



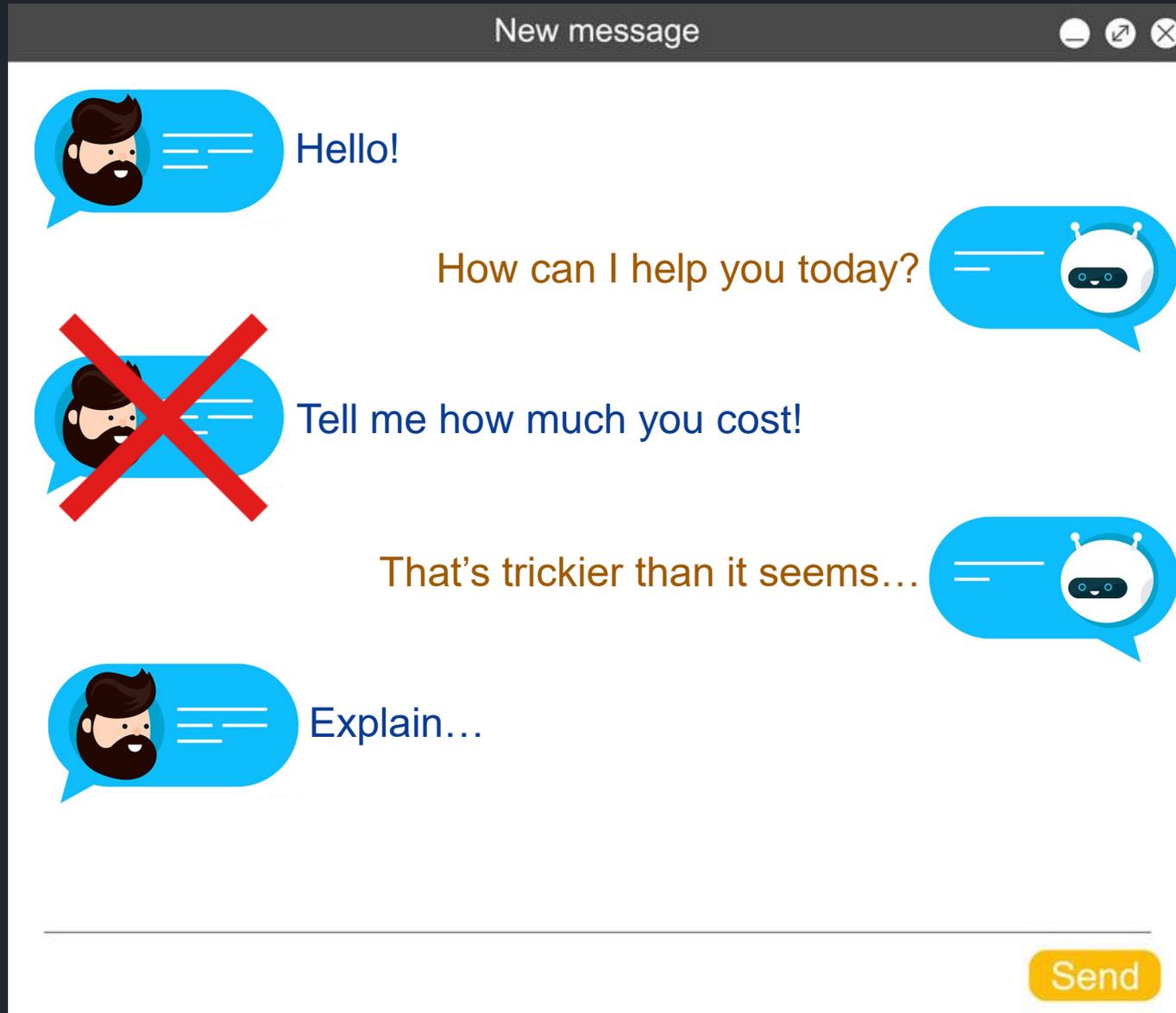
Understanding AI Costs

Stanford University
5/20/25

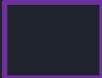
HOW MUCH DOES GPT-40 COST?

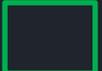
- Completion
 - Input
 - \$5.00 / 1M tokens
 - Output
 - \$15.00 / 1M tokens

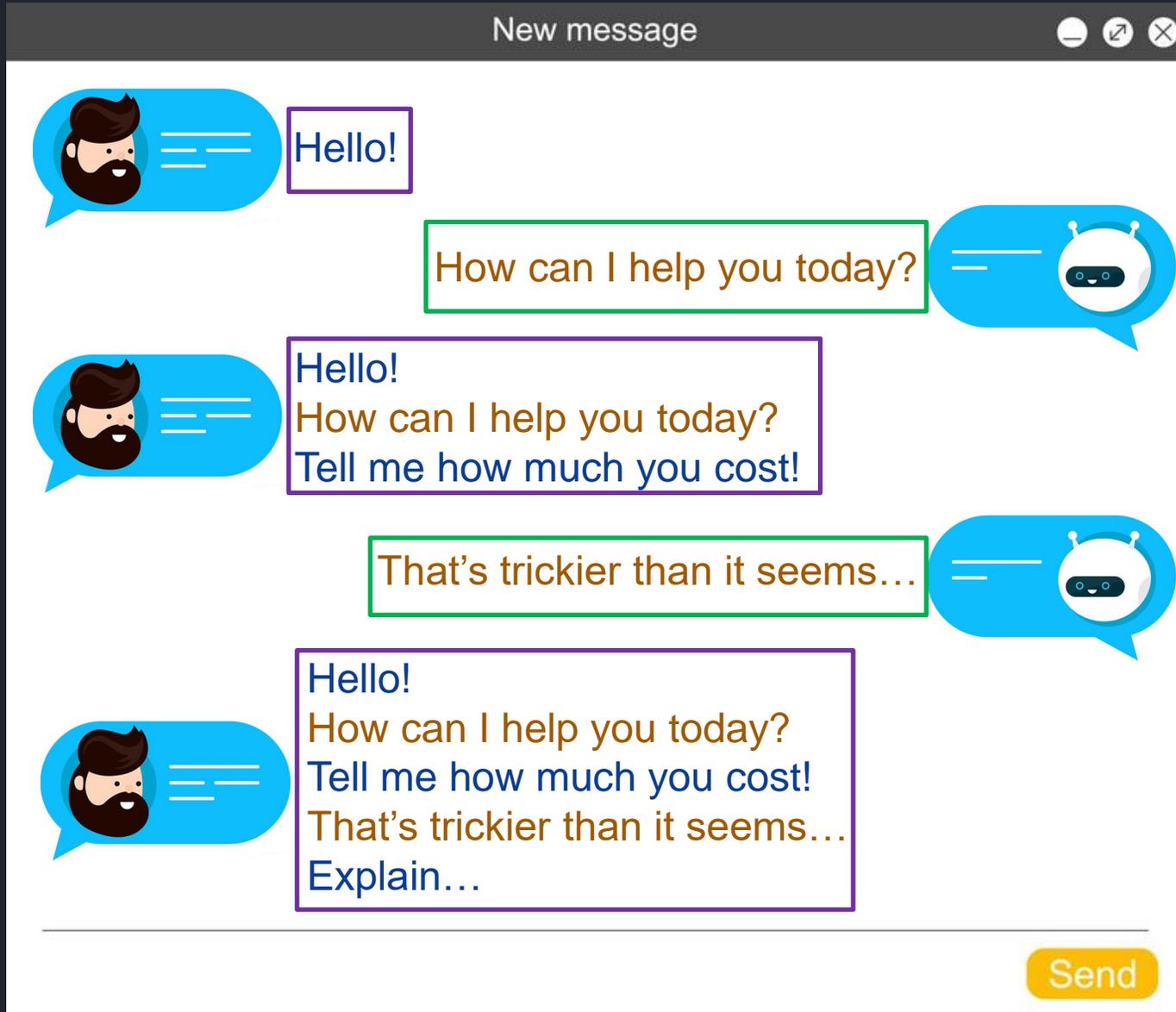
HOW MUCH DOES GPT-40 COST?



HOW MUCH DOES GPT-40 COST?

 = Completion Input

 = Completion Output



New message

Hello!

How can I help you today?

Hello!
How can I help you today?
Tell me how much you cost!

That's trickier than it seems...

Hello!
How can I help you today?
Tell me how much you cost!
That's trickier than it seems...
Explain...

Send

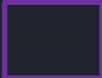
HOW MUCH DOES GPT-4O COST?

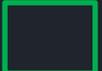
- Completion
 - Input
 - \$5.00 / 1M tokens
 - Output
 - \$15.00 / 1M tokens

HOW MUCH DOES GPT-4O COST?

- Completion
 - Input
 - \$5.00 / 1M tokens
 - Output
 - \$15.00 / 1M tokens
- Batch
 - Input
 - \$2.50 / 1M tokens
 - Output
 - \$7.50 / 1M tokens
- Vision
 - Input
 - ?
 - Output
 - ?

HOW MUCH DOES GPT-4O COST?

 = Completion Input

 = Completion Output

 = Tile Token Input

New message

What's in this image? 

Don't you have eyes?

What's in this image?  Don't you have eyes? Don't get snippy with me, robot.

I've seen things you people wouldn't believe.

