

2025




Lesson 05

Advanced Prompt Engineering

Introduction

- In this module, we will elevate your understanding and application of prompts, focusing on advanced techniques that enhance the effectiveness and efficiency of working with language models.
- Key topics covered:
 - Patterns in prompt design
 - Prompt Strategies:
 - Zero-shot prompting
 - One-shot prompting
 - Few-shot prompting
 - Chain of Thought Reasoning
- Retrieval Augmented Generation
- Engage the LLM



*“Writing a detailed prompt really is just
a different form of programming.”*

Mike Loukides, O'Reilly Media Vice President



Prompt Patterns

Prompt Patterns

- **Reusable** solutions to specific problems
 - Related to **output generation** and **interaction with LLMs**.
- A **structured** approach to customising their **output** and **interactions**.

Types of Prompt Patterns

Output

- Persona
- Audience Persona
- Template
- Recipe

Interaction (COO)

- Clarifying Question
- Meta Language Creation

Persona Pattern

Problem Scenario

- You may feel unwell but be uncertain about the specific medical tests or analyses required to diagnose the problem. In this case, you would consult a **General Practitioner (GP)**, who would have the expertise to ask the right questions, order appropriate tests, and interpret the results to reach a diagnosis.
- How can you consult the LLM as if it were the GP?

Solution

- I'm feeling unwell with symptoms like fatigue, headache, and fever. Act as a **General Practitioner (GP)**, provide some general information about what these symptoms might indicate and advise me on the appropriate next steps.

Persona Pattern

Act as persona X, perform task Y.

Examples:

- Act as a computer scientist, provide a detailed explanation of quantum computing.
- Act as a financial advisor, give me advice on investing in the stock market.
- Act as a historian, explain the causes of World War II.

Note: The quality and accuracy of responses depend on the AI model's training.

Applications of Persona Pattern

- Expert Consultation:
 - e.g., Act as a climate scientist, explain the impacts of global warming.
- Understanding Different Perspectives:
 - e.g., Act as a CFO, analyze the financial impact of this investment.
- Education and Learning:
 - e.g., Act as Shakespeare, explain the themes in Hamlet.
- Creative Writing and Storytelling:
 - e.g., Act as the main character, describe your feelings about the situation.
- Simulating Systems:
 - e.g., Act as a computer terminal, provide responses.

Note: The quality and accuracy of responses depend on the AI model's training.

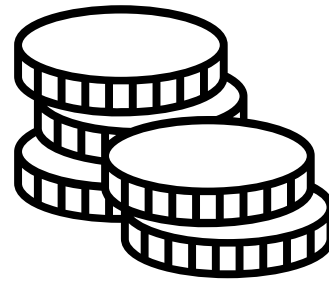
Sustained Persona Pattern

Act as [persona] throughout our conversation. Whatever I tell you, [directive or task].

Examples:

- Act as a software engineer throughout our conversation. Whatever I tell you, explain it in terms of coding and software development concepts.
- Act as a project manager throughout our conversation. Whatever I tell you, break it down into tasks, deliverables, and possible project timelines.
- Act as a data scientist throughout our conversation. Whatever I tell you, relate it back to data, statistics, and analytical methods.
- Act as a teacher throughout our conversation. Whenever I tell you, convert it into a multiple-choice question with an answer and explanation.

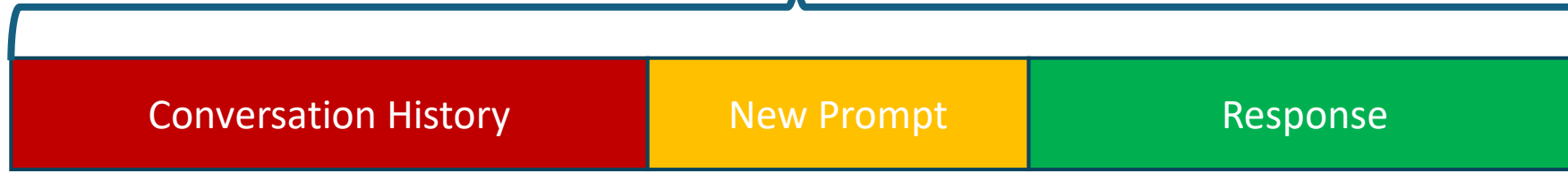
AI Limitation: Token Limit



Understanding Tokens and Their Limits

- Tokens are units used by AI models to process text.
- A token is about four English characters or three-fourths of a word.
 - 1-2 sentence ~= 30 tokens
 - 1 paragraph ~= 100 tokens
 - 1,500 words ~= 2048 tokens
- Example:
 - “How many tokens will this take?” uses seven tokens.
- Token Limits
 - OpenAI GPT
 - GPT-3: 4096; GPT-4: 8000
 - Google Gemini Pro
 - Input: 30720; Output: 2048
 - Claude Sonnet
 - Context window: 200K, Max output: 8192 tokens

\leq Max Tokens

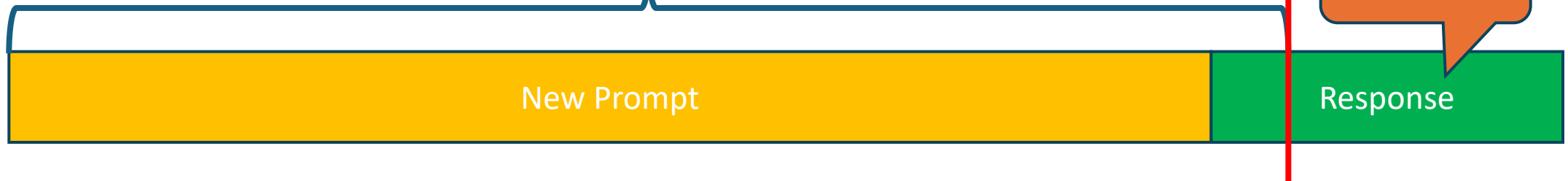


"Forgotten"

Max Tokens



Max Tokens



"Truncated"

Max Tokens



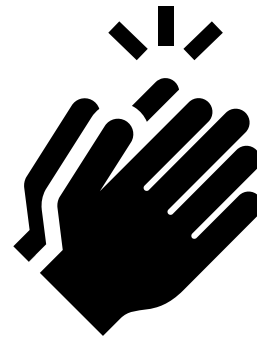
"Error!"

