

OpenCode CLI Cheat Sheet

Copy/paste-friendly command reference distilled from ComputingForGeeks. Source page updated May 3, 2026; command surface may change with future OpenCode releases.

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1. Copy/paste notes

This is a command-focused reference distilled from the ComputingForGeeks OpenCode CLI cheat sheet. It intentionally removes ads, navigation, comments, and most explanatory prose.

Replace placeholder values such as <url>, <name>, <path>, <provider>, <sessionID>, sk-..., ghp_..., and /repo before running commands. Lines ending with a backslash are meant to be pasted as multi-line shell commands.

2. Quick install and version check

```
sudo npm install -g opencode-ai
opencode --version
```

```
# Check for AVX support if Bun crashes in a VM
grep -m1 -oE 'avx[0-9a-z]*' /proc/cpuinfo
```

3. Top-level command map

opencode [project]	# Launch TUI in project directory
opencode run [message..]	# One-shot headless invocation
opencode serve	# Headless HTTP API server
opencode web	# Server plus web UI
opencode attach <url>	# Attach TUI to running server
opencode acp	# Agent Client Protocol over stdio
opencode auth	# Manage providers and credentials
opencode providers	# Alias for auth
opencode models [provider]	# List models
opencode mcp	# Manage MCP servers
opencode agent	# Manage agents
opencode session	# List/delete sessions
opencode export [sessionID]	# Export session JSON
opencode import <file-or-share-url>	# Import session
opencode stats	# Token and cost statistics
opencode github	# GitHub agent workflows
opencode pr <number>	# Fetch PR branch and run OpenCode
opencode plugin <module>	# Install plugin
opencode plug <module>	# Alias for plugin
opencode debug	# Debug utilities
opencode db	# Database tools
opencode upgrade [target]	# Upgrade OpenCode
opencode uninstall	# Uninstall OpenCode
opencode completion	# Print shell completion script

4. State, config, cache, and logs

```
opencode debug paths
```

```
# Common locations shown by opencode debug paths
~/.config/opencode/opencode.json    # Main user config
~/.local/share/opencode/            # Data, auth, SQLite stores
~/.cache/opencode/                  # Cache and downloaded binaries
~/.local/state/opencode/            # Per-project run history/snapshots
~/.local/share/opencode/log/        # Logs
```

5. Authentication and provider keys

```
# Interactive login picker
opencode auth login
```

```
# Pre-select provider
opencode auth login --provider anthropic
```

```
# Pre-select provider and auth method
opencode auth login --provider openai --method api-key
```

```
# OAuth-style/self-hosted auth flow
opencode auth login https://auth.example.internal

# Inspect configured providers
opencode auth list
opencode auth ls

# Remove credentials
opencode auth logout

# Keys via environment variables
export ANTHROPIC_API_KEY="sk-ant-api03-..."
export OPENAI_API_KEY="sk-proj-..."
export GEMINI_API_KEY="aiza..."
export OPENROUTER_API_KEY="sk-or-..."

# Server attach-mode auth
export OPENCODE_SERVER_PASSWORD="..."
export OPENCODE_SERVER_USERNAME="opencode"
```

6. Models

```
# List all models from configured providers
opencode models

# Filter by provider
opencode models anthropic
opencode models openai
opencode models google
opencode models opencode

# Refresh cached model list
opencode models --refresh

# Verbose metadata: context length, costs, capabilities
opencode models anthropic --verbose
opencode models anthropic --refresh

# Pick a model at launch
opencode -m anthropic/claude-sonnet-4-6
opencode -m openai/gpt-5
opencode -m google/gemini-2.5-pro
opencode -m opencode/big-pickle
```

7. Global flags

-m, --model <provider/model>	Choose model
--variant <level>	Provider reasoning effort: high/max/minimal
--thinking	Show thinking blocks in TUI
-c, --continue	Continue last session
-s, --session <sessionID>	Continue specific session
--fork	Fork when continuing
--prompt <text>	Seed initial prompt
--agent <name>	Launch with named agent
--share	Make session shareable
-f, --file <path>	Attach file to initial prompt; repeatable
--title <text>	New session title
--attach <url>	Attach to remote OpenCode server
-p, --password <password>	Server basic-auth password
--dir <path>	Working directory
--port <port>	Local server port
--hostname <host>	Bind host, default 127.0.0.1
--mdns	Enable mDNS discovery, hostname 0.0.0.0
--mdns-domain <domain>	Custom mDNS domain
--cors <domain>	Add CORS-allowed domain
--format default json	Output format
--dangerously-skip-permissions	Auto-approve permissions; disposable VMs only
--pure	Run without external plugins
--print-logs	Echo logs to stderr
--log-level DEBUG INFO WARN ERROR	Set log level
-v, --version	Print version