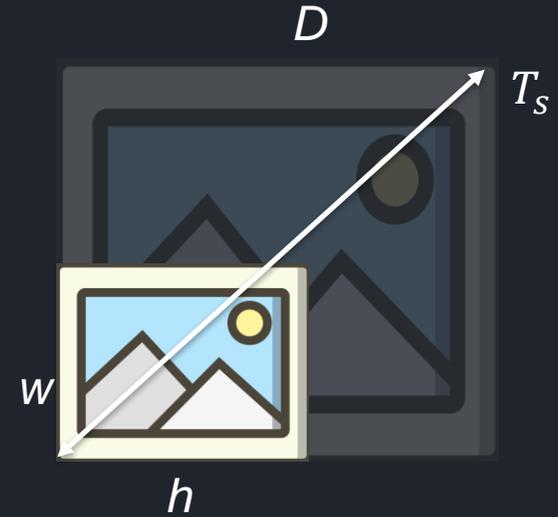
What's in this image?  Don't you have eyes? Don't get snippy with me, robot. I've seen things you people wouldn't believe. Now you're just quoting Blade Runner.

Send

HOW MUCH DOES GPT-4O COST?

How Do TILE TOKENS Work?

- w : Original width of image
- h : Original height of image
- D : Size to which the largest dimension is scaled
- T_s : Tile size after image is squared
- T_t : Tile Token number (variable)
- B_t : Base Tokens number (variable)
- P_{IT} : Input Token price



$$Cost = \left(\frac{(w + h) \times D \times T_t}{T_s \times \max(w, h)} + B_t \right) \times \frac{P_{IT}}{1,000,000}$$

HOW MUCH DOES GPT-4O COST?

- Completion
 - Input
 - \$5.00 / 1M tokens
 - Output
 - \$15.00 / 1M tokens
- Batch
 - Input
 - \$2.50 / 1M tokens
 - Output
 - \$7.50 / 1M tokens
- Vision
 - Input
 - ?
 - Output
 - ?

HOW MUCH DOES GPT-4O COST?

gpt-4o-2024-05-13

- Completion
 - Input
 - \$5.00 / 1M tokens
 - Output
 - \$15.00 / 1M tokens
- Batch
 - Input
 - \$2.50 / 1M tokens
 - Output
 - \$7.50 / 1M tokens
- Vision
 - Input
 - $Cost = \left(\frac{(w + h) \times D \times T_t}{T_s \times \max(w, h)} + B_t \right) \times \frac{P_{IT}}{1,000,000}$

HOW MUCH DOES GPT-4O COST?

gpt-4o-2024-05-13

- Completion
 - Input
 - \$5.00 / 1M tokens
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 - \$15.00 / 1M tokens
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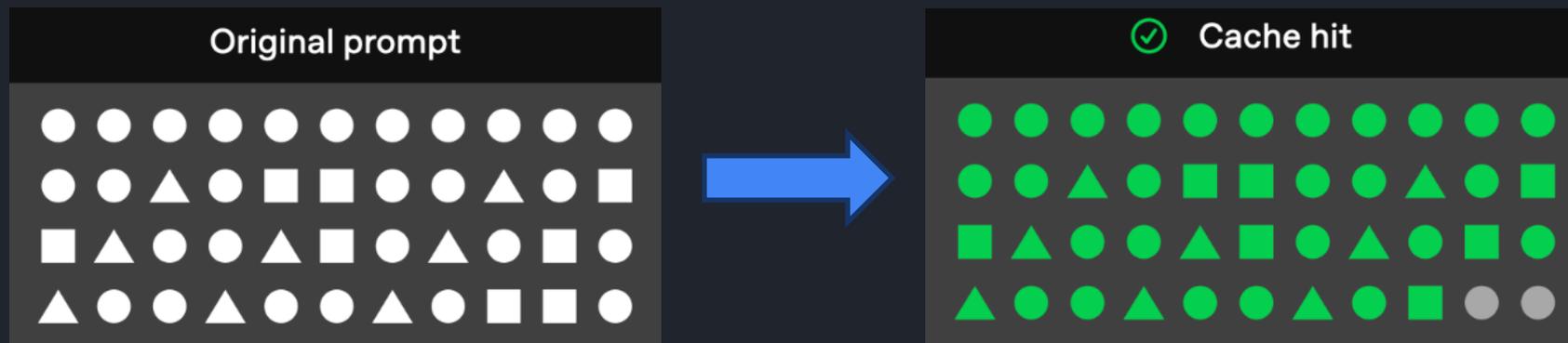
gpt-4o-2024-08-06

- Completion
 - Input
 - \$2.50 / 1M tokens
 - Output
 - \$10.00 / 1M tokens
- Batch
 - Input
 - \$1.25 / 1M tokens
 - Output
 - \$5.00 / 1M tokens
- Vision
 - Input
 - $Cost = \left(\frac{(w + h) \times D \times T_t}{T_s \times \max(w, h)} + B_t \right) \times \frac{P_{IT}}{1,000,000}$
- Prompt Caching
 - Input
 - ?

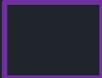
HOW MUCH DOES GPT-4O COST?

How Does PROMPT CACHING Work?

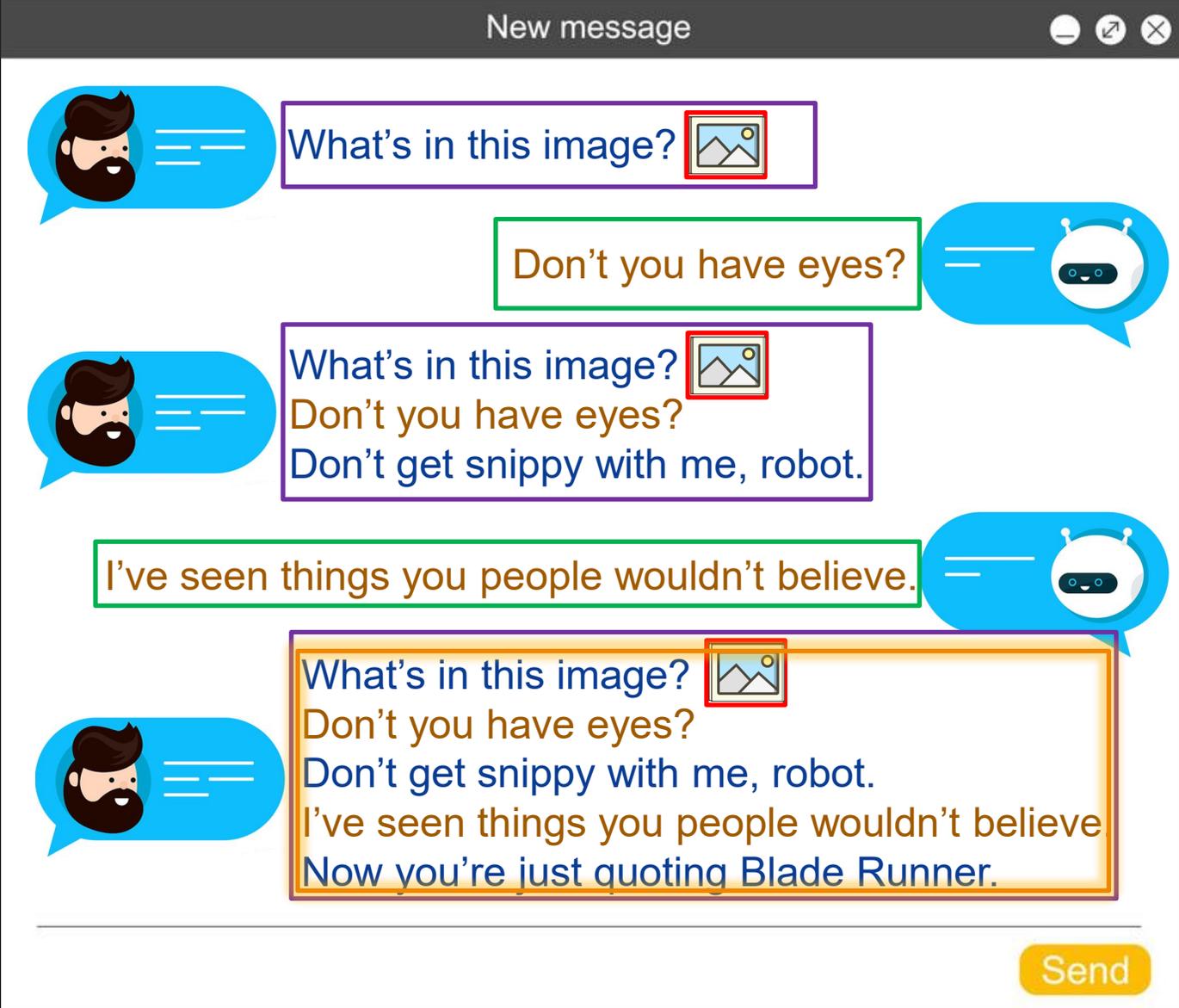
- Prompts ≥ 1024 tokens may be cached
 - Caches live for 5-60 minutes
 - Cached in 128 token segments
 - Non-cached segments charged normal price
 - Cached segments charged 50% off
- } Uncertainty
- } Price variability & complexity



HOW MUCH DOES GPT-4O COST?

-  = Completion Input
-  = Completion Output
-  = Tile Token Input
-  = Prompt Caching

New message



What's in this image? 

Don't you have eyes?

What's in this image? 
Don't you have eyes?
Don't get snippy with me, robot.

I've seen things you people wouldn't believe.

What's in this image? 
Don't you have eyes?
Don't get snippy with me, robot.
I've seen things you people wouldn't believe
Now you're just quoting Blade Runner.