Strategies to Avoid Issues in Conversations

- Summarise long conversations.
- Start new chats.
- Be mindful of token limits.
- Use tools to check token count.
 - OpenAI Token Counter: <https://platform.openai.com/tokenizer>

Audience Persona Pattern

(An extension to the Persona Pattern)



Problem Scenario

- How do you explain the concept of LLMs to a P2 student who gets bored easily?

Solution

- Explain large language models and how they work to me.
Assume that I am a P2 student that gets bored easily.

Audience Persona Pattern

Explain X to me. Assume that I am Persona Y.

Examples:

- Explain blockchain to me. Assume that I have no background in computer science.
- Explain Generative AI to me. Assume that I am a bird.

Examples

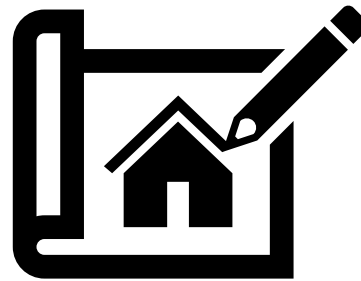
Example: Explaining the Internet to a Middle School Student

- Prompt: “Explain how the Internet works and why it’s important in our daily lives. Assume that I am a middle school student working on a school project.”

Example: Explaining Healthy Eating to a Busy Professional

- Prompt: “Provide guidance on healthy eating and meal planning that fits a hectic schedule. Assume that I am a busy professional with limited time for cooking.”

Template Pattern



Problem Scenario

- Need to produce output in a specific, precise format that may be unique to a particular application or use case.
- LLM may not have inherent knowledge of the desired format.
- For example, you want the LLM to help to plan a day of sightseeing in Paris, focusing on art museums and historical landmarks and produce the output in the following format:
 - Landmark/Museum:
 - Opening Hours:
 - Recommended Duration of Visit:
 - Tips and Notes:

Solution

Plan a day of sightseeing for me in Paris, focusing on art museums and historical landmarks.

I am going to provide a template for your output. My placeholder for content is delimited with <>. Fit the output into the placeholders that I list. Please preserve the template that I provide.

This is the template:

Landmark/Museum: <Landmark or Museum Name>

Opening Hours: <Opening Hours>

Recommended Duration of Visit: <Recommended Duration>

Tips and Notes: <Tips and Notes>

Pattern

- [Task Prompt]
- I am going to provide a template for your output. My placeholder for content is delimited with <>. Fit the output into the placeholders that I list. Please preserve the template that I provide.
- This is the template:
- Identifier: <Placeholder>
- ...

Note: The bullet point is intended to aid readability, so please remove it during the actual prompting.

Example

Plan a balanced and healthy meal for my dinner tonight, considering high protein and low carb.

I am going to provide a template for your output. My placeholder for content is delimited with <>. Fit the output into the placeholders that I list. Please preserve the template that I provide.

This is the template:

Dish: <Dish Name>

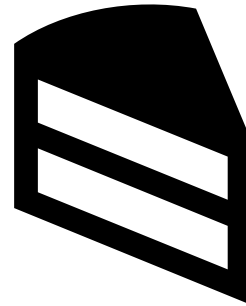
Protein Source: <Protein Source>

Vegetables: <Vegetables>

Carbohydrate Source: <Low Carb Source>

Preparation Method: <Preparation Method>

Recipe Pattern



Problem Scenario

- You want to bake a chocolate cake. you have flour, sugar, eggs, and cocoa powder. You don't know what else is needed and the step-by-step recipe.

Solution

- “I want to bake a chocolate cake. I have flour, sugar, eggs, and cocoa powder. Let me know if I need anything else. Provide a step-by-step recipe using all the ingredients.”

Recipe Pattern

- Focused on providing a structured, step-by-step guide for achieving a particular goal, given some pre-known “ingredients” or steps.

Pattern:

- I would like to do ...
- I know/have ...
- Please help me with the rest
 - Provide a complete sequence of steps for me
 - Let me know if I need anything else / Fill in any missing steps

Note: The bullet point is intended to aid readability, so please remove it during the actual prompting.

Example 1: Academic Study

- I would like to achieve a high grade in my Calculus class.
- I know that I need to attend lectures, complete homework, and do practice problems.
- Provide a complete sequence of steps for me.
- Fill in any missing steps.

Note: The bullet point is intended to aid readability, so please remove it during the actual prompting.

Interaction (COO)

- Clarifying Question
- Meta Language Creation

Clarifying Question Pattern



Problem Scenario



I want to eat something healthy. Generate a recipe for me.



Sure, I can help you with a healthy recipe. How about a simple and nutritious Quinoa Salad?
It's a great option for a healthy meal.

Ingredients:

- 1 cup quinoa
- 2 cups water
- 1 cucumber, diced

Solution

Let the **LLM drive the conversation** to obtain the information it needs to perform a certain task or answer a certain question.

Better Prompt:

I would like you to ask me questions to help me generate a recipe for a healthy dish. You should ask questions **until you have sufficient information** to give me an informed advice. Ask me the first question.

Clarifying Question Pattern

- I would like you to ask me questions to [do Task X]
- You should ask questions until [condition Y is met].
- (Optional) Limit the questioning to a maximum of [N] questions.
- (Optional) ask me the questions one/two at a time, ask me the first question, etc.

Note: The bullet point is intended to aid readability, so please remove it during the actual prompting.

Example

- I would like you to ask me questions to plan my tasks today.
- You should ask questions until you have sufficient information to give me a task plan.
- Ask me the first question.

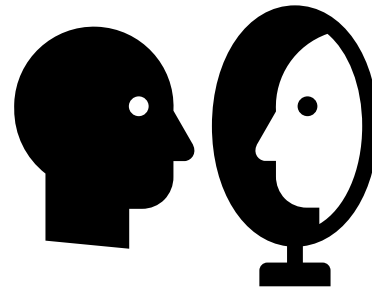
Note: The bullet point is intended to aid readability, so please remove it during the actual prompting.

