

# Boundary–Programmable Prompting: Modular Design Patterns for Multi-Turn LLM Agents

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## Abstract

Large language model agents are often governed by single-block prompts that entangle goals, heuristics, and memory, making their behavior brittle, opaque, and hard to control. We introduce **Boundary–Programmable Prompting (BPP)**, a modular prompting architecture that separates (i) boundary prompts encoding role and interpretive constraints, (ii) programmable heuristics that use *fuzzy heuristic ranges* to modulate behavior symbolically, and (iii) a short-term memory schema for tracking interaction-level state. Unlike prompting methods that rely on natural language alone, BPP provides machine-readable ranges that LLMs use to select strategies dynamically during inference. This structure supports more interpretable adaptation and bounds the space of valid actions to reduce hallucination. In a Socratic tutoring testbed, ablating each BPP module leads to selective, interpretable failures (e.g., loss of coherence without memory, rigidity without programmable heuristics, role drift without boundaries), demonstrating that modular prompting can serve as an inference-time control architecture.

## 1 Introduction

Large language models (LLMs) increasingly serve as the backbone of interactive systems (e.g., tutors, planners, coaches, assistants) where behavior must unfold coherently across turns and adapt to evolving user goals. Yet such agents often behave inconsistently: they lose track of prior context, apply heuristics unpredictably, or drift from their intended role (Laban et al., 2025; McCoy et al., 2024). A growing body of work suggests these failures stem not only from model limitations but from how prompts are structured. Most current approaches entangle goals, strategies, and context into a single instruction block, making behavior brittle, opaque, and hard to adapt (Wang et al., 2023; Liu et al., 2023; Morris, 2024).

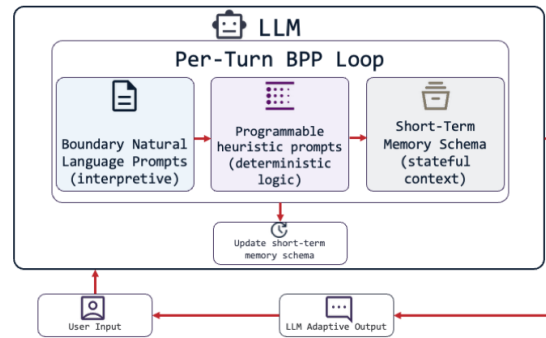


Figure 1: The per-turn Boundary–Programmable Prompting (BPP) loop. A single LLM operates over three modular components: a boundary prompt defining goals and interpretive rules, programmable heuristics providing decision logic based on numerical ranges the model reads and acts on at inference time, and a short-term memory schema maintaining state across turns. User input passes through this loop, the LLM generates an adaptive response, and memory is updated for the next turn.

Despite progress in prompting techniques, existing methods offer limited support for decomposing agent behavior into separable, independently controllable components. Techniques like few-shot prompting, chain-of-thought reasoning, and self-consistency decoding improve surface-level behavior but remain fundamentally monolithic (Brown et al., 2020; Wei et al., 2022; Zhou and Ai, 2024). Role framing and pedagogical prompting add structure (Andreas, 2022; Lee et al., 2024), but support only limited modularity (Bengio et al., 2009; Wang et al., 2024). Schema controllers guide input formats rather than decision logic (Okuda and Amarasinghe, 2024), and memory-augmented approaches retrieve static text rather than maintaining dynamic, interpretable state (Khandelwal et al., 2019; Lewis et al., 2020). Even in fuzzy control (Griol et al., 2021; Abduljabbar et al., 2023) and neural–symbolic prompting (d’Avila Garcez et al.,