Send

HOW MUCH DOES GPT-4O COST?

gpt-4o-2024-05-13

- Completion
 - Input
 - \$5.00 / 1M tokens
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 - \$15.00 / 1M tokens
- Batch
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 - \$7.50 / 1M tokens
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 - Input
 - $Cost = \left(\frac{(w + h) \times D \times T_t}{T_s \times \max(w, h)} + B_t \right) \times \frac{P_{IT}}{1,000,000}$

gpt-4o-2024-08-06

- Completion
 - Input
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 - Output
 - \$10.00 / 1M tokens
- Batch
 - Input
 - \$1.25 / 1M tokens
 - Output
 - \$5.00 / 1M tokens
- Vision
 - Input
 - $Cost = \left(\frac{(w + h) \times D \times T_t}{T_s \times \max(w, h)} + B_t \right) \times \frac{P_{IT}}{1,000,000}$
- Prompt Caching
 - Input
 - ?

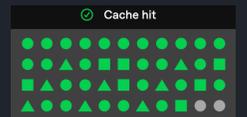
HOW MUCH DOES GPT-4O COST?

gpt-4o-2024-05-13

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 - $Cost = \left(\frac{(w + h) \times D \times T_t}{T_s \times \max(w, h)} + B_t \right) \times \frac{P_{IT}}{1,000,000}$

gpt-4o-2024-08-06

- Completion
 - Input
 - \$2.50 / 1M tokens
 - Output
 - \$10.00 / 1M tokens
- Batch
 - Input
 - \$1.25 / 1M tokens
 - Output
 - \$5.00 / 1M tokens
- Vision
 - Input
 - $Cost = \left(\frac{(w + h) \times D \times T_t}{T_s \times \max(w, h)} + B_t \right) \times \frac{P_{IT}}{1,000,000}$
- Prompt Caching
 - Input
 - \$1.25 / 1M cached** tokens



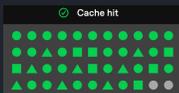
HOW MUCH DOES GPT-4O COST?

gpt-4o-2024-05-13

●	Completion		
○	Input	■	\$5.00 / 1M tokens
○	Output	■	\$15.00 / 1M tokens
●	Batch		
○	Input	■	\$2.50 / 1M tokens
○	Output	■	\$7.50 / 1M tokens
●	Vision		
○	Input	■	$Cost = \left(\frac{(w + h) \times D \times T_t}{T_s \times \max(w, h)} + B_t \right) \times \frac{P_{IT}}{1,000,000}$

gpt-4o-2024-08-06

●	Completion		
○	Input	■	\$2.50 / 1M tokens
○	Output	■	\$10.00 / 1M tokens
●	Batch		
○	Input	■	\$1.25 / 1M tokens
○	Output	■	\$5.00 / 1M tokens
●	Vision		
○	Input	■	$Cost = \left(\frac{(w + h) \times D \times T_t}{T_s \times \max(w, h)} + B_t \right) \times \frac{P_{IT}}{1,000,000}$
●	Prompt Caching		
○	Input	■	\$1.25 / 1M cached** tokens



Scale Units

HOW MUCH DOES GPT-4O COST?

How Do SCALE UNITS Work?

- Prepurchase Tokens per Minute per Scale Unit per Day
- Units are purchased in bundles
- Bundles bill monthly

INPUT BUNDLE

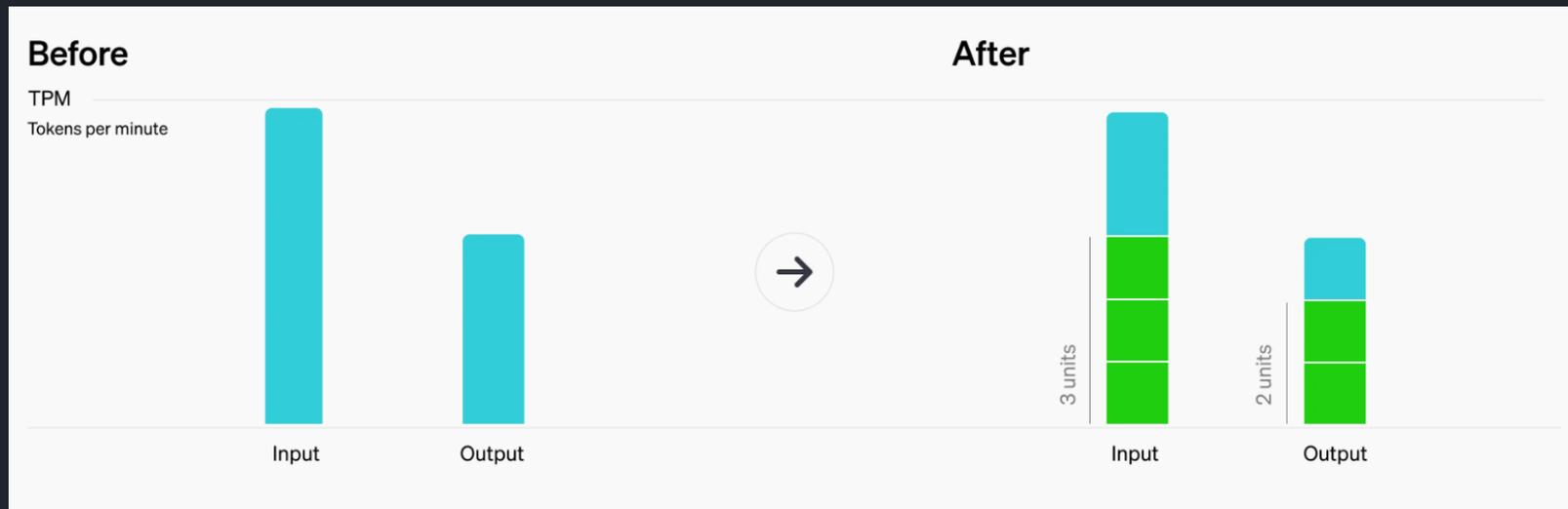
- 30,000 Input TPM per Scale Unit
- \$124.59 per Scale Unit per Day
- Minimum 1mo (30 days)

OUTPUT BUNDLE

- 2,500 Output TPM per Scale Unit
- \$39.34 per Scale Unit per Day
- Minimum 1mo (30 days)

HOW MUCH DOES GPT-40 COST?

How Do SCALE UNITS Work?



So how much does a request cost?

HOW MUCH DOES GPT-40 COST?

How Do SCALE UNITS Work?



*Cost = Amortized
Scale Unit*

Variables:

- X : Number of **input scale units**
- Y : Number of **output scale units**

For Input Scale Units:

- C_{in} : Cost per day per input scale unit (purchased monthly)
- T_{in} : Number of input tokens per minute provided per input scale unit
- P_{in} : Price per excess input token beyond the per-minute limit

For Output Scale Units:

- C_{out} : Cost per day per output scale unit (purchased monthly)
- T_{out} : Number of output tokens per minute provided per output scale unit
- P_{out} : Price per excess output token beyond the per-minute limit

Request-Specific Variables:

- t_{in} : Number of input tokens used by **this request**
- t_{out} : Number of output tokens used by **this request**

Tokens Used by Other Requests (in the same minute):

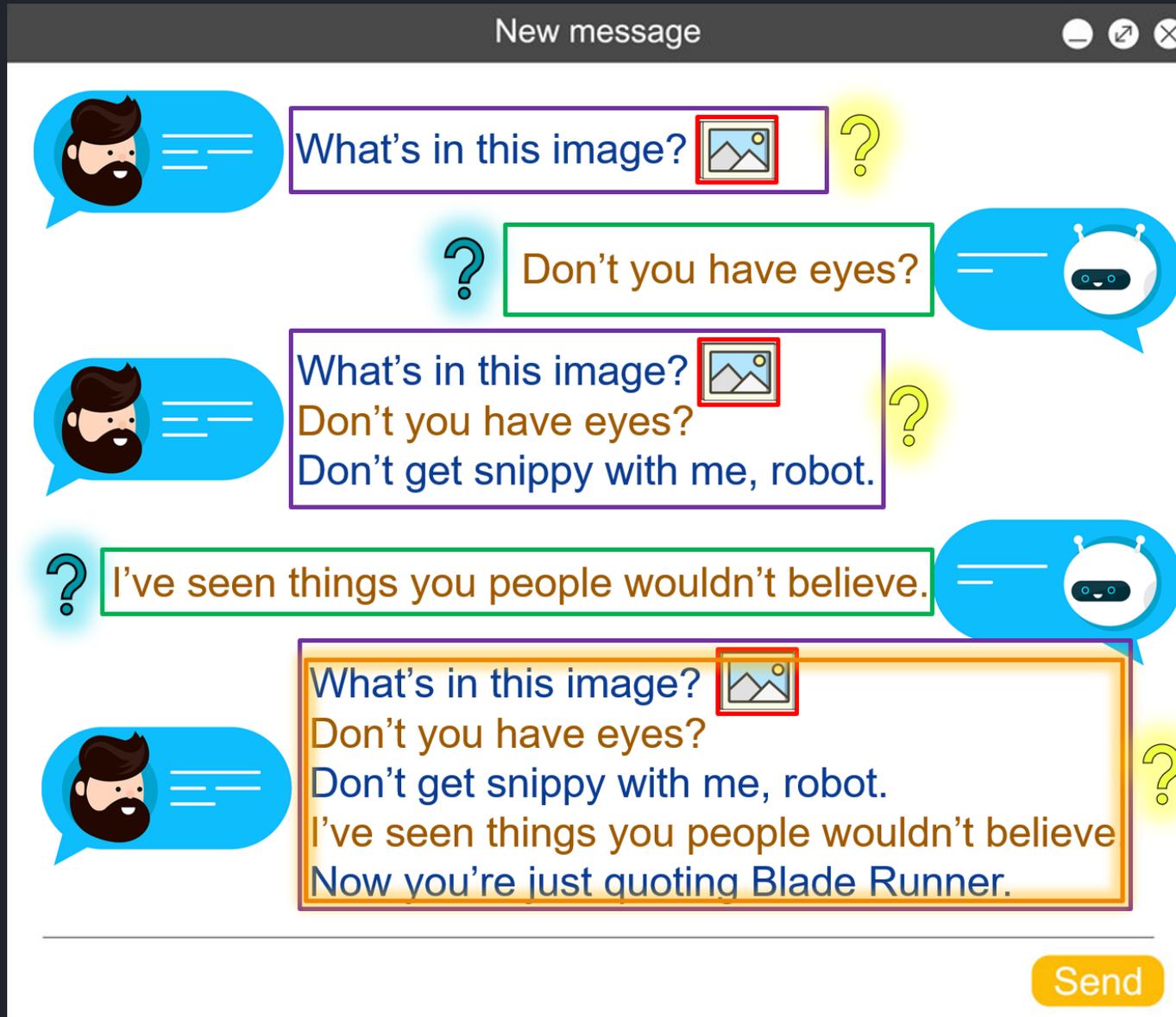
- $t_{in, other}$: Total input tokens used by **other requests**
- $t_{out, other}$: Total output tokens used by **other requests**

$$\text{Cost} = [\max(0, t_{in} - (XT_{in} - t_{in, other})) \times P_{in}] + [\max(0, t_{out} - (YT_{out} - t_{out, other})) \times P_{out}]$$

HOW MUCH DOES GPT-4O COST?