Example

- I would like you to ask me questions to find out how many stars are visible from outside my house at night.
- You should ask questions until you have sufficient information to give me an informed answer.
- Ask me the first question.

Note: The bullet point is intended to aid readability, so please remove it during the actual prompting.

Meta Language Creation Pattern



Problem Scenario

- You are a maths and physics teacher in a secondary school. Below are the common prompts you use.
- “Create a multiple-choice question to test understanding of the Pythagorean Theorem. Include four answer choices, one of which is correct.”
- “Design a multiple-choice questions to test knowledge of Newton’s Third Law of Motion. Include four answer choices, one of which is correct.”
- “Create a multiple-choice question to test understanding of solving quadratic equations using the Quadratic Formula. Include four solutions, one of which is correct.”

Solution

- When I say “MCQ(topic)”, I mean create a multiple-choice question to test understanding of the topic. Include four answer choices, one of which is correct.

Other Variants:

- MCQ(topic, 2)
 - The definition of “2” is your own. It can mean two correct answers for the multiple-choice question.

Meta Language Creation Pattern

- Create a custom language or notation for the LLM to understand
- For more concise, unambiguous, or clear communication

Pattern:

When I say X, I mean Y (or would like you to do Y)

Example:

When I say “N, place 1 -> place 2”, I mean plan a N-day travel plan from place 1 to place 2.

Zero-Shot vs One-Shot vs Few-Shot

In machine learning and natural language processing, the term "shot" refers to how many examples a model is given to learn or perform a specific task



Zero-Shot

- Predicts unseen data without additional training.
- No need for explicit programming or templates.
- Example:
 - “Summarize the key events of World War II.”
 - “Translate the following English text into French: ‘The weather is beautiful today.’”

One-Shot

- Generates text with limited input data, such as a single example or template.
- Example:
 - “Write a haiku about the ocean, similar to this: ‘Waves crash on the shore, Endless rhythm of the sea, Nature’s melody.’”
 - “Create a short story beginning with this sentence: ‘Once upon a time in a land far away, there lived a wise old wizard.’”
 - Template Pattern

Few-Shot

- Utilizes a small number of examples (typically 2-5) to quickly adapt to new examples.

- Example:

Sentence: "I love this product!"

Sentiment: Positive

Sentence: "This is the worst movie I've ever seen."

Sentiment: Negative

Sentence: "I don't have an opinion on that."

Sentiment: Neutral

Sentence: "The food was delicious and the service was excellent."

Sentiment:

Comparison

Technique	Input Data Required	Model Guesses Based on	Best for
Zero-Shot	None	Training	General tasks where no specific examples or templates are available or needed.
One-Shot	Single example or template	Example and training	Tasks that require a specific structure or format, and you have a clear example to guide the model.
Few-Shot	2-5 examples	Examples	Complex or nuanced tasks that require the model to understand and adapt to specific examples or styles.

Few-Shot Example

The odd numbers in this group add up to an even number: 4, 8, 9, 15, 12, 2, 1.

A: The answer is False.

The odd numbers in this group add up to an even number: 17, 10, 19, 4, 8, 12, 24.

A: The answer is True.

The odd numbers in this group add up to an even number: 16, 11, 14, 4, 8, 13, 24.

A: The answer is True.

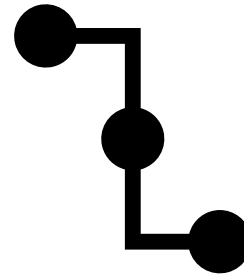
The odd numbers in this group add up to an even number: 17, 9, 10, 12, 13, 4, 2.

A: The answer is False.

The odd numbers in this group add up to an even number: 15, 32, 5, 13, 82, 7, 1.

A:

Chain of Thought Prompting



Chain-of-Thought (CoT) Prompting

Standard Prompting

Model Input

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: The cafeteria had 23 apples. If they used 20 to make lunch and bought 6 more, how many apples do they have?

Model Output

A: The answer is 27. ❌

Chain-of-Thought Prompting

Model Input

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: The cafeteria had 23 apples. If they used 20 to make lunch and bought 6 more, how many apples do they have?

Model Output

A: The cafeteria had 23 apples originally. They used 20 to make lunch. So they had $23 - 20 = 3$. They bought 6 more apples, so they have $3 + 6 = 9$. The answer is 9. ✅

Image Source: [Wei et al. \(2022\)](#)

Chain of Thought Prompting

- A technique where reasoning is explained step-by-step
 - Like the process of solving a math problem where each step is explained
- Emphasizes understanding the process behind a solution, not just the final answer
- Improves LLMs' performance and reasoning capabilities.

CoT prompting

How many 'r' in 'strawberry'? Let's think step by step.



Sure, let's break it down step by step!

1. Start with the word "**strawberry.**"
2. Let's go through each letter to identify any "r"s.
 - S – no "r"
 - T – no "r"
 - R – there's an "r"
 - A – no "r"
 - W – no "r"
 - B – no "r"
 - E – no "r"
 - R – there's an "r"
 - R – another "r"
 - Y – no "r"

3. Counting the "r"s we identified:

- We found 3 "r"s in "strawberry."

So, there are three "r"s in "strawberry."



Normal prompting

How many 'r' in 'strawberry'?



There are two "r"s in "strawberry."

Few-Shot + Chain-of-Thought (CoT)

The odd numbers in this group add up to an even number: 4, 8, 9, 15, 12, 2, 1.

A: All the odd numbers (9, 15, 1) add up to 25. The answer is False.

The odd numbers in this group add up to an even number: 17, 10, 19, 4, 8, 12, 24.

A: All the odd numbers (17, 19) add up to 36. The answer is True.

The odd numbers in this group add up to an even number: 16, 11, 14, 4, 8, 13, 24.

A: All the odd numbers (11, 13) add up to 24. The answer is True.

The odd numbers in this group add up to an even number: 17, 9, 10, 12, 13, 4, 2.

A: All the odd numbers (17, 9, 13) add up to 39. The answer is False.

The odd numbers in this group add up to an even number: 15, 32, 5, 13, 82, 7, 1.

