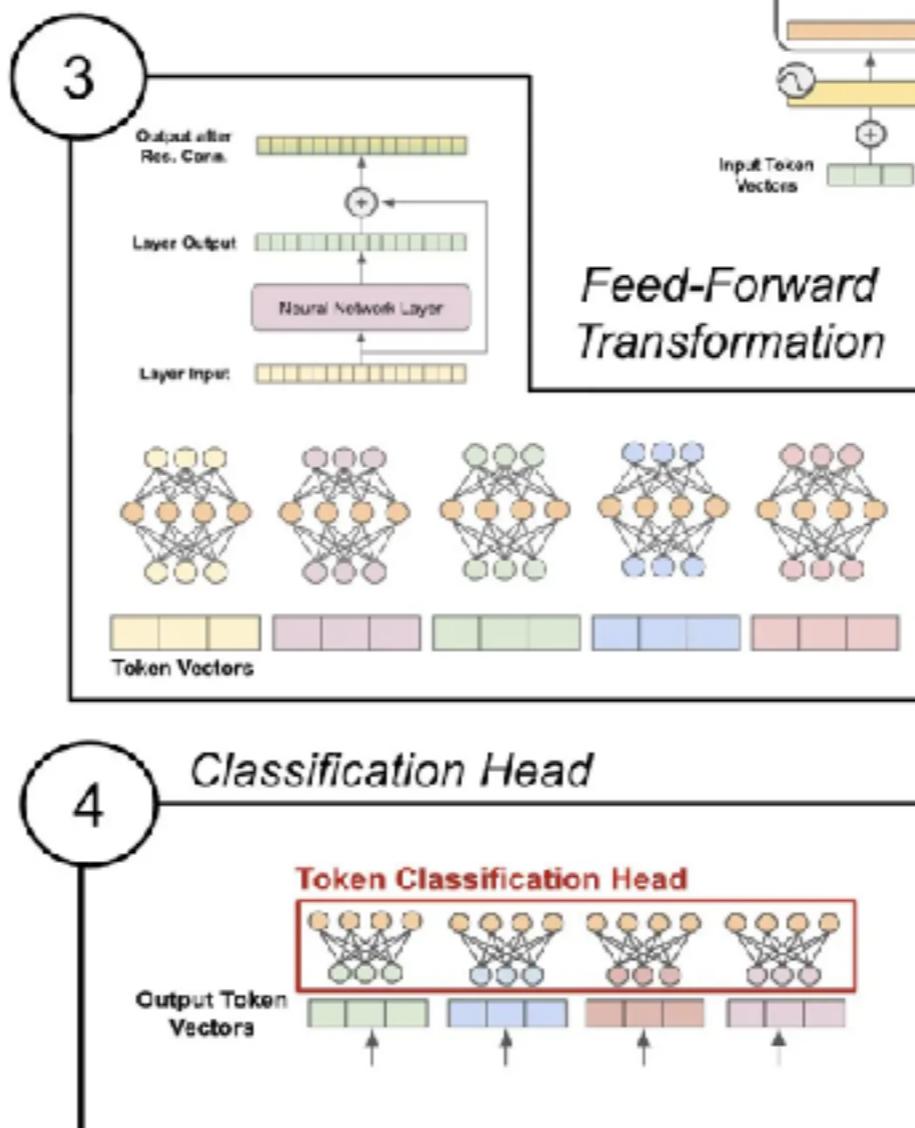
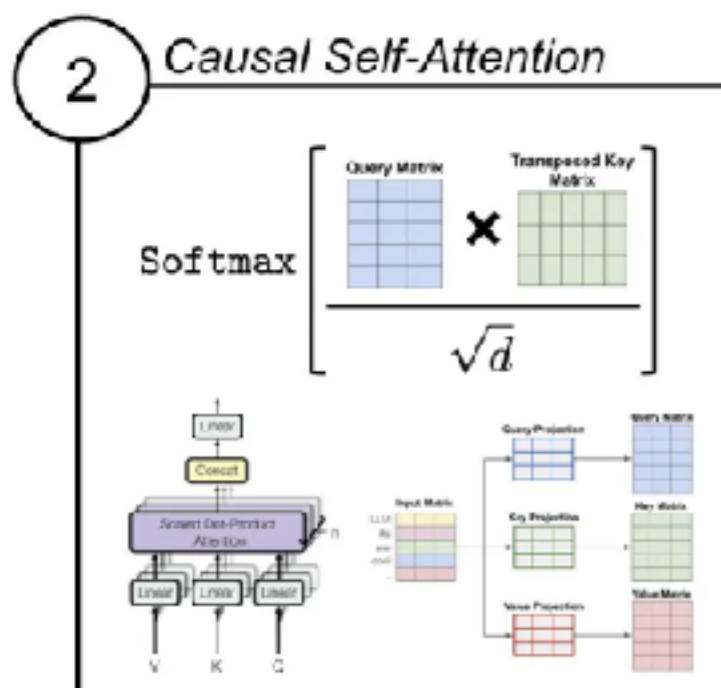
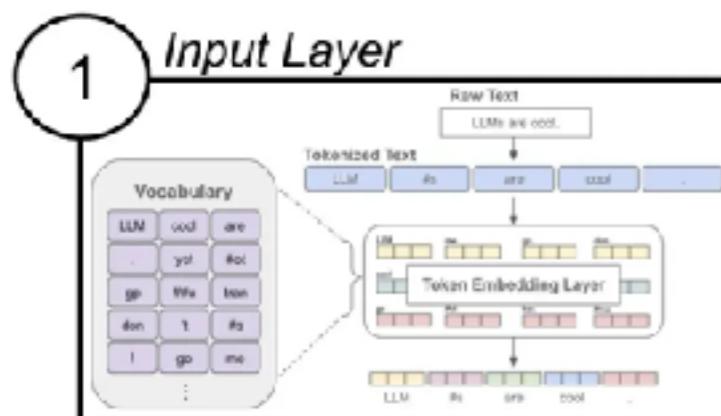


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# LLM components !!

## Components of the Decoder-only Transformer



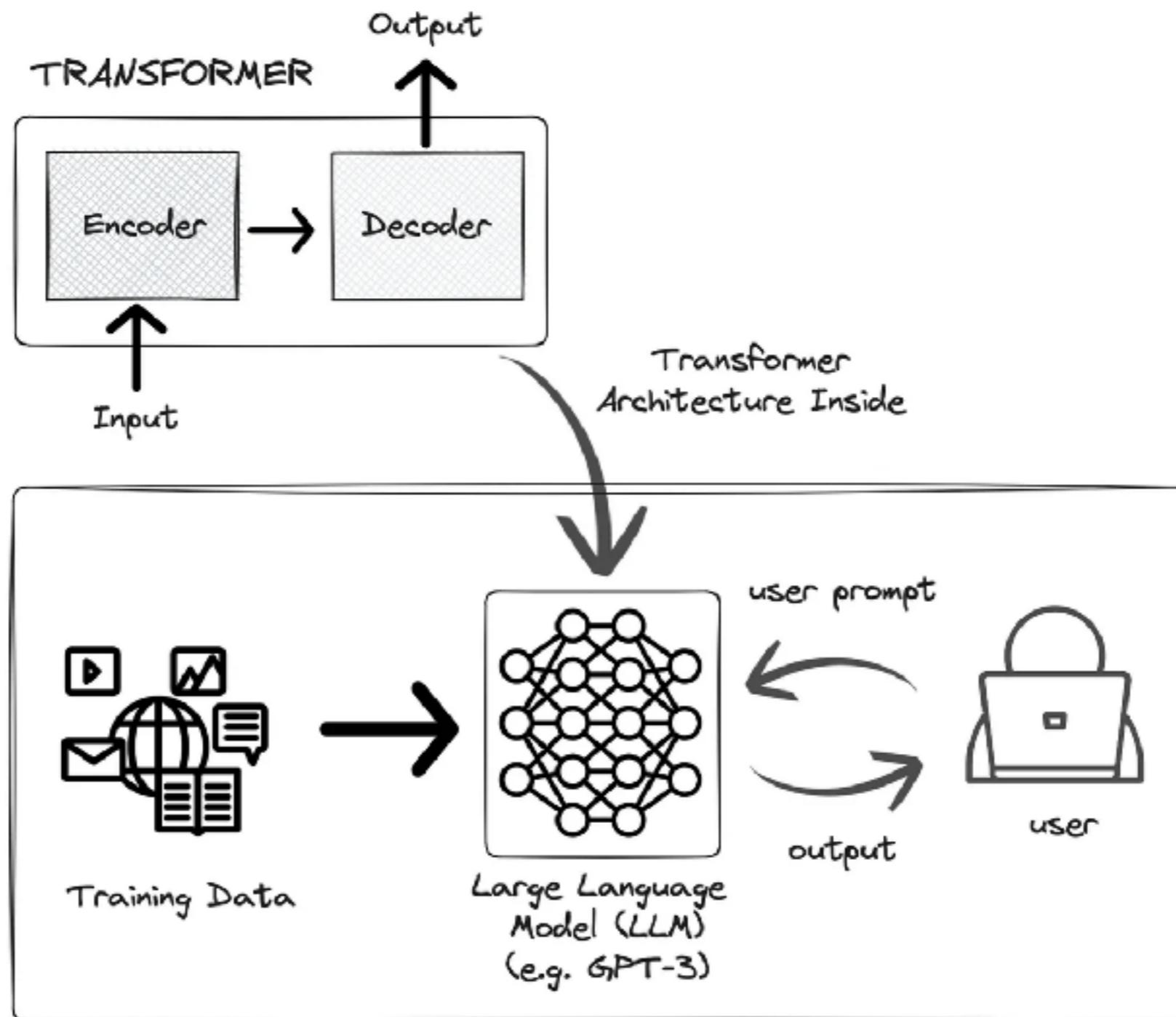
<https://stackoverflow.blog/2024/08/22/lms-evolve-quickly-their-underlying-architecture-not-so-much>



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# Transformer inside



# Transformer Models ?

**BERT**

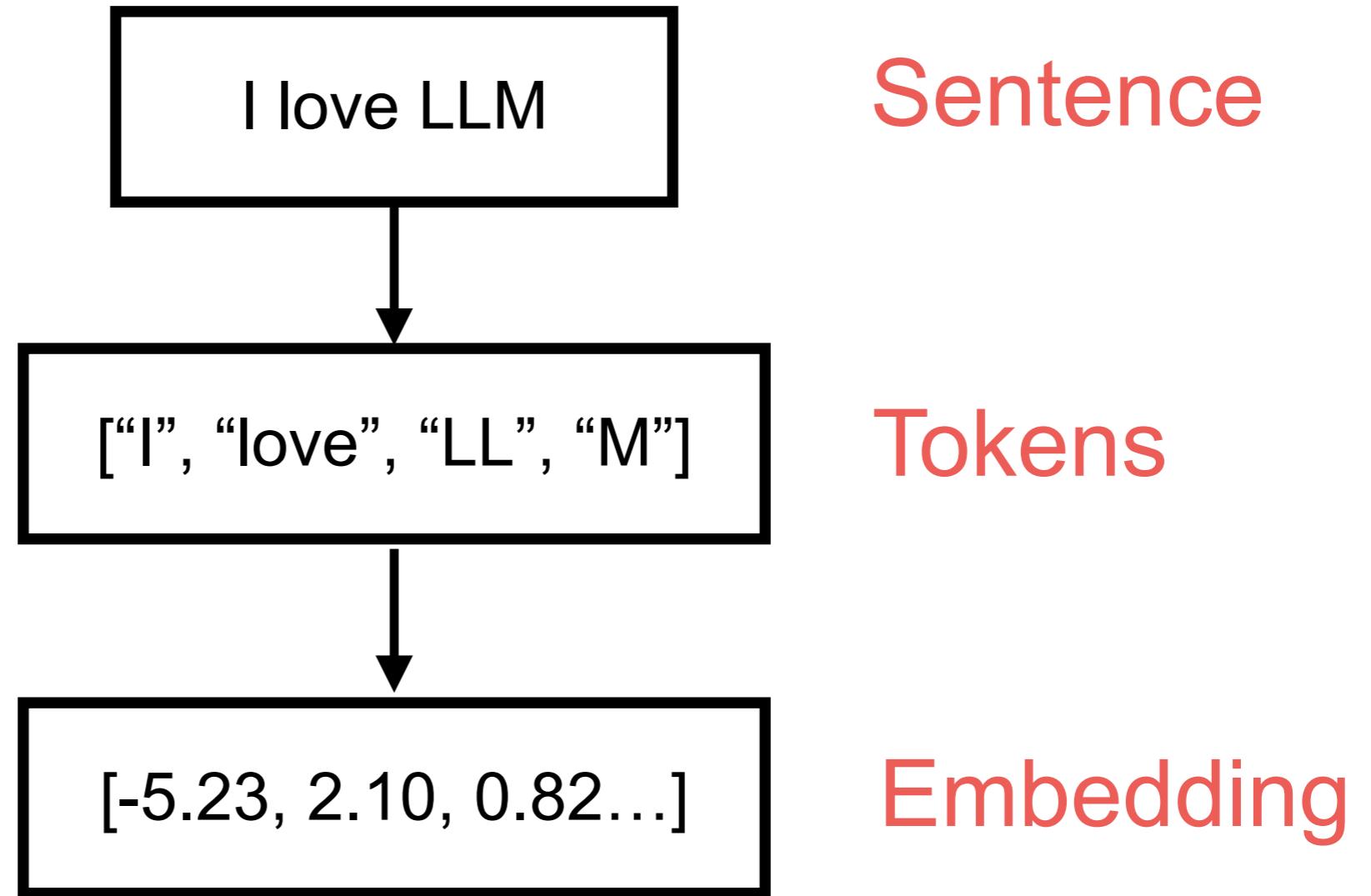
Bidirectional  
Encoder  
Representations from  
Transformers

**GPT**

Generative  
Pre-trained  
Transformer



# Transformer process



# OpenAI Tokenizer

GPT-4o & GPT-4o mini (coming soon)    **GPT-3.5 & GPT-4**    GPT-3 (Legacy)

ประเทศไทย

[Clear](#) [Show example](#)

Tokens	Characters
10	9

ประเทศไทย

[Text](#) [Token IDs](#)

