CLAUDE CODE ULTIMATE GUIDE

Claude Code Cheatsheet

Daily essentials for maximum productivity

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v3.27.4

CLAUDE CODE

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1 How to Install

```
npm install -g @anthropic-ai/claude-code
# Verify installation
which claude && claude --version
```

Health Check: `claude doctor && claude mcp list`

2 Essential Commands

Command	Action
`/help`	Contextual help
`/clear`	Reset conversation
`/compact`	Free up context
`/status`	Session state + context usage
`/context`	Detailed token breakdown
`/plan`	Enter Plan Mode (no changes)
`/execute`	Exit Plan Mode (apply changes)
`/model`	Switch model (sonnet/opus/opusplan)
`/insights`	Usage analytics + optimization
`/teleport`	Teleport session from web
`/tasks`	Monitor background tasks

Command	Action
`/fast`	Toggle fast mode (2.5x speed, 6x cost)
`/debug`	Systematic troubleshooting
`/remote-env`	Configure cloud environment
`/exit`	Quit (or Ctrl+D)

3 Keyboard Shortcuts

Shortcut	Action
`Shift+Tab`	Cycle permission modes
`Esc × 2`	Rewind (undo)
`Ctrl+C`	Interrupt
`Ctrl+R`	Search command history
`Ctrl+L`	Clear screen (keeps context)
`Ctrl+B`	Background tasks
`Alt+T`	Toggle thinking on/off
`Tab`	Autocomplete
`Shift+Enter`	New line
`Ctrl+D`	Exit

IDE Shortcuts: VS Code `Alt+K` | JetBrains `Cmd+Option+K`

4 File References

```
@path/to/file.ts     → Reference a file
@agent-name          → Call an agent
!shell-command       → Run shell command
```

5 Features Méconnues (But Official!)

Feature	Since	What It Does
Tasks API	v2.1.16	Persistent task lists with dependencies
Background Agents	v2.0.60	Sub-agents work while you code
Agent Teams	v2.1.32	Multi-agent coordination (TeamCreate/SendMessage)
Auto-Memories	v2.1.32	Automatic cross-session context capture
Session Forking	v2.1.19	Rewind + create parallel timeline
LSP Tool	v2.0.74	Code intelligence (go-to-def, refs)
Rules Templates	v3.27.4	4 ready-to-use `.claude/rules/` templates (arch/quality/test/perf)
/review-plan	v3.27.4	Structured plan review across 4 axes before coding

Pro tip: These aren't "secrets"—they're in the CHANGELOG. Read it!

6 Permission Modes

Mode	Editing	Execution
Default	Asks	Asks
Auto-accept	Auto	Asks
Plan Mode	None	None

Shift+Tab to switch modes

7 Memory & Settings (2 levels)

Level	Path	Scope	Git
Project	`.claude/`	Team	Yes
Personal	`~/.claude/`	You (all projects)	No

Priority: Project overrides Personal

7.1 .claude/ Folder Structure

```
.claude/
├── CLAUDE.md           # Local memory (gitignored)
├── settings.json       # Hooks (committed)
├── settings.local.json # Permissions (not committed)
├── agents/             # Custom agents
├── commands/           # Slash commands
├── hooks/              # Event scripts
├── rules/              # Auto-loaded rules (v3.26+)
│   ├── architecture-review.md  # ← templates ready in examples/rules/
│   ├── code-quality-review.md
│   ├── test-review.md
│   └── performance-review.md
└── skills/             # Knowledge modules
```

8 Context Management (CRITICAL)

Statusline: `Model: Sonnet | Ctx: 89.5k | Ctx(u): 56.0%`

✅ 0-50%	⚠️ 50-70%	🔶 70-90%	🚨 90%+

Watch `Ctx(u):` → >70% = `/compact`, >85% = `/clear`

Sign	Action
Short responses	`/compact`
Frequent forgetting	`/clear`
>70% context	`/compact`
Task complete	`/clear`

8.1 Context Recovery Commands

Command	Usage
`/compact`	Summarize and free context
`/clear`	Fresh start
`/rewind`	Undo recent changes
`claude -c`	Resume last session
`claude -r <id>`	Resume specific session

9 Plan Mode & Thinking

Feature	Activation	Usage
Plan Mode	`Shift+Tab × 2` or `/plan`	Explore without modifying
OpusPlan	`/model opusplan`	Opus for planning, Sonnet for execution

Opus 4.6: Thinking is ON by default at max budget. Keywords like “ultrathink” are cosmetic only.