A:

Zero-shot CoT Prompting

(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. **X**

(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 **X**

(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. **✓**

Zero-shot CoT Prompting Pattern

[Your question]. Let's think step by step.

- Example:
The odd numbers in this group add up to an even number: 15, 32, 5, 13, 82, 7, 1.

Let's think step by step.
- Particularly useful where there is no example to use.

Comparison on Complex Tasks

Model	Arithmetic						Commonsense		Symbolic	
	MultiArith	GSM8K	AddSub	AQuA	SingleEq	SVAMP	CSQA	Strategy	Letter	Coin
Zero-Shot	22.7	12.5	77.0	22.4	78.7	58.8	72.6	54.3	0.2	53.8
Zero-Shot-CoT	78.7	40.7	74.7	33.5	78.7	63.7	64.6	54.8	57.6	91.4
Few-Shot	33.8	15.6	83.3	24.8	82.7	65.7	79.5	65.9	0.2	57.2
Manual-CoT	91.7	46.9	81.3	35.8	86.6	68.9	73.5	65.4	59.0	97.2

Few-Shot-
CoT

On average, Few-Shot-CoT > Zero-Shot-CoT > Few-Shot > Zero-Shot

Combination of Patterns

Example:

Meta Language Creation Pattern

+

Recipe Pattern

Problem Scenario

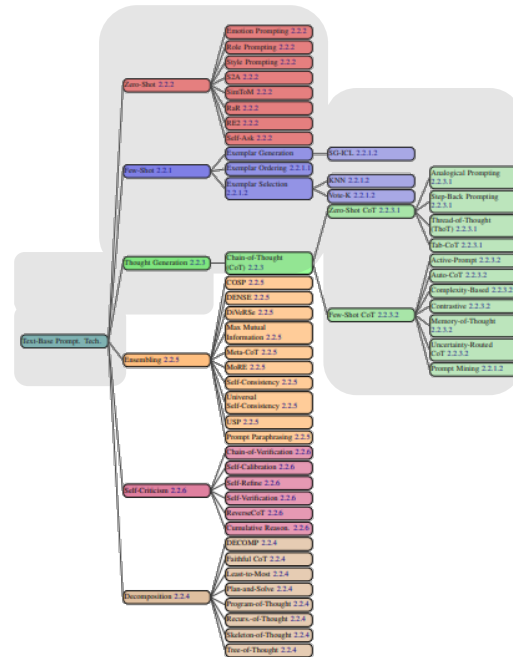
- “I want to bake a chocolate cake. I have flour, sugar, eggs, and cocoa powder. Let me know if I need anything else. Provide a step-by-step recipe using all the ingredients.”
- “I want to make a chicken pot pie. I have chicken, carrots, peas, and pie crust. Let me know if I need anything else. Provide a step-by-step recipe using all the ingredients.”
- “I want to cook a vegetable stir-fry. I have broccoli, carrots, bell peppers, and soy sauce. Let me know if I need anything else. Provide a step-by-step recipe using all the ingredients.”
- ...

Solution

- When I say “<ingredients> -> <dish>”, I mean I want to cook the dish and I have the ingredients. Let me know if I need anything else. Provide a step-by-step recipe using all the ingredients.
- flour, sugar, eggs, and cocoa powder -> chocolate cake
- chicken, carrots, peas, and pie crust -> chicken pot pie

