UNDERSTANDING AI LANGUAGE

THE R-T-F PROMPT ENGINEERING FRAMEWORK

The Concept

R-T-F (Role, Task, Format) is the *Swiss Army Knife* of prompting. It provides the minimum necessary context for a structured response.

Use this for daily tasks where you need a quick, usable output without complex reasoning.

Example

Role: You are a college admissions counselor.

Task: Brainstorm 3 meaningful topics for a personal statement.

Format: List the ideas with a short explanation for each.

ZERO-SHOT = No examples provided, just clear structure

UNDERSTANDING AI LANGUAGE

THE T-A-G PROMPT ENGINEERING FRAMEWORK

The Concept

This framework focuses heavily on the outcome or the "why" behind the request. When the AI knows the goal, it can make smarter creative choices.

Task: Defines the broad activity.
Action: Specifics of what to do.
Goal: The ultimate purpose.

Example

Task: I'm stuck solving quadratic equations by completing the square.
Action: Walk through one example step-by-step and then give me a similar practice problem.
Goal: Understand the method well enough to do it on my own.

ZERO-SHOT = No examples provided, just clear structure

UNDERSTANDING AI LANGUAGE

THE B-A-B PROMPT ENGINEERING FRAMEWORK

The Concept

This framework is similar to storytelling. Use this for solving problems, making improvements, and overcoming challenges. Also often used in marketing.

Before: Describe the current problem.
After: Describe the ideal outcome.
Bridge: Ask for the solution or to fill the gap.

Example

Before: I'm getting C's in math because word problems confuse me and I struggle to set up equations.

After: I want to earn B's or higher by solving word problems confidently.

Bridge: Give me a step-by-step strategy for identifying key information and turning it into equations.

CHAIN-OF-THOUGHT = Requesting step-by-step process in the Bridge

UNDERSTANDING AI LANGUAGE

THE C-A-R-E PROMPT ENGINEERING FRAMEWORK

The Concept

C-A-R-E (Context, Action, Result, Example) excels when the AI needs background information to function correctly.

Context: Set the background/situation.
Action: Describe the task.
Result: Specify the intended output.
Example: Offer sample/illustration.

Example

Context: We are a gluten-free bakery launching a new cookie.

Action: Write an Instagram post to advertise the new product.

Result: To drive pre-orders.

Example: Here is a successful post for a different product that we wrote last month...

FEW-SHOT = Example provided shows the pattern

UNDERSTANDING AI LANGUAGE

THE R-I-S-E PROMPT ENGINEERING FRAMEWORK

The Concept

R-I-S-E (Request, Input, Scenario, Expectation) is useful when you have specific data or content you need the AI to process.

Request: State what you want the AI to do.
Input: Provide necessary data/background.
Scenario: Describe the situation/context.
Expectation: Outline the desired outcome.

Example

Request: Give feedback on my essay.
Input: Topic: overcoming challenges of balancing school, a part-time job, and house chores (content of essay here).
Scenario: This is for my English class narrative essay assignment.
Expectation: Suggestions to strengthen my thesis, improve flow, and address the prompt clearly.

ZERO-SHOT + Rich Context = No examples, but lots of background information

UNDERSTANDING AI LANGUAGE

THE R-O-L-E PROMPT ENGINEERING FRAMEWORK

The Concept

R-O-L-E (Role, Objective, Language, Example) defines a role to access specific subsets of the AI's training data with specific vocabulary.

Role: Assign a job to the AI.
Objective: Define the goal.
Language: Define the tone, style, and level.
Example: Offer sample/illustration.

Example

Role: You are a mentor for startup businesses.
Objective: Help me develop a business plan to launch a small business selling custom T-shirts.
Language: Use clear, beginner-friendly business advice.
Example: Outline steps such as choosing target audience, designing products, setting up an online store, and social media marketing.

ROLE PROMPTING = Assigns specific expertise/personality to the AI

UNDERSTANDING AI LANGUAGE

THE E-R-A PROMPT ENGINEERING FRAMEWORK

The Concept

E-R-A (Expectation, Role, Action) This framework is a streamlined version of the R-O-L-E framework that puts the expectation first, good for setting boundaries early.

Expectation: Defines the desired result.
Role: Assign a job to the AI.
Action: Specify what the AI needs to do.

Example

Expectation: I want to feel confident answering behavioral interview questions for a summer internship.
Role: Act as a professional career coach.
Action: Ask me 5 common interview questions, then give feedback on how to improve my responses.

ROLE PROMPTING = Assigns specific expertise/personality to the AI

UNDERSTANDING AI LANGUAGE

THE C-O-A-S-T PROMPT ENGINEERING FRAMEWORK

The Concept

C-O-A-S-T (Context, Objective, Action, Steps, Task) is great for multi-step processes or complex projects.

Context: Provide background information.
Objective: Define the goal.
Action: Specify what the AI needs to do.
Steps: List the instructions in order.
Task: Describe the main task/challenge.

Example

Context: I want to create a promotional video for my high school esports club.

Objective: I want it to attract new members and build excitement for competitions.

Action: Suggest visuals, text overlays, and music style ideas to match an esports theme.

Steps: Outline the key scenes from start to finish.

Task: Help me plan a professional and engaging video concept.

CHAIN-OF-THOUGHT = Notice the STEPS component asking for sequential process

UNDERSTANDING AI LANGUAGE

THE F-R-A-M-E PROMPT ENGINEERING FRAMEWORK

The Concept

F-R-A-M-E (Function, Rules, Action, Materials, Expected Output) is well-suited for research and analysis tasks.

Function: Define what the AI should do.
Rules: Sets the constraints or limitations.
Action: Specify what the AI needs to do.
Materials: Provides input/context.
Expected Outcome: Specify the desired result.

Example

Function: Help me analyze trends in renewable energy adoption worldwide.

Rules: Use recent, credible sources and focus on data-driven conclusions.

Action: Compare solar, wind, and hydro trends and explain what drives them.

Materials: I am writing a report on renewable energy expansion over the last 5 years.

Expected Outcome: A concise analytical summary with key insights and comparisons.

CHAIN-OF-THOUGHT = Guide AI's logic for structured result.