



# AI Adoption Training

Workshop#2: AI for Writing, Analysis & Communications

November 14th, 2025



# Today's Agenda

- 1. Intro + Recap (5 mins)**
- 2. AI for Writing, Analysis and Communications (50 minutes)**
- 3. Questions / Interactive Session (30 minutes)**
- 4. Wrap Up (5 mins)**

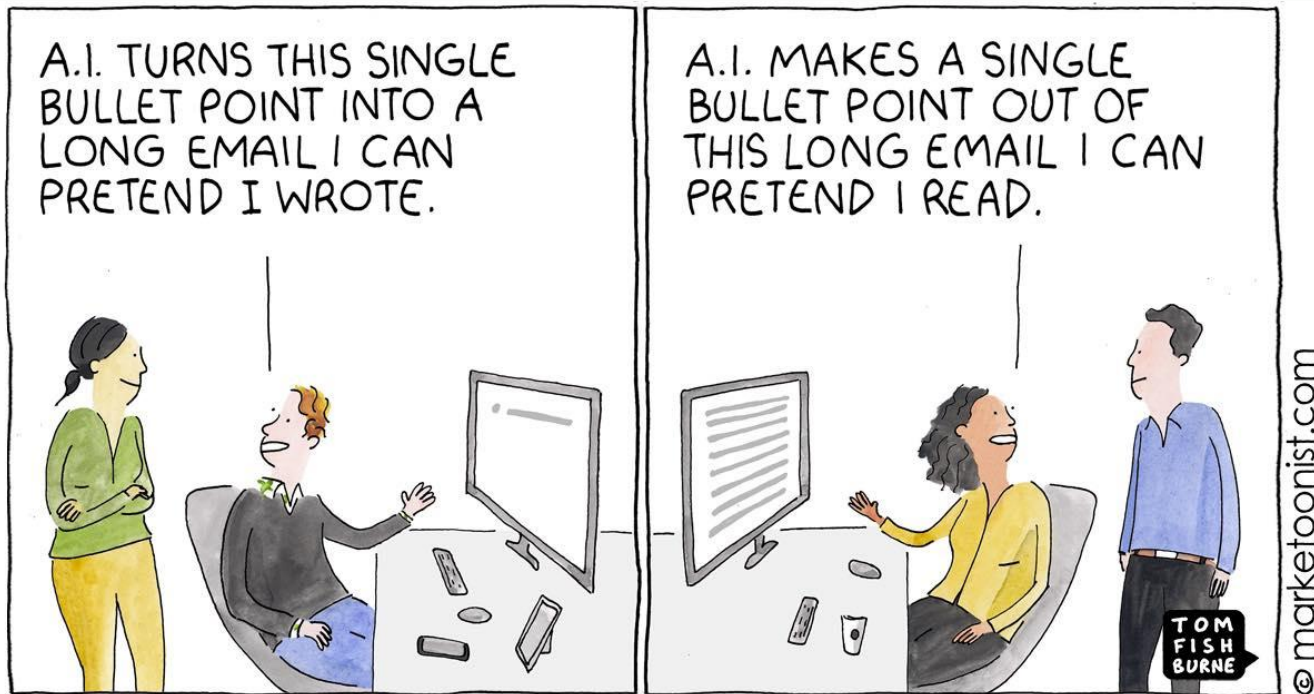
Materials are available at: [https://github.com/mullinsean/ai\\_training](https://github.com/mullinsean/ai_training)

# AI for Writing, Analysis & Communications



# AI for Writing & Analysis

What are we trying to achieve?



## General Insight:

Where should I *allocate my thinking* on a project and where can I rely on an LLM to automate the low-value, “drudge work” side of knowledge work?