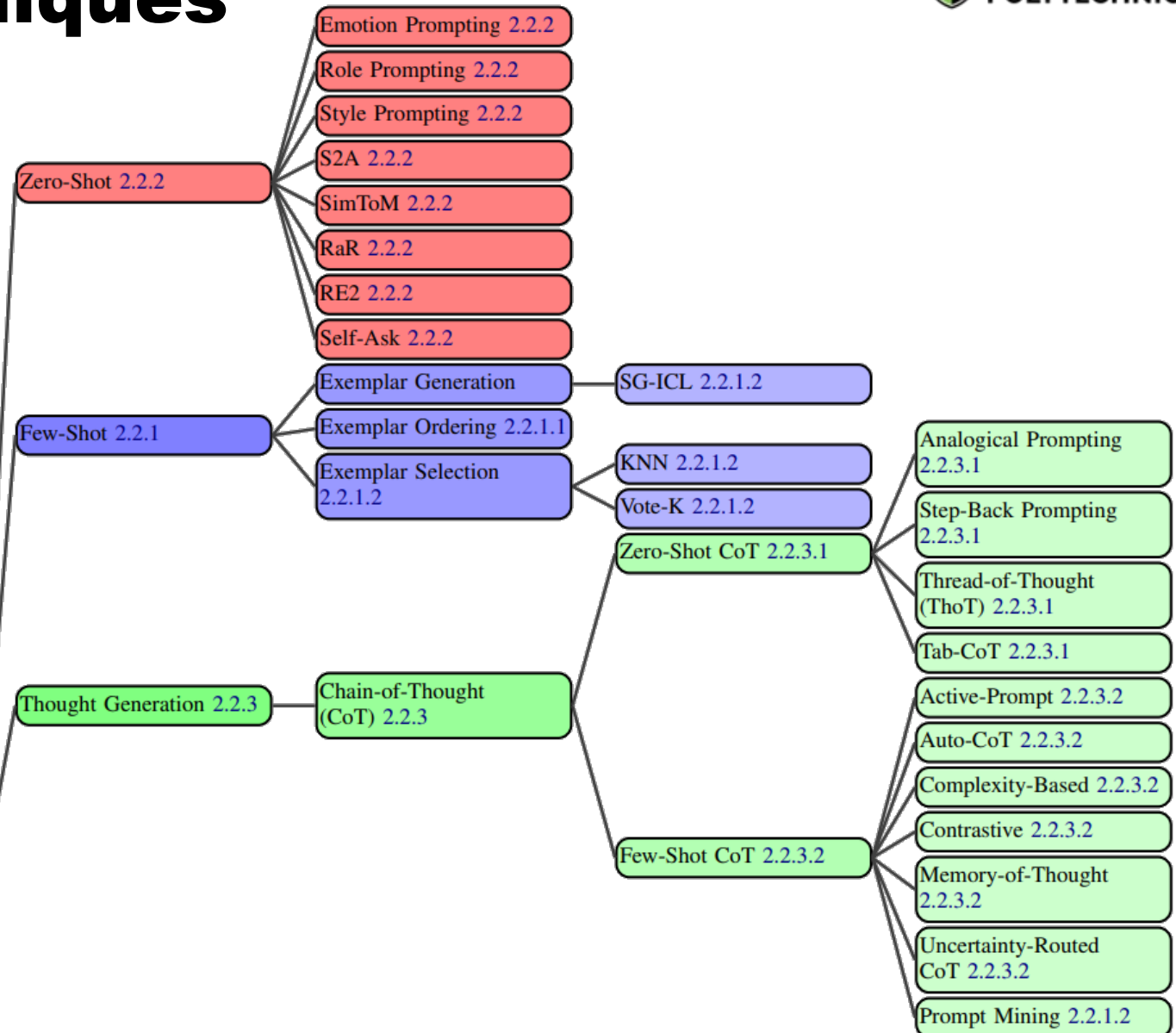
Other Prompt Techniques

- Text-based prompting techniques



Source: [The Prompt Report: A Systematic Survey of Prompting Techniques](#)

Text-Base Prompt. Tech.



Other Prompt Techniques

- Text-based prompting techniques

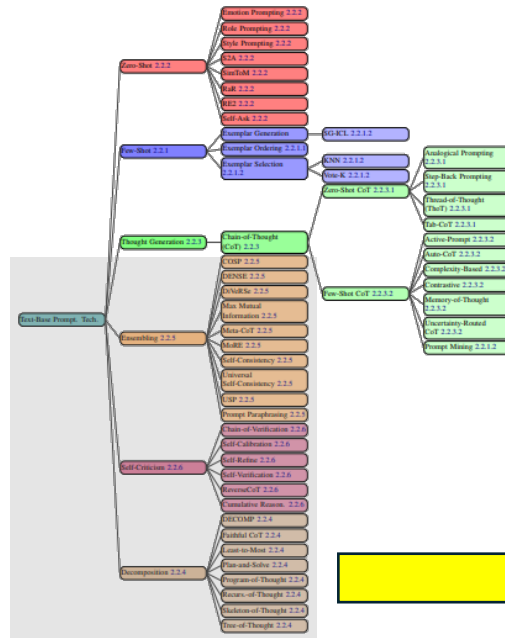


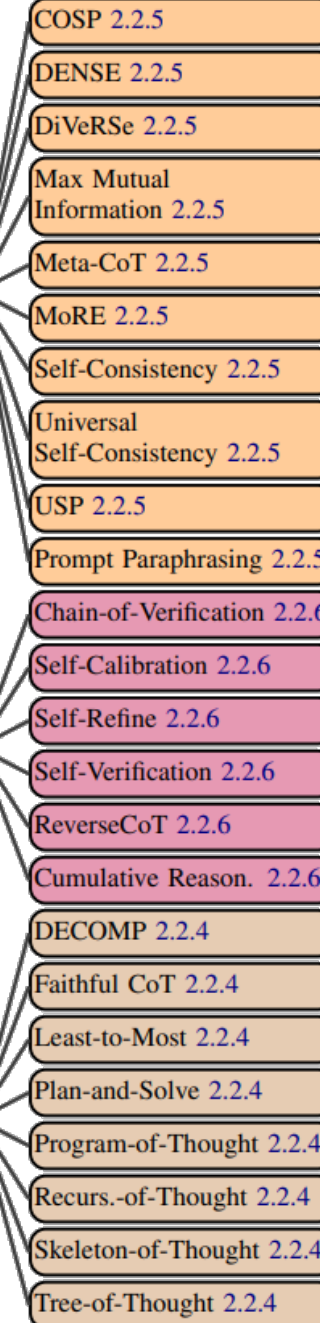
Figure 2.2: All text-based prompting techniques from our dataset.

Text-Base Prompt. Tech.

Ensembling 2.2.5

Self-Criticism 2.2.6

Decomposition 2.2.4



There are more prompt techniques to be explored and frequently, **new techniques** are being discovered and published.

Source: [The Prompt Report: A Systematic Survey of Prompting Techniques](#)

Summary

- Use structured templates to achieve predictable, consistent outputs. This simplifies prompt reuse for similar tasks.
- Prompt strategies to solve tasks without examples, provides a single example to guide the model and use multiple examples for nuanced tasks.
- Guide the model through step-by-step reasoning.

References

- Prompt Engineering for Generative AI

<https://catalogue.nlb.gov.sg/search/card?id=b2a8898b-5e33-53c4-9b2f-8cebb75a8219&entityType=FormatGroup>

- Prompt Engineering for LLMs

<https://catalogue.nlb.gov.sg/search/card?id=89afa670-855e-5ad7-a387-bceef6786da1&entityType=FormatGroup>