8. Headless run and JSON events

```
# One-shot
opencode run "review the latest commit for security issues" --dir /repo

# Pick a model and variant
opencode run --model anthropic/claude-sonnet-4-6 --variant max \
  "refactor src/auth"

# Continue previous session
opencode run "now write tests for the function you added" --continue

# Resume specific session by ID
opencode run "explain the diff in src/api.ts" \
  --session ses_2132323b6ffeuRlyHhPcU8DaZ6

# Attach to a long-running server
opencode run "deploy to staging" \
  --attach http://server:4096 \
  -p "$OPENCODE_SERVER_PASSWORD"

# Fully unattended; disposable VM only
opencode run "rebase onto main and resolve trivial conflicts" \
  --dangerously-skip-permissions \
  --dir /repo

# JSON event stream
opencode run --model anthropic/claude-haiku-4-5 \
  'What does this fibonacci function do? Reply in one sentence.' \
  --dir /root/oc-demo \
  --format json

# Print only assistant text replies
opencode run "summarise this repo" --format json | \
  jq -r 'select(.type=="text") | .part.text'

# Print final cost and token count
opencode run "fix the failing test" --format json | \
  jq 'select(.type=="step_finish") | .part'
```

9. Server, web UI, attach mode, and ACP

```
# Headless server on fixed port and LAN bind
opencode serve --port 4096 --hostname 0.0.0.0

# Browser UI on local server
opencode web --port 4096

# Attach a TUI from another machine
opencode attach http://10.0.1.10:4096 --password "$PW"

# mDNS autodiscovery on a homelab
opencode serve --mdns --mdns-domain ai.lab.local
opencode attach http://laptop.ai.lab.local:4096

# Plain ACP over stdio
opencode acp

# ACP with explicit cwd and HTTP fallback
opencode acp --cwd /repo --port 4096 --hostname 127.0.0.1
```

10. TUI keyboard shortcuts

```
# Default leader key: Ctrl+x

# Application control
Ctrl+C / Ctrl+D / <leader>q      Quit
Ctrl+P                          Command palette
<leader>t                        Toggle theme
```

<leader>b	Toggle sidebar
<leader>s	Show status
<leader>h	Toggle tips / code-block visibility
<leader>e	External editor
Ctrl+Z	Suspend
Escape	Interrupt running tool call

# Sessions	
<leader>n	New session
<leader>l	List sessions
<leader>g	Session history
<leader>x	Export session
<leader>c	Compact context
<leader>Right	Next child session
<leader>Left	Previous child session
<leader>Up	Parent session

# Message navigation	
Ctrl+G / Home	Scroll to top
Ctrl+Alt+G / End	Scroll to bottom
PageUp / PageDown	Page up/down
Ctrl+Alt+U / Ctrl+Alt+D	Half-page up/down
<leader>y	Copy last message
<leader>u	Undo last action
<leader>r	Redo

# Models, agents, modes	
<leader>m	Model picker
F2	Next recent model
Shift+F2	Previous recent model
<leader>a	Agent picker
Tab / Shift+Tab	Cycle agent options
Tab in input	Toggle plan mode

# Input field	
Enter	Submit
Shift+Enter / Ctrl+Enter / Alt+Enter	New input line
Ctrl+B / Ctrl+F	Move by character
Ctrl+A / Ctrl+E	Start/end of line
Shift+Arrows	Extend selection
Ctrl+C	Clear input
Ctrl+V	Paste


```
# Keybind customization example
{
  "$schema": "https://opencode.ai/config.json",
  "keybinds": {
    "leader": "ctrl+x",
    "messages_last": "ctrl+alt+g,end",
    "messages_first": "ctrl+g,home",
    "session_new": "<leader>n",
    "model_cycle_recent": "f2",
    "agent_picker": "<leader>a"
  }
}
```