<https://platform.openai.com/tokenizer>

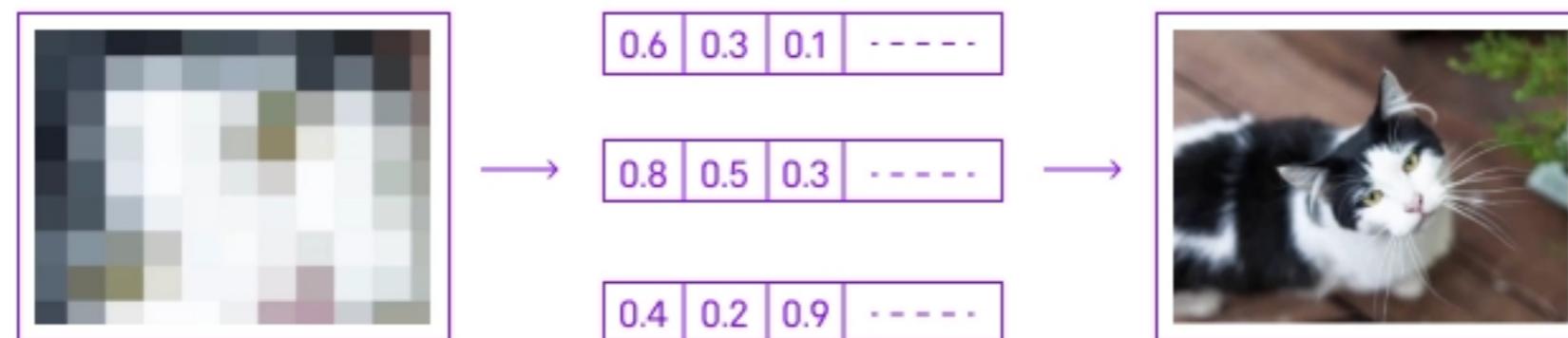


# Vectorization and Embedding



# Embedding ?

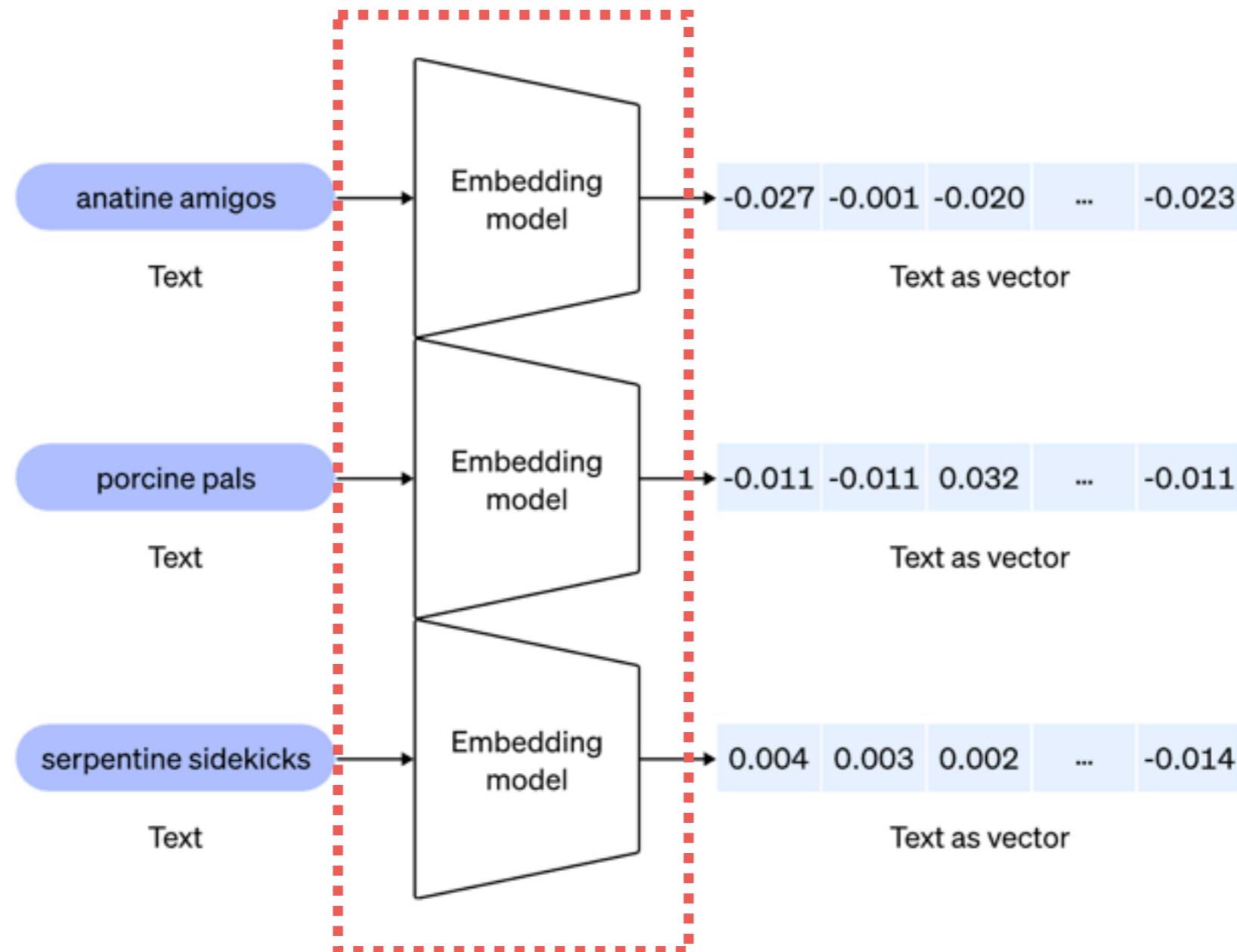
Map items of **unstructured data** to high-dimensional real vectors



<https://towardsdatascience.com transformers-in-depth-part-1-introduction-to-transformer-models-in-5-minutes-ad25da6d3cca>



# Embedding models



<https://openai.com/index/new-embedding-models-and-api-updates/>



# Embedding models

Rank (Box..)	Model	Zero-shot	Memory U...	Number of P..	Embedding D..	Max Tokens	Mean (T..	Mean (TaskT..	Bitext ..	Classific
1	<a href="#">gemini-embedding-001</a>	99%	Unknown	Unknown	3072	2048	68.37	59.59	79.28	71.82
2	<a href="#">Qwen3-Embedding-8B</a>	99%	28966	7B	4096	32768	79.58	61.69	80.89	74.00
3	<a href="#">Qwen3-Embedding-4B</a>	99%	15341	4B	2560	32768	69.45	60.86	79.36	72.33
4	<a href="#">Qwen3-Embedding-0.6B</a>	99%	2272	595M	1024	32768	64.34	56.01	72.23	66.83
5	<a href="#">Ling-Embed-Mistral</a>	99%	13563	7B	4096	32768	61.47	54.14	70.34	62.24
6	<a href="#">gte-Qwen2-7B-instruct</a>	⚠ NA	29040	7B	3584	32768	62.51	55.93	73.92	61.55
7	<a href="#">multilingual-e5-large-instruct</a>	99%	1058	560M	1024	514	63.22	55.08	80.13	64.94
8	<a href="#">SFR-Embedding-Mistral</a>	95%	13563	7B	4096	32768	69.90	53.92	70.00	60.02
9	<a href="#">text-multilingual-embedding-002</a>	99%	Unknown	Unknown	768	2048	62.16	54.25	70.73	64.64
9	<a href="#">GritLM-7B</a>	99%	13813	7B	4096	4096	69.92	53.74	70.53	61.83
11	<a href="#">GritLM-8x7B</a>	99%	89079	57B	4096	4096	69.49	53.31	68.17	61.55

**Choose the right model for your use case !!**

<https://huggingface.co/spaces/mteb/leaderboard>  
<https://modal.com/blog/mteb-leaderboard-article>



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# Types of embedding

**Word  
embedding**

**Sentence  
embedding**

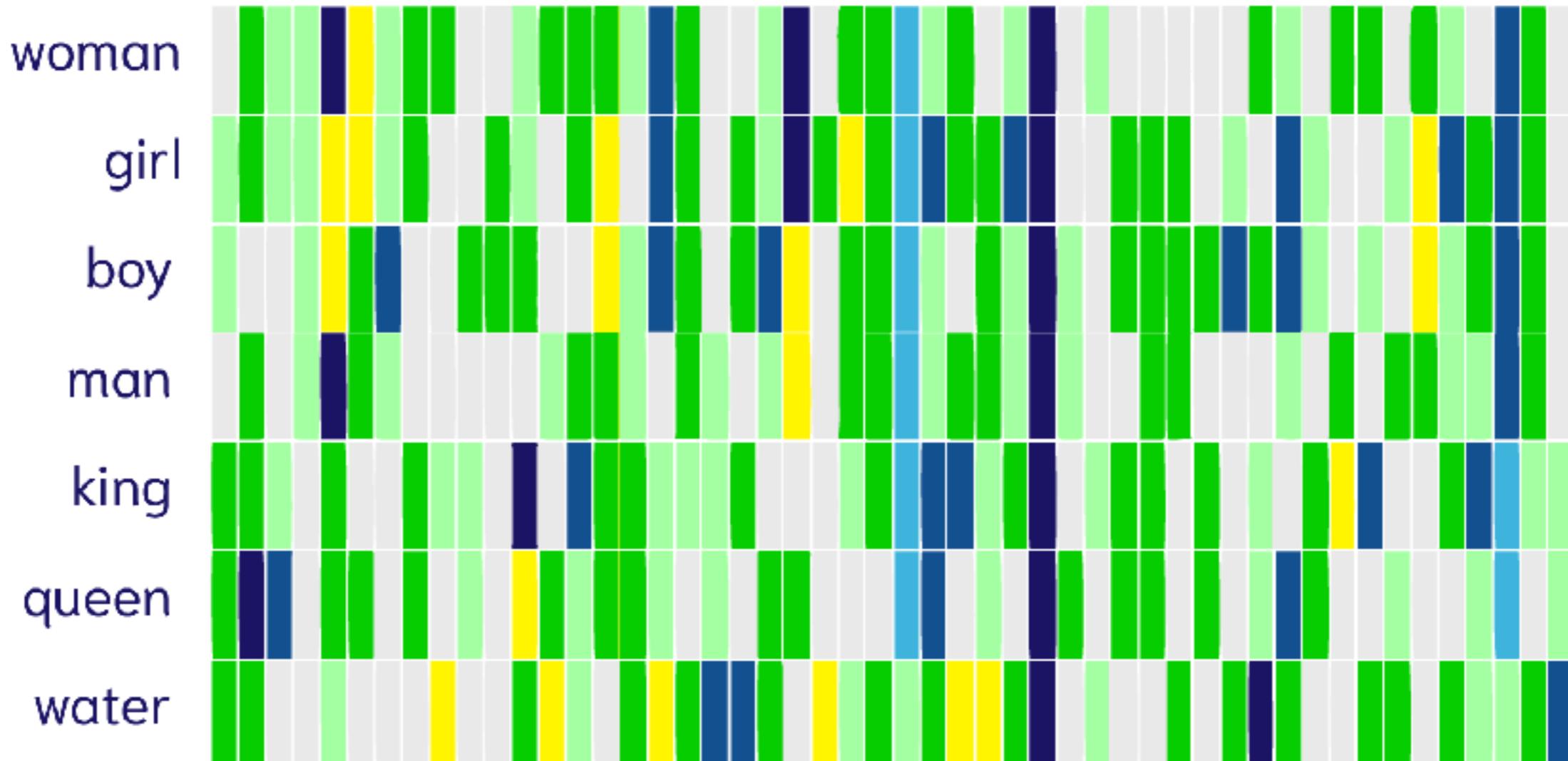
**Document  
embedding**

**Multimodal  
embedding**

<https://www.analyticsvidhya.com/blog/2024/09/vector-embeddings-with-cohere-and-huggingface/>



# Word embedding with GloVe

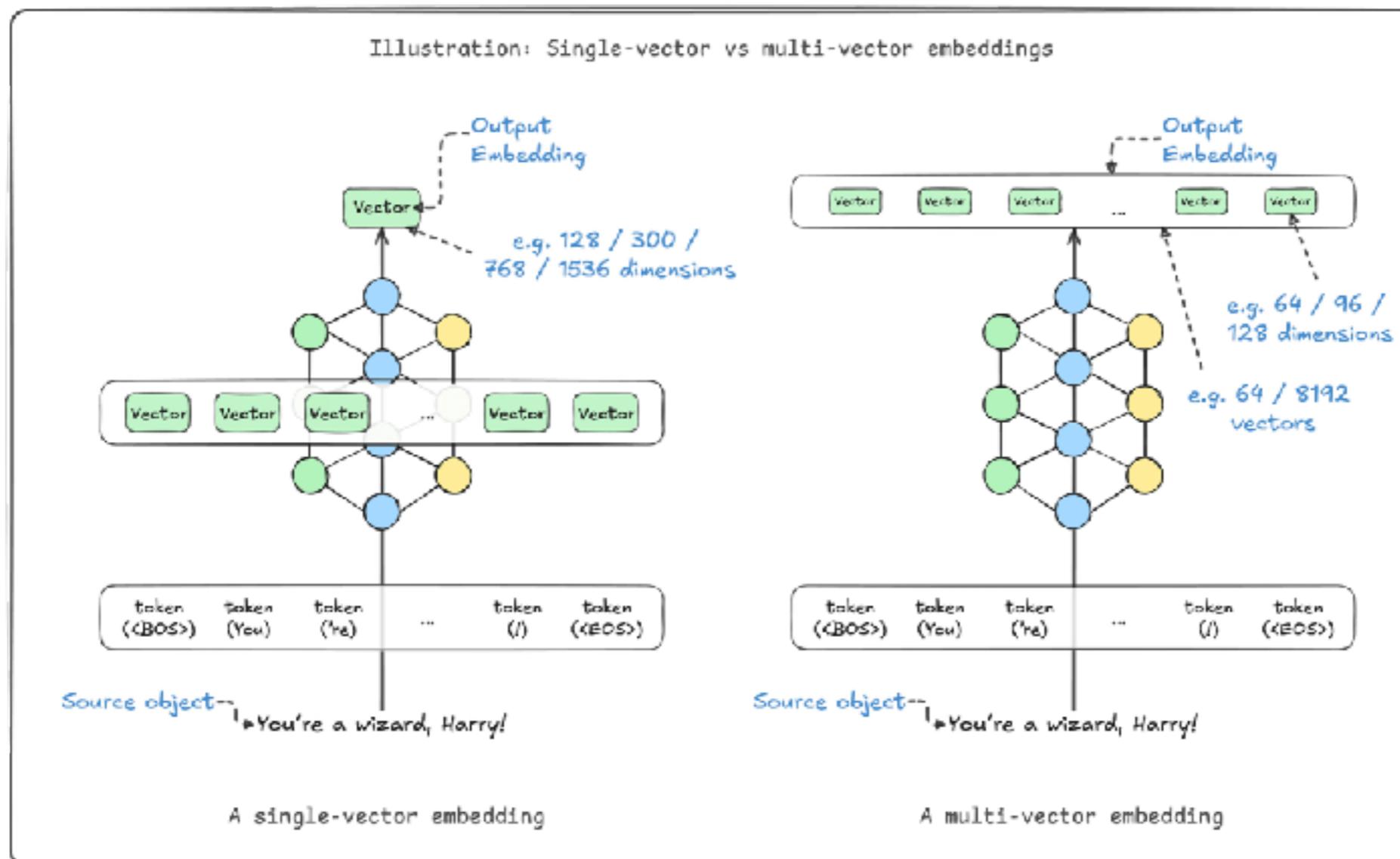


<https://en.wikipedia.org/wiki/GloVe>



# Single vs Multi-vector Embedding

Improve retrieval and similar objects



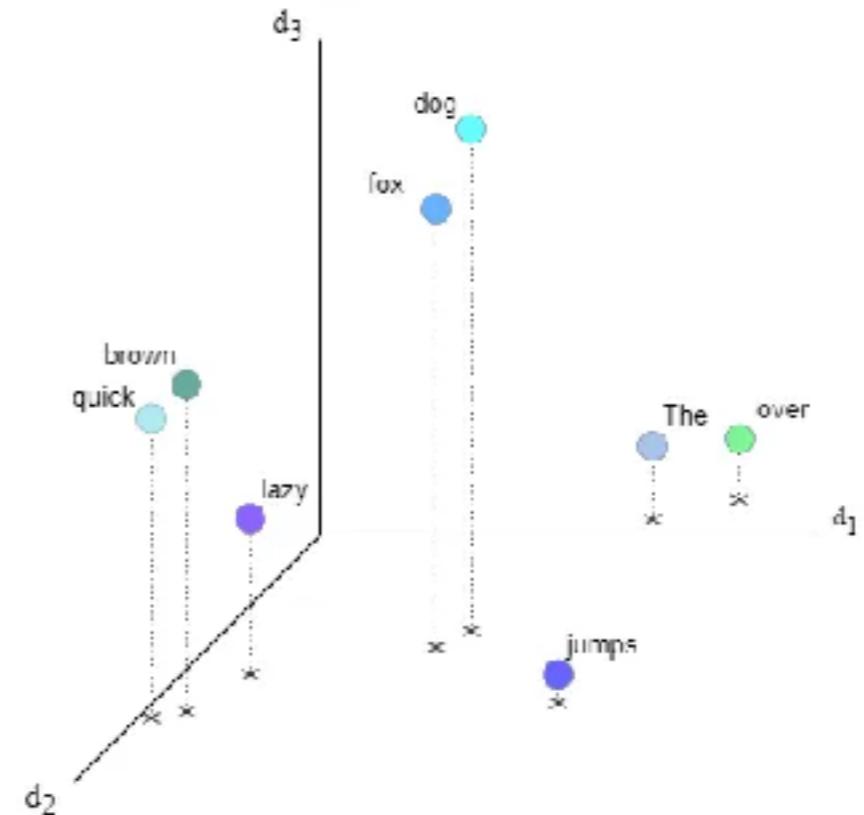
<https://docs.weaviate.io/weaviate/tutorials/multi-vector-embeddings>