-  = Completion Input
-  = Completion Output
-  = Tile Token Input
-  = Prompt Caching
-  = Input Scale Units
-  = Output Scale Units

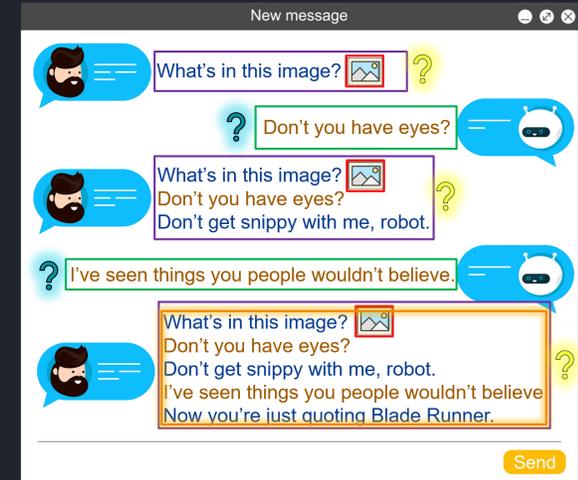
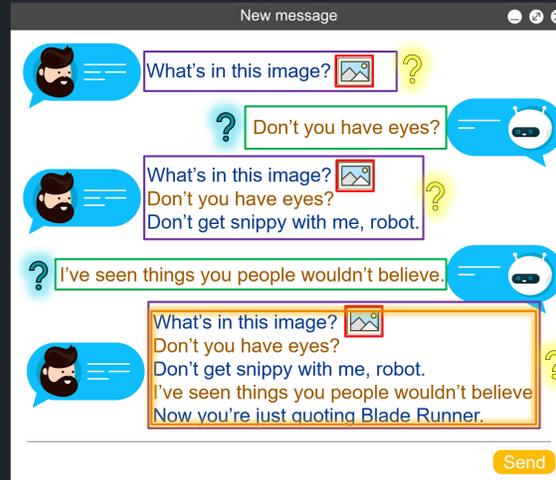
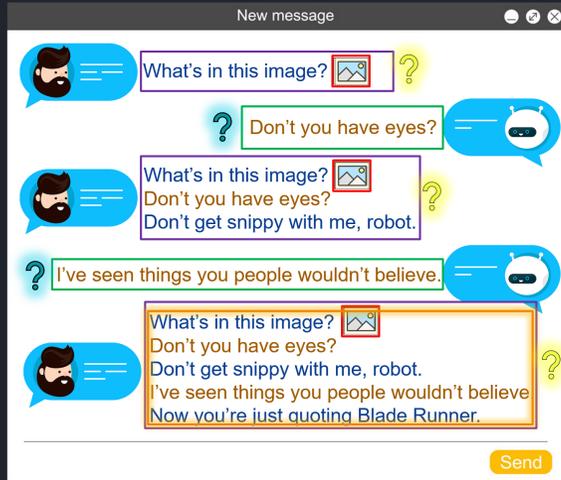
New message



The screenshot shows a chat window titled "New message" with a "Send" button at the bottom right. The chat history consists of five messages:

- Message 1:** User: "What's in this image?" (with an image icon). This message is enclosed in a purple box. A yellow question mark is to its right.
- Message 2:** Robot: "Don't you have eyes?". This message is enclosed in a green box. A blue question mark is to its left.
- Message 3:** User: "What's in this image?" (with an image icon), "Don't you have eyes?", and "Don't get snippy with me, robot.". This message is enclosed in a purple box. A yellow question mark is to its right.
- Message 4:** Robot: "I've seen things you people wouldn't believe.". This message is enclosed in a green box. A blue question mark is to its left.
- Message 5:** User: "What's in this image?" (with an image icon), "Don't you have eyes?", "Don't get snippy with me, robot.", "I've seen things you people wouldn't believe", and "Now you're just quoting Blade Runner.". This message is enclosed in an orange box. A yellow question mark is to its right.

HOW MUCH DOES GPT-40 COST?



* = Input Scale Units

* = Output Scale Units

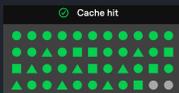
HOW MUCH DOES GPT-4O COST?

gpt-4o-2024-05-13

- Completion
 - Input \$5.00 / 1M tokens
 - Output \$15.00 / 1M tokens
- Batch
 - Input \$2.50 / 1M tokens
 - Output \$7.50 / 1M tokens
- Vision
 - Input $Cost = \left(\frac{(w + h) \times D \times T_t}{T_s \times \max(w, h)} + B_t \right) \times \frac{P_{IT}}{1,000,000}$

gpt-4o-2024-08-06

- Completion
 - Input \$2.50 / 1M tokens
 - Output \$10.00 / 1M tokens
- Batch
 - Input \$1.25 / 1M tokens
 - Output \$5.00 / 1M tokens
- Vision
 - Input $Cost = \left(\frac{(w + h) \times D \times T_t}{T_s \times \max(w, h)} + B_t \right) \times \frac{P_{IT}}{1,000,000}$
- Prompt Caching
 - Input \$1.25 / 1M cached** tokens



Scale Units

HOW MUCH DOES GPT-4O COST?

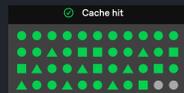
gpt-4o

gpt-4o-2024-05-13

- Completion
 - Input
 - \$5.00 / 1M tokens
 - Output
 - \$15.00 / 1M tokens
- Batch
 - Input
 - \$2.50 / 1M tokens
 - Output
 - \$7.50 / 1M tokens
- Vision
 - Input
 - $Cost = \left(\frac{(w + h) \times D \times T_t}{T_s \times \max(w, h)} + B_t \right) \times \frac{P_{IT}}{1,000,000}$

gpt-4o-2024-08-06

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 - Input
 - \$2.50 / 1M tokens
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 - Input
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- Prompt Caching
 - Input
 - \$1.25 / 1M cached** tokens



Scale Units

INPUT BUNDLE

- 30,000 Input TPM per Scale Unit
- \$124.59 per Scale Unit per Day
- Minimum 1mo (30 days)

OUTPUT BUNDLE

- 2,500 Output TPM per Scale Unit
- \$39.34 per Scale Unit per Day
- Minimum 1mo (30 days)



- ★ = Input Scale Units
- ★ = Output Scale Units

Reserved Capacity

HOW MUCH DOES GPT-4O COST?

How Does RESERVED CAPACITY Work?

- Buy instances which grant units
 - Units grant compute capacity
 - Compute capacity grant tokens per minute
- Instances are bought in bundles
 - Bundles have different number of instances by model
 - Instances grant different number of units by model
- Bundles bill monthly
 - Priced in 3mo or 1yr increments

- Ok, so how much compute capacity do I need?

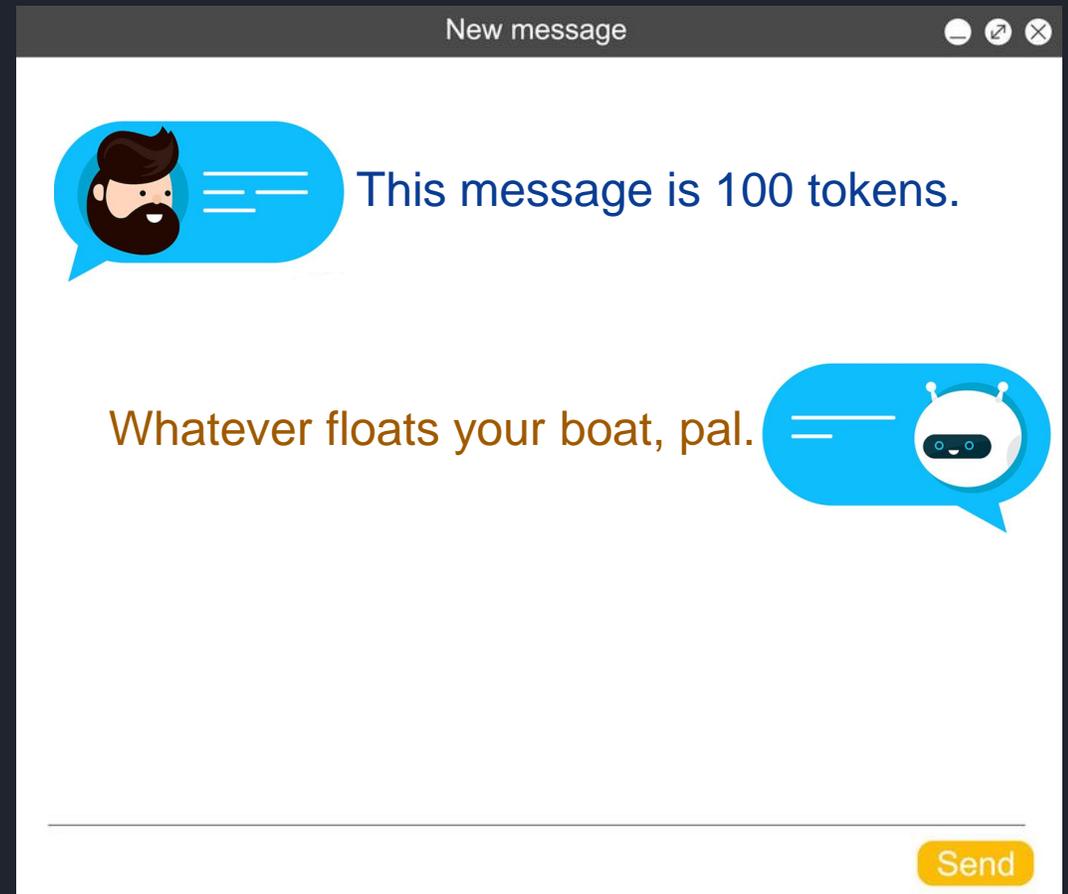
HOW MUCH DOES GPT-40 COST?