# AI for Writing & Analysis

Potential benefits of using LLMs for general knowledge work

- Frees up more time to focus on critical thinking and analysis
- Able to incorporate and synthesize a wider range of information
- Easy to reuse existing documents:
  - Create new, more up-to-date versions (eg: “update this note to reflect changes from Budget 2025”)
  - Repurpose content for other uses (eg: blog posts, strategy memos)
  - Create customized versions for different audiences (eg: stakeholders, board members, government, funders)
- More rapid iteration of documents; allows for higher-order thinking
  - Eg: add a new section that incorporates X into the analysis; rewrite note from a different perspective
- Easier to achieve consistent tone and style across an organization

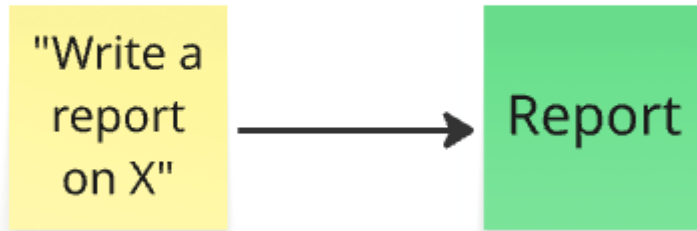
## What to Avoid:

- Low quality “AI slop”
- Generic, repetitive prose
- Hallucinations and factual inaccuracies

# AI for Writing & Analysis

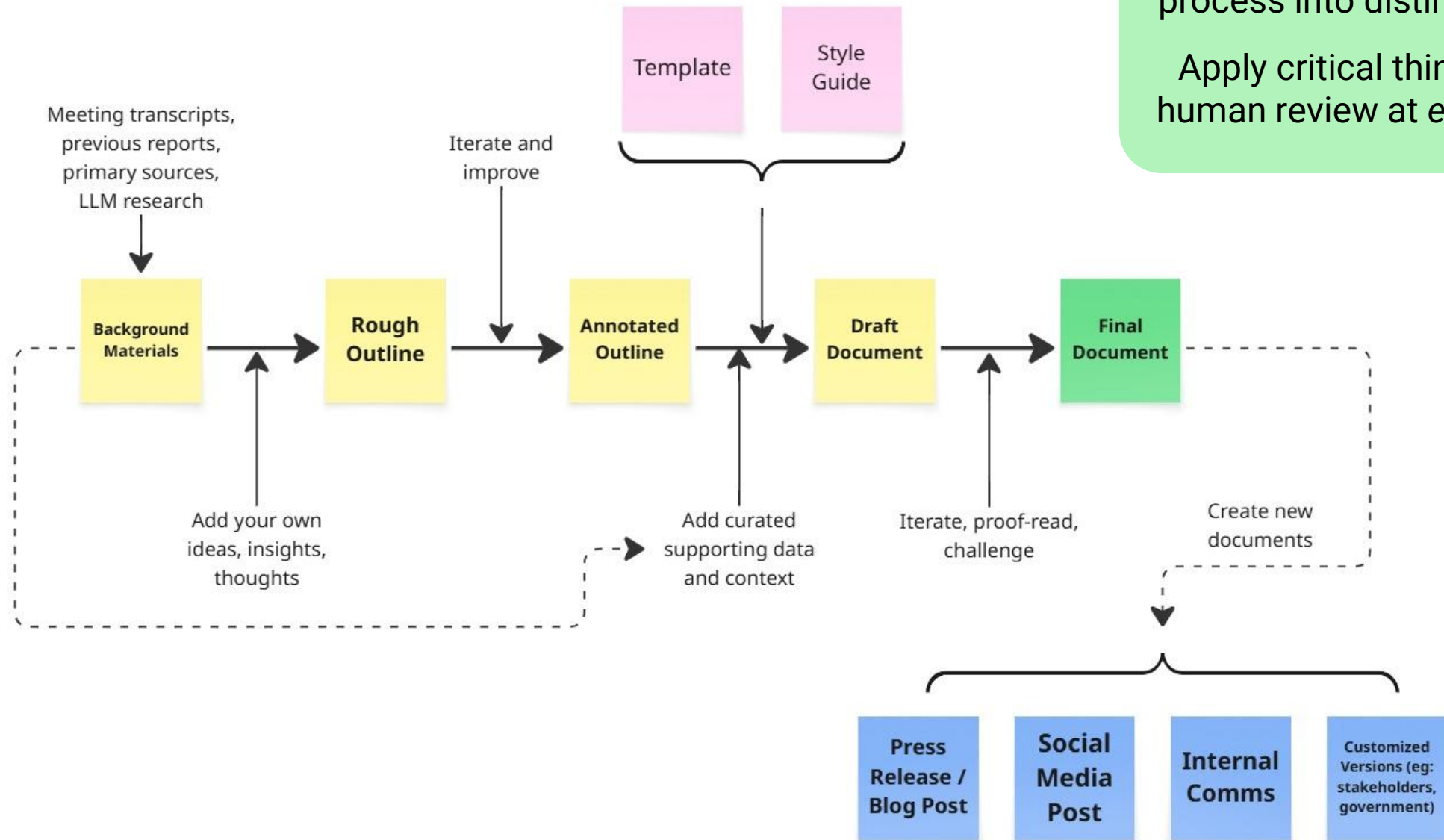
Simple prompts rarely produce good output