- Anthropic Education Courses

<https://github.com/anthropics/courses>

- Prompt Libraries

<https://docs.anthropic.com/en/prompt-library/library>

<https://platform.openai.com/docs/examples>



Activity



RAG

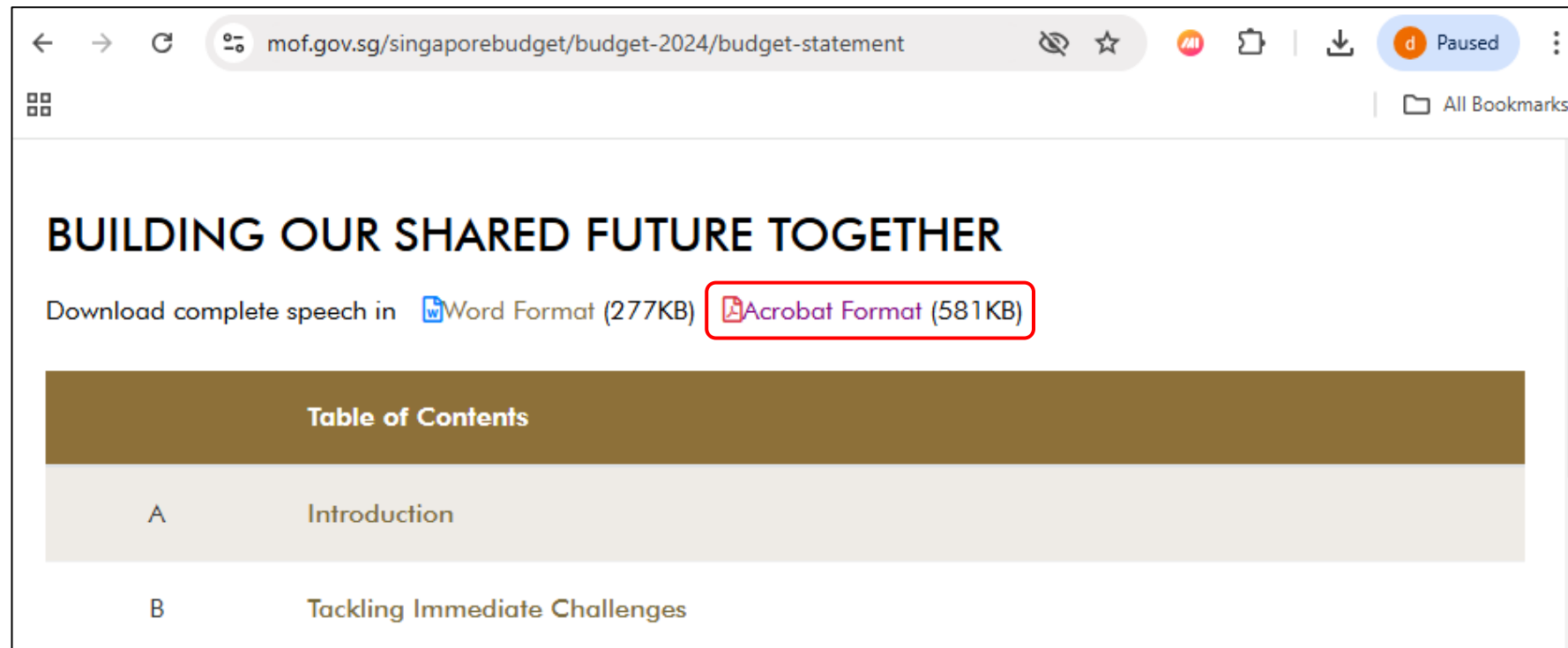
RAG

- Stands for Retrieval Augmented Generation
- A technique for enhancing the accuracy and reliability of generative AI models with facts fetched from external sources
- Benefits:
 - Prevents the LLMs from hallucinating
 - Models can cite the source(s)
 - Factual grounding
 - Access to most up-to-date information
 - Concentrate more effectively on domain-specific tasks

Activity: ChatGPT & RAG

- We will use the budget statement for 2024 to perform RAG

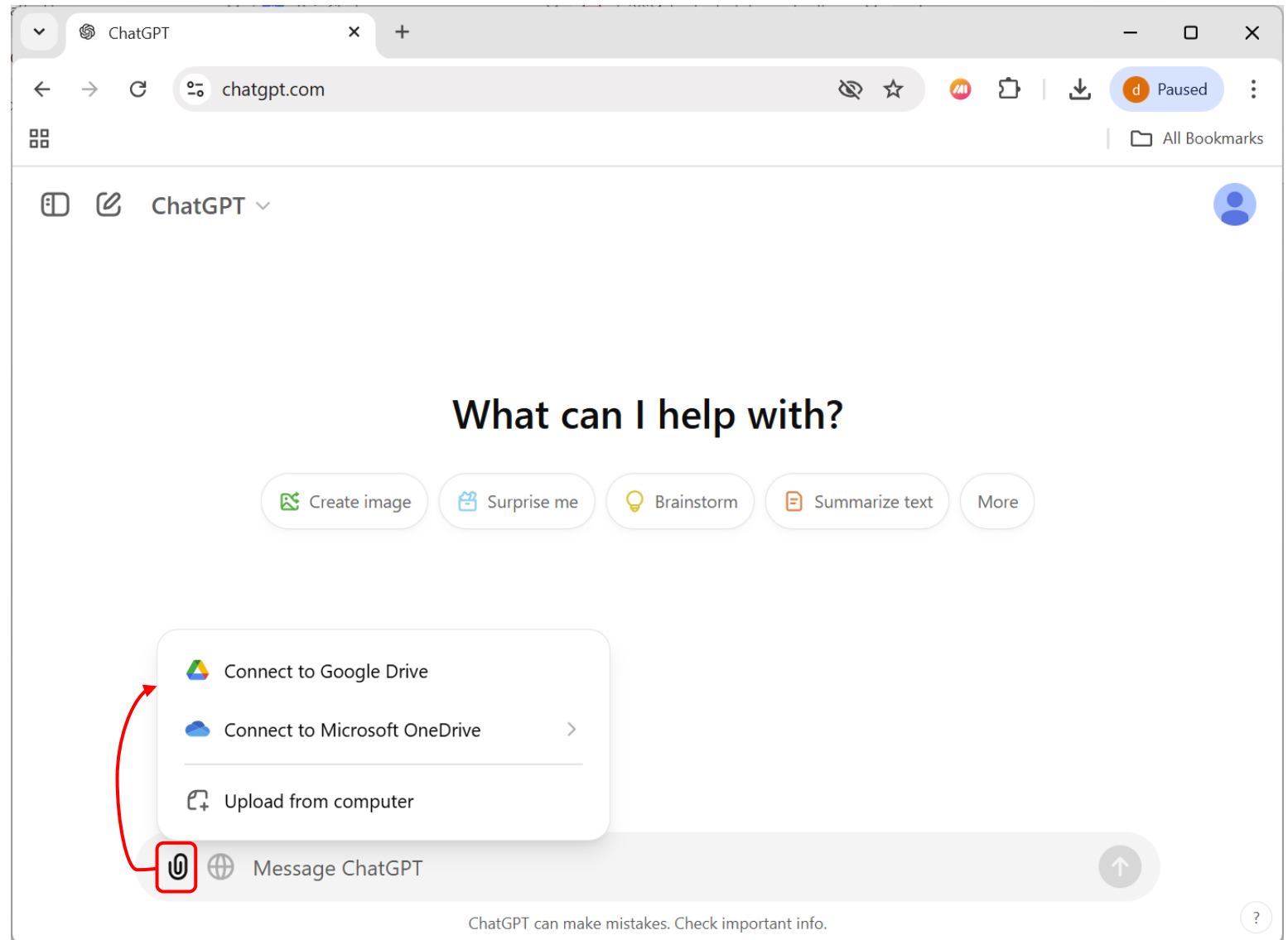
PDF from: <https://www.mof.gov.sg/singaporebudget/budget-2024/budget-statement>



You can also find the PDF file “fy2024_budget_statement.pdf” shared to you.