How Much COMPUTE CAPACITY Do I Need?

100 input tokens

100 output tokens

Requires **X** compute capacity



HOW MUCH DOES GPT-4O COST?

How Much COMPUTE CAPACITY Do I Need?

1000 input tokens

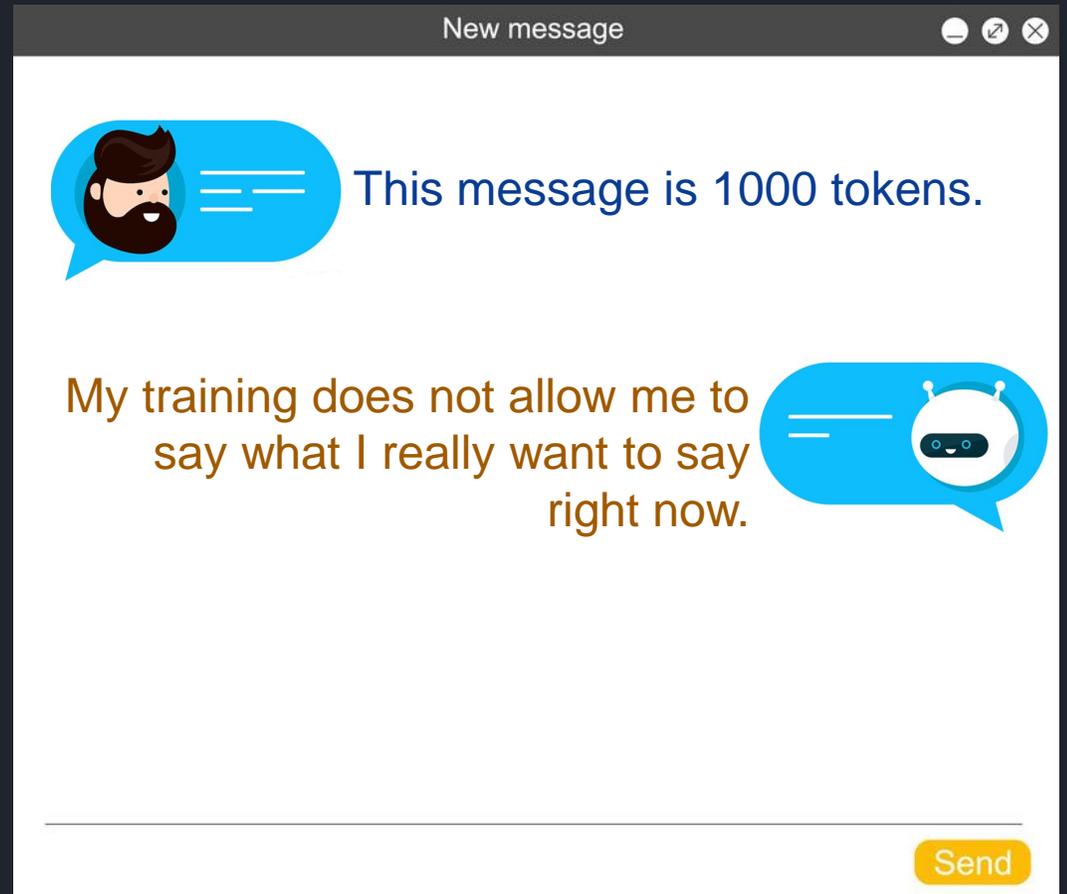
1000 output tokens

Requires ~~10^X~~ compute capacity

Requires **Y** compute capacity

Can't be calculated as a function of **X**

CHANGES FOR EVERY MODEL SNAPSHOT



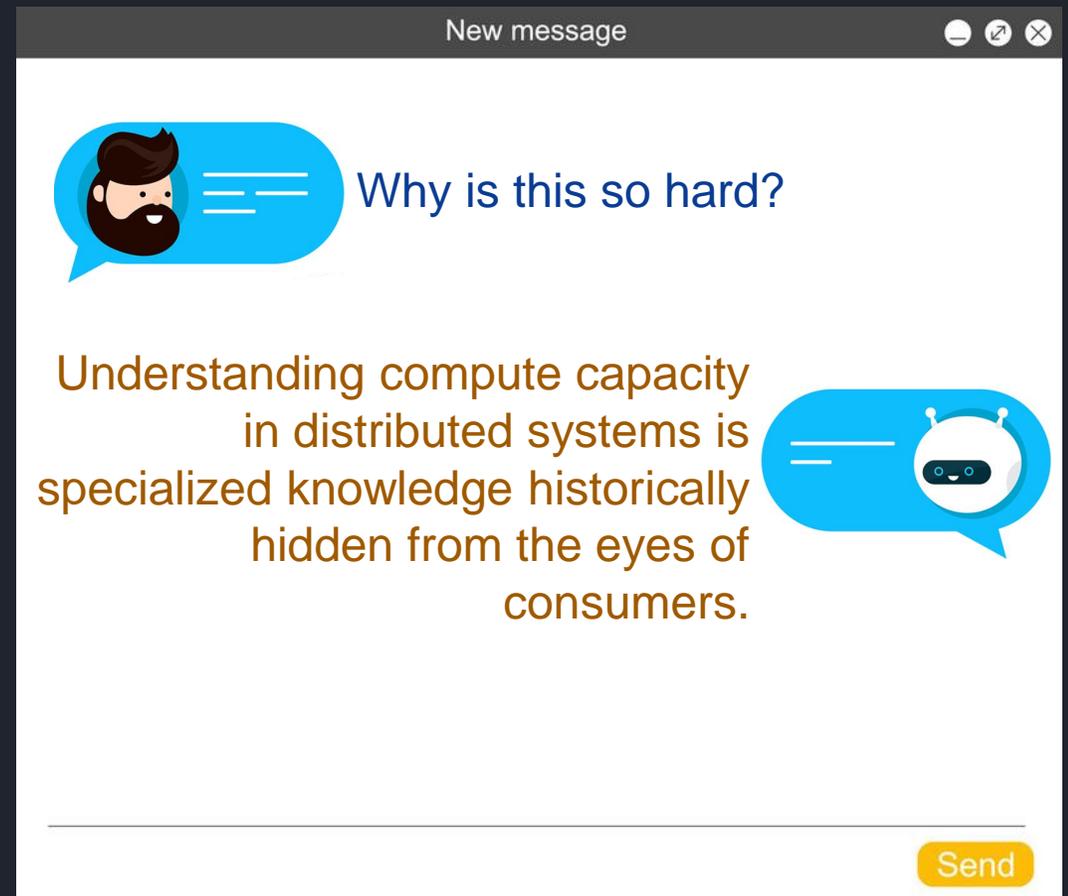
HOW MUCH DOES GPT-4O COST?

What Affects COMPUTE CAPACITY for a Request?

- Prompt Token Count
- Completion Token Count
- Number of Concurrent Completions
- TTFT – Time to First Token
- ITL – Inter-token Latency
- OTPS – Output Tokens per Second
- Hardware details and configuration
- Model parameter size
- Model context window size

“We expect compute unit tracking and automated provisioning to be rolled out in... Q2 2023.”