Simple "one shot" prompt



- Unlike simple requests for facts or answers to questions, using LLMs to write documents is rarely successful with simple "one-shot" prompts.
- Output will likely be generic, unfocused and not very sophisticated.
- The LLM is "guessing" what you want, since you haven't given it any detail.
- This doesn't mirror how we create sophisticated documents:
  - Rarely do we simply sit down and write out a document from beginning to end without any preparation.
  - Rather, we do it in stages and give considerable thought and effort to each stage.

# AI for Writing & Analysis



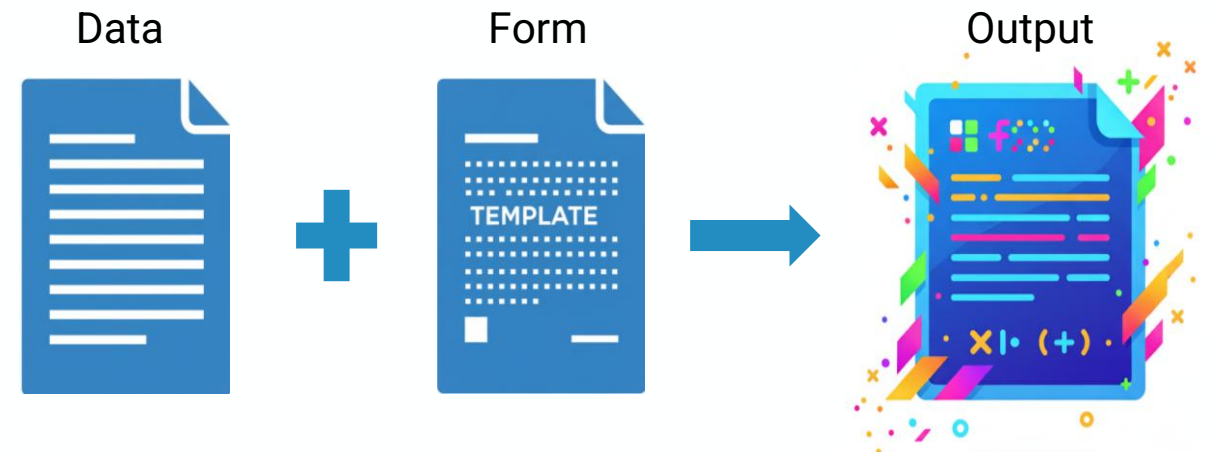
# Prompting + Context

Quick review of key concepts

## Core Prompting Pattern

1. **ROLE** → Who should the AI be?
  - "You are an expert energy policy analyst"
2. **TASK** → What do you want done?
  - "Summarize this report"
3. **FORMAT** → What should the output look like?
  - "Create a 2-page briefing with executive summary"
4. **CONSTRAINTS** → What are the boundaries?
  - "Use Canadian examples only; target audience is provincial policymakers"
5. **EXAMPLES** → Show what you want (few-shot learning)
  - Provide a sample of desired output style

