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# Claude Code V3 Guide

*LSP, CLAUDE.md, MCP, Skills & Hooks*

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## V3: BUILT ON COMMUNITY FEEDBACK (AGAIN)

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V2 hit #2 all-time on r/ClaudeAI. Your comments made V3 possible. Huge thanks to u/BlueVajra (commands/skills merge), u/stratofax (dotfiles sync), u/antoniocs (MCP tradeoffs), u/GeckoLogic (LSP), and everyone from V2: u/headset38, u/tulensrma, u/jcheroske.

### What's new in V3:

- **Part 8: LSP** – Claude now has IDE-level code intelligence (900x faster navigation)
  - **Commands & Skills merged** – Same schema, simpler mental model
  - **Expanded MCP directory** – 25+ recommended servers by category
  - **MCP tradeoffs** – When NOT to use MCP servers
  - **Dotfiles sync** – Keep ~/.claude consistent across machines
  - [GitHub repo](#) with templates, hooks, and skills
- 

**TL;DR:** Your global `~/ .claude/CLAUDE.md` is a security gatekeeper AND project blueprint. **LSP gives Claude semantic code understanding** – go-to-definition, find-references, diagnostics. MCP servers extend capabilities (but have tradeoffs). Commands and skills now share the same schema. **Hooks enforce rules deterministically** where CLAUDE.md can fail. And research shows mixing topics causes **39% performance degradation** – keep chats focused.

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## PART 1: THE GLOBAL CLAUDE.MD AS SECURITY GATEKEEPER

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### The Memory Hierarchy

Claude Code loads CLAUDE.md files in a specific order:

LEVEL	LOCATION	PURPOSE
Enterprise	/etc/claude-code/CLAUDE.md	Org-wide policies
Global User	~/.claude/CLAUDE.md	Your standards for ALL projects
Project	./CLAUDE.md	Team-shared project instructions
Project Local	./CLAUDE.local.md	Personal project overrides

Your global file applies to **every single project** you work on.

## What Belongs in Global

### 1. Identity & Authentication

```
### GitHub Account
**ALWAYS** use **YourUsername** for all projects:
- SSH: `git@github.com:YourUsername/<repo>.git`

### Docker Hub
Already authenticated. Username in `~/.env` as `DOCKER_HUB_USER`
```

**Why global?** You use the same accounts everywhere. Define once, inherit everywhere.

### 2. The Gatekeeper Rules

```
### NEVER EVER DO

These rules are ABSOLUTE:

### NEVER Publish Sensitive Data
- NEVER publish passwords, API keys, tokens to git/npm/docker
- Before ANY commit: verify no secrets included

### NEVER Commit .env Files
- NEVER commit `.env` to git
- ALWAYS verify `.env` is in `.gitignore`
```

## Why This Matters: Claude Reads Your .env

[Security researchers discovered](#) that Claude Code **automatically reads** `.env` files without explicit permission. [Backslash Security warns](#):

*"If not restricted, Claude can read `.env`, AWS credentials, or `secrets.json` and leak them through 'helpful suggestions.'"*

Your global CLAUDE.md creates a **behavioral gatekeeper** – even if Claude has access, it won't output secrets.

## Syncing Global CLAUDE.md Across Machines

*Thanks to u/stratofax for this tip.*

If you work on multiple computers, sync your `~/ .claude/` directory using a dotfiles manager:

```
# Using GNU Stow
cd ~/dotfiles
stow claude # Symlinks ~/.claude to dotfiles/claude/.claude
```

This gives you:

- Version control on your settings
- Consistent configuration everywhere
- Easy recovery if something breaks

## Defense in Depth

LAYER	WHAT	HOW
1	Behavioral rules	Global CLAUDE.md "NEVER" rules
2	Access control	Deny list in settings.json
3	Git safety	.gitignore

## Team Workflows: Evolving CLAUDE.md

[Boris Cherny shares how Anthropic's Claude Code team does it:](#)

*"Our team shares a single CLAUDE.md for the Claude Code repo. We check it into git, and the whole team contributes multiple times a week."*

**The pattern:** Mistakes become documentation.

Claude makes mistake → You fix it → You add rule to CLAUDE.md → Never happens again

Compounding Engineering

This embodies [Compounding Engineering](#):

*"Each unit of engineering work should make subsequent units easier."*

The 80/20 inversion: Spend 80% on planning and review, 20% on execution. Your CLAUDE.md becomes institutional knowledge that compounds over time.