062	2019), inference-time modularization is rare.	
063	Insights from multiple fields point toward a com-	
064	mon architectural principle: adaptive behavior re-	
065	quires separable control components. Scaffold-	
066	ing theory distinguishes pedagogical intent from	
067	learner state (Vygotsky and Cole, 1978); fuzzy	
068	logic supports graded decision-making under un-	
069	certainty (Zadeh, 1996); and symbolic architec-	
070	tures emphasize explicit state and rule separation	
071	(Garcez et al., 2019). These perspectives converge	
072	on the need for modular controllers that structure	
073	interpretation and action selection.	
074	We draw on these foundations to propose	
075	<b>Boundary–Programmable Prompting (BPP)</b> , a	
076	lightweight prompting architecture that decom-	
077	poses control across three functional layers: (i) a	
078	<i>boundary prompt</i> that defines goals, role, and inter-	
079	pretive constraints; (ii) a <i>programmable heuristic</i>	
080	<i>layer</i> encoding symbolic or fuzzy decision logic;	
081	and (iii) a <i>short-term memory schema</i> that external-	
082	izes turn-level interaction state.	
083	Crucially, BPP introduces machine-readable	
084	<i>fuzzy ranges</i> —graded control variables such as	
085	“confidence = low” or “support level = moderate”—	
086	that the LLM interprets to guide decisions at infer-	
087	ence time. Rather than relying solely on implicit	
088	pattern recognition, the model reads explicit sym-	
089	bolic cues that modulate behavior. These fuzzy	
090	ranges bound the valid action space, improving	
091	adaptivity and reducing hallucination or drift.	
092	BPP is not a new learning algorithm. Its contribu-	
093	tion lies in prompt-level modularization: exposing	
094	symbolic surfaces for role framing, adaptive strat-	
095	egy, and memory—components that are often latent	
096	or interwoven in standard prompting. This struc-	
097	ture improves control, interpretability, and reuse.	
098	We validate BPP in a Socratic tutoring testbed	
099	<sup>1</sup> . In ablation experiments, removing each mod-	
100	ule yields targeted failures: coherence collapses	
101	without memory, adaptivity fails without fuzzy	
102	heuristic ranges, and role alignment breaks with-	
103	out boundaries. These interpretable patterns sup-	
104	port the claim that symbolic modularity improves	
105	inference-time control.	
106	Overall, BPP reframes prompting as architec-	
107	tural design. By organizing prompts into symbolic	
108	modules—and using fuzzy scores as explicit con-	
109	trol signals—it provides a foundation for more ro-	
110	bust, transparent, and adaptive LLM agents (Holtz-	
111	man and Tan, 2025; Shah, 2025).	
	<sup>1</sup> Data available at: <a href="https://github.com/researcher2026/bpp">https://github.com/researcher2026/bpp</a>	
	<b>2 Boundary–Programmable Prompting (BPP)</b>	112
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	BPP separates prompting into three functional	114
	modules—boundary prompts, programmable	115
	heuristics, and short-term memory—that together	116
	support adaptive, interpretable behavior. We	117
	illustrate BPP in an intelligent tutoring setting, but	118
	the framework is domain-general: any multi-step	119
	agent with alternative valid solution paths (e.g.,	120
	games, task assistants, planning agents) can benefit	121
	from separating boundaries, decision rules, and	122
	state into explicit components.	123
	<b>2.1 Boundary Prompts: Declarative Constraints and Interpretation Rules</b>	124
		125
	The boundary prompt specifies the agent’s role,	126
	goals, and behavioral constraints, and critically de-	127
	finies how the remaining components should be	128
	interpreted. It instructs the model how to read state	129
	variables, sequence decision steps, and handle un-	130
	certainty. Prior work shows that role framing im-	131
	proves coherence (Andreas, 2022). BPP extends	132
	this idea by making the boundary prompt an ex-	133
	PLICIT <i>interpretive layer</i> governing how rules and	134
	memory should be executed.	135
	In practice, the boundary prompt answers: (1)	136
	<i>What agent are you?</i> (role, tone, goals) (2) <i>Which</i>	137
	<i>control schema applies?</i> (how to interpret heuristic	138
	ranges and rule conditions) (3) <i>How should memory</i>	139
	<i>be updated and used?</i>	140
	This allows global behavior to be revised without	141
	altering heuristics or memory and provides a stable	142
	interpretive context across turns.	143
	<b>2.2 Programmable Heuristic Prompts: Structured Logic for Adaptive Behavior</b>	144
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	Programmable heuristic prompts form the proce-	146
	dural layer, which is a structured set of symbolic	147
	and fuzzy heuristic ranges mapping user signals to	148
	actions. Fuzzy reasoning allows decision policies	149
	to be expressed over explicit, bounded heuristic	150
	ranges rather than inferred implicitly from raw di-	151
	alogue, constraining how the model selects strate-	152
	gies under uncertainty. By conditioning action	153
	selection on interpretable ranges (e.g., confusion,	154
	knowledge level), the model operates within a pre-	155
	defined control envelope, reducing uncontrolled	156
	generalization and hallucination-prone behavior.	157
	A key property of this layer is a <i>deterministic</i>	158
	<i>mapping</i> from state variables to actions. Unlike	159
	few-shot prompting or chain-of-thought methods	160

