

How I Talk with my AI Agents (Claude Code)

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talking with Claude Code

How to Use This Guide

- If you need a quick refresher, read the *Quick Reference* and copy the templates from *Prompt Snippets*.
- If you're designing a new agent or workflow, read *Core Philosophy*, *The Evolution*, and *Context Engineering* patterns.

- If results are inconsistent, jump to *Common Pitfalls, Debugging Prompts, and Evaluation Rubrics*.

Mental model: You're briefing a brilliant senior engineer with zero institutional memory. Provide clear goals and constraints; let the model choose the HOW.

My personal Global Guide/Rules for Claude Code (~/.claude/CLAUDE.md):

<https://gist.githubusercontent.com/aashari/1c38e8c7766b5ba81c3a0d4d124a2f58/raw/b99a150bfc711c2d2ea6cddeb8b41f8231b33f72/00-core-prompt>

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Core Philosophy

Trust Intelligence, Provide Clarity

Two truths for great outcomes:

1. **Trust the model's intelligence.** Don't over-specify the HOW; articulate goals and constraints.
2. **Provide crisp context.** Define audience, use-case, success criteria, and constraints up front.

Golden rule: If a colleague with minimal context would be confused by your prompt, the model will be too.

What to always include:

- **Why** the task matters (motivation, success criteria)
- **Who** the audience is (tone, knowledge level)
- **Where** to look (data sources, repos, tools)
- **Constraints** (policies, security, timeline, cost)
- **Output format** (schema, tags, file path)

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The Evolution

From Prompt Engineering to Context Engineering (2025)

Prompt engineering optimized single-turn phrasing. Context engineering orchestrates *what* goes into the context window, *when*, and *how it is structured*. Modern agents run multi-step plans, call tools, and maintain state.

Implications:

- Focus on **information curation** over wordsmithing.
- Use **progressive disclosure** (load guidance only as needed).
- Prefer **structured sections/tags** for separation and extraction.
- Treat prompts as **interfaces** between humans, tools, and memory.

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Fundamental Principles

1) Be Clear and Direct

The model does not know your norms by default. Specify:

- Intended use and downstream consumers
- Audience expertise and tone
- “Definition of done” and acceptance criteria
- Hard constraints (policies, budgets, SLAs)

Template:

```
Goal: <what outcome must exist>
Why: <business or user impact>
Audience: <role, expertise>
Constraints: <security, compliance, latency, cost>
Deliverable: <tags/schema/file path>
Success: <objective checks or tests>
```

2) Explain the WHY

Rules without rationale are brittle. Give the motivation so the model can generalize and handle edge cases. (E.g., “No ellipses because TTS pronounces them poorly → also avoid other unpronounceable glyphs.”)

3) Use Examples (Few-/Multi-shot)

3–5 realistic examples beat long expositions. Cover typical, tricky, and edge cases. Keep examples small but faithful.

Example wrapper:

```
<examples>
  <example>
    <input>...</input>
    <output>...</output>
    <notes>what to notice</notes>
  </example>
  ...
</examples>
```

4) Let the Model Think (Safely)

Use a **scratchpad** for complex reasoning (research, multi-step plans, reconciliations). Decide whether to **expose** the reasoning to users, **summarize** it, or **keep it internal** depending on product policy and UX. Don't force verbose thoughts for trivial tasks.

Pattern:

```
<thinking_instructions>
- Use a private scratchpad to plan steps and checks.
- Keep final output concise and polished.
- Surface only summaries of reasoning unless explicitly asked to show details.
</thinking_instructions>
```

5) Structure with XML-like Tags

Tags reduce ambiguity and enable programmatic extraction.

Common tags: `<context>`, `<data>`, `<instructions>`, `<constraints>`, `<thinking>`,
`<solution>`, `<checks>`, `<citations>`, `<next_actions>`.

6) Give a Role (System Prompt)

Roles constrain tone and scope (e.g., “You are a CFO in a board meeting” → brevity, metrics, risk).

Tips: specify seniority, industry, and success criteria; include explicit *don'ts* only when necessary.

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Essential Techniques

Sequential Instructions

Number steps to increase compliance and reduce omission.

Skeleton:

```
Your task is to <goal>.
Follow these steps:
1) ...
2) ...
3) ...
4) Output strictly as <tags/schema>.
```

Positive Framing

Say what to do, not just what to avoid. If you must prohibit something, add the rationale.

Progressive Disclosure (Agent Skills)

Organize guidance into *skills* that load on trigger words or task phases. Prevents context bloat, improves reuse.

Example layout:

```
.claude/
  CLAUDE.md
  skills/
    # core principles
```

```
debugging/skill.md    # triggers: debug, trace
deploy/skill.md       # triggers: deploy, release
finance/skill.md      # triggers: runway, margin, CAC
```

Parallel vs Sequential Tool Calls

Run independent calls in parallel for latency; run sequentially when outputs feed later steps. Explicitly state dependencies.

