

Claude Code ????

Claude Code ????



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Claude Code CLI

```
#  
npm install -g @anthropic-ai/claude-code  
  
#  
claude --version
```

Node.js 18+ npm yarn/pnpm

Windows Claude Code WSL2 Windows Subsystem for Linux
PowerShell Worktree Linux/macOS

??

```
claude login
```

- **Anthropic** OAuth Pro/Max
- **API Key** API Key

????

■■■■■■■■■■

```
# 模型
/model

# 主题/外观
/theme

# 配置
/config
```

■■■■ **Output Style** ■■■■■ `.claude/output-styles/` ■■■■■ markdown

```
---
name: concise
description: 简洁模式
---

简洁模式
```

■■■■ `/config` ■■■

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■	■
<code>ANTHROPIC_API_KEY</code>	API Key■■■ OAuth ■■■■
<code>ANTHROPIC_BASE_URL</code>	■■■ API ■■
<code>CLAUDE_CODE_DISABLE_BACKGROUND_TASKS</code>	■■ <code>true</code> ■■■■
<code>CLAUDE_CODE_MAX_OUTPUT_TOKENS</code>	■■■ token ■
<code>DISABLE_TELEMETRY</code>	■■ <code>true</code> ■■■

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```
# 設定
claude

# 設定
claude "設定"
```

```
# 実行
claude --workdir /path/to/project
```

Claude Code

8 ??? Slash Command

<code>/init</code>	CLAUDE.md	Claude Code
<code>/model</code>		
<code>/config</code>		
<code>/cost</code>		
<code>/status</code>		
<code>/review</code>	GitHub PR	PR Claude
<code>/theme</code>	/	
<code>/clear</code>		

`/init`

`/init`

- 1. package.json / Cargo.toml / pyproject.toml
- 2. lint
- 3. AI .cursor/rules .github/copilot-instructions.md
- 4. CLAUDE.md

Skills Hooks

????????

Claude Code

- FileRead
- FileEdit

- ```
find
grep
```



??????

# Plan Mode??????

  Claude 

A diagram showing four vertical rectangular blocks representing tens and one vertical rectangular block representing ones, arranged horizontally.

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|--|--|--|--|

**"** [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] **"**

Claude

Plan Mode ☐

- 
- 
- 
- 
- 

Plan Mode [|||||] [ ]

- [illegible]

## Plan Mode

“

1

# ? Agent??????

## Claude Code

|  |  |  |
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|--|--|--|

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|--|--|--|--|

1.  Agent 
2.  Agent 
3.  Agent 

|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|

- Agent Agent "fork" Agent
- Agent Agent
- Agent Agent

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|--|--|--|--|--|--|

# Worktree ??

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|--|--|--|--|

```
📁 worktree 📁
📁📁 Claude 📁
"📁📁📁📁 worktree 📁 bugfix"
```

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|--|--|--|--|

- `git` `worktree` `■■■■■■■■`
- `worktree` `■■■■■`
- Claude `■■■■■` `worktree` `■■■`

- `worktree`

`"worktree"`

# Memory

Claude Code " " "

## 1. CLAUDE.md

Claude

```
CLAUDE.md

This file provides guidance to Claude Code when working with code in this repository.