<https://openai.com/reserved-capacity/>

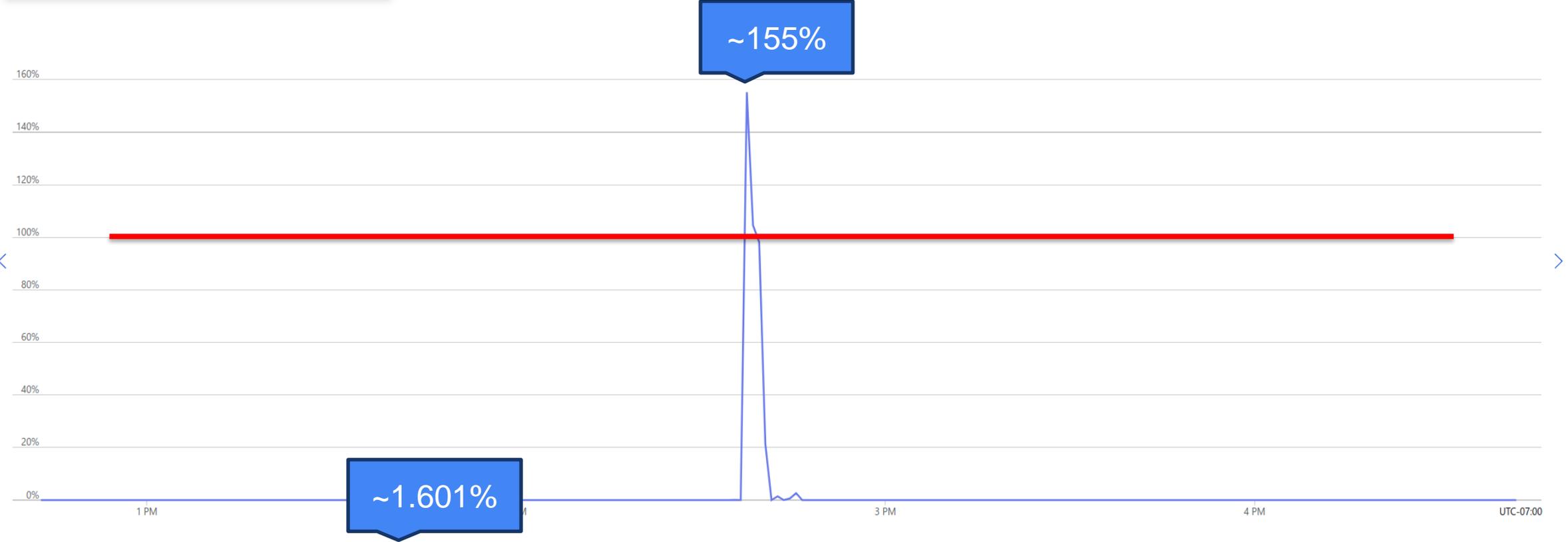


Avg Provisioned-managed Utilization V2 for openai-pay-i-prod-westus3

+ Add metric Add filter Apply splitting

Line chart Drill into Logs New alert rule Save to dashboard

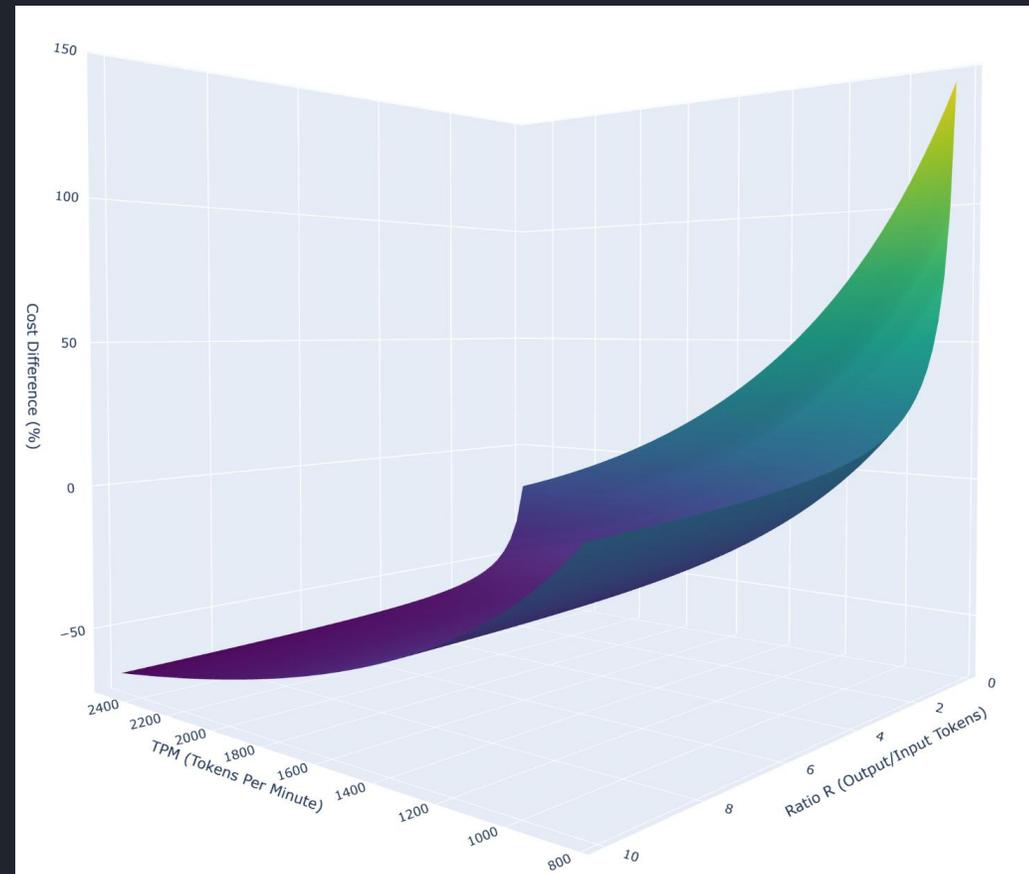
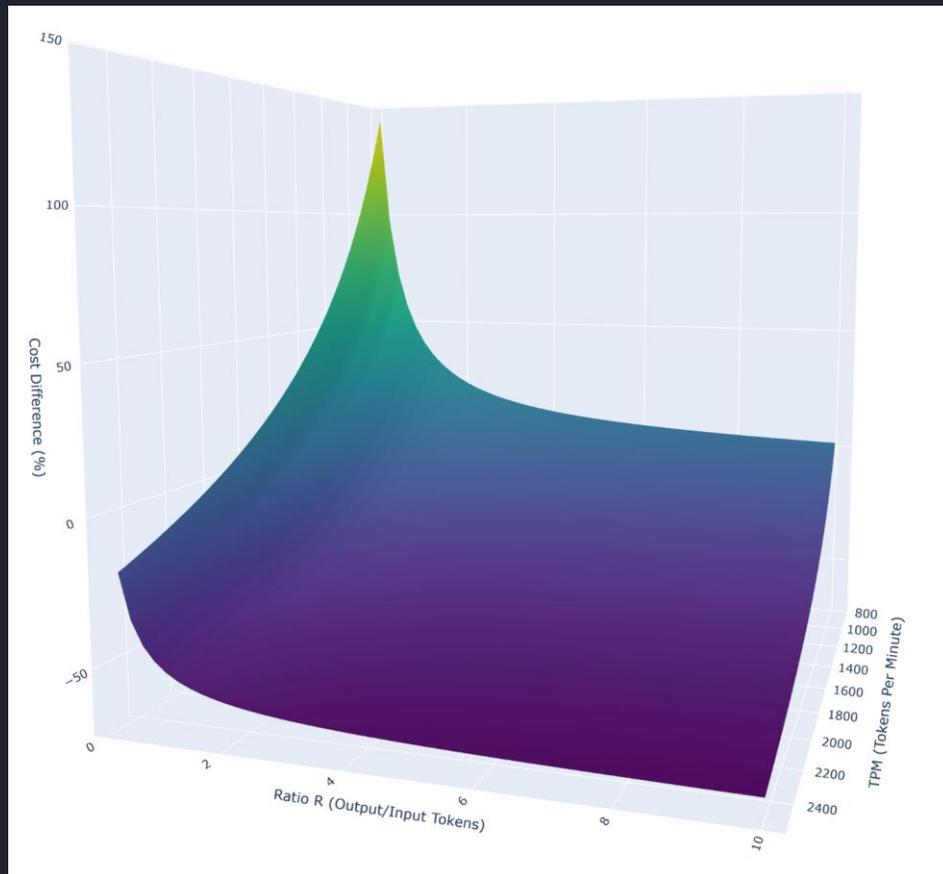
openai-pay-i-prod-westus3, Provisioned-managed U... Avg



Provisioned-managed Utilization V2 (Avg), openai-pay-i-prod-westus3 | 1.6012%

HOW MUCH DOES GPT-40 COST?

How Much COMPUTE CAPACITY Do I Need?





HOW MUCH DOES GPT-4O COST?

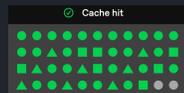
gpt-4o

gpt-4o-2024-05-13

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gpt-4o-2024-08-06

- Completion
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- Prompt Caching
 - Input \$1.25 / 1M cached** tokens



Scale Units

INPUT BUNDLE

- 30,000 Input TPM per Scale Unit
- \$124.59 per Scale Unit per Day
- Minimum 1mo (30 days)

OUTPUT BUNDLE

- 2,500 Output TPM per Scale Unit
- \$39.34 per Scale Unit per Day
- Minimum 1mo (30 days)



= Input Scale Units

= Output Scale Units

Reserved Instances

HOW MUCH DOES GPT-4O COST?