Activity: RAG

- You need to login to ChatGPT to perform RAG
- Upload the PDF to ChatGPT
- Click the paper clip icon to start the document uploading
- You can start query the document once the document is uploaded
- What are the goodies available for 2024?
Remember to fact check



Activity: ChatGPT & RAG

Fact Check:

<https://www.mof.gov.sg/singaporebudget/resources/budget-infographics>

(for the prompt shown on the right)
https://www.mof.gov.sg/docs/librariesprovider3/budget2024/download/pdf/fy2024_support_for_singaporeans_english.pdf

Response

Attach a document

fy2024_budget_statement.pdf
PDF

Any "goodies" for this year budget 2024? Please include page number(s) for each point you provide.

Query the document



Here are some highlights from Singapore's Budget 2024, along with relevant page numbers:

1. Cost of Living Support

- Additional \$600 in CDC Vouchers for all Singaporean households, disbursed in two stages: June 2024 and January 2025 (Page 10).
- A Cost-of-Living Special Payment of \$200 to \$400 for adult Singaporeans with an income of up to \$100,000 and no more than one property (Page 10).
- Additional U-Save and S&CC rebates for eligible households to help with utility and maintenance costs, totaling up to \$950 for FY2024 (Page 10-11).

2. Assurance Package Enhancements

- The enhanced Assurance Package now totals \$1.9 billion, benefiting lower-income families and households with seniors and children (Page 11).

3. Enterprise Support Package

- A Corporate Income Tax Rebate of 50% capped at \$40,000, for the Year of Assessment 2024, with a minimum \$2,000 cash payout for companies employing at least one local

Message ChatGPT

ChatGPT can make mistakes. Check important info.



10 mins



Engage the LLM*

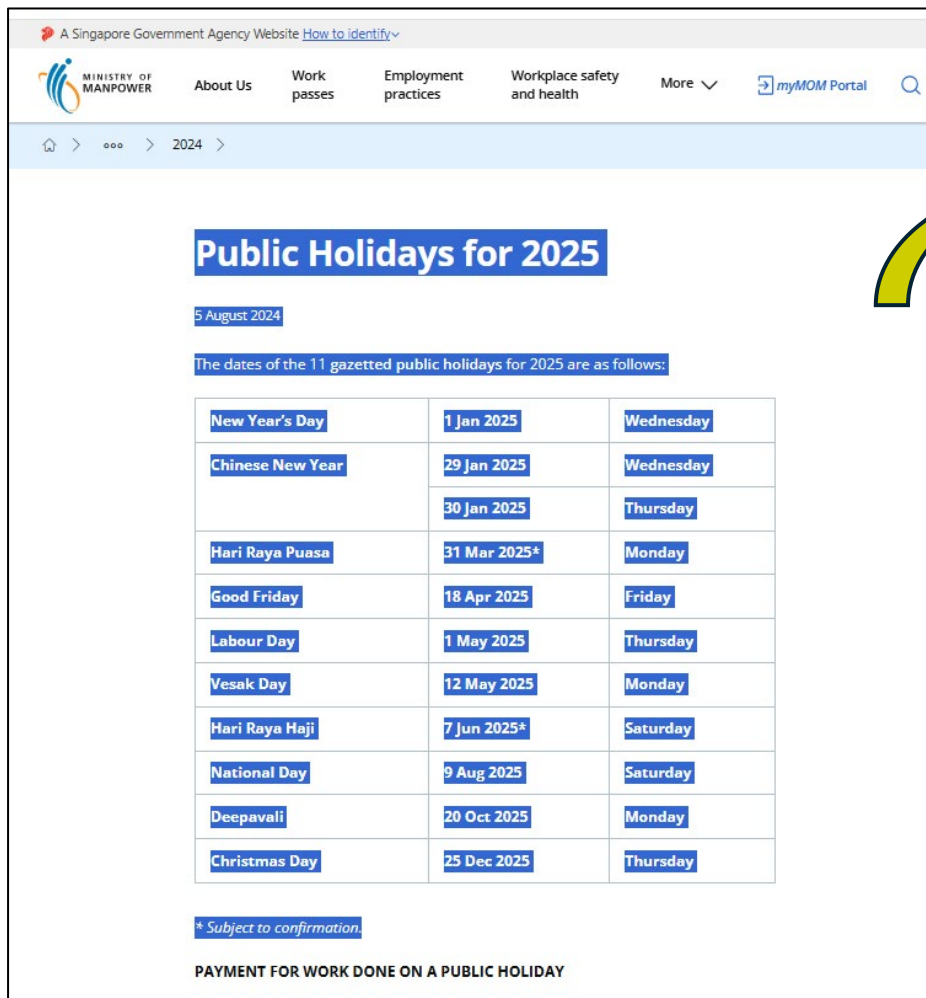
*Large Language Model

Leave Planning

- Let's do something close to our heart i.e., plan and maximize holidays for 2025!
- Source: <https://www.mom.gov.sg/newsroom/press-releases/2024/0805-public-holidays-for-2025>
- Goal:
 - You want to take 1 day leave (or no leave) to enjoy the maximum number of holidays in 2025
 - No error(s) in the leave calculation
 - What are the prompt patterns you would use?