Control	Action	Persistence
Alt+T	Toggle thinking on/off	Session
/config	Enable/disable globally	Permanent
`effort` **param**	API only: low/medium/high/max	Per-request

Cost tip: For simple tasks, Alt+T to disable thinking → faster & cheaper.

10 Typical Workflow

```
1. Start session      → claude
2. Check context      → /status
3. Plan Mode          → Shift+Tab × 2 (for complex tasks)
4. Describe task      → Clear, specific prompt
5. Review changes     → Always read the diff!
6. Accept/Reject      → y/n
7. Verify             → Run tests
8. Commit             → When task complete
9. /compact           → When context >70%
```

11 Quick Prompting Formula

```
WHAT: [Concrete deliverable]
WHERE: [File paths]
HOW: [Constraints, approach]
VERIFY: [Success criteria]
```

Example:

```
Add input validation to the login form.
WHERE: src/components/LoginForm.tsx
HOW: Use Zod schema, show inline errors
VERIFY: Empty email shows error, invalid format shows error
```

12 MCP Servers

Server	Purpose
Serena	Indexation + session memory + symbol search
grepai	Semantic search + call graph analysis
Context7	Library documentation
Sequential	Structured reasoning
Playwright	Browser automation
Postgres	Database queries
doobidoo	Semantic memory + Knowledge Graph

Serena memory: `write_memory()` / `read_memory()` / `list_memories()`

Check status: `/mcp`

13 CLI Flags Quick Reference

Flag	Usage
`-p "query"`	Non-interactive mode (CI/CD)

Flag	Usage
`-c` / `--continue`	Continue last session
`-r` / `--resume <id>`	Resume specific session
`--teleport`	Teleport session from web
`--model sonnet`	Change model
`--add-dir ../lib`	Allow access outside CWD
`--permission-mode plan`	Plan mode
`--dangerously-skip-permissions`	Auto-accept (use carefully)
`--mcp-debug`	Debug MCP servers
`--allowedTools "Edit,Read"`	Whitelist tools
`--debug`	Debug output

14 Anti-patterns

❌ Don't

- Vague prompts
- Accept without reading
- Ignore warnings
- Skip permissions
- Negative constraints only

✅ Do

- Specify file + line with @references
- Read every diff
- Use /compact at 70%
- Never in production
- Provide alternatives

15 Cost Optimization

Model	Use For	Cost
Haiku	Simple fixes, reviews	$
Sonnet	Most development	$$
Opus	Architecture, complex bugs	$$$
OpusPlan	Plan (Opus) + Execute (Sonnet)	$$

16 Quick Decision Tree

```
Simple task       → Just ask Claude
Complex task      → Tasks API to plan first
Risky change      → Plan Mode first
Repeating task    → Create agent or command
Context full      → /compact or /clear
Need docs         → Use Context7 MCP
Deep analysis     → Use Opus (thinking on by default)
```

The Golden Rules

1. Always review diffs before accepting
2. Use /compact before context gets critical (>70%)
3. Be specific in requests (WHAT, WHERE, HOW, VERIFY)
4. Plan Mode first for complex/risky tasks
5. Create CLAUDE.md for every project

6. Commit frequently after each completed task
7. Know what's sent — prompts, files, MCP results → Anthropic

17 Common Issues Quick Fix

Problem	Solution
“Command not found”	Check PATH, reinstall npm global
Context too high (>70%)	`/compact` immediately
Slow responses	`/compact` or `/clear`
MCP not working	`claude mcp list`, check config
Permission denied	Check `settings.local.json`
Hook blocking	Check hook exit code, review logic

Health Check: `which claude && claude doctor && claude mcp list`

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