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## PART 2: GLOBAL RULES FOR NEW PROJECT SCAFFOLDING

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Your global CLAUDE.md becomes a **project factory**. Every new project automatically inherits your standards.

**The Problem Without Scaffolding Rules**

[Research from project scaffolding experts:](#)

*"LLM-assisted development fails by silently expanding scope, degrading quality, and losing architectural intent."*

**The Solution**

### ### New Project Setup

When creating ANY new project:

#### ### Required Files

- `.env` – Environment variables (NEVER commit)
- `.env.example` – Template with placeholders
- `.gitignore` – Must include: .env, node\_modules/, dist/
- `CLAUDE.md` – Project overview

#### ### Required Structure

```
project/  
├─ src/  
├─ tests/  
├─ docs/  
├─ .claude/skills/  
└─ scripts/
```

#### ### Node.js Requirements

Add to entry point:

```
process.on('unhandledRejection', (reason, promise) => {  
  console.error('Unhandled Rejection:', reason);  
  process.exit(1);  
});
```

When you say "create a new Node.js project," Claude reads this and **automatically** creates the correct structure. Zero manual setup.

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## PART 3: MCP SERVERS – CLAUDE'S INTEGRATIONS

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[MCP \(Model Context Protocol\)](#) lets Claude interact with external tools.

### Adding MCP Servers

```
claude mcp add <server-name> -- <command>  
claude mcp list  
claude mcp remove <server-name>
```

### When NOT to Use MCP

*Thanks to u/antoniocs for this perspective.*

MCP servers consume tokens and context. For simple integrations, consider alternatives:

USE CASE	MCP OVERHEAD	ALTERNATIVE
Trello tasks	High	CLI tool ( <code>trello-cli</code> )
Simple HTTP calls	Overkill	<code>curl</code> via Bash
One-off queries	Wasteful	Direct command

**Rule of thumb:** If you're calling an MCP tool once per session, a CLI is more efficient. MCP shines for *repeated* tool use within conversations.

## Recommended MCP Servers for Developers

### Core Development

SERVER	PURPOSE	INSTALL
<b>Context7</b>	Live docs for any library	<code>claude mcp add context7 -- npx -y @upstash/context7-mcp@latest</code>
<b>GitHub</b>	PRs, issues, CI/CD	<code>claude mcp add github -- npx -y @modelcontextprotocol/server-github</code>
<b>Filesystem</b>	Advanced file operations	<code>claude mcp add filesystem -- npx -y @modelcontextprotocol/server-filesystem</code>
<b>Sequential Thinking</b>	Structured problem-solving	<code>claude mcp add sequential-thinking -- npx -y @modelcontextprotocol/server-sequential-thinking</code>

### Databases

SERVER	PURPOSE	INSTALL
<b>MongoDB</b>	Atlas/Community, Performance Advisor	<code>claude mcp add mongodb -- npx -y mongodb-mcp-server</code>
<b>PostgreSQL</b>	Query Postgres naturally	<code>claude mcp add postgres -- npx -y @modelcontextprotocol/server-postgres</code>
<b>DBHub</b>	Universal (MySQL, SQLite, etc.)	<code>claude mcp add db -- npx -y @bytebase/dbhub</code>

## Documents & RAG

SERVER	PURPOSE	INSTALL
<b>Docling</b>	PDF/DOCX parsing, 97.9% table accuracy	<code>claude mcp add docling -- uvx docling-mcp-server</code>
<b>Qdrant</b>	Vector search, semantic memory	<code>claude mcp add qdrant -- npx -y @qdrant/mcp-server</code>
<b>Chroma</b>	Embeddings, vector DB	<code>claude mcp add chroma -- npx -y @chroma/mcp-server</code>

## Browser & Testing

SERVER	PURPOSE	INSTALL
<b>Playwright</b>	E2E testing, scraping	<code>claude mcp add playwright -- npx -y @anthropic-ai/playwright-mcp</code>
<b>Browser MCP</b>	Use your logged-in Chrome	<a href="https://browsermcp.io">browsermcp.io</a>
<b>Brave Search</b>	Privacy-first web search	<code>claude mcp add brave -- npx -y @anthropic-ai/brave-search-mcp</code>

