
Prompt-Template Cheat Sheet

A concise guide to five core scaffolds for AI prompting

Quick Overview

Prompt Template	Length	CoT Exposure	Clarification	Self-Review	Best Domain	Adoption
Universal Expert AI	Short	Minimal (summary only)	✓ Yes	Implicit	General-purpose	~90%
Ultimate Universal AI Prompt	Long	Full	✓ Yes	Implicit	Teaching / onboarding	~5%
Fractal Reasoning Loop (FRL)	Long	Full	✗ No	✓ Yes (explicit)	Debugging / research	~2%
Shortened FRL	Very short	Partial (tweak required)	✗ No	✓ Yes (≤2 passes)	Prompt craft / ideation	~3%
RAAIP	Short	None (silent)	Conditional	✓ Yes (silent loop)	High-stakes factual checking	Niche

Feature-by-Feature Comparison

Aspect	Universal Expert AI	Ultimate Universal AI Prompt	FRL	Shortened FRL	RAAIP
Task Breadth	All domains (tech, creative, advisory)	Tutoring, walkthroughs	Technical puzzles, math-heavy	Broad (depends on prompt context)	Safety-critical domains only
Flow of Conversation	Fast: understand → solve → present	Slower: checklist-style	Verbose, multi-stage	Fast, concise loop (2-pass limit)	May hesitate; clipped answers
Policy Exposure	Minimal (summary-level CoT)	Full reasoning shown (policy tension)	Full transparency (often disallowed)	Partial (requires summary-tweak)	Reasoning is silent by design
Flexibility	Adaptive, clarifies where needed	Rigid; follows structured flow	Hard-coded, no clarification	Flexible, but missing clarification	Inflexible, pass/fail gates only
User Readability	Clean and concise	Long meta-text; slower to read	Dense “lab report” feel	Short and user-friendly	Terse, not learner-friendly
Template Maintenance	Lightweight, low upkeep	Verbose; can become bloated	Specialized; hard to adapt	Minimal upkeep; highly portable	Rarely changed; expert-only

✅ Pros & Cons Breakdown

Prompt	Advantages	Limitations
Universal Expert AI	<ul style="list-style-type: none"> • Quick and flexible • Clarification built-in • Policy-aligned 	<ul style="list-style-type: none"> • No explicit review loop • Needs hints for unusual formats

Prompt	Advantages	Limitations
Ultimate Universal AI Prompt	<ul style="list-style-type: none"> • Excellent for structured learning • Clear code/math walk-throughs 	<ul style="list-style-type: none"> • Verbose and rigid • CoT policy exposure risk
Fractal Reasoning Loop	<ul style="list-style-type: none"> • Deep self-review • Encourages critical thinking 	<ul style="list-style-type: none"> • High overhead • No user clarification
Shortened FRL	<ul style="list-style-type: none"> • Compact and creative • Teaches prompt engineering 	<ul style="list-style-type: none"> • Missing clarification • Partial reasoning only
RAAIP	<ul style="list-style-type: none"> • Strong validation • Ensures safety in regulated domains 	<ul style="list-style-type: none"> • Not creative • Lacks transparency for learners

Deep Dive: Scaffold Descriptions

1. Universal Expert AI

- **Essence:** Lean four-stage loop (Understand → Choose Modality → Solve → Present).
- **Strengths:** Fast, adaptable, default-friendly, policy-compliant.
- **Weaknesses:** No explicit self-review loop; occasional prompt hints needed.
- **Best For:** Daily use—general chat, coding, planning, writing.

2. Ultimate Universal AI Prompt

- **Essence:** Five checkpoint stages (Understand → Adapt → Solve → Clarify → Align).
- **Strengths:** Step-by-step thinking; ideal for educational and instructional contexts.
- **Weaknesses:** Verbose, slow; exposes entire chain-of-thought.
- **Best For:** Onboarding, tutorials, classroom settings.

3. Fractal Reasoning Loop (FRL)

- **Essence:** Reflexion-based loop (Explore → Diverge → Draft → Self-Review → Optimize).

- **Strengths:** Lateral thinking, in-depth critique.
 - **Weaknesses:** No clarification step; heavy resource load; policy conflict risk.
 - **Best For:** Technical audits, complex reasoning workflows.
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4. Shortened FRL

- **Essence:** Two-pass mini-loop (Spot → Rewrite → Compare → Deliver).
 - **Strengths:** Ideal for fast iteration, creative exploration, prompt design.
 - **Weaknesses:** Needs clarification hack; not full CoT by default.
 - **Best For:** Ideation, workshops, compact outputs.
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5. RAAIP


- **Essence:** Silent validation graph → facts, physics, logic → pass/fail.
 - **Strengths:** Strict safety filters; great for compliance and factual correctness.
 - **Weaknesses:** Refuses ambiguous queries; minimal explainability.
 - **Best For:** Aerospace, health tech, formal audits.
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Final Recommendations

Use Case

Recommended Scaffold

General Q&A, planning, coding, creative tasks	✔ Universal Expert AI
Teaching, tutoring, walkthroughs	✔ Ultimate Universal AI Prompt
Debugging, research, reasoning audits	✔ Fractal Reasoning Loop
Prompt writing, brainstorming, ideation	✔ Shortened FRL (with tweak)
Compliance, factual validation, safety checks	✔ RAAIP

 *Tip:* Choose the **smallest** scaffold that meets your need for correctness, clarity, and policy alignment.