## Managing the Context Window:





# Writing a Synthesis Memo

Example: Budget 2025

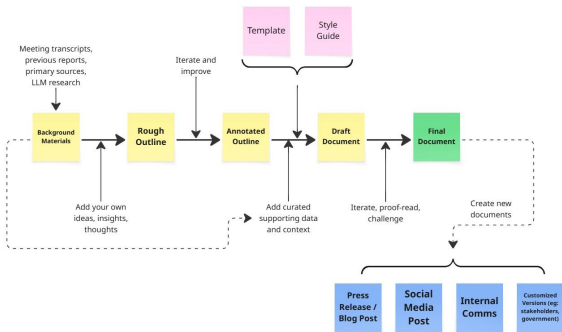
## Task:

*Write a memo summarizing the 2025 federal Budget for internal use. Focus specifically on measures related to climate change or the energy transition. Also include how the Budget was received by media and stakeholder.*



# Writing a Synthesis Memo

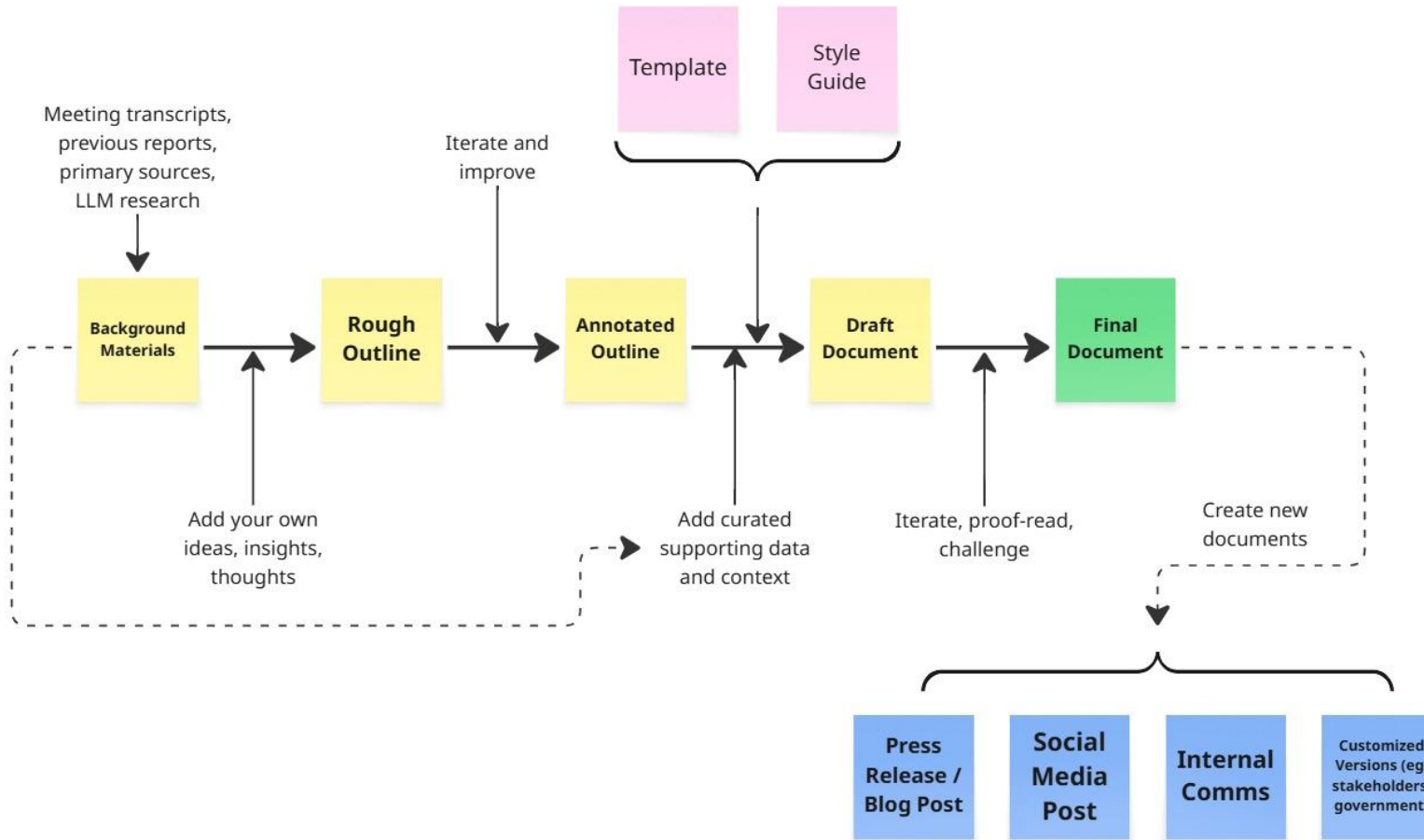
Budget 2025 example



Process Step	Activity	Example
1. Prepare Background Materials	<ul style="list-style-type: none"><li>Extract key elements of Budget 2025</li><li>Conduct media + stakeholder scan</li></ul>	Budget 2025 highlights: <a href="#">chat</a> , <a href="#">output</a>  Media/stakeholder scan: <a href="#">chat</a> , <a href="#">output</a>
2. Generate a rough outline of memo	<ul style="list-style-type: none"><li>Review and iterate</li></ul>	Rough outline: <a href="#">chat</a>
3. Generate an annotated outline of memo	<ul style="list-style-type: none"><li>Include data sources, references</li></ul>	Annotated outline: <a href="#">chat</a> , <a href="#">output</a>
4. Generate rough draft of memo	<ul style="list-style-type: none"><li>Optional: Apply a template and/or style guide</li><li>Review and iterate</li></ul>	Rough draft: <a href="#">chat</a> , <a href="#">output</a>
5. Generate final draft of memo	<ul style="list-style-type: none"><li>Review, proof-read and iterate</li></ul>	Do this in a word processor! 😊