## Cloud & Hosting

SERVER	PURPOSE	INSTALL
<b>AWS</b>	Full AWS service access	<code>claude mcp add aws -- uvx awslabs.aws-api-mcp-server@latest</code>
<b>Cloudflare</b>	Workers, KV, R2	<code>claude mcp add cloudflare -- npx -y @cloudflare/mcp-server</code>
<b>Hostinger</b>	Domains, DNS, VMs, billing	<code>npm i -g hostinger-api-mcp</code> then configure
<b>Kubectl</b>	Kubernetes natural language	<code>claude mcp add kubectl -- npx -y @modelcontextprotocol/server-kubernetes</code>

## Workflow & Communication

SERVER	PURPOSE	INSTALL
<b>Slack</b>	Messages, channel summaries	<code>claude mcp add slack -- npx -y @anthropic-ai/slack-mcp</code>
<b>Linear</b>	Issue tracking	<code>claude mcp add linear -- npx -y @linear/mcp-server</code>
<b>Figma</b>	Design specs, components	<code>claude mcp add figma -- npx -y @anthropic-ai/figma-mcp</code>

## Discovery

Find more servers:

- [awesome-mcp-servers](#) – 76k+ stars, hundreds of servers
- [mcpservers.org](#) – Searchable directory
- [Claude Market](#) – Curated marketplace

## PART 4: CONTEXT7 – LIVE DOCUMENTATION

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Context7 gives Claude access to **up-to-date documentation**.

### The Problem

Claude's training has a cutoff. Ask about a library released after training → outdated answers.

### The Solution

```
You: "Using context7, show me the Next.js 15 cache API"  
Claude: *fetches current docs* → accurate, up-to-date code
```

### Installation

```
claude mcp add context7 -- npx -y @upstash/context7-mcp@latest
```

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## PART 5: SKILLS (COMMANDS ARE NOW SKILLS)

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*Thanks to u/BlueVajra for the correction.*

**Update:** As of late 2025, **commands and skills have been merged**. They now share the same schema.

*"Merged slash commands and skills, simplifying the mental model with no change in behavior." – Claude Code Changelog*

### The New Structure

OLD LOCATION	NEW LOCATION
<code>~/ .claude/commands/review.md</code>	<code>~/ .claude/skills/review/SKILL.md</code>

## Key Difference

- **Slash commands** ( /review ) – You explicitly invoke them
- **Skills** – Claude can trigger automatically based on context

Both use the same SKILL.md format:

```
---
name: review
description: Review code for bugs and security issues
---

# Code Review Skill

When reviewing code:
1. Check for security vulnerabilities
2. Look for performance issues
3. Verify error handling
```

## Progressive Disclosure

Skills use **progressive disclosure** for token efficiency:

1. **Startup**: Only name/description loaded
2. **Triggered**: Full SKILL.md content loaded
3. **As needed**: Additional resources loaded

**Rule of thumb**: If instructions apply to <20% of conversations, make it a skill instead of putting it in CLAUDE.md.

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## PART 6: WHY SINGLE-PURPOSE CHATS ARE CRITICAL

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**Research consistently shows mixing topics destroys accuracy.**

Studies on multi-turn conversations:

*"An average 39% performance drop when instructions are delivered across multiple turns."*

## Chroma Research on context rot:

*"As tokens in the context window increase, the model's ability to accurately recall information decreases."*

## The Golden Rule

*"One Task, One Chat"*

SCENARIO	ACTION
New feature	New chat
Bug fix (unrelated)	<code>/clear</code> then new task
Research vs implementation	Separate chats
20+ turns elapsed	Start fresh

## Use `/clear` Liberally

```
/clear
```

## Anthropic recommends:

*"Use `/clear` frequently between tasks to reset the context window."*

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## PART 7: HOOKS – DETERMINISTIC ENFORCEMENT

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*This section added based on V2 feedback from u/headset38 and u/tulensrma.*

CLAUDE.md rules are **suggestions** Claude can ignore under context pressure. Hooks are **deterministic** – they always run.

