

Advanced Prompting Techniques

Chain-of-Thought (CoT)

Question:

Roger has 5 tennis balls. He buys 2 more cans of tennis balls. Each can has 3 balls. How many tennis balls does he have now?

Prompt:

"Let's think step by step."

1 Roger starts with **5 tennis balls**

2 He buys **2 cans** of tennis balls

3 Each can has **3 balls**, so $2 \times 3 = 6$ balls

4 Total: $5 + 6 = 11$ balls

✓ Final Answer:

Other Advanced Techniques

Few-shot Learning



Provide **multiple examples** in prompt for pattern recognition

Self-consistency



Sample **multiple outputs** and vote for most consistent answer



Tree of Thoughts

Explore **multiple reasoning paths** simultaneously



ReAct

Reasoning and acting in interleaved manner



Auto Prompt Optimization

Use **evolutionary methods** to improve prompts

11 tennis balls



Meta-prompts

Prompts that generate prompts for different tasks