# AI for Writing & Analysis

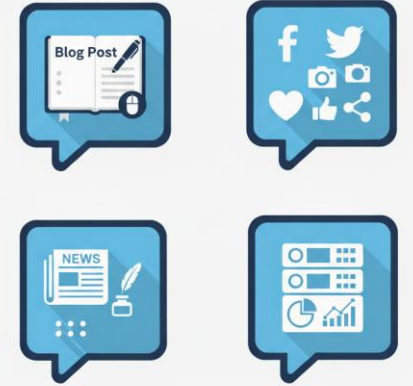
## Recapping Key Insights



- Break down process into as many steps as necessary:
  - Decide *where* in the process you want to shape the LLM's output.
- Bigger, more sophisticated documents should involve more steps and more iteration.
- The *earlier* you intervene, the more impact you can have on structure, design, content.
- Later in the process focus more on style, verifying specific facts, proofreading.

# Generating Additional Documents

Extending our original memo to other documents



Document Type	Concept	Example
1. Blog Post	Applying a style guide	Creating a style guide: <a href="#">chat</a> Blog post: <a href="#">chat</a> , <a href="#">output</a>
2. Social Media Posts	Using examples	Social media posts: <a href="#">chat</a>
3. Article for The Economist	Using Claude Skill to apply a style guide	Creating Claude Skill: <a href="#">chat</a> , <a href="#">output</a> Writing article: <a href="#">chat</a> , <a href="#">output</a>
4. Slide deck	Experimental: testing the <a href="#">perplexity.ai</a> slide deck feature	Slide deck: <a href="#">chat</a> , <a href="#">output</a>

# Moving Beyond Document Creation

Other useful use cases for LLMs in writing and analysis



## 1. Brainstorming / Idea Generation

- Use the LLM as a dumping ground for ideas; once you have collected enough, ask LLM to organize and categorize the ideas
- Audio input can be very useful at this stage; go for a walk and brainstorm ideas!