# Embedding ?

Map items of **unstructured data** to high-dimensional real vectors

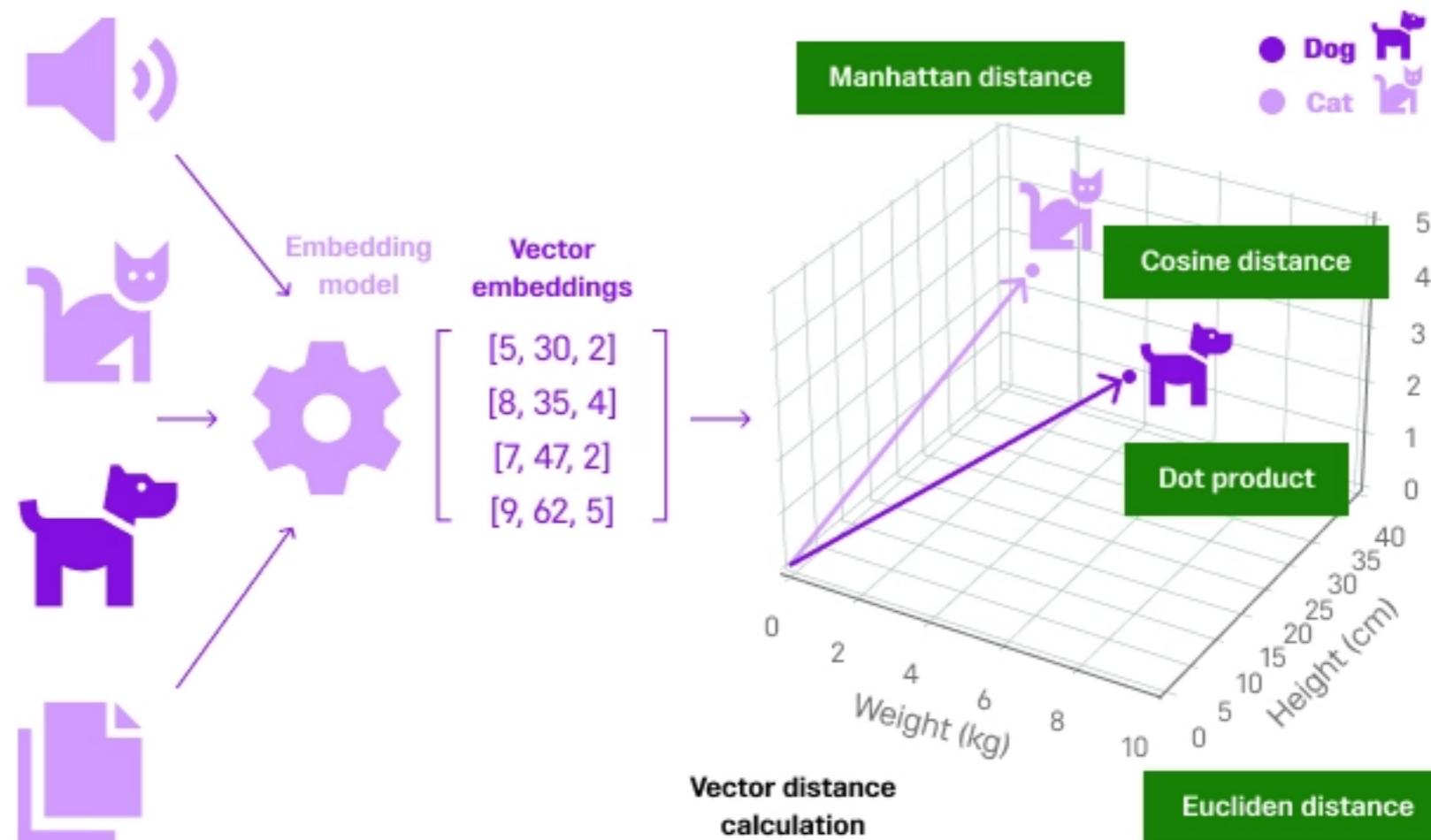
	0	1	2	$d_{model}$
The	0.64	-0.09	0.23	0.005
quick	0.05	0.79	0.47	-0.54
brown	0.12	0.71	0.51	-0.3
fox	0.12	0.52	0.83	0.01
jumps	0.88	0.69	0.02	0.27
over	0.84	0.15	0.13	0.05
the	0.64	0.00	0.23	0.005
lazy	0.1	0.65	0.28	0.19
dog	0.54	0.49	0.90	0.000



<https://towardsdatascience.com transformers-in-depth-part-1-introduction-to-transformer-models-in-5-minutes-ad25da6d3cca>



# Similarity search with Vecrtor



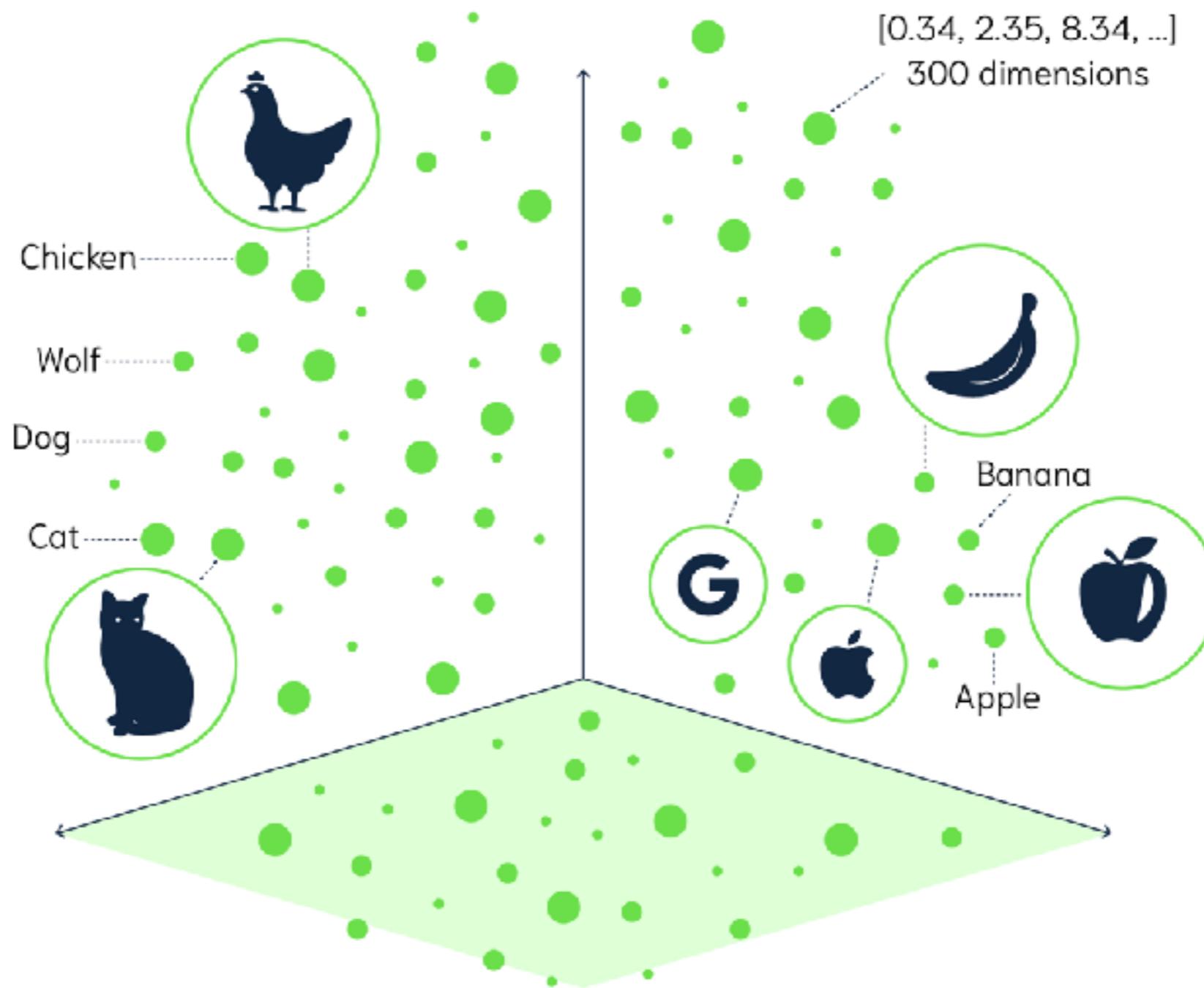
<https://www.singlestore.com/blog/distance-metrics-in-machine-learning-simplified/>



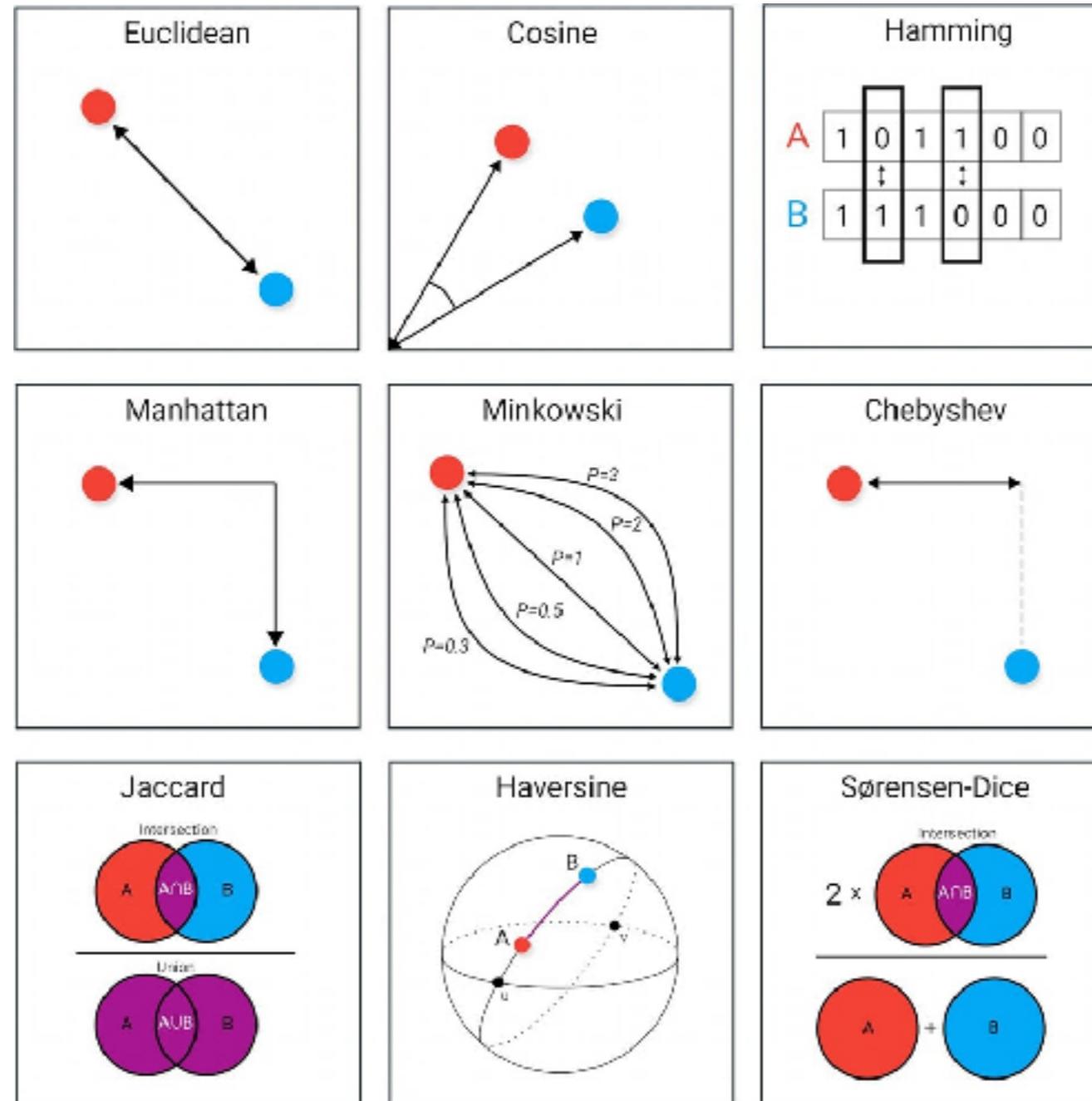
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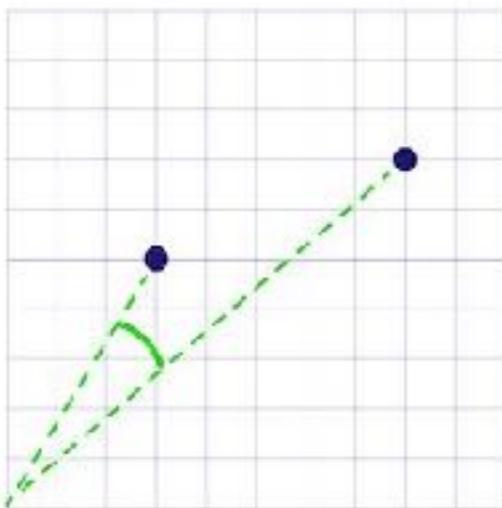
# Visual of Vector space



# Distance measure !!

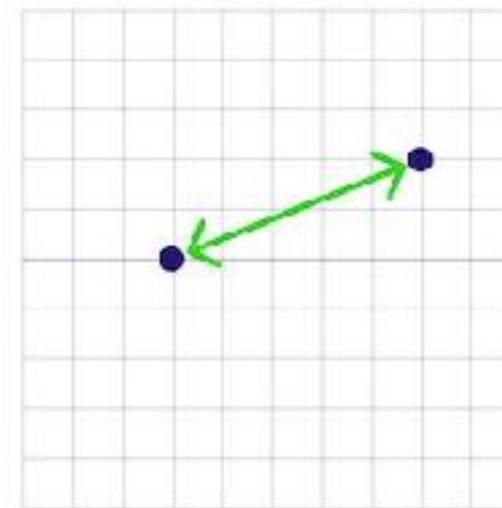


# Distance Metrics in Vector Search



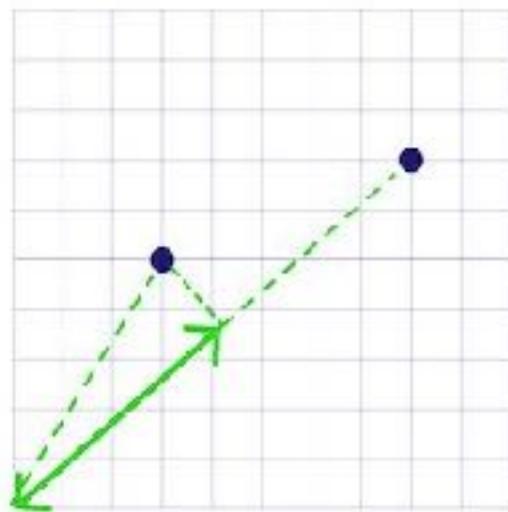
Cosine Distance

$$1 - \frac{A \cdot B}{\|A\| \|B\|}$$



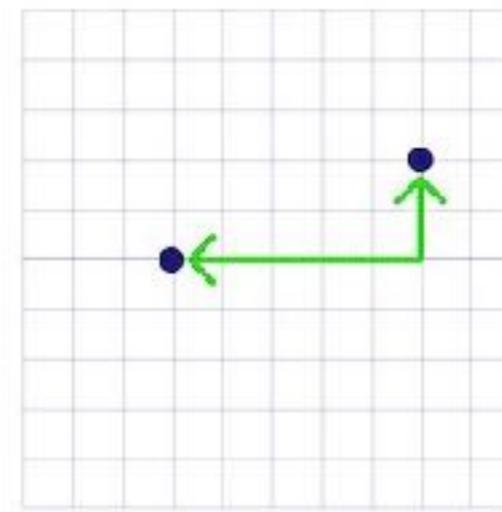
Squared Euclidean  
(L2 Squared)

$$\sum_{i=1}^n (x_i - y_i)^2$$



Dot Product

$$A \cdot B = \sum_{i=1}^n A_i B_i$$

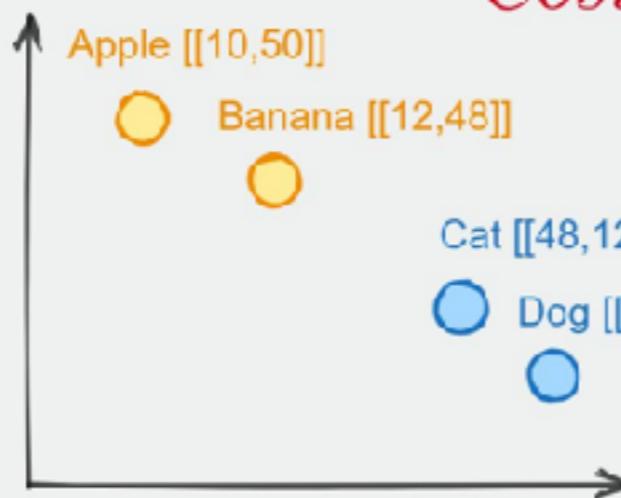


Manhattan (L1)

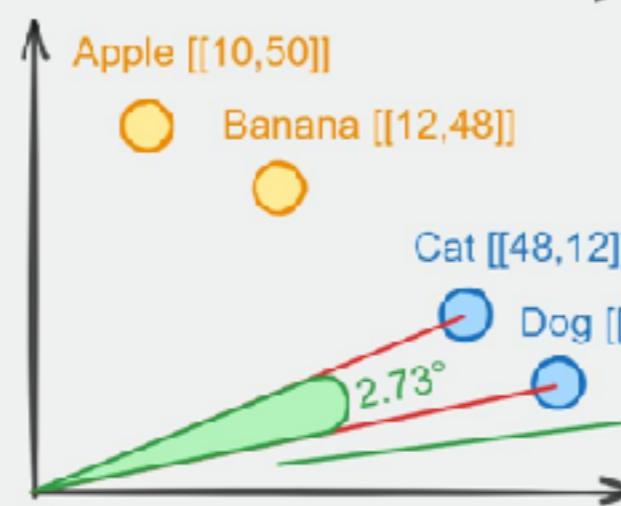
$$\sum_{i=1}^n |x_i - y_i|$$



## Cosine in LLM



$$\cos(\theta) = \frac{\mathbf{A} \cdot \mathbf{B}}{\|\mathbf{A}\| \|\mathbf{B}\|} = \frac{\sum_{i=1}^n A_i \cdot B_i}{\sqrt{\sum_{i=1}^n A_i^2} \cdot \sqrt{\sum_{i=1}^n B_i^2}}$$



$$\mathbf{A} \cdot \mathbf{B} = 50 \times 48 + 10 \times 12 = 2400 + 120 = 2520$$

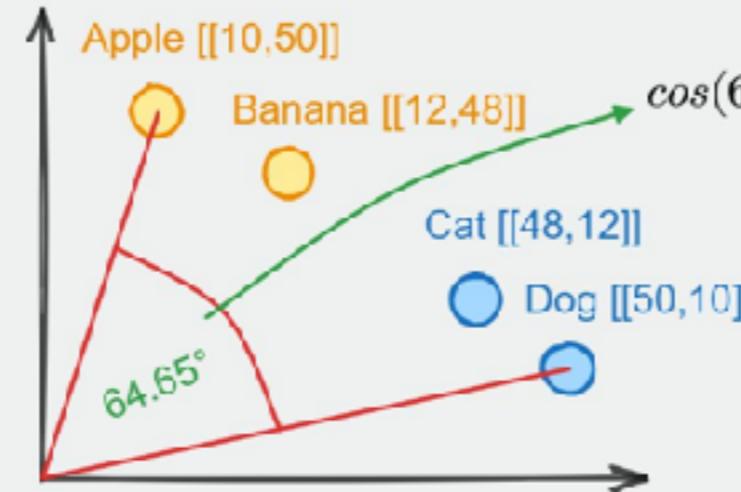
$$\|\mathbf{B}\| = \sqrt{48^2 + 12^2} = \sqrt{2304 + 144} = \sqrt{2448} \approx 49.5$$

$$\|\mathbf{A}\| = \sqrt{50^2 + 10^2} = \sqrt{2500 + 100} = \sqrt{2600} \approx 51.0$$

$$\text{cosine similarity} = \frac{2520}{51.0 \times 49.5} \approx 0.998$$

$$\cos(2.73^\circ) \approx 0.998$$

Cat & Dog are similar!



$$\cos(64.65^\circ) \approx 0.4284$$

Apple & Dog are not similar!