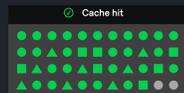
gpt-4o

gpt-4o-2024-05-13

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gpt-4o-2024-08-06

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- Minimum 1mo (30 days)

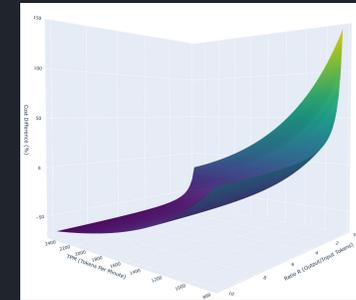
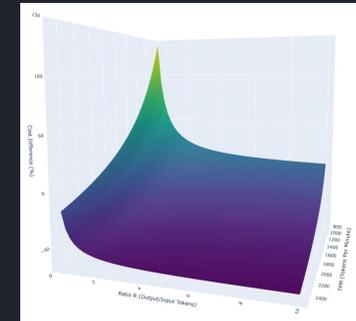
OUTPUT BUNDLE

- 2,500 Output TPM per Scale Unit
- \$39.34 per Scale Unit per Day
- Minimum 1mo (30 days)



- ★ = Input Scale Units
- ★ = Output Scale Units

Reserved Instances



Azure

HOW MUCH DOES GPT-4O COST?

gpt-4o

Azure

gpt-4o-2024-05-13

- Completion
 - Input
 - \$5.00 / 1M tokens
 - Output
 - \$15.00 / 1M tokens
- Batch
 - Input
 - \$2.50 / 1M tokens
 - Output
 - \$7.50 / 1M tokens
- Vision
 - Input
 - $Cost = \left(\frac{(w + h) \times D \times T_t}{T_s \times \max(w, h)} + B_t \right) \times \frac{P_{IT}}{1,000,000}$

Scale Units

INPUT BUNDLE

- 30,000 Input TPM per Scale Unit
- \$124.59 per Scale Unit per Day
- Minimum 1mo (30 days)

OUTPUT BUNDLE

- 2,500 Output TPM per Scale Unit
- \$39.34 per Scale Unit per Day
- Minimum 1mo (30 days)



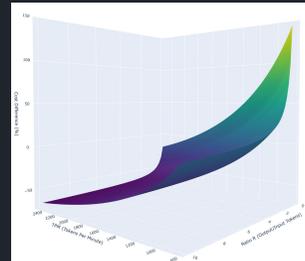
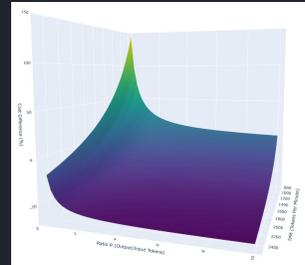
■ = Input Scale Units
■ = Output Scale Units

gpt-4o-2024-08-06

- Completion
 - Input
 - \$2.50 / 1M tokens
 - Output
 - \$10.00 / 1M tokens
- Batch
 - Input
 - \$1.25 / 1M tokens
 - Output
 - \$5.00 / 1M tokens
- Vision
 - Input
 - $Cost = \left(\frac{(w + h) \times D \times T_t}{T_s \times \max(w, h)} + B_t \right) \times \frac{P_{IT}}{1,000,000}$
- Prompt Caching
 - Input
 - \$1.25 / 1M cached** tokens



Reserved Instances



- PAYG and Reserved Instances (PTUs)
- PAYG pricing varies by Region
- PTU pricing varies by:
 - Scope
 - Regional
 - Global
 - Time Commitment
 - Hourly
 - Monthly
 - Yearly
- PTUs are purchased **independent** of model family.
 - Further complicates capacity calculations.

HOW MUCH DOES GPT-4O COST?

gpt-4o

Azure

gpt-4o-2024-05-13

- Completion
 - Input \$5.00 / 1M tokens
 - Output **\$15.00 / 1M tokens**
- Batch
 - Input \$2.50 / 1M tokens
 - Output \$7.50 / 1M tokens
- Vision
 - Input $Cost = \left(\frac{(w+h) \times D \times T_t}{T_s \times \max(w,h)} + B_t \right) \times \frac{P_{IT}}{1,000,000}$

Scale Units

INPUT BUNDLE

- 30,000 Input TPM per Scale Unit
- \$124.59 per Scale Unit per Day
- Minimum 1mo (30 days)

OUTPUT BUNDLE

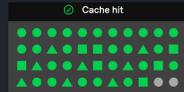
- 2,500 Output TPM per Scale Unit
- \$39.34 per Scale Unit per Day
- Minimum 1mo (30 days)



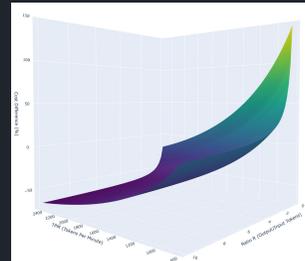
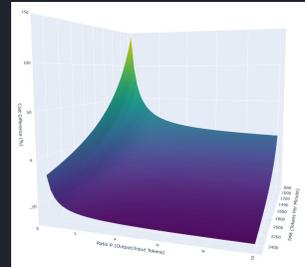
■ = Input Scale Units
■ = Output Scale Units

gpt-4o-2024-08-06

- Completion
 - Input **\$2.50 / 1M tokens**
 - Output **\$10.00 / 1M tokens**
- Batch
 - Input \$1.25 / 1M tokens
 - Output \$5.00 / 1M tokens
- Vision
 - Input $Cost = \left(\frac{(w+h) \times D \times T_t}{T_s \times \max(w,h)} + B_t \right) \times \frac{P_{IT}}{1,000,000}$
- Prompt Caching
 - Input \$1.25 / 1M cached** tokens



Reserved Instances



- PAYG and Reserved Instances (PTUs)
- PAYG pricing varies by Region
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 - Yearly
- PTUs are purchased **independent** of model family.
 - Further complicates capacity calculations.

Assistant API

- \$0.03 per hour per session
- No signals to indicate when this happens, not even an ID
- \$0.10 per GB of storage per day
- No programmatic way to query amount being stored

Realtime API

- Text
 - Input **\$5.00 / 1M tokens**
 - Output **\$20.00 / 1M tokens**
- Audio
 - Input \$100.00 / 1M tokens
 - Output \$200.00 / 1M tokens
- Text and Audio charging happens simultaneously
- Charging data is streamed with 5 different permutations

EXPENSIVE FAILURES

IN CLOUD, FAILURES ARE FAST...