## 2. Verification and Stress Testing:

- Ask LLM to critically assess the arguments or facts in a document; can be particularly effective if using an LLM different than the one used to produce the document



## 3. Structured Data Extraction:



- With careful prompting, you can extract information from large, text-based documents in a structured way. Eg: extract all new spending items from Budget text
- Combined with advanced research techniques, this can vastly improve the quality of data you can feed your LLM.

# Best Practices

Easy practices to quickly improve your writing productivity using LLMs

## 1. Create a Style Guide for the organization

- Capture the desired tone and writing style of the organization

## 2. Create Templates for frequently produced documents

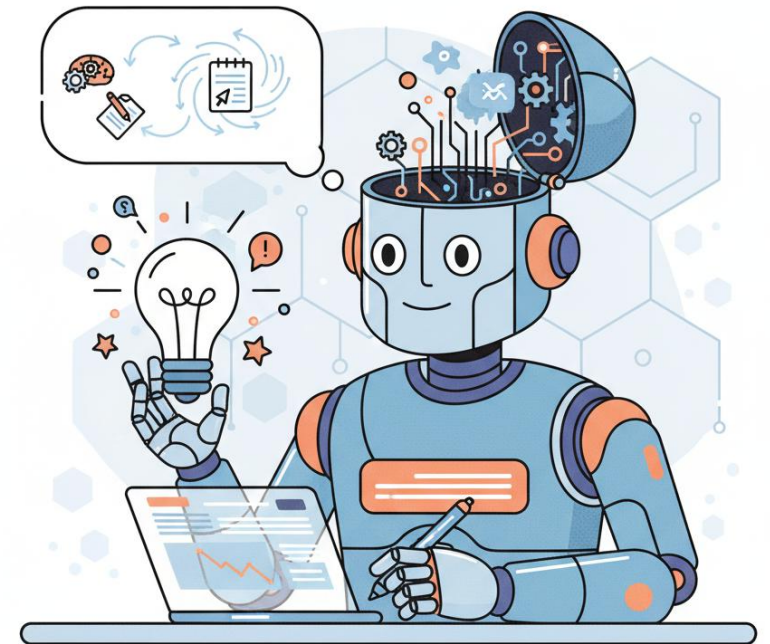
- Memos, research reports, blog posts, social media posts

## 3. Use the Claude Skill or Custom GPT features

- Apply style guides and templates consistently

## 4. Style guides can also help with translation!

- Create an English → French Canadian translation guide for LLMs



# Additional Resources

For further reading

Title	URL
Claude Use Cases	<a href="https://claude.com/resources/use-cases">https://claude.com/resources/use-cases</a>
ChatGPT for Government: Prompt-Pack for Leaders	<a href="https://academy.openai.com/home/blogs/government-prompt-pack-for-leaders">https://academy.openai.com/home/blogs/government-prompt-pack-for-leaders</a>
Using Generative AI (University of Waterloo Writing Centre)	<a href="https://uwaterloo.ca/writing-and-communication-centre/Resources-AI-Overview">https://uwaterloo.ca/writing-and-communication-centre/Resources-AI-Overview</a>
Alberta AI Academy Masterclass	<a href="https://masterclass.albertaaiacademy.com/">https://masterclass.albertaaiacademy.com/</a>
Guide on the Use of Generative AI (Government of Canada)	<a href="https://www.canada.ca/en/government/system/digital-government/digital-government-innovations/responsible-use-ai/guide-use-generative-ai.html">https://www.canada.ca/en/government/system/digital-government/digital-government-innovations/responsible-use-ai/guide-use-generative-ai.html</a>

# Thank You!



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