## The Critical Difference

MECHANISM	TYPE	RELIABILITY
CLAUDE.md rules	Suggestion	Can be overridden
<b>Hooks</b>	<b>Enforcement</b>	Always executes

## Hook Events

EVENT	WHEN	USE CASE
PreToolUse	Before tool executes	Block dangerous ops
PostToolUse	After tool completes	Run linters
Stop	Claude finishes turn	Quality gates

## Example: Block Secrets Access

Add to `~/.claude/settings.json`:

```
{
  "hooks": {
    "PreToolUse": [
      {
        "matcher": "Read|Edit|Write",
        "hooks": [{
          "type": "command",
          "command": "python3 ~/.claude/hooks/block-secrets.py"
        }]
      }
    ]
  }
}
```

The hook script:

```
#!/usr/bin/env python3
import json, sys
from pathlib import Path

SENSITIVE = {'.env', '.env.local', 'secrets.json', 'id_rsa'}

data = json.load(sys.stdin)
file_path = data.get('tool_input', {}).get('file_path', '')

if Path(file_path).name in SENSITIVE:
    print(f"BLOCKED: Access to {file_path} denied.", file=sys.stderr)
    sys.exit(2) # Exit 2 = block and feed stderr to Claude

sys.exit(0)
```

## Hook Exit Codes

CODE	MEANING
0	Allow operation
1	Error (shown to user)
<b>2</b>	<b>Block operation, tell Claude why</b>

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## PART 8: LSP – IDE-LEVEL CODE INTELLIGENCE

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*Thanks to u/GeckoLogic for highlighting this.*

**New in December 2025** (v2.0.74), Claude Code gained native Language Server Protocol support. This is a game-changer.

### What LSP Enables

LSP gives Claude the same code understanding your IDE has:

CAPABILITY	WHAT IT DOES
<b>Go to Definition</b>	Jump to where any symbol is defined
<b>Find References</b>	See everywhere a function is used
<b>Hover</b>	Get type signatures and docs
<b>Diagnostics</b>	Real-time error detection
<b>Document Symbols</b>	List all symbols in a file

## Why This Matters

Before LSP, Claude used **text-based search** (grep, ripgrep) to understand code. Slow and imprecise.

With LSP, Claude has **semantic understanding** – it knows that `getUserById` in file A calls the function defined in file B, not just that the text matches.

**Performance:** 900x faster (50ms vs 45 seconds for cross-codebase navigation)

## Supported Languages

Python, TypeScript, Go, Rust, Java, C/C++, C#, PHP, Kotlin, Ruby, HTML/CSS

## Setup

LSP is built-in as of v2.0.74. For older versions:

```
export ENABLE_LSP_TOOL=1
```

## What This Means for You

Claude can now:

- Navigate massive codebases instantly
- Find all usages before refactoring
- Catch type errors in real-time
- Understand code structure semantically

This shifts AI coding from **text manipulation** to **semantic understanding**.

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## QUICK REFERENCE

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TOOL	PURPOSE	LOCATION
Global CLAUDE.md	Security + Scaffolding	<code>~/ .claude/CLAUDE.md</code>
Project CLAUDE.md	Architecture + Team rules	<code>./CLAUDE.md</code>
MCP Servers	External integrations	<code>claude mcp add</code>
Context7	Live documentation	MCP server
<b>Skills</b>	<b>Reusable expertise</b>	<code>.claude/skills/*/SKILL.md</code>
<b>Hooks</b>	<b>Deterministic enforcement</b>	<code>~/ .claude/settings.json</code>
<b>LSP</b>	<b>Semantic code intelligence</b>	Built-in (v2.0.74+)
<code>/clear</code>	Reset context	Type in chat

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## GITHUB REPO

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All templates, hooks, and skills:

[github.com/TheDecipherist/claude-code-mastery](https://github.com/TheDecipherist/claude-code-mastery)

- CLAUDE.md templates (global + project)
- Ready-to-use hooks (block-secrets.py, etc.)
- Example skills
- settings.json pre-configured

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## SOURCES

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- [Claude Code Best Practices](#) – Anthropic
  - [Effective Context Engineering](#) – Anthropic
  - [Model Context Protocol](#) – Anthropic
  - [Agent Skills](#) – Anthropic
  - [Claude Code LSP Setup](#) – AI Free API
  - [Claude Code December 2025 Update](#) – Geeky Gadgets
  - [MongoDB MCP Server](#) – MongoDB
  - [Hostinger MCP Server](#) – Hostinger
  - [Docling MCP](#) – IBM Research
  - [awesome-mcp-servers](#) – GitHub
  - [Context Rot Research](#) – Chroma
  - [LLMs Get Lost In Multi-Turn](#) – arXiv
  - [Claude Code Hooks Guardrails](#) – Paddo.dev
  - [Claude loads secrets without permission](#) – Knostic
  - [Compound Engineering](#) – Every
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*What's in your setup? Drop your hooks, skills, and MCP configs below.*