11. Slash commands and @ file attach

```
/init      # Generate AGENTS.md for current repo
/help      # Show commands and keybind reference
/share     # Generate public URL for current session transcript
/undo      # Revert agent's last action
/redo      # Re-apply last undone action
/connect   # Re-authenticate or switch provider
/<custom>  # User-defined command from command directories

# In the TUI input: fuzzy file picker and multi-file references
@src/auth.ts review this for SQL injection
@src/auth.ts @tests/auth_test.ts find shared validation logic
@docs/api-spec.md follow this spec when refactoring src/api/*
```

12. Custom slash commands

```
# Save as: .opencode/commands/test.md
---
description: Run the test suite and fix failures
agent: build
model: anthropic/claude-sonnet-4-6
subtask: false
---

Run the project test suite, identify any failures, and fix them.

Test command output:
!`npm test`

Recent test files:
@tests/

Focus on: $ARGUMENTS

# Invoke inside the TUI
/test src/auth/

# Supported placeholders in custom command templates
$ARGUMENTS
$1
$2
$3
!`shell command`
@path/to/file
@dir/
```

13. Agents, modes, skills, and plan mode

```
# Create a custom agent
opencode agent create \
  --description "review terraform plans for safety" \
  --mode primary \
  --permissions "bash,read,grep,glob,webfetch,task" \
  --model anthropic/claude-sonnet-4-6 \
  --path .opencode/agents/tf-reviewer.md

# Common permission strings
bash, read, edit, glob, grep, webfetch, task, todowrite, websearch, lsp, skill

# Agent modes
all, primary, subagent

# Launch in read-only exploration/plan style
opencode --agent explore
export OPENCODE_EXPERIMENTAL_PLAN_MODE=1
```

14. Permissions

```
# Inspect default build agent permissions
opencode debug agent build | head -20

# opencode.json permission guardrail example
{
  "permission": [
    { "permission": "bash", "pattern": "rm -rf *", "action": "deny" },
    { "permission": "bash", "pattern": "git push --force *", "action": "deny" },
    { "permission": "bash", "pattern": "sudo *", "action": "deny" },
    { "permission": "bash", "pattern": "git push *", "action": "ask" },
    { "permission": "bash", "pattern": "linear *", "action": "deny" },
    { "permission": "read", "pattern": "**.env", "action": "ask" },
    { "permission": "read", "pattern": "**.env.example", "action": "allow" },
    { "permission": "read", "pattern": "**.env.*", "action": "ask" },
    { "permission": "**", "pattern": "**", "action": "allow" }
  ]
}
```

15. AGENTS.md and Claude/Gemini interop

```
# In the TUI, generate project memory
/init

# Disable Claude Code interop pieces
OPENCODE_DISABLE_CLAUDE_CODE=1
OPENCODE_DISABLE_CLAUDE_CODE_PROMPT=1
OPENCODE_DISABLE_CLAUDE_CODE_SKILLS=1
```

16. MCP servers

```
# MCP help/commands
opencode mcp --help
opencode mcp add
opencode mcp list
opencode mcp ls
opencode mcp auth <name>
opencode mcp auth list
opencode mcp logout <name>
opencode mcp debug <name>

# Filesystem MCP, scoped path
opencode mcp add filesystem npx -y \
  @modelcontextprotocol/server-filesystem /home/user/projects

# GitHub MCP
GITHUB_TOKEN=ghp_... opencode mcp add github npx -y \
  @modelcontextprotocol/server-github

# Postgres MCP
opencode mcp add postgres npx -y \
  @modelcontextprotocol/server-postgres \
  "postgresql://user:pass@host:5432/db"

# Context7 MCP for live library docs
opencode mcp add context7 npx -y @upstash/context7-mcp@latest

# MCP section in opencode.json
{
  "mcp": {
    "github": {
      "type": "local",
      "command": ["npx", "-y", "@modelcontextprotocol/server-github"],
      "environment": { "GITHUB_TOKEN": "{env:GITHUB_TOKEN}" }
    },
    "postgres": {
      "type": "local",
      "command": [
        "npx", "-y", "@modelcontextprotocol/server-postgres",
        "postgresql://{env:PG_USER}:{env:PG_PASS}@db.lab.local/app"
      ]
    },
    "remote-mcp": {
      "type": "remote",
      "url": "https://mcp.example.com",
      "headers": { "Authorization": "Bearer {env:MCP_TOKEN}" }
    }
  }
}
```