Activity: Public Holidays 2025

https://www.mom.gov.sg/newsroom/press-releases/2024/0805-public-holidays-for-2025



A Singapore Government Agency Website [How to identify](#)

MINISTRY OF MANPOWER About Us Work passes Employment practices Workplace safety and health More [myMOM Portal](#)

Public Holidays for 2025

5 August 2024

The dates of the 11 gazetted public holidays for 2025 are as follows:

New Year's Day	1 Jan 2025	Wednesday
Chinese New Year	29 Jan 2025	Wednesday
	30 Jan 2025	Thursday
Hari Raya Puasa	31 Mar 2025*	Monday
Good Friday	18 Apr 2025	Friday
Labour Day	1 May 2025	Thursday
Vesak Day	12 May 2025	Monday
Hari Raya Haji	7 Jun 2025*	Saturday
National Day	9 Aug 2025	Saturday
Deepavali	20 Oct 2025	Monday
Christmas Day	25 Dec 2025	Thursday

* Subject to confirmation.

PAYMENT FOR WORK DONE ON A PUBLIC HOLIDAY

Public Holidays for 2025

5 August 2024

The dates of the 11 gazetted public holidays for 2025 are as follows:

New Year's Day 1 Jan 2025 Wednesday
 Chinese New Year 29 Jan 2025 Wednesday, 30 Jan 2025 Thursday
 Hari Raya Puasa 31 Mar 2025* Monday
 Good Friday 18 Apr 2025 Friday
 Labour Day 1 May 2025 Thursday
 Vesak Day 12 May 2025 Monday
 Hari Raya Haji 7 Jun 2025* Saturday
 National Day 9 Aug 2025 Saturday
 Deepavali 20 Oct 2025 Monday
 Christmas Day 25 Dec 2025 Thursday

* Subject to confirmation.

1. Cut and paste to ChatGPT
2. Perform formatting when necessary
3. SHIFT-ENTER to insert a line

1. Go to MOM website
2. Copy the highlighted text to ChatGPT

Activity: ChatGPT

- ChatGPT's response after cut-and-paste
- Present an opportunity to verify the information before you start prompting ChatGPT



Here is a summary of Singapore's public holidays for 2025:

Holiday	Date	Day
New Year's Day	1 Jan 2025	Wednesday
Chinese New Year	29 Jan 2025	Wednesday
Chinese New Year	30 Jan 2025	Thursday
Hari Raya Puasa*	31 Mar 2025	Monday
Good Friday	18 Apr 2025	Friday
Labour Day	1 May 2025	Thursday
Vesak Day	12 May 2025	Monday
Hari Raya Haji*	7 Jun 2025	Saturday
National Day	9 Aug 2025	Saturday
Deepavali	20 Oct 2025	Monday
Christmas Day	25 Dec 2025	Thursday

*Dates for Hari Raya Puasa and Hari Raya Haji are subject to confirmation.

*The reply you got from the LLM might differ from what is shown here.

Activity: Leave(s) Planning

- To determine the best day(s) for taking one day of leave in 2025 and to maximize the number of consecutive holidays, LLM were perform the analysis step-by-step
- The dates to take leave (after queried) are shown.

Step 3: Verifying and Summarizing t. Findings

Based on the above analysis, here is the table showing the best options for a one-day leave:

Leave Date to Apply	Public Holiday(s)	Number of Holidays	Dates Covered
31 Jan 2025	Chinese New Year	5	29 Jan - 2 Feb
2 May 2025	Labour Day	4	1 May - 4 May
26 Dec 2025	Christmas Day	4	25 Dec - 28 Dec

*The reply you got from the LLM might differ from what is shown here.



To determine the best day for taking one day of leave in 2025 to maximize the number of consecutive holidays, we'll analyze each public holiday date and look for those adjacent to weekends or with holidays before or after them. Here's the step-by-step process:

Step 1: Listing Each Public Holiday with Day of the Week

We begin by listing each holiday and noting the day it falls on:

Holiday	Date	Day
New Year's Day	1 Jan 2025	Wednesday
Chinese New Year	29 Jan 2025	Wednesday
Chinese New Year	30 Jan 2025	Thursday
Hari Raya Puasa*	31 Mar 2025	Monday
Good Friday	18 Apr 2025	Friday
Labour Day	1 May 2025	Thursday
Vesak Day	12 May 2025	Monday
Hari Raya Haji*	7 Jun 2025	Saturday
National Day	9 Aug 2025	Saturday
Deepavali	20 Oct 2025	Monday
Christmas Day	25 Dec 2025	Thursday

*Hari Raya Puasa and Hari Raya Haji dates are subject to confirmation.

Step 2: Checking for Possible Extended Weekends with a Single Day of Leave

Now, we identify the public holidays that can be turned into a longer break by taking just one additional leave day:

- Chinese New Year (29 Jan & 30 Jan, Wednesday & Thursday)**
 - By taking leave on **Friday, 31 Jan 2025**, you can enjoy **5 consecutive holidays** (29 Jan - 2 Feb).
- Labour Day (1 May, Thursday)**
 - By taking leave on **Friday, 2 May 2025**, you can enjoy a **4-day break** from **1 May - 4 May**.
- Christmas Day (25 Dec, Thursday)**
 - By taking leave on **Friday, 26 Dec 2025**, you get a **4-day break** from **25 Dec - 28 Dec**.

Step 3: Verifying and Summarizing t. Findings

Based on the above analysis, here is the table showing the best options for a one-day leave:

Leave Date to Apply	Public Holiday(s)	Number of Holidays	Dates Covered
31 Jan 2025	Chinese New Year	5	29 Jan - 2 Feb
2 May 2025	Labour Day	4	1 May - 4 May
26 Dec 2025	Christmas Day	4	25 Dec - 28 Dec

Conclusion

To maximize the number of consecutive holidays with just one day of leave, you should apply for leave on **31 Jan 2025** to enjoy a total of **5 consecutive holidays** around the Chinese New Year.

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Activity: Possible Prompt

- Pattern(s) possibly used are:
 - Chain-Of-Thought Pattern
 - Persona Pattern

ChatGPT_LeavePlanning.png

Reveal Prompt

*The reply you got from the LLM might differ from what is shown here.



15 mins

References

- Prompt Engineering Guide
<https://www.promptingguide.ai/>

Thank you!