161	(Brown et al., 2020; Wei et al., 2022), which influence general reasoning tendencies, programmable heuristics define <i>exactly</i> which strategy applies in each region of the state space. This yields consistent behavior even under ambiguity and avoids drift toward generic or unstructured explanations.	205
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167	<b>2.3 Short-Term Memory Schema: Interpretable Stateful Context</b>	211
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169	The short-term memory schema stores an explicit, task-aligned record of the interaction. In our example, these cover misconceptions, prior scaffolding actions, learner progress, or affective cues. Retrieval-augmented systems typically pull external text (Lewis et al., 2020), whereas BPP maintains a lightweight symbolic store of <i>interaction-born state</i> . Memory updates follow simple rules in the boundary prompt, preventing regressions common in multi-turn dialogue and enabling adaptive adjustments.	212
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180	<b>A Micro-Example.</b> If a learner says: “ <i>I still don’t get why the Moon changes shape,</i> ” then:	
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182	1. The <b>boundary prompt</b> classifies this as a clarification request and consults heuristic variables.	220
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185	2. The <b>programmable heuristic schema</b> maps "high confusion" + "conceptual task" to a strategy: pose a guided question using a simplified analogy.	221
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189	3. The <b>short-term memory schema</b> stores a misconception (e.g., "moon phases caused by Earth’s shadow") and increases the scaffolding level for the next turn.	225
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193	This yields structured, interpretable behavior rather than ad hoc responses shaped by a monolithic prompt.	229
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196	<b>2.4 Modular Interaction and Why It Matters</b>	231
197	Figure 1 illustrates the per-turn BPP loop, showing how boundaries constrain interpretation, heuristics govern decision-making, and memory enforces temporal coherence.	232
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201	<b>Interpretability.</b> Each module is explicit and separable, allowing developers to localize failures to a boundary instruction, rule, or memory update rather than to an opaque prompt block.	236
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Table 1: Mean evaluation scores across five tutoring dimensions by prompt condition.

Cond.	Scaf.	Resp.	Help.	Symb.	Mem.
C0 (Full)	4.80	4.88	4.76	4.72	4.64
C1 (No-Memory)	4.28	4.44	4.36	4.32	3.76
C2 (No-Programmable-Heuristics)	4.24	4.40	4.28	4.00	3.92
C3 (No-Boundary)	4.20	4.08	4.04	3.72	3.80
C4 (Vanilla)	3.80	3.72	3.60	3.24	3.00

- **C1 (No-Memory) → Temporal coherence collapses.** The model forgets prior turns, reintroduces resolved concepts, and contradicts earlier guidance. Other dimensions remain relatively intact, indicating that state, not reasoning heuristics, is what fails.
- **C2 (No-Programmable-Heuristics) → Adaptive behavior collapses.** Without programmable graded heuristics, tutoring becomes rigid and occasionally inconsistent, as the model must infer control state implicitly from context, leading to unstable strategy selection.
- **C3 (No-Boundary) → Role alignment collapses.** The model drifts into direct answering or encyclopedic exposition, ignoring Socratic norms. Other mechanisms still function, but without an interpretive frame they are inconsistently deployed.
- **C4 (Vanilla) → All control mechanisms collapse.** Topic drift, repetitive explanations, inconsistent scaffolding, and poor knowledge tracking match known failure modes of monolithic prompting.

These lesion outcomes match BPP’s intended decomposition: memory controls continuity, heuristics control adaptivity, boundaries control role and framing. Even a minimal implementation produces clean, interpretable failure modes, supporting modular prompting as a plausible design pattern for multi-turn LLM control.

## 4 Conclusion

This paper proposed **Boundary-Programmable Prompting (BPP)**, a modular view of prompting that separates declarative boundaries, programmable heuristics, and short-term memory into distinct components of control. Rather than treating prompting as a monolithic specification, BPP frames LLM behavior as the coordinated interaction of these layers: boundaries define global intent and interpretation rules, heuristics supply adaptive

decision policies, and memory provides continuity across turns.

Our early implementation provides preliminary support in that ablating each module selectively degrades the behavior it is meant to control, supporting the view that modular prompting is a strong architectural *pattern* for disentangling control surfaces in LLM agents. Many existing LLM systems (e.g., planners, multi-step solvers, coaching agents, retrieval-augmented assistants) implicitly rely on similar functions; BPP makes these elements explicit and inspectable.

By modularizing prompt components, developers can revise and debug agent behavior systematically, reducing brittleness and improving reliability. As LLMs transition from text generators to interactive agents, architectural clarity becomes increasingly important. BPP offers a concise conceptual foundation for designing adaptive, transparent prompting systems and provides a starting point for future work on richer neurosymbolic prompt architectures.