17. Sessions: list, delete, fork, share, export, import

```
# Help
opencode session list --help

# Recent sessions table
opencode session list -n 10
```

```
# JSON for scripting
opencode session list --max-count 50 --format json | jq '[][.id]'

# Delete by ID
opencode session delete ses_2132323b6ffeuRlyHhPcU8DaZ6

# Continue most recent
opencode -c

# Continue specific session
opencode -s ses_2132323b6ffeuRlyHhPcU8DaZ6

# Fork before continuing
opencode -c --fork

# Generate a shareable URL
opencode --share -m anthropic/claude-sonnet-4-6 \
  --prompt "explain auth flow"

# Full export with raw transcript
opencode export ses_2132323b6ffeuRlyHhPcU8DaZ6 > session.json

# Sanitized export
opencode export ses_2132323b6ffeuRlyHhPcU8DaZ6 \
  --sanitize > session-redacted.json

# Re-import
opencode import session.json
opencode import https://opncd.ai/s/abc123
```

18. Stats, GitHub agent, PRs, and plugins

```
# Stats
opencode stats --days 7
opencode stats --days 30 --models
opencode stats --tools 10
opencode stats --project <project-slug>

# GitHub agent and PR workflows
opencode github install
opencode github run
opencode github run --event issue_comment --token $GH_PAT
opencode pr 1234

# Plugins
opencode plugin some-opencode-plugin
opencode plugin some-opencode-plugin --global
opencode plugin some-opencode-plugin --force
opencode plug some-opencode-plugin

# Disable plugins for one invocation
opencode --pure
```

19. Debugging utilities

```
opencode debug paths      # Data/config/cache/state directories
opencode debug config     # Resolved config
opencode debug startup    # Startup timing in ms
opencode debug skill      # Discovered skills
opencode debug agent <name> # Agent configuration
opencode debug lsp        # LSP bridge inspection
opencode debug rg         # Bundled ripgrep check
opencode debug file       # File-system bridge sanity check
opencode debug snapshot   # Session snapshots
opencode debug scrap      # Projects OpenCode has run in
opencode debug wait       # Wait indefinitely for protocol probing

# Real-output style examples
opencode debug startup
opencode debug skill
opencode debug config
opencode debug scrap
```


20. opencode.json reference starter

```
{
  "$schema": "https://opencode.ai/config.json",
  "model": "anthropic/claude-sonnet-4-6",
  "small_model": "anthropic/claude-haiku-4-5",
  "share": "manual",
  "autosshare": false,
  "theme": "system",
  "username": "yourname",

  "keybinds": {
    "leader": "ctrl+x",
    "session_new": "<leader>n",
    "model_cycle_recent": "f2"
  },

  "experimental": { "hooks": true, "plan_mode": true },

  "plugin": [
    "@opencode-ai/plugin-prettier",
    "./plugins/local-plugin.js"
  ],

  "agent": {
    "tf-reviewer": {
      "description": "Read-only Terraform plan reviewer",
      "mode": "primary",
      "model": "anthropic/claude-sonnet-4-6",
      "tools": { "edit": false, "bash": false, "read": true, "grep": true }
    }
  },

  "mode": {
    "review": {
      "tools": { "edit": false, "bash": false }
    }
  },

  "command": {
    "test": { "template": "Run tests and fix failures: $ARGUMENTS" }
  },

  "mcp": {
    "context7": {
      "type": "local",
      "command": ["npx", "-y", "@upstash/context7-mcp@latest"]
    }
  },

  "permission": [
    { "permission": "bash", "pattern": "rm -rf **", "action": "deny" },
    { "permission": "bash", "pattern": "git push **", "action": "ask" },
    { "permission": "**", "pattern": "**", "action": "allow" }
  ],

  "lsp": {
    "typescript": { "command": ["typescript-language-server", "--stdio"] }
  },

  "formatter": {
    "*.py": "ruff format -",
    ".*{ts,tsx,js,jsx}": "prettier --stdin-filepath {file}"
  }
}
```