Build & Test
- `npm run build`
- `npm test`
- `npm test -- --grep "test name"`

- TypeScript
- PascalCase
- async/await callback

-
- production env
```

## 2. CLAUDE.local.md

`.gitignore`

```
CLAUDE.local.md
```

- 部署環境を構築する
- 環境変数を設定する
- 確認 URL: `http://staging.example.com`

3. MEMORY.md + ~/.claude/

~/.claude/ MEMORY.md

- MEMORY.md 200 25KB
- 
- 5

??????

Prompt ???

Prompt

Prompt

- src/auth/ JWT
- 
1. POST /api/login
  2. JWT token 24
  3. bcrypt
  - 4.

Prompt

Prompt

- Claude
- 
- 
-

????????

Claude Code

| Input                                                                               | Claude Output |
|-------------------------------------------------------------------------------------|---------------|
| " <code>const fs = require('fs');</code> "                                          | FileRead      |
| " <code>import React from 'react';</code> "                                         | Grep          |
| " <code>ls -la</code> "                                                             | Bash          |
| " <code>fs.writeFileSync('file.txt', 'Hello World');</code> "                       | FileWrite     |
| " <code>fs.readFile('file.txt', (err, data) =&gt; { console.log(data); });</code> " | FileEdit      |

## Tips

- " " " Bash " xxx"
- Claude
- 

?????

 Claude  compact

- 
- 
- 

```
/compact
```

A diagram showing four vertical rods (tens) and one vertical unit cube (one).

-  Claude  "  " 
- 
- 

# TodoWrite ?????

Claude Code 

todo list

- 3
- 
- 

pending / in\_progress / completed

- " "-----
- " "-----
- " "----- todo list

???????

????

Claude Code

| default |           |
|---------|-----------|
| plan    | Plan Mode |
| auto    |           |

default

Bash

Claude Code Bash

- cat ls grep find git status git log
- 

- echo "xxx" > file
- Git git commit git push
- npm install pip install
- rm

🔒 Claude 🔒🔒🔒🔒

- 📄 Git hooks📄 --no-verify📄 --no-gpg-sign
- 🔒🔒🔒🔒 git rebase -i

# ???? allow/deny

📄 .claude/settings.json 🔒🔒🔒🔒      ~/.claude/settings.json 🔒🔒🔒🔒🔒

```
{
 "permissions": {
 "allow": [
 "Bash(npm test:*)",
 "Bash(npm run lint:*)",
 "FileRead(*)"
],
 "deny": [
 "Bash(rm -rf *)",
 "Bash(curl *:*)"
]
 }
}
```

📄 📄

- Bash(🔒🔒🔒🔒:\*) 🔒🔒 /🔒🔒🔒🔒
- FileRead(\*) 🔒🔒🔒🔒🔒
- FileEdit(\*) 🔒🔒🔒🔒🔒

# ???????

# MCP ??

MCP📄 Model Context Protocol🔒🔒🔒      Claude Code 🔒🔒🔒🔒🔒

📄 📄

```
🔒🔒🔒 MCP 🔒🔒
/mcp add
```

# Claude MCP 插件

/mcp

MCP 插件列表

- 本地 API 插件
- 数据库
- 文件系统

第三方 MCP 插件

- Sentry 集成
- Linear/Jira 集成
- 其他工具

自定义技能

Skills 列表    Claude Code 技能

技能列表

- /commit 提交消息
- /review GitHub PR
- /commit-push-pr 推送 PR

技能名称    描述

```
/plugin install frontend-design@claude-plugins-official
/plugin install playwright@claude-plugins-official
```

技能名称    Skill

• .claude/skills/ 技能名称

```
.claude/skills/my-skill/
SKILL.md
```

SKILL.md 格式

```

name: my-skill
description: 技能描述

```

## Instructions

xxxxx xxx xxxxxxxxxxxx

- ...
- ...

xxxxxxxxxx

/my-skill xxx

/init xxx

**Skill**—xxxxxxxxxxxx

Skills

????

xxxx Anthropic OAuth xxx API Key xxx

xxxxxxxx

- Anthropic xxx API Key
- claude.ai voice\_stream
- GrowthBook feature flag xxxxxxxxxxx

xxx

/voice

xxxxxxxx

????????

xxx .claude/output-styles/ xxxxxxxxxxx