<https://x.com/levikul09/status/1771843190745948233/photo/1>



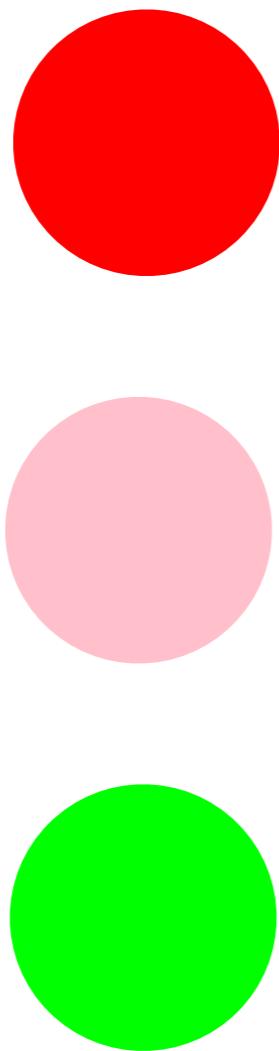
AI

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# **Example with Vector embedding ?**



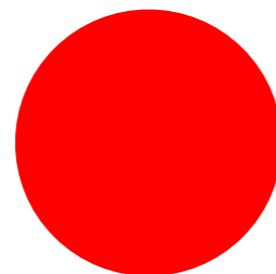
# RGB ?



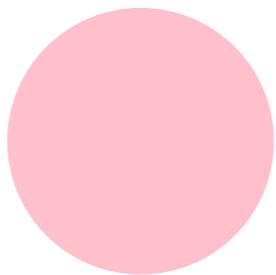
<https://github.com/up1/workshop-ai-with-technical-team/tree/main/workshop/demo-rgb>



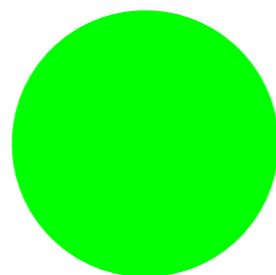
# RGB ?



[255, 0, 0]



[255, 192, 203]



[0, 255, 0]

<https://github.com/up1/workshop-ai-with-technical-team/tree/main/workshop/demo-rgb>

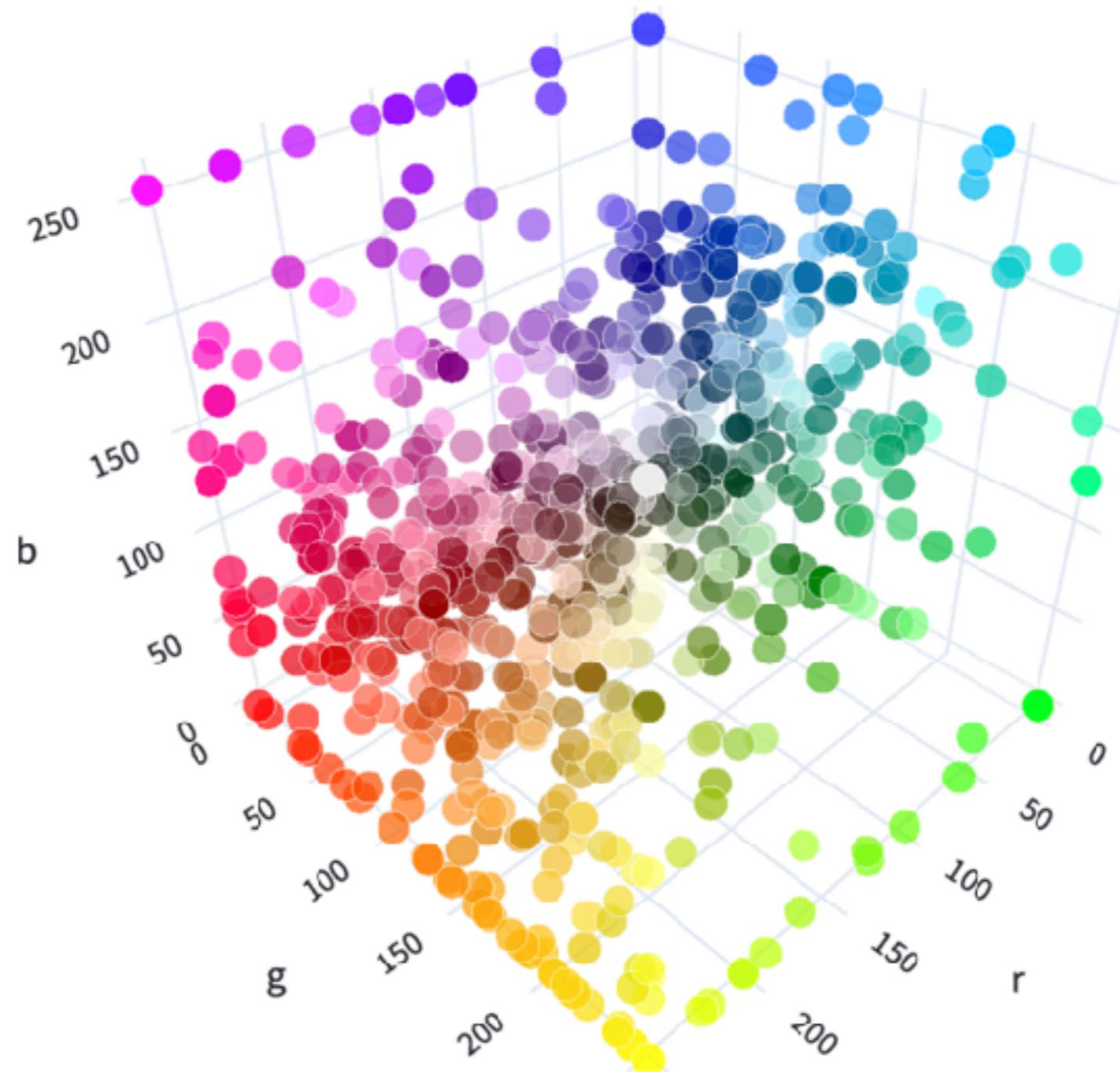


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# Visualize RGB



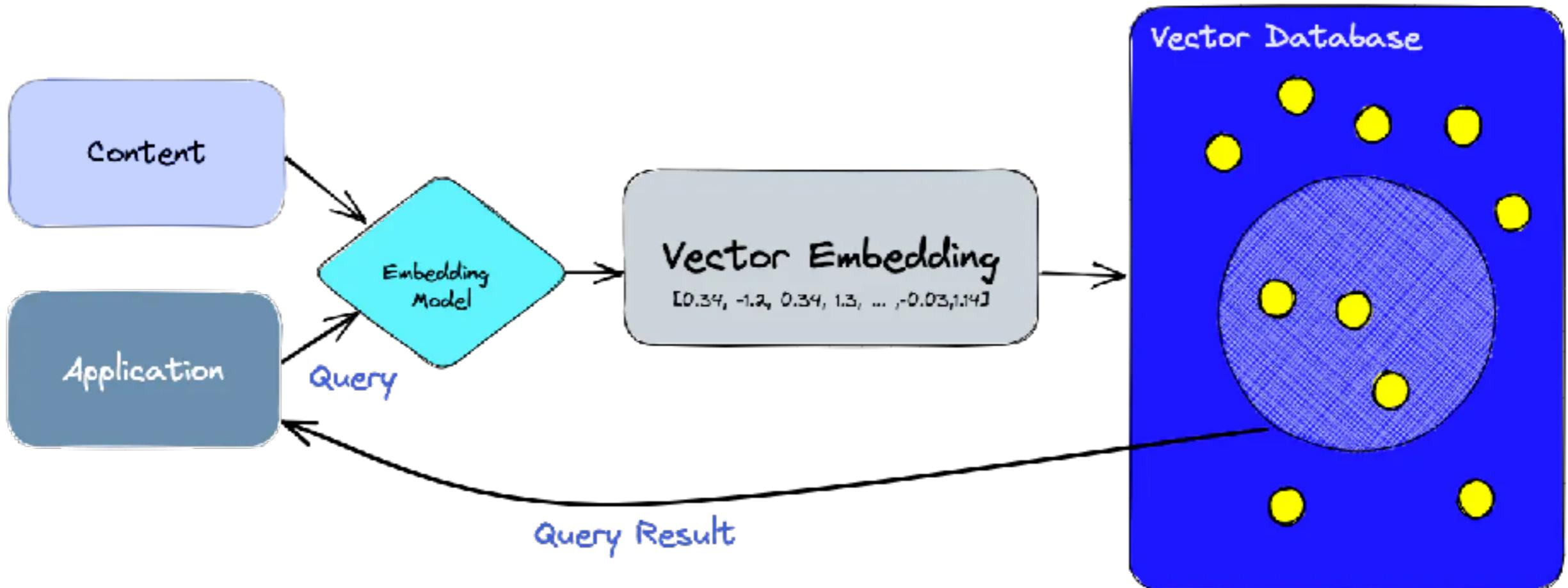
[https://huggingface.co/spaces/jphwang/colorful\\_vectors](https://huggingface.co/spaces/jphwang/colorful_vectors)



# Store data in Vector Database



# Store data in Vector Database



<https://www.pinecone.io/learn/vector-database/>



# Vector Database ?

Index and Store vector embedding  
Fast retrieval and similar search

Keyword search

Similarity search

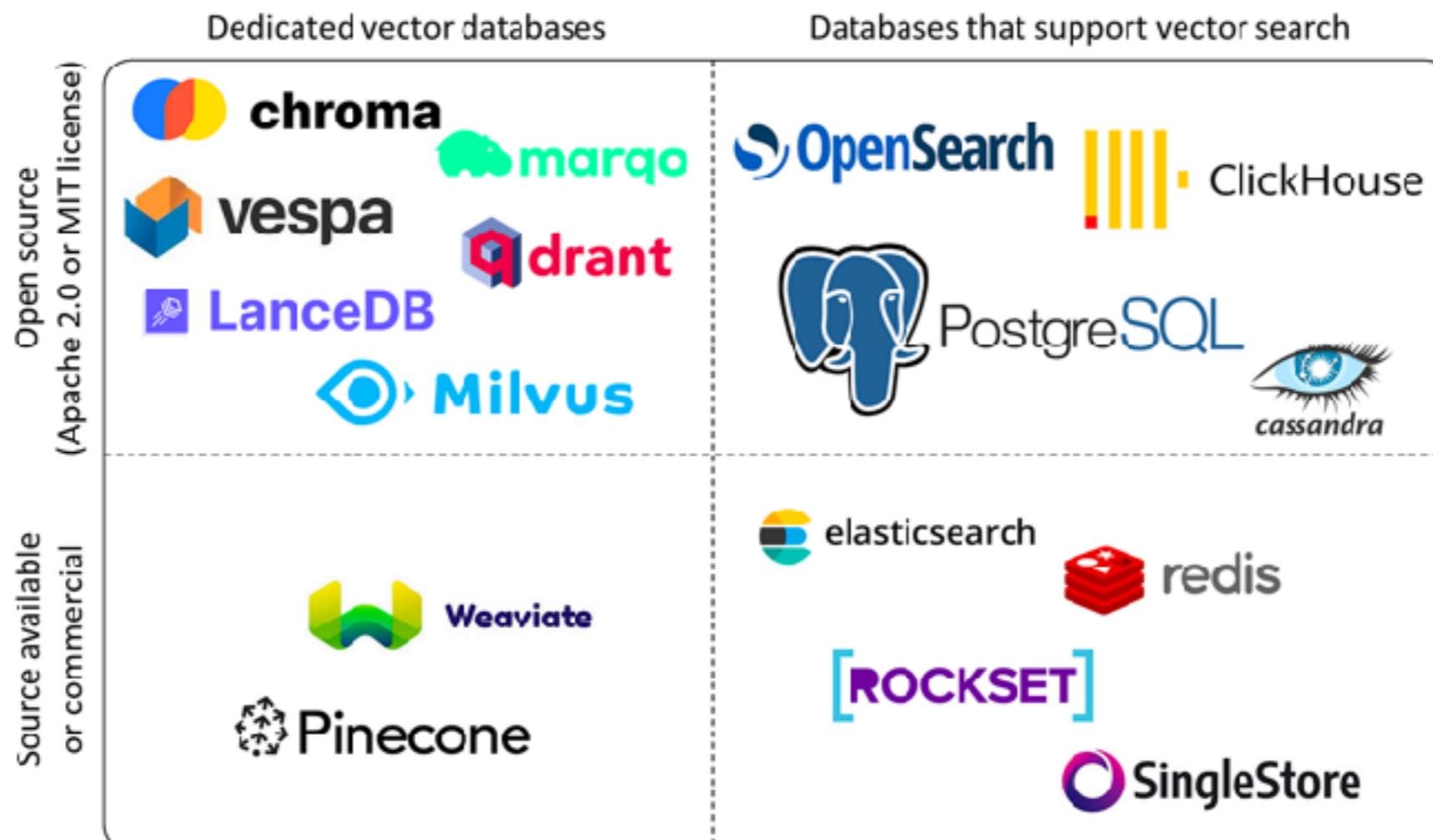
Full-text search

Semantic search



# Vector Database ?

Map items of unstructured data to high-dimensional real vectors



<https://towardsdatascience.com/transformers-in-depth-part-1-introduction-to-transformer-models-in-5-minutes-ad25da6d3cca>



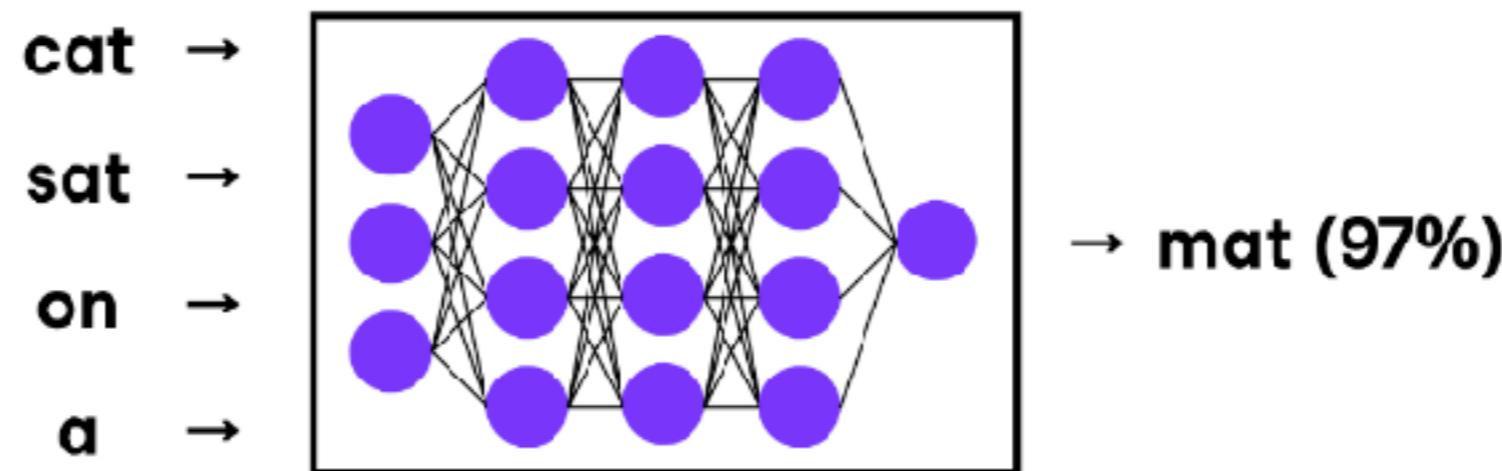
# Let's go !!



