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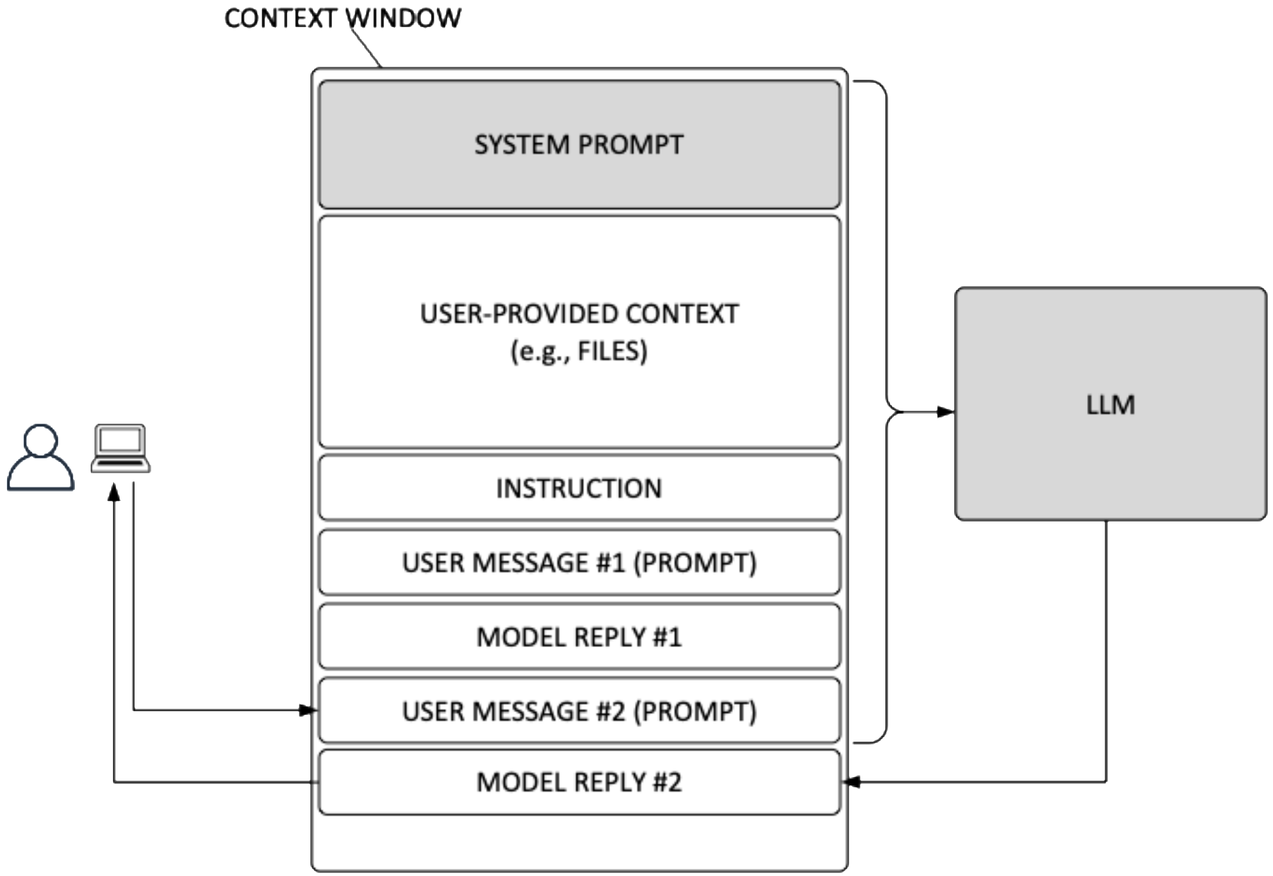
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SLW COFFEE BREAK WEBINARS

Brewing Better AI Prompts: Prompting to Perk Up Your Patent Practice



Understanding AI Tool Architecture



Understanding AI Tool Landscape

- IP Specific v General
- The Model v The Tool: Most tools are using the same model(s)
- Tool Differentiators
  - Pre-Built Prompts (Simpler) v Custom Prompts (Powerful)
  - Context Management Features (User Interface, Integrations, etc.)
  - Document Generation and Editing
- Tool Categories: Conversational AI v Batch Processing