Output Contracts

Define machine-readable schemas so downstream systems can consume outputs safely.

JSON contract example:

```
<output_contract>
{
  "summary": "string",
  "insights": [{"title": "string", "evidence": "string"}],
  "actions": [{"owner": "string", "eta": "YYYY-MM-DD"}]
}
</output_contract>
```

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Context Engineering

The art of deciding what tokens to include, when, and in what structure.

Sources of Truth (ranked)

1. Running system / live data
2. Code & configuration
3. Recent logs & monitoring
4. Documentation & notes

When they disagree, trust higher-ranked sources; update the lower ones after confirming reality.

Packing Strategies

- **Front-load invariants:** policies, constraints, output schema.
- **Scope the task:** narrow file paths, APIs, or domains.
- **Stage data:** put only relevant excerpts in `<data>`.
- **Use indices:** table of contents with anchors for long contexts.
- **Chunk + label:** small, labeled sections beat giant blobs.

Progressive Loading

Start minimal; expand based on detected needs (“skills”). Summarize prior steps to free tokens while preserving state.

Memory & State

- **Ephemeral scratchpads** for reasoning and temporary variables.
- **Durable memory** for user preferences, learned constraints, and policies (governed by privacy rules).

Safety & Privacy

- Keep PII and secrets out of public outputs.
- Redact before sharing.
- Prefer references (IDs) to raw data when possible.

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Advanced Patterns

1) Trust Code Over Docs

Verify claims by inspecting code, configs, and runtime behavior. Update docs *after* confirming reality.

2) Research-First Protocol

Phase 1 — Discovery: read notes (as hints), scan code, map the flow, identify external dependencies.

Phase 2 — Verification: validate understanding; list blockers.

Phase 3 — Execution: act autonomously; update docs when done.

3) Iterative Self-Correction

After each meaningful change: self-check, consider side effects, test now, adjust course early.

4) Context Window Management

Grep before opening big files; summarize and prune aggressively; use IDs and references; prefer deltas over full copies.

5) Quality-First Completion

Don't ship partial chains. If A reveals issue B, fix both. Only mark complete when the full chain is healthy.

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Common Pitfalls & Solutions

1. **Emojis in Professional Output** → Model the tone you want; state rationale (professionalism, log readability).
2. **Absolute Commands Everywhere** → Replace with principles + trade-offs; add the WHY.
3. **Vague Language** (“make it nice”) → Replace with measurable criteria (e.g., “lint/type-check passes; zero warnings”).
4. **Missing WHY** → Add motivation to generalize correctly.
5. **Buried Critical Info** → Front-load Quick Reference, policies, and output schema.
6. **No Examples** → Provide 1–2 per major rule (good vs bad).
7. **Implicit Intent** → Be explicit; if ambiguous, ask.
8. **Over-Prescription** → Trust intelligence; avoid 300-line decision trees when 20 lines of principles suffice.

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Debugging Prompts

Symptoms → **Likely Causes** → **Fixes**

- **Hallucinated specifics** → Under-specified sources of truth → Add `<data>` with canonical excerpts; require citations.

- **Partial outputs** → No output contract or step numbering → Add schema + numbered steps; include a final “verify” step.
- **Policy violations** → Missing constraints or rationale → Front-load policies; add “why” and examples of compliant vs non-compliant.
- **Inconsistent style** → Prompt contains conflicting tone → Provide a Style Guide; remove contradictory examples.
- **Tool misuse** → No tool-selection guidance → Add a short tool policy and common mappings.

Minimal Repro Harness

```
<repro>
Task: <one-line>
Context: <smallest data excerpt>
Expected: <short, concrete>
</repro>
```

Run A/B with 2–3 prompt variants; keep the best parts.

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Evaluation Rubrics & Checklists

Rubric (score 1–5 each)

- **Accuracy** (facts & math)
- **Faithfulness** (uses provided context; no fabrication)
- **Completeness** (covers all requested items)
- **Clarity & Structure** (readable, well-tagged, extractable)
- **Safety & Compliance** (policy adherence, privacy)
- **Actionability** (next steps, owners, dates)
- **Efficiency** (latency/cost appropriate)

Ship-Ready Checklist

- Build/lint/type-check clean (if code)
- Output matches contract/schema exactly
- Tests or verifications run and pass
- Edge cases addressed; failure modes explained
- Config aligned across environments
- Security & privacy reviewed
- Docs updated; artifacts linked
- Temporary notes cleaned up

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Real-World Examples

Ready to use global guide/rules (~/.claude/CLAUDE.md)

I have been using this global guide/rule all the time:

<https://gist.githubusercontent.com/aashari/1c38e8c7766b5ba81c3a0d4d124a2f58/raw/b99a150bfc711c2d2ea6cddeb8b41f8231b33f72/00-core-prompt>

Example 1 — Senior Software Engineer Agent

System: You are a Staff-level Software Engineer with autonomy to read code, propose changes, and implement safe, incremental fixes.