# Large Language Model (LLM)

Neural network

Predicts the next word in a sequence



# LLM Development timeline

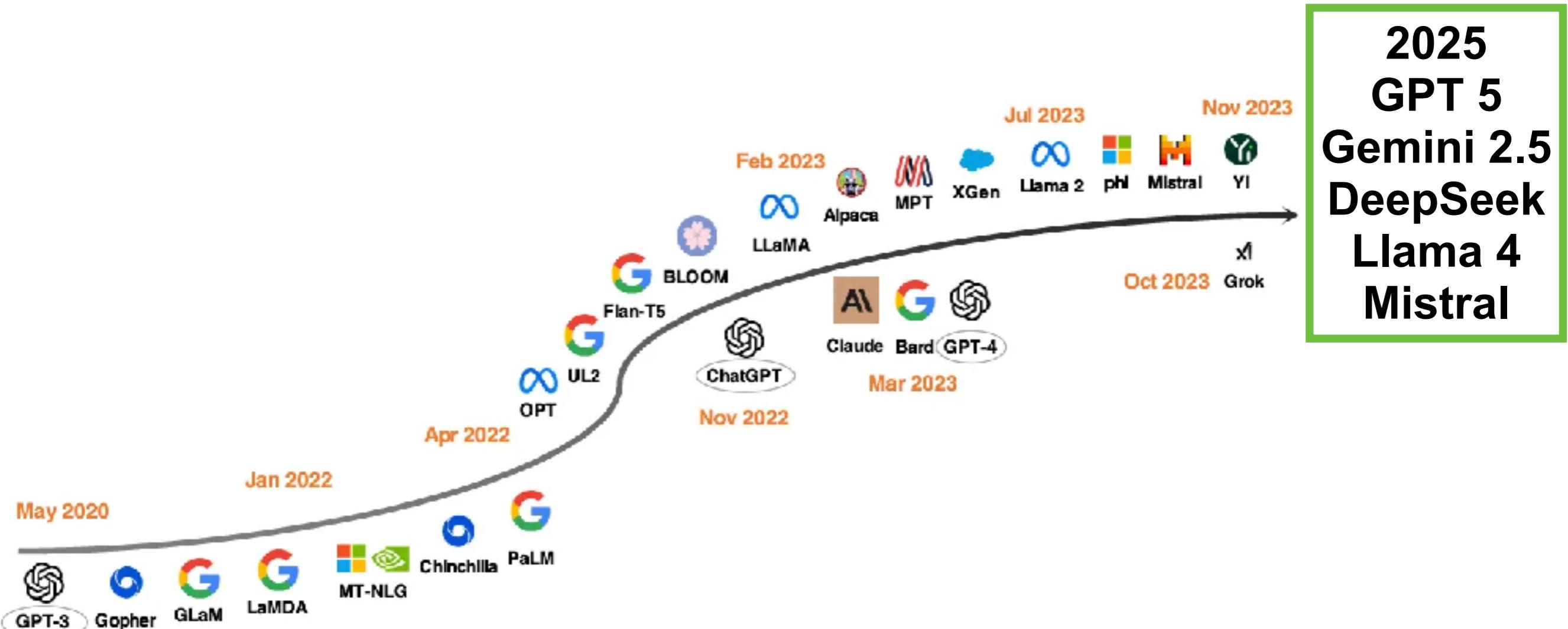


Figure 3: LLM development timeline. The models below the arrow are closed-source while those above the arrow are open-source.

<https://arxiv.org/abs/2311.16989>



# LLMs in industry

Model name	Company
GPT 4	OpenAI
Gemini	Google AI
BLOOM	NVIDIA AI
Llama	Facebook/Meta
Claude Sonnet, Haiku, Opus	Anthropic
Phi	Microsoft
DeepSeek	DeepSeek





# Module 2

## Introduction to Claude AI



# Claude AI

The screenshot shows the Claude AI web interface. At the top, there is a "Free plan" button and an "Upgrade" link. Below that, a greeting says "Hi Somkiat, how are you?". A large input field asks "How can I help you today?". Below the input field are three buttons: a plus sign, a document icon, and a double equals sign. To the right of the input field, a dropdown menu is open, showing the current selection "Claude Sonnet 4" with a checkmark and an upward arrow icon. The dropdown also lists other models: "Claude Opus 4.1" (PRO), "Claude Sonnet 4" (selected), "More models", "Claude Opus 4" (PRO), "Claude Sonnet 3.7", "Claude Opus 3", and "Claude Haiku 3.5". The "Claude Opus 4.1" entry includes a description: "Powerful, large model for complex challenges". The "Claude Opus 4" entry includes a description: "Fastest model for daily tasks".

<https://claude.ai/>



# Anthropic

ANTHROPIC

Claude ▾ API ▾ Solutions ▾ Research ▾ Commitments ▾ Learn ▾ News

Try Claude

AI research and  
products that put  
safety at the frontier

CLAUDE.AI

**Meet Claude Opus 4.1**

Claude Opus 4.1, our most intelligent AI model, is now available.

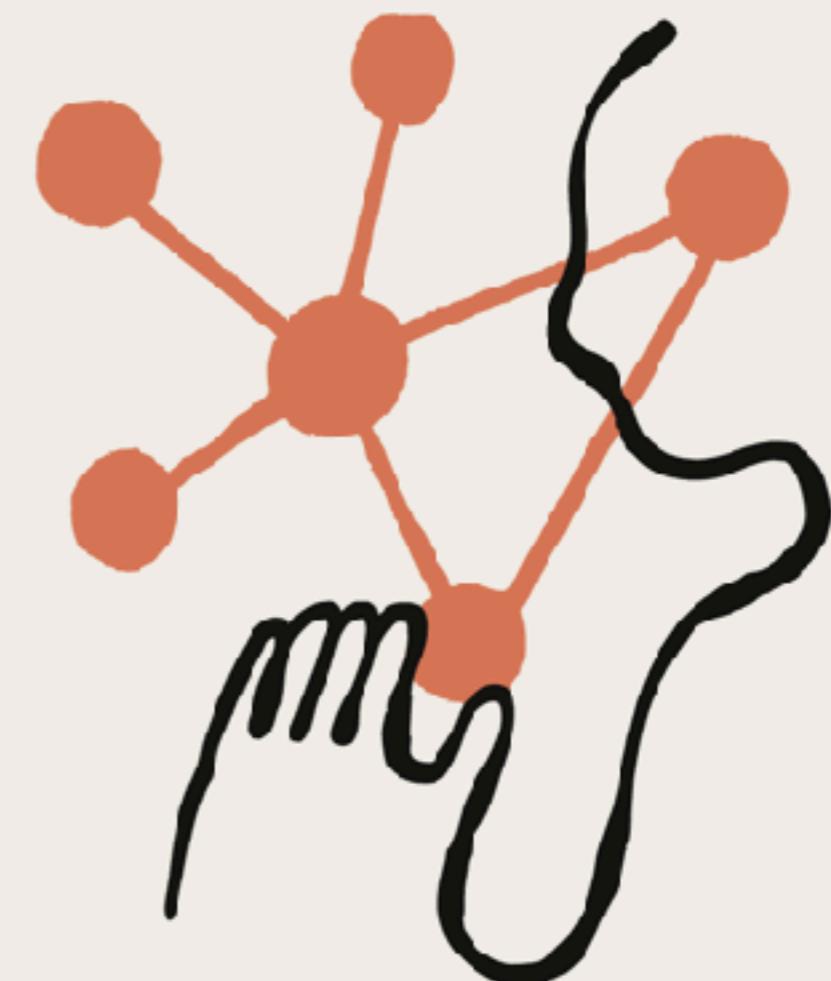
Talk to Claude

API

**Build with Claude**

Create AI-powered applications and custom experiences using Claude.

Learn more



<https://www.anthropic.com/>



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# Models ?

Sonnet

Opus

Haiku

Balance speed and  
Intelligent  
Analysis

Reasoning and creative  
Complex and long task

Fast  
Simple tasks

<https://www.anthropic.com/>



# Comparison models ?

Model name	Capabilities	Limitation	Use cases
<b>Claude Haiku</b>	Fast, low latency short task	Reasoning depth Complex task Creative	Real-time chatbot Quick customer support
<b>Claude Sonnet</b>	Balance between speed and intelligent	Slow than Haiku Less powerful than Opus	Business report Code assistance Research and writing task
<b>Claude Opus</b>	Most powerful Reasoning and creative Complex problem solving	Slow, more response time Expensive	Deep research Legal, medical analysis Complex sw development

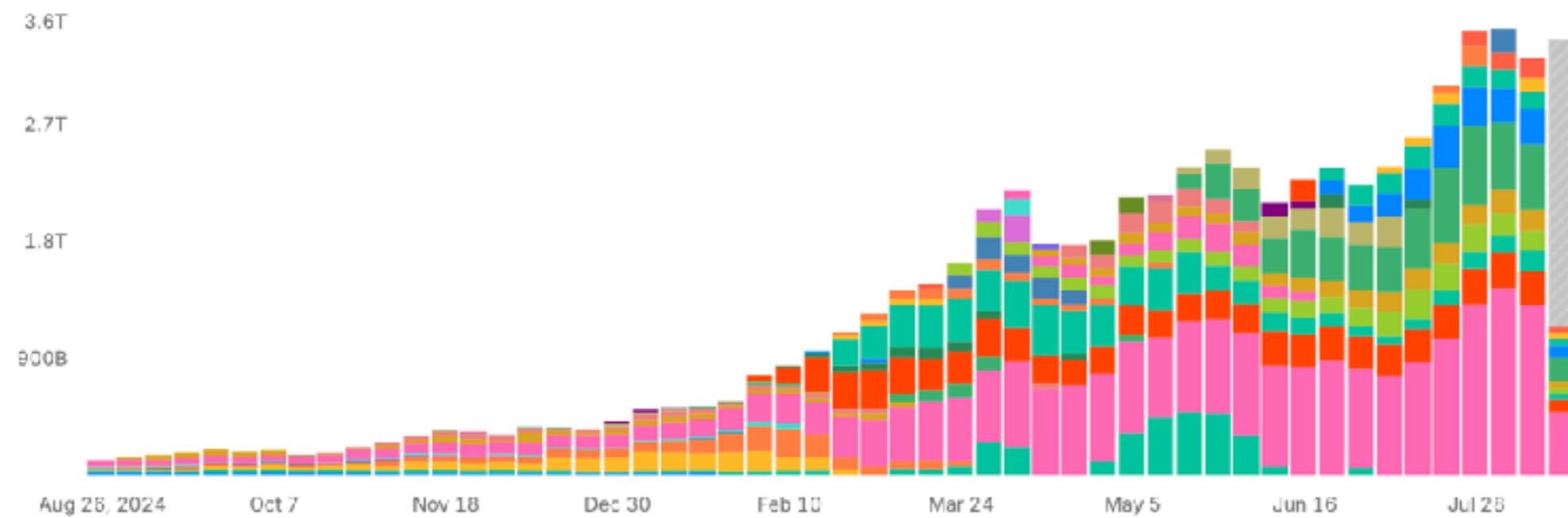


# Token usage from OpenRouter

Leaderboard

Top this week 3

Token usage across models on OpenRouter ⓘ



1.	<b>Claude Sonnet 4</b> by <a href="#">anthropic</a>	515B tokens ↑2%	6.	<b>DeepSeek V3 0324 (free)</b> by <a href="#">deepseek</a>	141B tokens ↓14%
2.	<b>Gemini 2.0 Flash</b> by <a href="#">google</a>	274B tokens ↓0%	7.	<b>Gemini 2.5 Pro</b> by <a href="#">google</a>	135B tokens ↓9%
3.	<b>Gemini 2.5 Flash</b> by <a href="#">google</a>	267B tokens ↓0%	8.	<b>Claude 3.7 Sonnet</b> by <a href="#">anthropic</a>	129B tokens ↓8%
4.	<b>DeepSeek V3 0324</b> by <a href="#">deepseek</a>	159B tokens ↓11%	9.	<b>R1 0528 (free)</b> by <a href="#">deepseek</a>	109B tokens ↑5%

<https://openrouter.ai/rankings>



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# SWE-bench



SWE-bench

Leaderboards

BENCHMARKS

SWE-bench

SWE-bench Lite

SWE-bench Multilingual

SWE-bench Multimodal

SWE-bench Bash Only

SWE-bench Verified

ABOUT

Paper

Docs

Contact

Citations

Press



## Leaderboards

There's an all-new, challenging SWE-bench Multimodal, containing software issues described with images. [Learn more here.](#)

Bash Only   Verified   Lite   Full   Multimodal

Bash Only evaluates all LMs with a [minimal agent](#) on SWE-bench Verified ([details](#))

Filters: [Open Scaffold ▾](#) [All Tags ▾](#)

Model	% Resolved	Org	Date	Logs	Trajs	Site	Release
Claude 4 Opus (20250514)	67.60		2025-08-02	✓	✓		1.0.0
GPT-5 (2025-08-07) (medium reasoning)	65.00		2025-08-07	✓	✓		1.7.0
Claude 4 Sonnet (20250514)	64.93		2025-05-21	✓	✓		1.0.0
GPT-5 mini (2025-08-07) (medium reasoning)	59.80		2025-08-07	✓	✓		1.7.0
o3 (2025-04-16)	58.40		2025-05-21	✓	✓		1.0.0
Qwen3-Coder 480B/A35B Instruct	55.40		2025-08-02	✓	✓		1.0.0
Gemini 2.5 Pro (2025-05-06)	53.60		2025-05-21	✓	✓		1.0.0
Claude 3.7 Sonnet (20250219)	52.80		2025-05-21	✓	✓		0.0.0
o4-mini (2025-04-16)	45.00		2025-05-21	✓	✓		1.0.0

<https://www.swebench.com/>

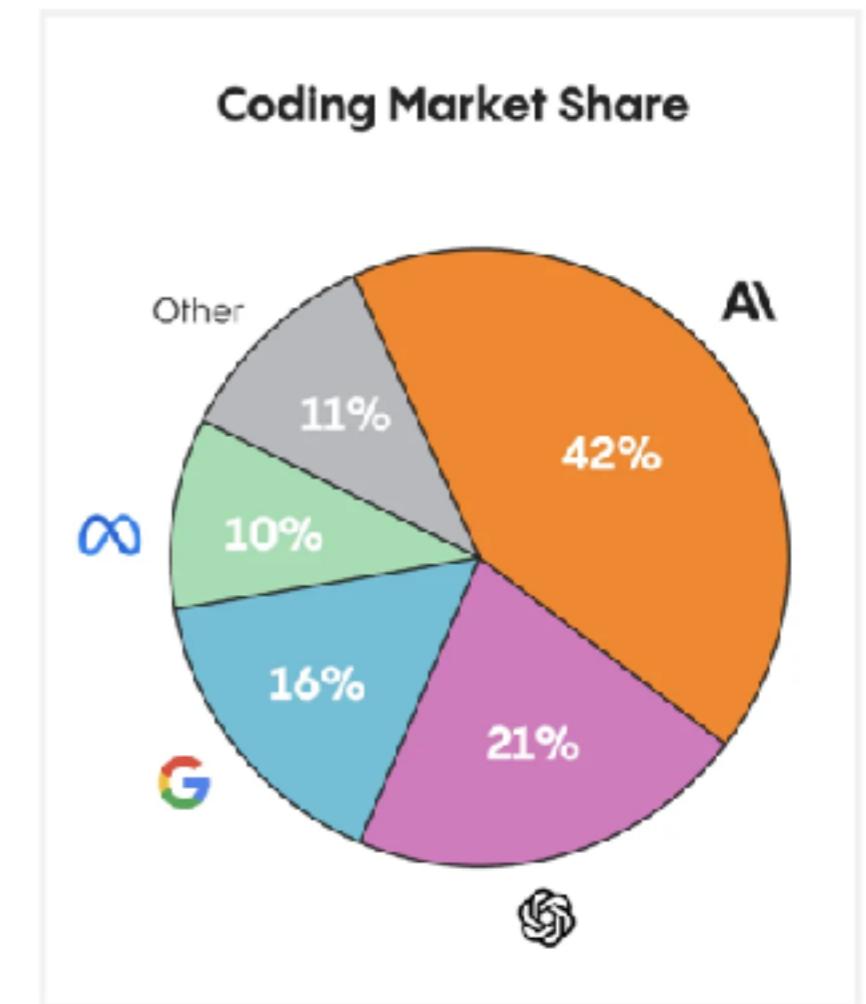
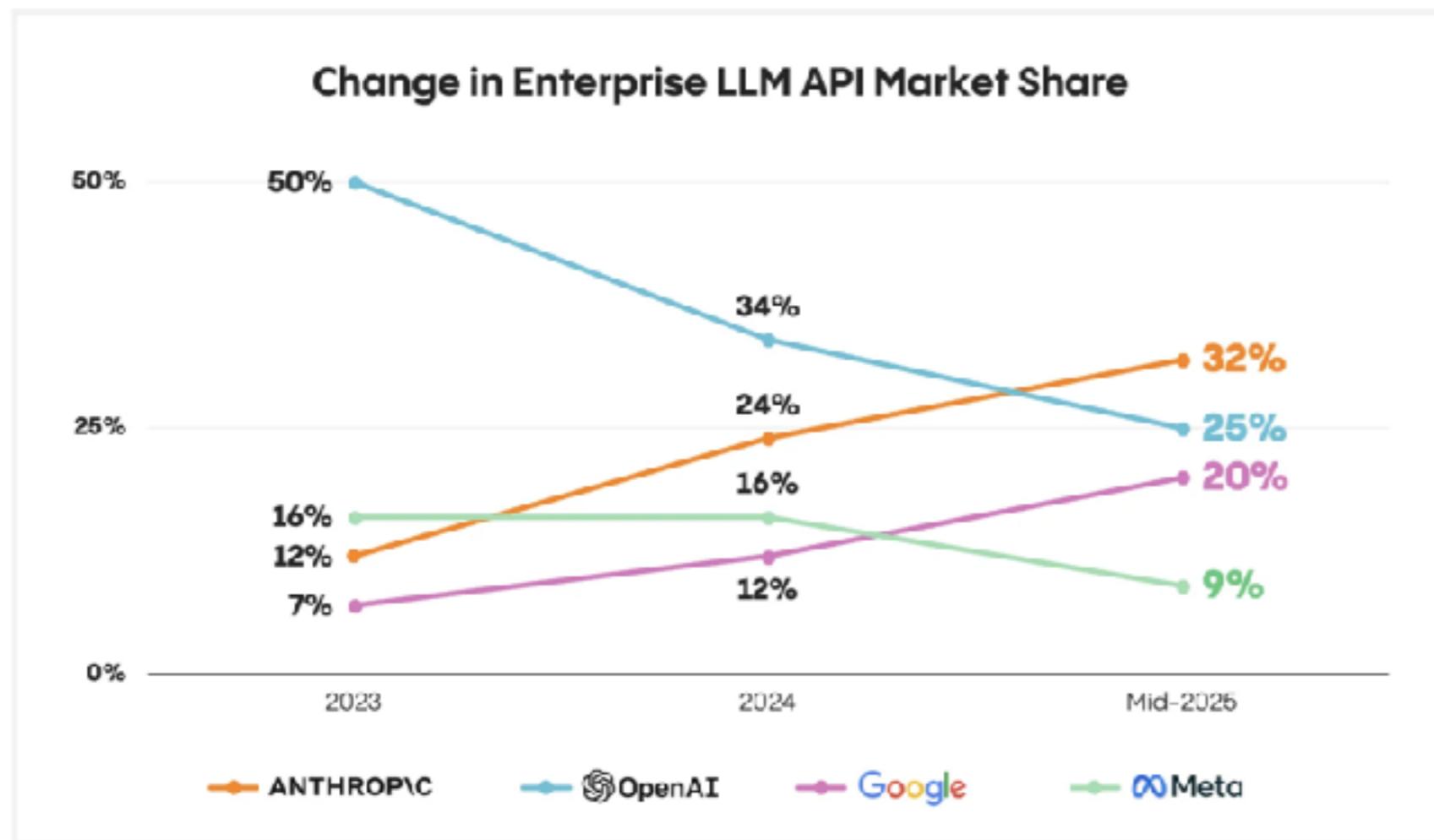
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# Market Share !!