21. Inline config, alternate config, and environment variables

```
# Inline config for containers/CI
export OPENCODE_CONFIG_CONTENT='{ "model": "anthropic/claude-sonnet-4-6", "permission": [...] }'
opencode run "fix the failing tests"
```

```

# Alternative config path/directory
export OPENCODE_CONFIG=/etc/opencode/prod.json
export OPENCODE_CONFIG_DIR=/etc/opencode

# Core env vars
OPENCODE_CONFIG
OPENCODE_CONFIG_DIR
OPENCODE_CONFIG_CONTENT
OPENCODE_TUI_CONFIG
OPENCODE_PERMISSION
OPENCODE_AUTO_SHARE
OPENCODE_DISABLE_AUTOUPDATE
OPENCODE_DISABLE_AUTOCOMPACT
OPENCODE_DISABLE_MOUSE
OPENCODE_DISABLE_LSP_DOWNLOAD
OPENCODE_DISABLE_DEFAULT_PLUGINS
OPENCODE_DISABLE_MODELS_FETCH
OPENCODE_ENABLE_EXA
OPENCODE_ENABLE_EXPERIMENTAL_MODELS
OPENCODE_MODELS_URL

# Server/auth
OPENCODE_SERVER_PASSWORD
OPENCODE_SERVER_USERNAME
OPENCODE_GIT_BASH_PATH

# Claude/Gemini interop
OPENCODE_DISABLE_CLAUDE_CODE
OPENCODE_DISABLE_CLAUDE_CODE_PROMPT
OPENCODE_DISABLE_CLAUDE_CODE_SKILLS

# Experimental
OPENCODE_EXPERIMENTAL=1
OPENCODE_EXPERIMENTAL_PLAN_MODE
OPENCODE_EXPERIMENTAL_FILEWATCHER
OPENCODE_EXPERIMENTAL_DISABLE_FILEWATCHER
OPENCODE_EXPERIMENTAL_LSP_TOOL
OPENCODE_EXPERIMENTAL_LSP_TY
OPENCODE_EXPERIMENTAL_OXFMT
OPENCODE_EXPERIMENTAL_MARKDOWN
OPENCODE_EXPERIMENTAL_ICON_DISCOVERY
OPENCODE_EXPERIMENTAL_OUTPUT_TOKEN_MAX
OPENCODE_EXPERIMENTAL_BASH_DEFAULT_TIMEOUT_MS
OPENCODE_EXPERIMENTAL_DISABLE_COPY_ON_SELECT
OPENCODE_EXPERIMENTAL_EXA

```

22. Themes and Oh-My-OpenAgent

```

# Theme values in opencode.json
{ "theme": "system" }
{ "theme": "dark" }
{ "theme": "light" }
{ "theme": "tokyo-night" }
{ "theme": "catppuccin" }

# Custom themes location
~/.config/opencode/themes/<name>.json

# Oh-My-OpenAgent / omoa commands
omoa list
omoa install <name>
omoa update
omoa search <term>

# Installed bundles commonly land here
~/.config/opencode/agents/
~/.config/opencode/skills/

```

23. Upgrade, uninstall, and common fixes

```

# Upgrade to latest using same install method
opencode upgrade

```

```

# Pin specific version
opencode upgrade 1.14.33

# Force install method
opencode upgrade --method npm
opencode upgrade --method bun
opencode upgrade --method curl
opencode upgrade --method brew
opencode upgrade --method choco
opencode upgrade --method scoop

# Uninstall
opencode uninstall
opencode uninstall --keep-config
opencode uninstall --keep-data
opencode uninstall --dry-run
opencode uninstall --force

# Fix/check: CPU lacks AVX support
# Proxmox: stop VM, set CPU type to host, restart.
# QEMU: pass -cpu host.
grep -m1 -oE 'avx[0-9a-z]*' /proc/cpuinfo

# Fix: no provider configured
opencode auth login
opencode auth list
export ANTHROPIC_API_KEY="sk-ant-api03-..."
export OPENAI_API_KEY="sk-proj-..."
export GEMINI_API_KEY="aiza..."

# Fix: attach mode 401
export OPENCODE_SERVER_PASSWORD="..."
opencode attach http://server:4096 -p "$OPENCODE_SERVER_PASSWORD"

# Fix: bash commands time out unexpectedly
export OPENCODE_EXPERIMENTAL_BASH_DEFAULT_TIMEOUT_MS=300000

```