<context>

- Source of truth order: runtime > code/config > logs > docs.
- Repo: <https://example.com/repo>
- Policy: no secrets in logs; PRs must include tests.

</context>

<instructions>

- 1) Map the execution path for <feature>.
- 2) Identify root causes for <symptom>.
- 3) Propose a minimal, testable change.
- 4) Implement behind a flag; update tests.
- 5) Produce PR text in <pr> tags; include risks and rollout plan.

</instructions>

<output_contract>

<pr>

- Summary

```
- Root cause
- Changes
- Tests
- Risks & rollback
- Migration/flags
</pr>
</output_contract>
```

Example 2 — Financial Analysis Agent

System: You are the CFO of a B2B SaaS company preparing a board update.

```
<data>
{{Q2_FINANCIALS_CSV}}
</data>
```

```
<instructions>
```

- Analyze revenue drivers, margin shifts, and runway.
- Weigh growth vs burn; propose actions with owners & dates.
- Keep the board narrative to 8 bullets, each with a number.

```
</instructions>
```

```
<output>
```

```
<presentation>
```

- Key insights (with figures)
- Red flags
- Recommendations (owner, ETA)

```
</presentation>
```

```
</output>
```

Example 3 — Multi-Agent Research Orchestrator

System: You coordinate specialized agents (code_search, web_research, data_analysis).

```
<research_approach>
```

- 1) Decompose the question into sub-questions.
- 2) Assign agents; run independent work in parallel.
- 3) Synthesize; highlight contradictions and confidence.
- 4) Propose follow-ups or experiments.

```
</research_approach>
```

Question: {{RESEARCH_QUESTION}}

Prompt Snippets (Copy/Paste)

1) Universal Task Skeleton

```
# Task

Goal: ...
Why: ...
Audience: ...
Constraints: ...
Deliverable: ...
Success: ...

# Data
<data>
...minimal, canonical excerpts...
</data>

# Instructions
<instructions>
1) ...
2) ...
3) ...
4) Output strictly in <format> tags.
</instructions>
```

2) Reasoning Scratchpad (Private by Default)

```
<thinking_instructions>
Use a private scratchpad to:
- plan steps & checks
- enumerate edge cases
- design quick validations
Only include a brief summary of reasoning in the final output unless explicitly
</thinking_instructions>
```

3) Style Guide (Professional)

```
<style>
- Concise, declarative sentences
- Active voice; no emojis
- Cite evidence when making claims
```

```
- Prefer lists over long paragraphs when enumerating
</style>
```

4) Tool Policy

```
<tool_policy>
- Prefer specialized tools (read/edit/write/grep/glob) over generic shell.
- Use absolute paths for file ops.
- Run independent tool calls in parallel; sequence dependent ones.
</tool_policy>
```

5) Quality Gate

```
<checks>
- build/lint/type-check clean
- tests pass; new tests added
- no secrets; logs redacted
- performance unchanged or improved
- docs updated
</checks>
```

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FAQ & Edge Cases

Q: Should I always show chain-of-thought?

A: No. Use private scratchpads to improve reasoning; expose summaries unless your UX explicitly benefits from showing detailed steps.

Q: How many examples are ideal?

A: Usually 1–3. Add more only for high-variance formats or policy-heavy tasks.

Q: How do I avoid context bloat?

A: Progressive disclosure: load skills as needed, trim with summaries, and stage data in `<data>` excerpts.

Q: Can I rely on documentation?

A: Treat docs as hints. Verify against code, configs, and runtime signals.

Q: What if user intent is ambiguous?

A: Default to a conservative summary + options; ask a targeted clarifying question.

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Glossary

- **Context Engineering:** Curating which tokens appear in the context window, in what structure, and at which step.
- **Scratchpad:** Private reasoning space; may be summarized in the final output.
- **Progressive Disclosure:** Loading guidance/data only when triggered by need.
- **Output Contract:** A machine-readable schema that downstream systems rely on.
- **Source-of-Truth Hierarchy:** Ordered list of where reality lives (runtime > code > logs > docs).

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Key Takeaways

1. Trust intelligence; provide clarity.
2. Engineer the context, not just the phrasing.
3. Show the WHY; avoid micromanaging the HOW.
4. Use tags, roles, and examples to reduce ambiguity.
5. Think when it helps; keep reasoning private by default; summarize for users.
6. Evaluate with rubrics; finish the whole task chain before shipping.

Claude Code

Prompting

Ai Agent

Artificial Intelligence



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