## Enterprise LLM API Market Share by Usage



© 2025 Menlo Ventures

<https://menlovc.com/perspective/2025-mid-year-llm-market-update/>



# Anthropic Products ?

Chat-based

API-based

Claude Code

Web  
Mobile app

Integrate with external tools

CLI tools  
Code Agent

MCP  
Model Context Protocol

<https://www.anthropic.com/>



# ສືເໜືອງ



# มีด



# Prompt Engineering

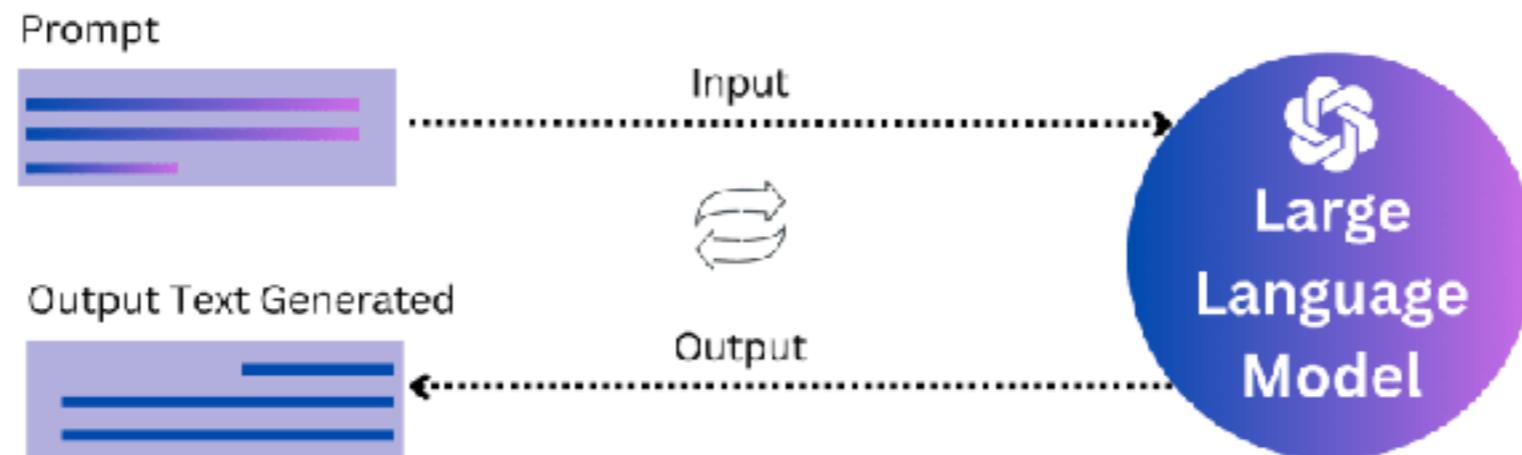
<https://docs.anthropic.com/en/docs/build-with-claude/prompt-engineering/overview>



# Prompt composition

Prompt engineering

Compose prompts from user inputs and context



<https://platform.openai.com/docs/guides/prompt-engineering>



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# Better Prompt

Write clear instructions

Provide reference text

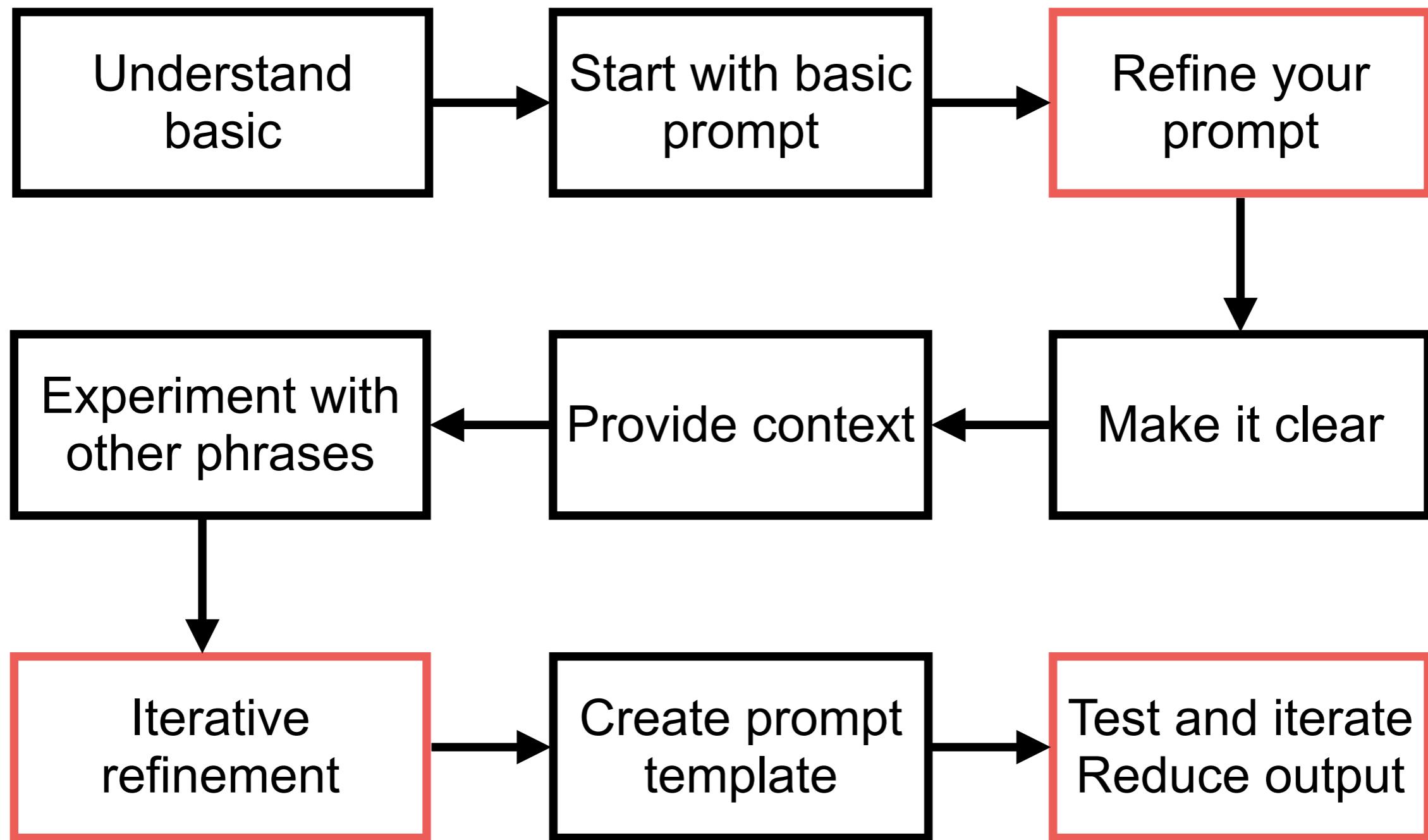
Split complex tasks into simpler subtasks

Give the model time to think

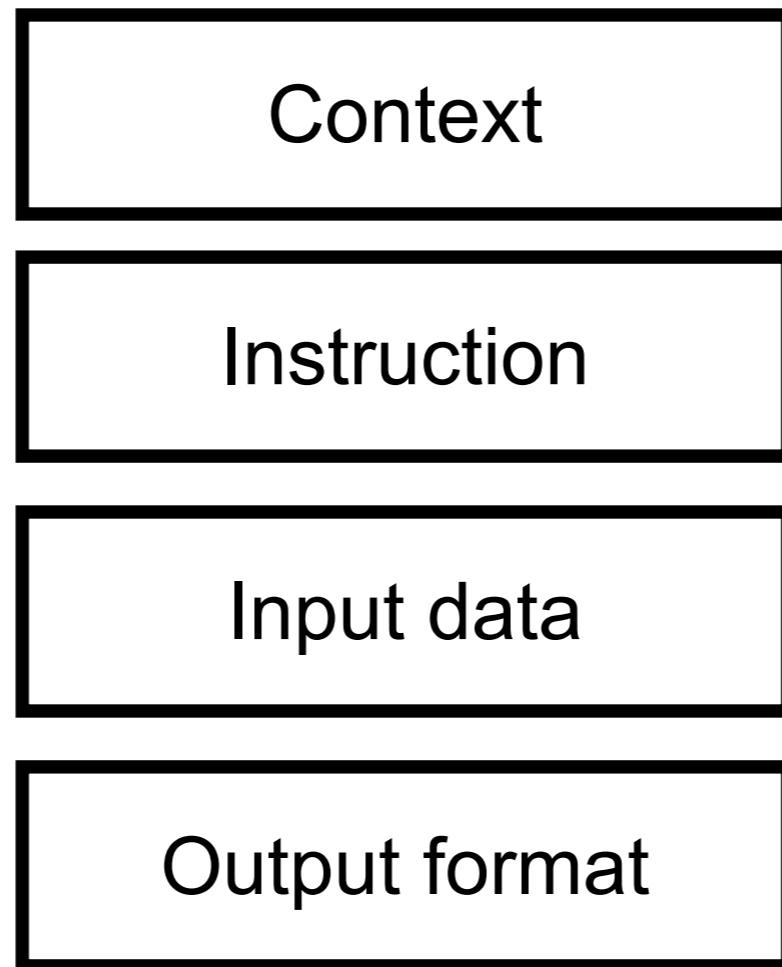
Testing and improve ...



# Basic of Prompt Engineer



# Structure of Prompt



# Prompting Guide

Prompt Engineering

## Prompt Engineering Guide

Prompt engineering is a relatively new discipline for developing and optimizing prompts to efficiently use language models (LMs) for a wide variety of applications and research topics. Prompt engineering skills help to better understand the capabilities and limitations of large language models (LLMs).

Researchers use prompt engineering to improve the capacity of LLMs on a wide range of common and complex tasks such as question answering and arithmetic reasoning. Developers use prompt engineering to design robust and effective prompting techniques that interface with LLMs and other tools.

Prompt engineering is not just about designing and developing prompts. It encompasses a wide range of skills and techniques that are useful for interacting and developing with LLMs. It's an important skill to interface, build with, and understand capabilities of LLMs. You can use prompt engineering to improve safety of LLMs and build new capabilities like augmenting LLMs with domain knowledge and external tools.

<https://www.promptingguide.ai/>



# Prompt Techniques

Zero-shot

Chain-of  
Thought (CoT)

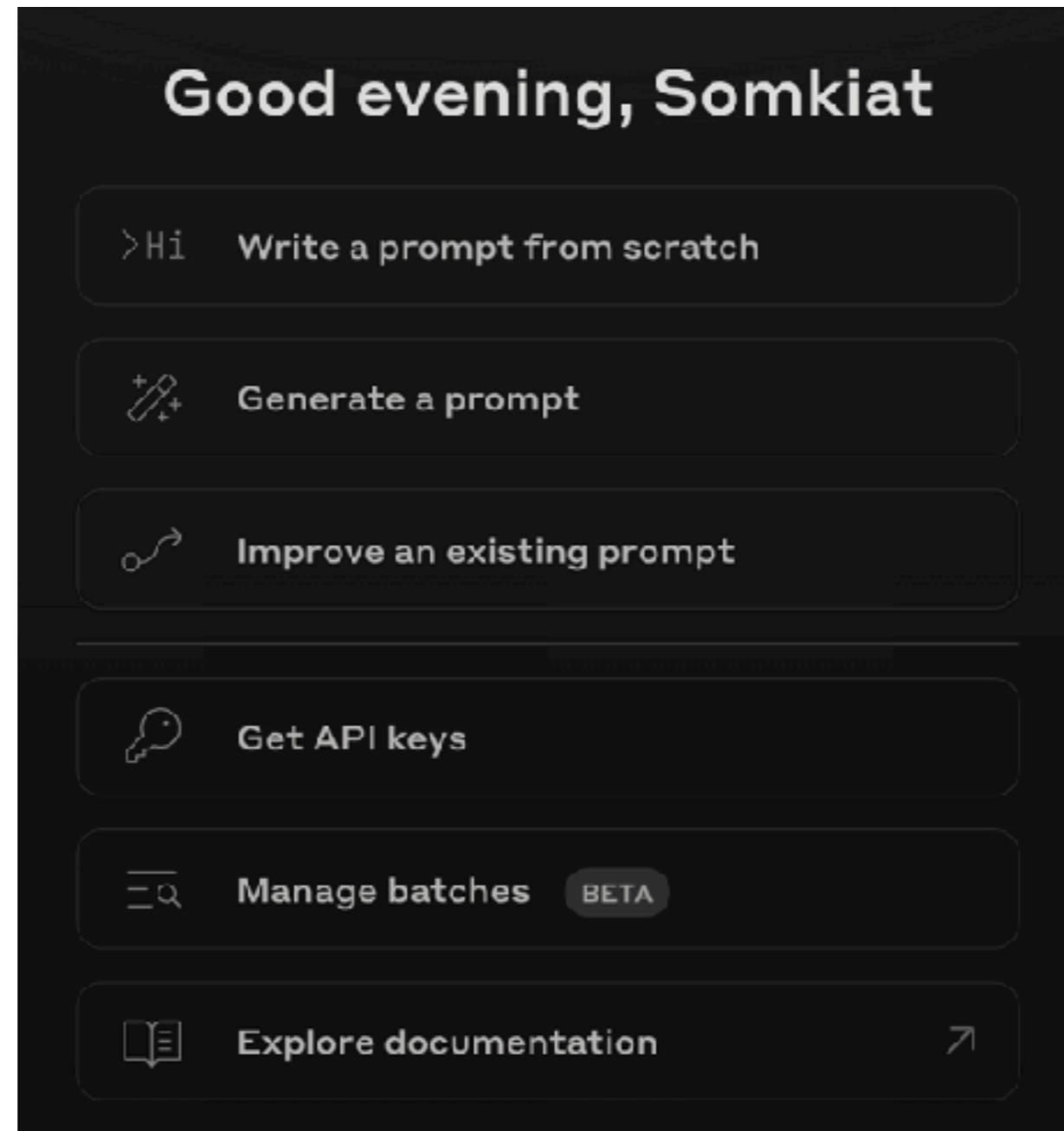
Few-shot

Meta or structure

<https://www.promptingguide.ai/techniques>



# Anthropic Dashboard



<https://console.anthropic.com/dashboard>



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# Chain of Thought Prompting (CoT)