```

name: xxx
description: xxxxxxxxxxxxxxx

xxxxxxxxxxxxxxxx
1. xxxxxxxxxxxxxxx
2. xxxxxxxxxxxxxxx
3. xxxxxxxxxxxxxxx
4. xxxxxxxxxxx
```

xxx /config xxx

☐
☐

- `keep-coding-instructions` ☐ `true` ☐
- `output-dir` `~/.claude/output-styles/` ☐ `~/.claude/output-styles/` ☐

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1. Claude ?????????

☐ Claude

“`xxx`”

☐

2. ?????????

☐ `/compact` ☐ `/clear` ☐

☐ TODO.md ☐ Claude ☐

3. Claude ?????????

☐ `git diff` ☐ `git diff` ☐ Claude

“`src/config.ts`”

Claude ☐ `git` ☐

4. ??? Claude ?????????

☐ `.claude/settings.json` ☐ `permissions allow`

```

{
 "permissions": {

```

```
 "allow": ["Bash(npm test:*)", "Bash(npm run lint:*)"]
 }
}
```

5. CLAUDE.md ?????

[[ "[[[[[ Claude [[ "[[[[[[[[[

- [[[[[[[[ Claude [[[[[
- [[[[[[ "[[[ "[
- README [[[[[[

[[[

- [[[[[ /[[[
- [[[[[[[[[[[
- [[[[[[[
- [[[[[

6. ???????????

Claude Code [[[[[[ CLAUDE.md[[ monorepo [[[[[[[[[[ CLAUDE.md[[  
Claude [[[[[[[[[[[[[[[[

7. ?????????? CLAUDE.md?

[[[ Claude Code [[[[[[[[ CLAUDE.md[[[[[[[[[[[[[[[[

8. ??????

- [[[[[[[[ /model [[
- [[[[[[[[ /clear [[
- [ /cost [[[[[
- [[[[[[[[ Claude.ai

9. /init ??? CLAUDE.md ????

[[[ /init [[[[[[[[[[[[[[[[ CLAUDE.md[[[[[[[[[[[[[[[[

10. ??? Hooks????????????

📄 .claude/settings.json 📄📄📄

```
{
 "hooks": {
 "PostToolUse": [
 {
 "matcher": "Write|Edit",
 "hook": "npx prettier --write $CLAUDE_FILE"
 }
]
 }
}
```

📄📄 Claude 📄📄📄📄📄📄📄 Prettier 📄📄

📄📄📄📄 📄

- PostToolUse 📄📄📄📄📄📄
- PreToolUse 📄📄📄📄📄
- Stop 📄📄📄📄📄📄

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📄📄 tools.ts 📄📄📄📄📄📄

| 📄                | 📄                  |
|------------------|--------------------|
| AgentTool        | 📄 Agent            |
| BashTool         | 📄 shell 📄          |
| FileReadTool     | 📄📄                 |
| FileEditTool     | 📄📄📄                |
| FileWriteTool    | 📄📄                 |
| GlobTool         | 📄📄📄📄               |
| GrepTool         | 📄📄📄📄               |
| WebFetchTool     | 📄📄📄                |
| WebSearchTool    | 📄📄                 |
| TodoWriteTool    | 📄📄📄📄               |
| NotebookEditTool | 📄 Jupyter Notebook |

| Tool Name           | Description                                        |
|---------------------|----------------------------------------------------|
| LSPTool             | Tool for LSPT (Long Short-Term Prediction) tasks.  |
| MCPTTool            | Tool for MCPT (Multi-Class Prediction Task) tasks. |
| EnterPlanModeTool   | Tool for entering Plan Mode.                       |
| ExitPlanModeTool    | Tool for exiting Plan Mode.                        |
| EnterWorktreeTool   | Tool for entering Worktree.                        |
| ExitWorktreeTool    | Tool for exiting Worktree.                         |
| SkillTool           | Tool for Skill tasks.                              |
| AskUserQuestionTool | Tool for asking user questions.                    |
| TaskCreateTool      | Tool for creating tasks.                           |
| TaskListTool        | Tool for listing tasks.                            |
| TaskStopTool        | Tool for stopping tasks.                           |
| SendMessageTool     | Tool for sending messages.                         |
| ConfigTool          | Tool for configuration tasks.                      |
| BriefTool           | Tool for brief tasks.                              |
| ToolSearchTool      | Tool for searching tools.                          |