Basic Prompting Fundamentals

- Four “Essential” Components of Every Prompt:
  1) Overall Objective
  2) Context/Example
  3) Desired Output and Format
  4) Call to Action

- Learning to Prompt
  - Inverse Prompting: Provide Desired Output, Ask AI to Generate Prompt That Would Result in the Desired Output
  - Use AI to Write Prompts (or Instructions)
  - Save and Reuse: Build a Library of Effective Prompts

EXAMPLE PROMPT

- SETUP: Prepare the Context (upload PDF of FIGURES document)

- Prompt:
  “Your task now is to draft the Brief Description of the Figures section for my patent application. Carefully analyze each figure in the FIGURES document, and then prepare a single sentence that broadly describes what the figure is illustrating, in the context of the claimed invention (**assuming I have added claims to Context**). Here is an example of the Brief Description of the Figures section for a different patent application: <cut-and-paste Example>. Now, draft the Brief Description of the Figures section for my patent application.

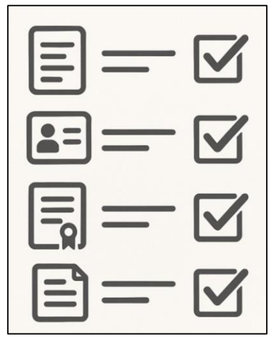
Context Engineering: Context Bleed

- Early LLM interfaces had substantial issues with context bleed.
- This was most noticeable when an Office Action was in the context window.
  - The LLM would essentially be arguing from the Examiner’s position about the alleged claims scope or teachings of the references.



Context Engineering: Coarse Context Manipulation

- If using uploaded documents, start a session (e.g., new chat) by asking the AI tool to summarize the uploaded documents to define the context window.
- Select and deselect relevant files as you are able.
- If you are concerned about context bleed, then start a new chat session.

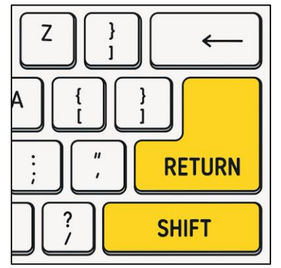


Context Engineering: Fine Context Manipulation

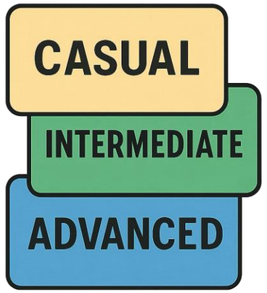
- Use clear section headings: “Carefully read the RESPONSE STRATEGY below and the PENDING CLAIMS below and suggest amendments to the PENDING CLAIMS to implement the RESPONSE STRATEGY.”

  - The key combination SHIFT+RETURN is often needed to introduce a carriage return without submitting the prompt.

- Use Cornell-style numbering (e.g., 1.1, 1.2, 1.2.1., 2.1, 2.2, etc.) in your prompts or request the LLM to provide numbered outputs to refer back to specific paragraphs.



Prompt Engineering: Prompt Quality



- Minor improvements to prompt quality result in substantial improvements to output quality.
  - Casual prompt: “draft claims”
  - Intermediate prompt: “Draft patent claims that relate to the following invention disclosure features . . .”
  - Advanced prompt: “You are an expert patent attorney. Your task is to carefully analyze the invention disclosure features below, identify all of the novel features, and then draft a set of method patent claims that cover those novel features.”

- Use another LLM to draft a prompt: “Draft an LLM prompt or a series of LLM prompts that will analyze an invention disclosure documents and draft patent claims.”

Prompt Engineering: Affirmative Instructions

- Prompt using affirmative (positive) instructions instead of negative limitations.
  - Don’t: “Don’t use long sentences or extraneous information.”
  - Do: “Redraft this text using short, declarative sentences. Focus on describing and detailing the technical features.”
  - Maybe: “Redraft this text to avoid the use of adverbs, adjectives, or intensifiers.”