REQUEST

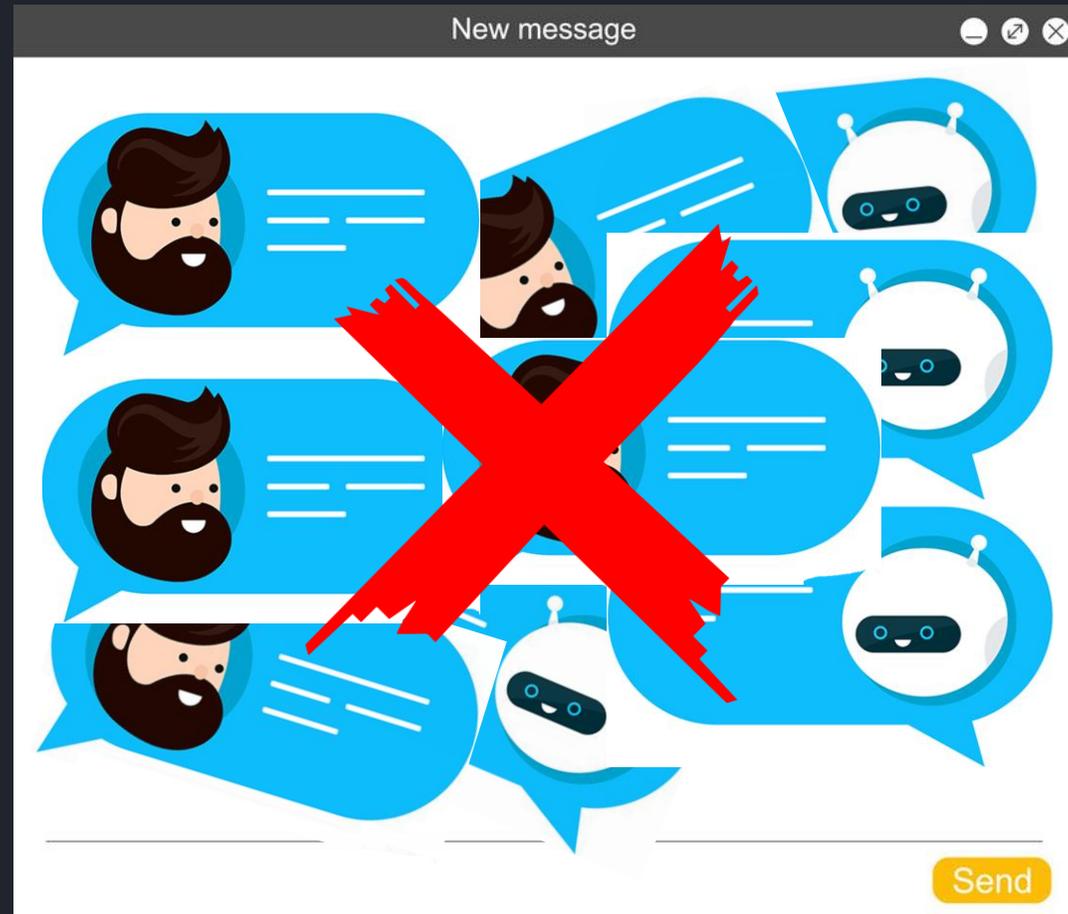


FAILURE



No Cost

...BUT IN GENAI THEY ARE SLOW



SEMANTIC FAILURES

TYPICAL CLOUD FAILURE

REQUEST

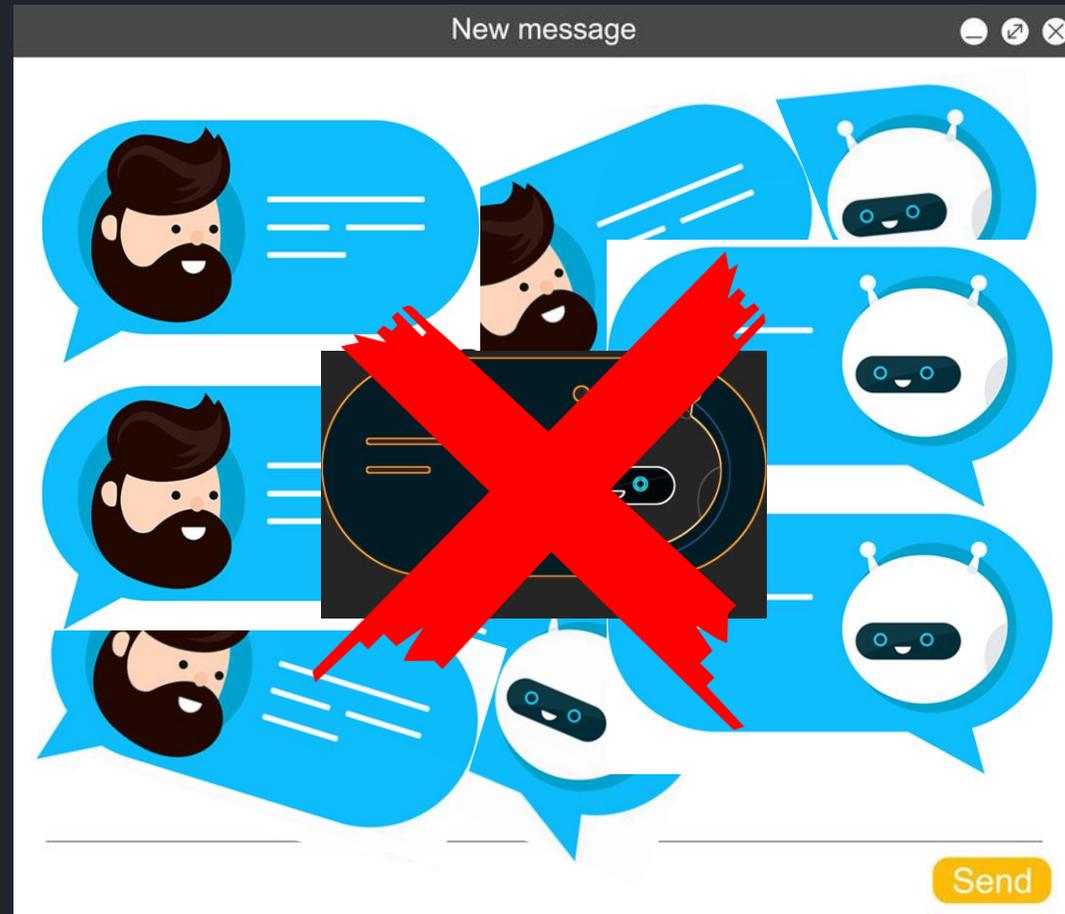


FAILURE



FAILURES ARE EASY TO UNDERSTAND

TYPICAL GENAI FAILURE



SUCCESSFUL CALLS CAN STILL BE
SCENARIO FAILURES

YOU'VE GOTTA PAY FOR
FAILURES ALSO

PROVISIONED THROUGHPUT UNITS

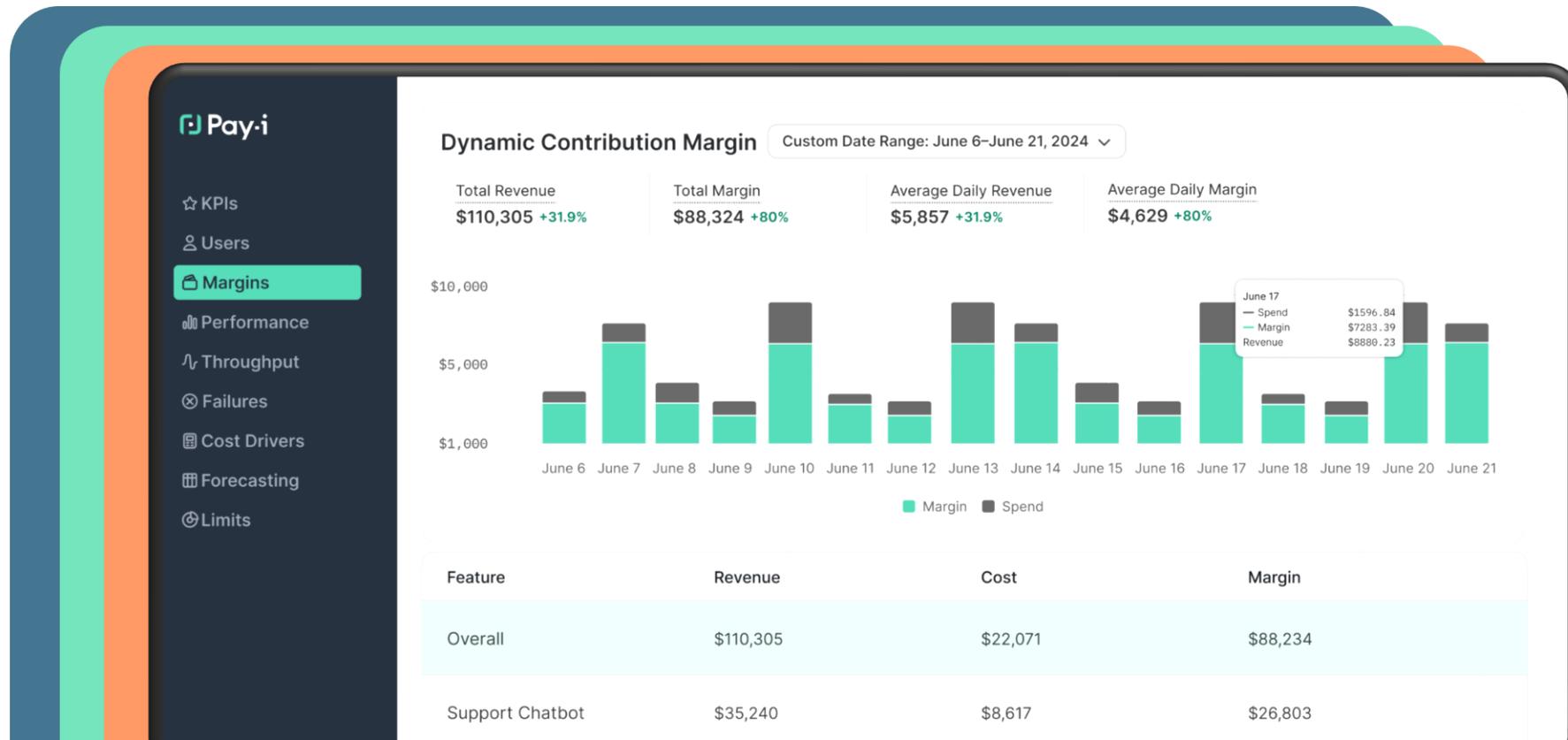


SCARY

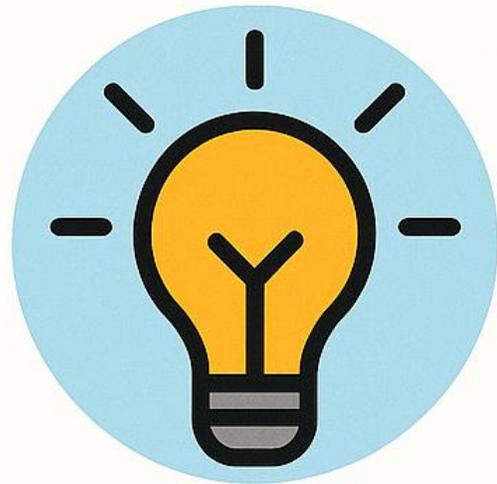
COMPLICATED



Transform GenAI Spend into Business Value



Business Case **Justification**



**BUSINESS
IMPACT**

+



**UNIT
ECONOMICS**

+



FORECASTING

Monitoring and Controls

Dynamic Contribution Margin Custom Date Range: June 6–June 21, 2024

Total Revenue

\$110,305 +31.9%

Total Margin

\$88,324 +80%

Average Daily Revenue

\$5,857 +31.9%

Average Daily Margin

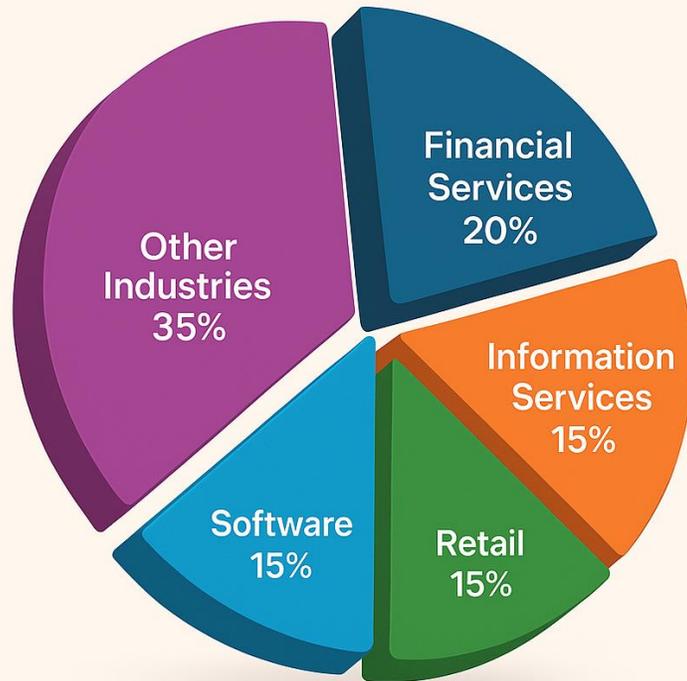
\$4,629 +80%



Feature	Revenue	Cost	Margin
Overall	\$110,305	\$22,071	\$88,234
Support Chatbot	\$35,240	\$8,617	\$26,803
Video Generator	\$23,583	\$3,538	\$20,045
Image Generator	\$19,177	\$2,891	\$16,286

Worldwide Spending on AI to Reach **\$632 Billion** by 2028

2024-2028 AI Spend by Industry



INDUSTRIES WITH THE FASTEST AI SPENDING GROWTH



**Business and
Personal
Services**



**Transportation
and Leisure**

Pay-i is the
Statement of Record
for that spend.

Q&A