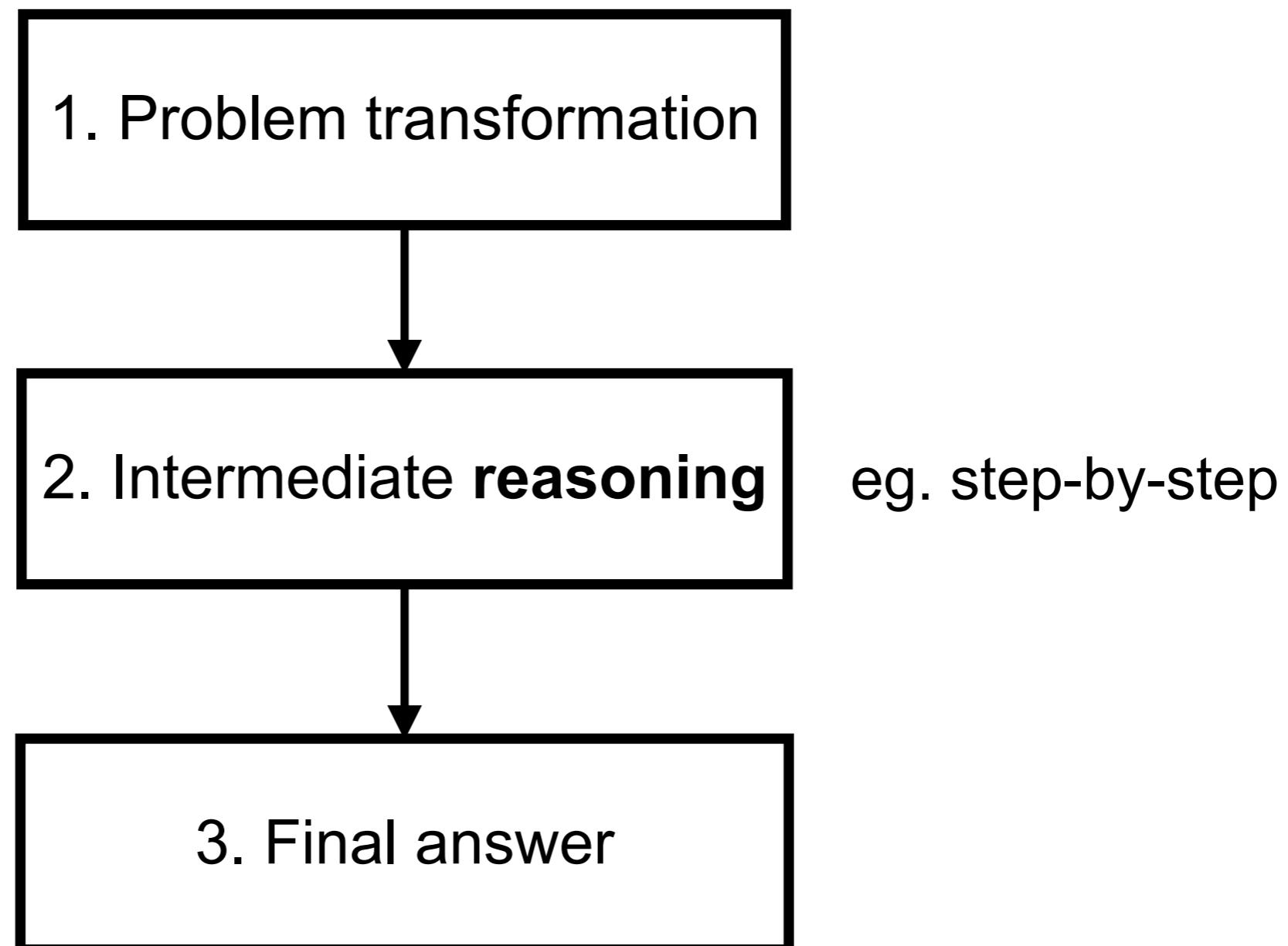
Technique used to improve the reasoning ability of LLM

Try to break down a complex problem into smaller, More manageable steps, lead to final answer

Reasoning model !!



# Chain of Thought Prompting (CoT)



# Chain of Thought Prompting (CoT)

## (a) Few-shot

Q: Roger has 5 tennis balls. He buys 2 more cans of tennis balls. Each can has 3 tennis balls. How many tennis balls does he have now?

A: The answer is 11.

Q: A juggler can juggle 16 balls. Half of the balls are golf balls, and half of the golf balls are blue. How many blue golf balls are there?

A:

(Output) The answer is 8. ✗

## (b) Few-shot-CoT

Q: Roger has 5 tennis balls. He buys 2 more cans of tennis balls. Each can has 3 tennis balls. How many tennis balls does he have now?

A: Roger started with 5 balls. 2 cans of 3 tennis balls each is 6 tennis balls.  $5 + 6 = 11$ . The answer is 11.

Q: A juggler can juggle 16 balls. Half of the balls are golf balls, and half of the golf balls are blue. How many blue golf balls are there?

A:

(Output) The juggler can juggle 16 balls. Half of the balls are golf balls. So there are  $16 / 2 = 8$  golf balls. Half of the golf balls are blue. So there are  $8 / 2 = 4$  blue golf balls. The answer is 4. ✓

## (c) Zero-shot

Q: A juggler can juggle 16 balls. Half of the balls are golf balls, and half of the golf balls are blue. How many blue golf balls are there?

A: The answer (arabic numerals) is

(Output) 8 ✗

## (d) Zero-shot-CoT (Ours)

Q: A juggler can juggle 16 balls. Half of the balls are golf balls, and half of the golf balls are blue. How many blue golf balls are there?

A: Let's think step by step.

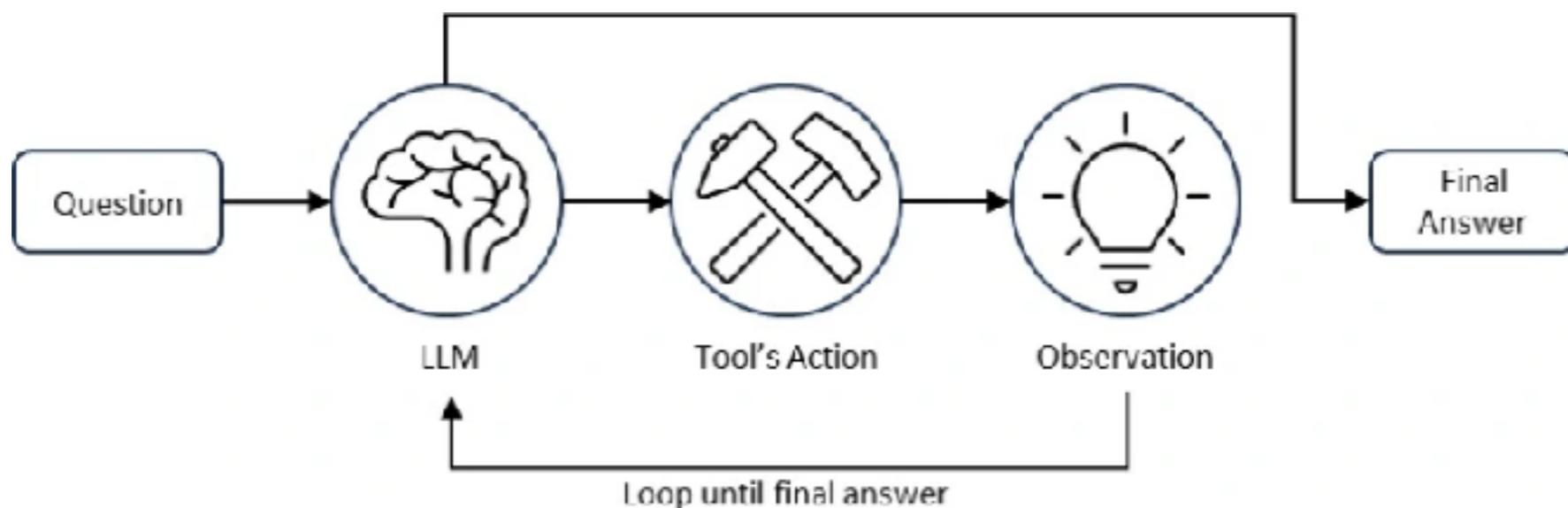
(Output) There are 16 balls in total. Half of the balls are golf balls. That means that there are 8 golf balls. Half of the golf balls are blue. That means that there are 4 blue golf balls. ✓

<https://www.promptingguide.ai/techniques/cot>



# ReAct Prompt

LLM reasoning and additional tools (expert)  
Improve better answer



<https://www.promptingguide.ai/techniques/react>



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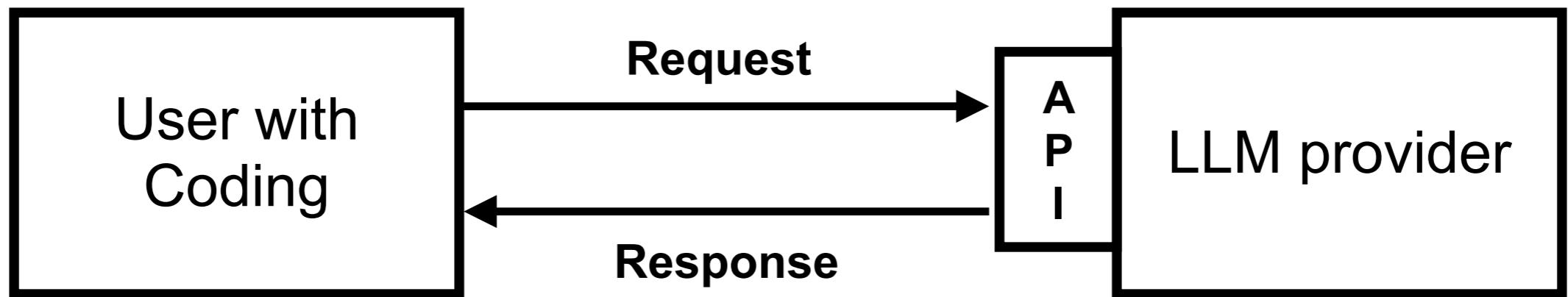




# Working with API



# Working with APIs



<https://console.anthropic.com/dashboard>



# Anthropic and OpenAI SDK

```
from openai import OpenAI

client = OpenAI(
    api_key="ANTHROPIC_API_KEY", # Your Anthropic API key
    base_url="https://api.anthropic.com/v1/" # Anthropic's API endpoint
)

response = client.chat.completions.create(
    model="claude-opus-4-1-20250805", # Anthropic model name
    messages=[
        {"role": "system", "content": "You are a helpful assistant."},
        {"role": "user", "content": "Who are you?"}
    ],
)
print(response.choices[0].message.content)
```

<https://docs.anthropic.com/en/api/openai-sdk>

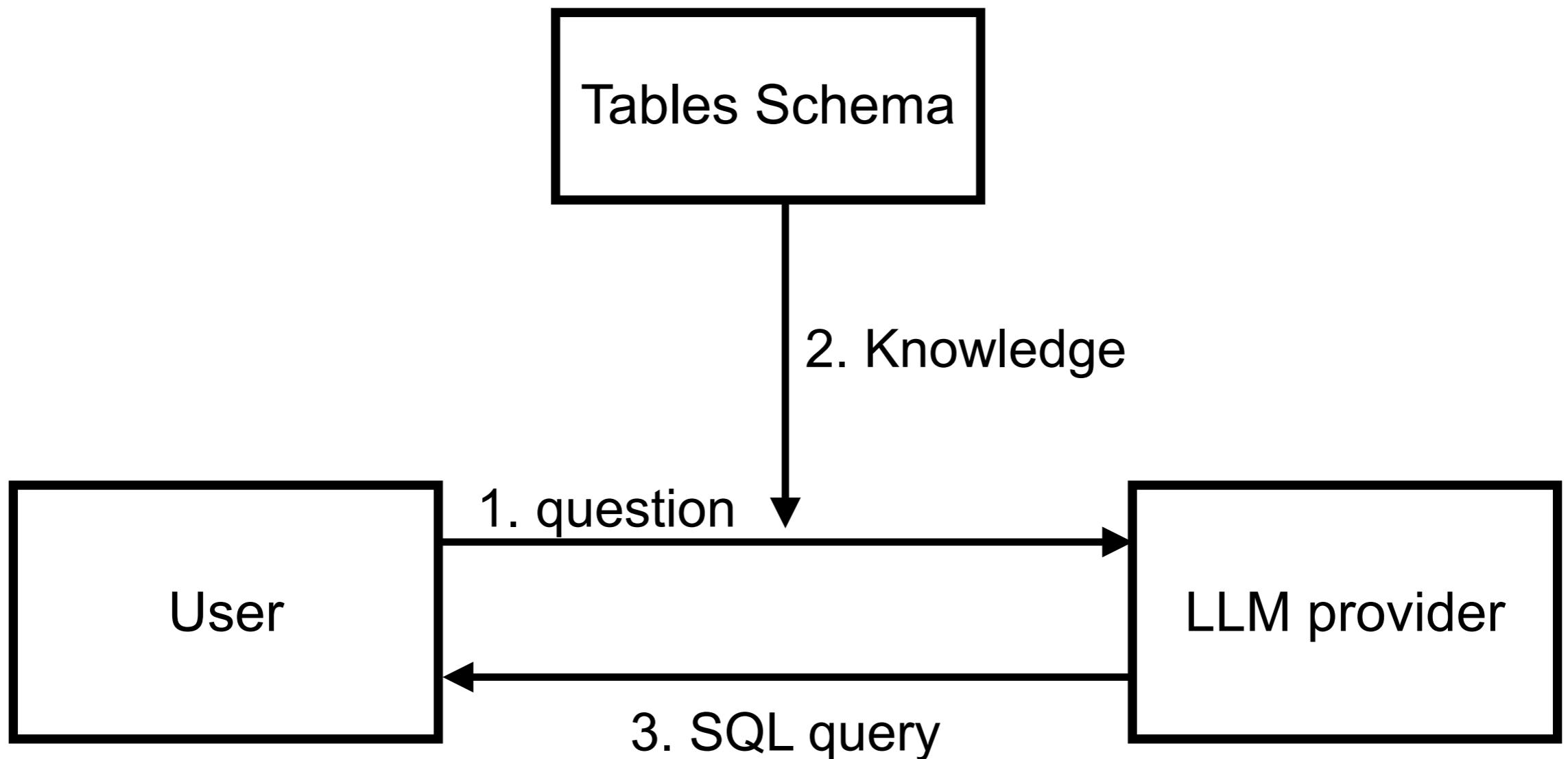


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# Text-to-SQL



<https://github.com/up1/workshop-ai-with-technical-team/tree/main/workshop/demo-sql>







# Working with Claude Code



# Claude Code

AI coding assistant by Anthropic  
Supervised coding agent

## Your code's new collaborator

Unleash Claude's raw power directly in your terminal. Search million-line codebases instantly. Turn hours-long workflows into a single command. Your tools. Your workflow. Your codebase, evolving at thought speed.

