**Prompt Design Framework for Effective AI Interaction**

*Proposed by SJTU Global Challenge Project*

*“From Shanghai to Rwanda 2.0”*

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**A. Structure for prompt: RISEN[[1]](#footnote-1)**

*Role, Instructions, Steps, End Goal, Narrowing*

1. **Role**: Who are you?
2. **Instructions** (Including Steps)
   1. Use ### or triple quotes """ to clearly separate instructions from the context or data.
   2. Be **specific and detailed** about the desired output: context, outcome, length, format, tone, style, etc.
   3. Encourage **step-by-step** reasoning. Chain-of-thought prompting helps the model think logically.
   4. For applied tasks like programming, specify the **language and packages** to use (e.g., tidyverse in R, pandas in Python).
3. **End Goal**: Use examples to clarify the expected outcome.
   1. Start with zero-shot prompting, then try few-shot. If neither is effective, consider fine-tuning.
4. **Narrowing**: Format matters. A consistent structure makes results easier to process and reuse in batches.

**B. More to Learn**

1. **Context Engineering**
   1. This includes: state tracking, interaction history, long-term memory, and retrieval-augmented generation (RAG).
2. **Future Direction** 
   1. Incorporating environmental context (location, device and time) is an emerging area of prompt engineering.
3. **Prompt Styles**
4. DeepSeek Style: **Sincere and Direct**
   1. **Task**: What do you want the AI to do?
   2. **Context**: Who is it for? What is the target audience?
   3. **Goal**: What kind of output or result are you aiming for?
   4. **Negative Constraint**: What should the AI avoid? What are your concerns or limitations?

1. “How the RISEN Framework Transforms AI Prompt Engineering [With ChatGPT Prompts].” Easy AI Beginner, 24 Aug. 2024, https://easyaibeginner.com/risen-framework-ai-prompt-for-chatgpt/. [↑](#footnote-ref-1)