Prompt Engineering: Example Prompting

- “Redraft the previous response using the organization and tone of the following example paragraph template . . .”

- “Draft reformatted claims based on the previous response. The reformatted claims should use all of the text in the previous response, but should reformat the claims based on the EXAMPLE INPUT below and the EXAMPLE OUTPUT below.

  EXAMPLE INPUT

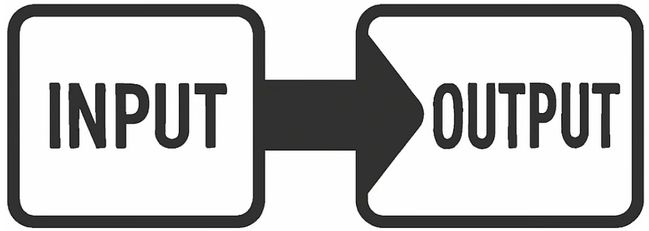
  Claim 1 is a system comprising something and something else.

  EXAMPLE OUTPUT

  1. A system comprising:

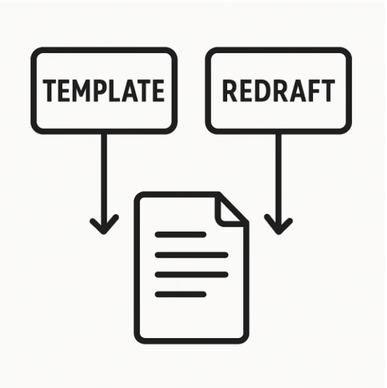
  something; and

  something else.”

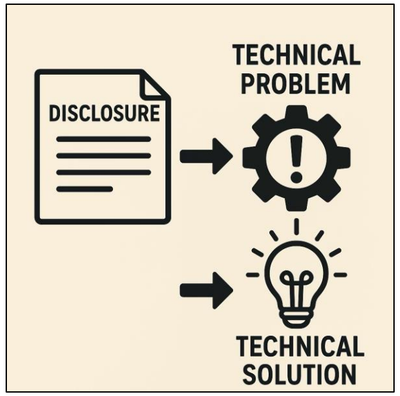


Patent-Specific Tips: Redrafting Tips

- When you provide example text, be clear in whether you are requesting that the text be redrafted or used as a template.
- Redrafting: “Redraft the following paragraph to clarify the technical features.”
- Template: “Redraft the previous response using the organization and tone of the following example paragraph template . . .”



Patent-Specific Tips: Claim Drafting



- Draft patent claims using a series of prompts (chain-of-prompt).
  - Carefully read disclosure (documents and transcripts) to identify the technical problem to be solved.
  - Identify the technical solution that addresses the technical problem.
  - Broaden the technical solution based on the disclosure.
  - Identify fallback positions for potentially narrower dependent claims.

- Draft intermediate-scope and narrow-scope independent claims.
  - Draft dependent claims that ladder meaningful fallback positions.
  - Diversify claim types where appropriate.

Patent-Specific Tips: Inventor Interviews

- Before the Interview, Ask the AI to Summarize the Invention and Create a list of Questions That Should be Directed to the Inventors.

- Use the Inventor Interview Transcript as Context

  - Ask the inventors to confirm any and all administrative data (country of citizenship, residential address, etc.)
  - Deliberately Ask the Inventor(s) to Describe the “Point of Novelty” – say “Novelty” or “Point of Novelty”
  - Deliberately Ask the Inventor(s) to Discuss the Technical Problem and Solution – say “Technical” and ”Technical Problem”

AI-Powered Dictation

- Using a Speech-to-Text Dictation Tool is nice…
- Using a Context-Aware, AI-based Speech-to-Text Dictation Tool is a Game Changer!
  - WisprFlow, AquaVoice
  - Customizable
  - Good for AI Prompting, but also, email drafting, document editing, etc.

Structured Output for System Integration

- Poor Man’s Integration – No Coding Required
- Generate Clickable “TEL:” Links for Phone Numbers
- Auto-Generate Google Patents Links for Cited References
- Create Pre-Populated “MAILTO:” Links for Emails

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Thank you



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