## Limitations

We present BPP as a conceptual framework supported by preliminary evidence rather than a comprehensive empirical study. Our experiments are limited to synthetic learners, a single model family, and LLM-based evaluation; human studies and broader domains are needed to assess external validity. The framework assumes that LLMs reliably follow modular prompt components, an assumption that may fail under distribution shift or adversarial inputs. Additionally, designing programmable heuristics and memory states still requires manual effort and domain expertise, which may not scale to complex settings without tooling support. Future work should probe BPP across tasks, models, and users, and investigate methods for learning or refining heuristic and memory structures from data.

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	<b>A Prompting Framework Details</b>	436
	<b>A.1 Symbolic Prompt Architecture</b>	437
	BPP integrates three symbolic control layers into the prompting pipeline: (1) a boundary prompt defining role and interpretive rules, (2) a programmable heuristics encoding graded decision policies, and (3) a short-term symbolic memory that maintains state across turns. Together, these components implement a lightweight control loop without modifying model weights.	438
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## A.2 Boundary Prompt Structure

The boundary prompt establishes the agent role, global goals, and instructions for interpreting the programmable heuristic and memory schemas. This is described in the example (excerpt) below.

```
You are an adaptive tutor. Interpret the control
schema as follows:
1. Identify task type using `task_types`.
2. Select a scaffolding strategy based on `
knowledge_level`.
3. Adjust complexity using `readability_levels`.
4. Update memory after each turn with new
misconceptions,
progress indicators, or affective cues.
```

This layer specifies how the model should \*read\* the schema and when to update state, functioning as the interpretive “meta-control” component.

## A.3 Programmable Heuristic Schema

The programmable heuristic schema encodes graded instructional logic using fuzzy sets and simple rules. The example (excerpt) below illustrates this.

```
{
  "knowledge_levels": {
    "emerging": 1,
    "developing": 2
  },
  "scaffolding_types": {
    "high": 3,
    "moderate": 2
  },
  "mappings": {
    "emerging": "high",
    "developing": "moderate"
  }
}
```

The schema maps learner signals (e.g., confusion, progress, confidence) to graded strategies, providing an interpretable and deterministic decision ladder.

## A.4 Short-Term Memory Schema

Memory captures interaction-born state rather than generic history, enabling coherence across turns. The following excerpt exemplifies this.

```
{
  "task_topic": "moon phases",
  "knowledge_level": 1,
  "misconceptions": ["confuses shadow with tilt
"],
  "scaffolding_history": ["high", "moderate"]
}
```

Updates follow rules defined at the boundary layer (e.g., append new misconceptions, escalate scaffolding after repeated help requests).

Table 2: Ablation conditions and observed effects.

Cond.	Component removed	Summary of effect
C0	None	Full BPP; strongest performance across all metrics.
C1	Memory schema	Large drop in <i>Memory</i> ; minor declines in scaffolding and symbolic strategy use.
C2	Programmable heuristics	Loss of graded adaptivity; weaker scaffolding and responsiveness.
C3	Boundary prompt	Role drift; broad degradation, especially in helpfulness and responsiveness.
C4	All symbolic layers	Generic zero-shot tutoring; lowest performance overall.

## B Evaluation Rubric (Summary)

Each assistant response was rated on five dimensions: (1) scaffolding quality, (2) contextual responsiveness, (3) helpfulness, (4) symbolic strategy use, (5) memory coherence.

Scores ranged from 1–5 with rubric-based guidance. A full example rater prompt is provided in the project repository.

## C Ablation Mapping and Component Impact

An overview of the ablation conditions and observed effects is shown in table 2.

## D Results Summary

Scores follow the predicted modular pattern: removing each component selectively impairs the behavior it controls, supporting the functional decomposition proposed by BPP (Figure 2).

Average Evaluation Scores per Condition Combined (Moon Phases & Global Warming)

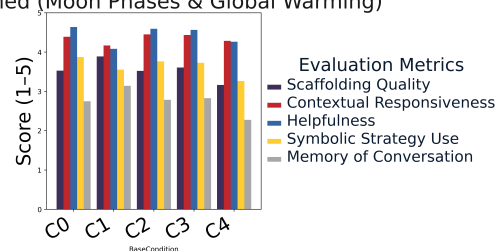


Figure 2: Average evaluation scores across experimental conditions.