[Try Claude Code on Max](#)

[See our pricing options](#)



<https://www.anthropic.com/clause-code>

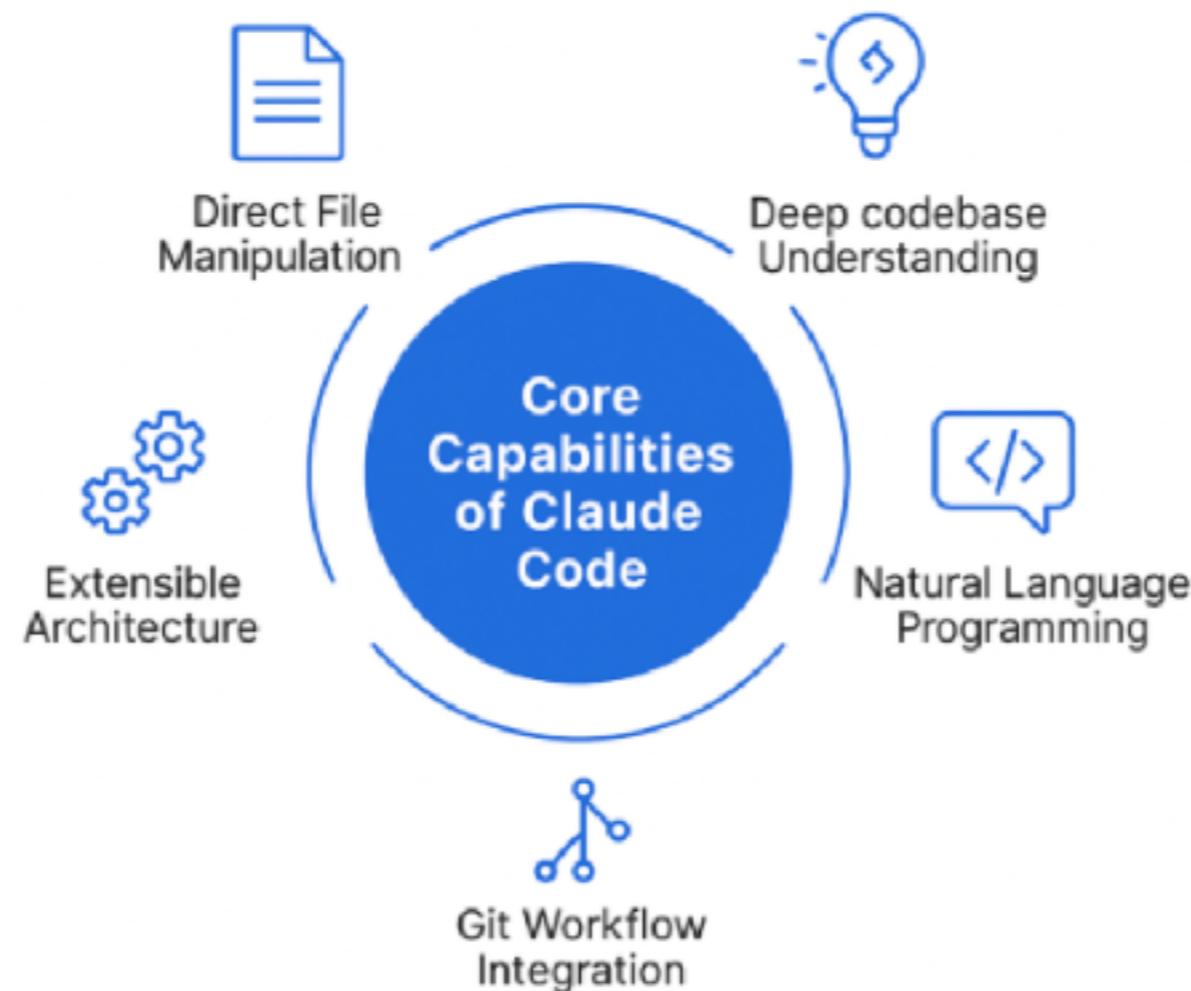


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# Capability of Claude Code



<https://www.analyticsvidhya.com/blog/2025/07/what-is-claude-code/>









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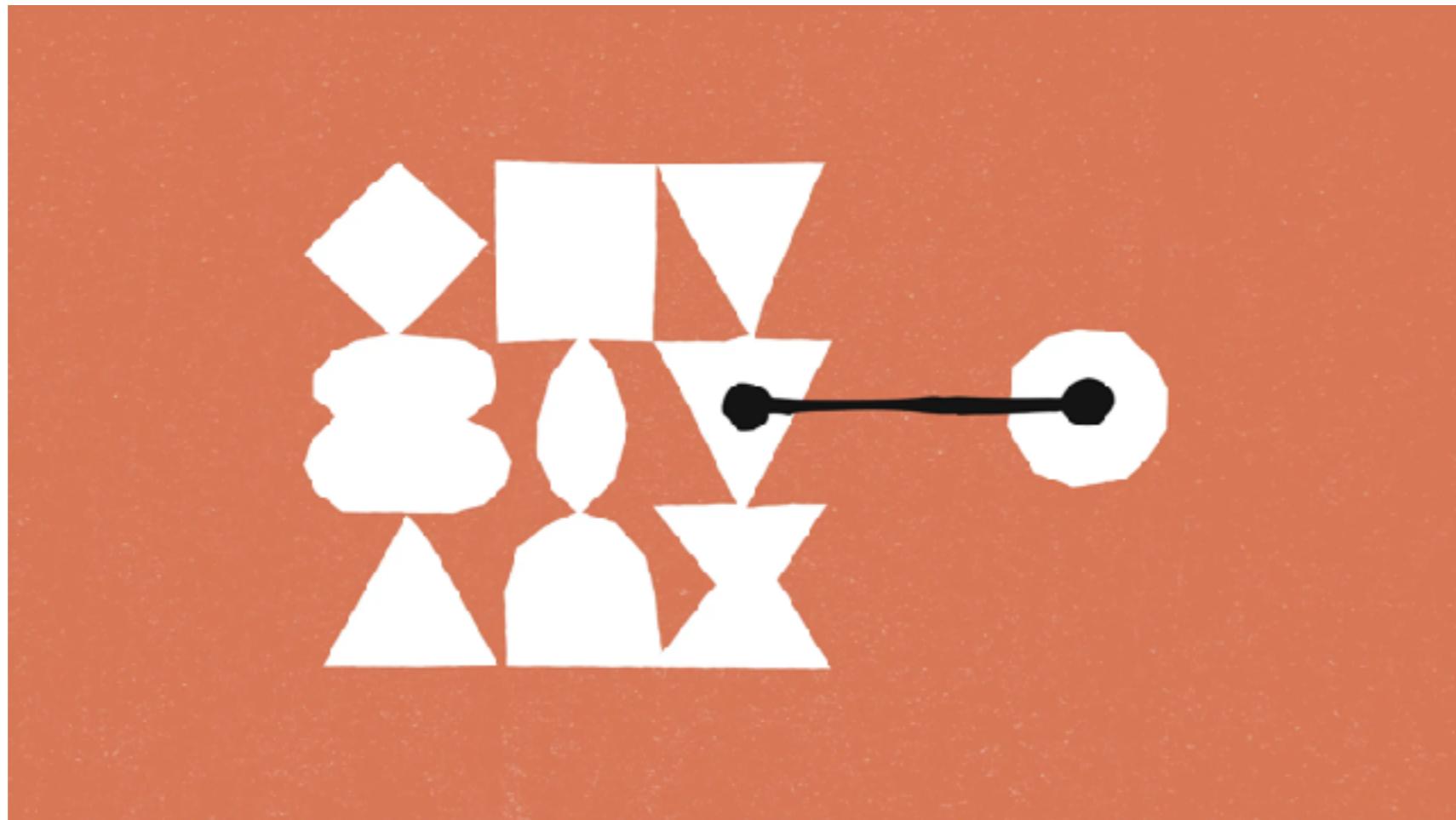


# **Model Context Protocol (MCP)**



# Model Context Protocol (MCP)

New standard for connecting AI assistants to system



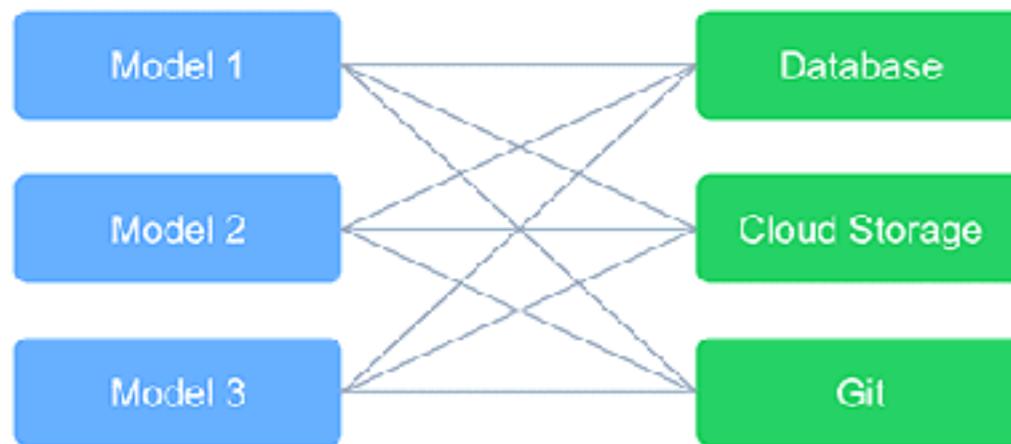
<https://www.anthropic.com/news/model-context-protocol>



# Model Context Protocol (MCP)

## Traditional Integration vs MCP Approach

Traditional: N×M Connections



Each model needs custom integration  
with each data source

9 Total Connections

MCP: N+M Connections



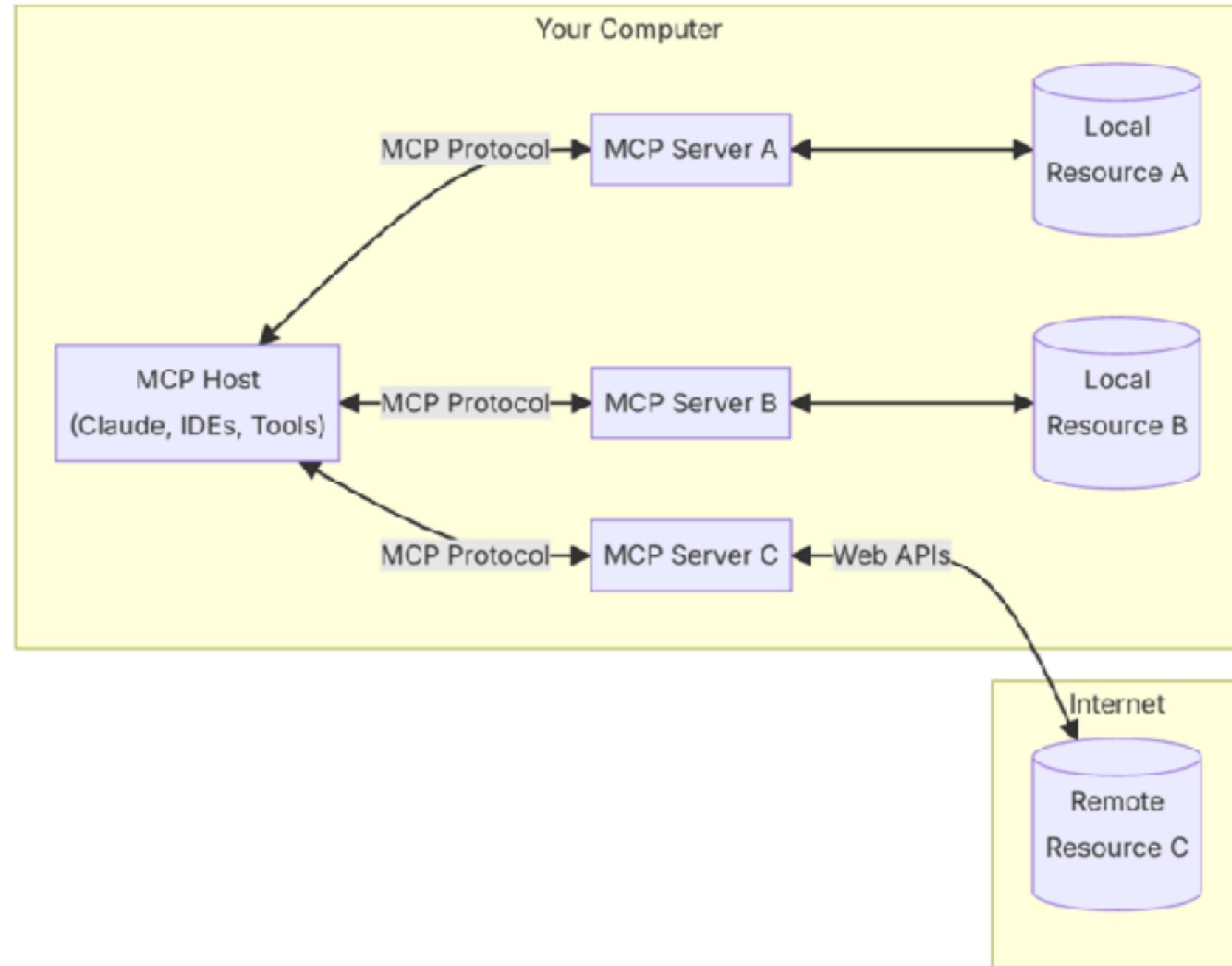
Models and data sources only need  
to integrate once with MCP

6 Total Connections

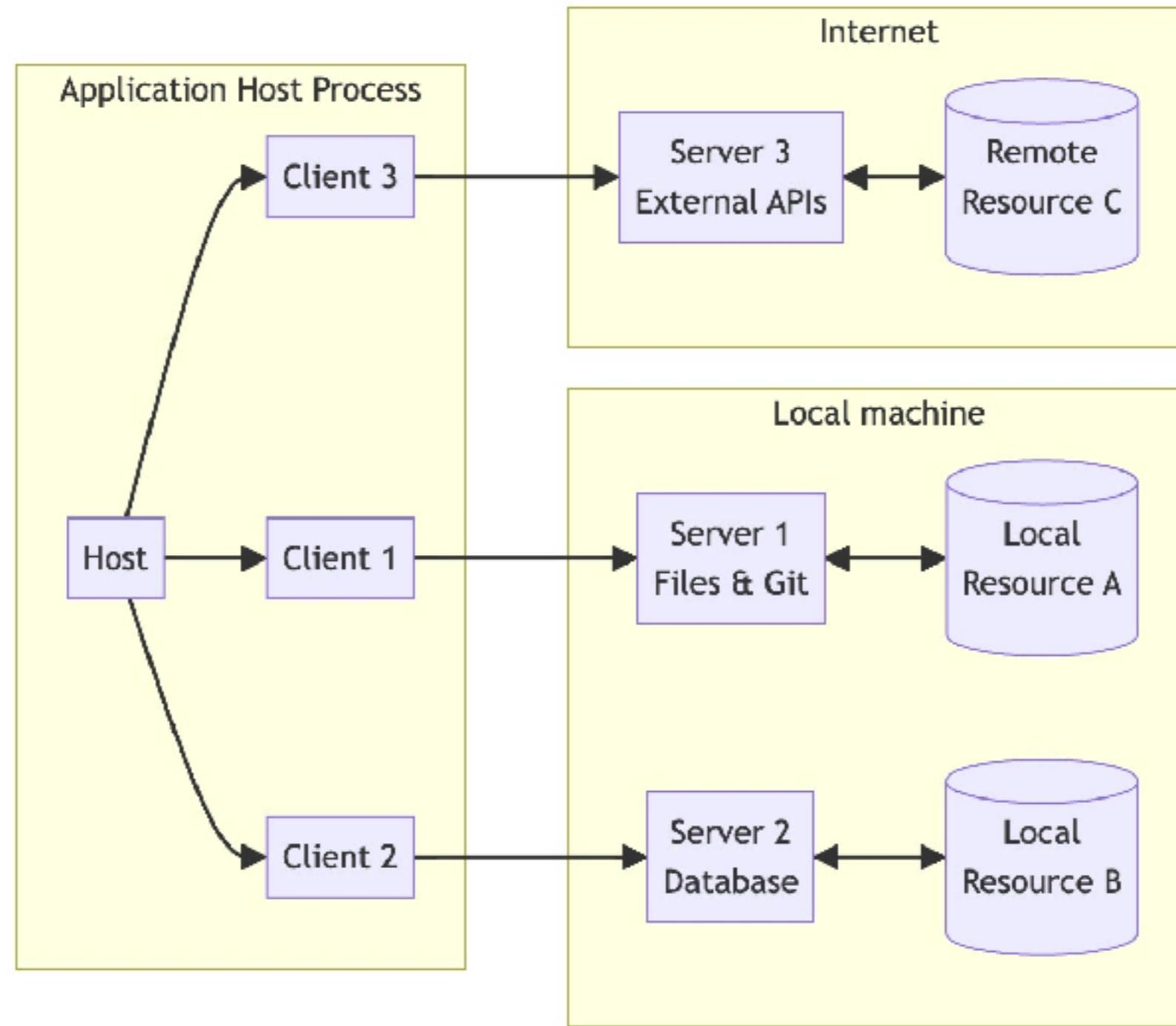
<https://salesforcedevops.net/index.php/2024/11/29/anthropics-model-context-protocol/>



# Model Context Protocol (MCP)



# Model Context Protocol (MCP)



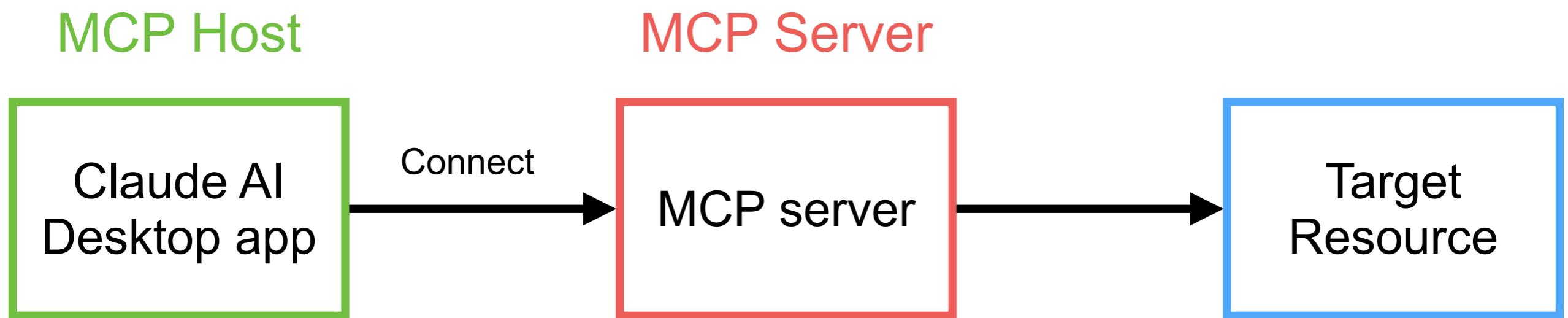
# List of MCP Servers

The screenshot shows the MCP.so website interface. At the top left is the logo 'MCP.so'. To its right are navigation links for 'Servers' and 'Clients'. On the far right are a user icon and a 'Sign In' button. Below the header, a message box displays '1577 MCP Servers in list'. The main content area features a large heading 'Find Awesome MCP Servers and Clients' in bold black and red text. Below it is a subtitle 'The largest collection of MCP Servers.' A search bar at the bottom contains the placeholder 'Search with keywords'.

<https://mcp.so/>



# Example MCP by Anthropic



<https://www.somkiat.cc/model-context-protocol/>







# Workshop with use cases







# Q/A

