

Multi-Agent Support (v0.9.1)

The most requested feature: "How do I use Cupertino with X?"

Cupertino started as a Claude tool. But MCP is an open protocol. Any AI assistant that speaks MCP can use it.

v0.9.1 adds setup guides for 8 AI tools:

Tool	Config Location
Claude Desktop	~/Library/Application Support/Claude/claude_desktop_config.json
Claude Code	claude mcp add cupertino
OpenAI Codex	codex mcp add cupertino or ~/.codex/config.toml
Cursor	.cursor/mcp.json
VS Code (Copilot)	.vscode/mcp.json
Zed	settings.json
Windsurf	~/.codeium/windsurf/mcp_config.json
opencode	opencode.jsonc

Quick Setup

For most tools, configuration is a JSON object:

```
{
  "mcpServers": {
    "cupertino": {
      "command": "/opt/homebrew/bin/cupertino",
      "args": ["serve"]
    }
  }
}
```

The exact structure varies by tool. Full examples are in the [serve command documentation](#).

Dynamic Path Detection

If you're not sure where cupertino is installed:

```
claude mcp add cupertino -- $(which cupertino)
codex mcp add cupertino -- $(which cupertino) serve
```

The `$(which cupertino)` expands to the actual binary path. Works for Homebrew installs on both Apple Silicon (`/opt/homebrew/bin`) and Intel (`/usr/local/bin`).

MCP Protocol Upgrade (v0.9.0)

v0.9.0 upgrades the MCP protocol from 2024-11-05 to 2025-06-18.

This matters because newer AI tools expect the newer protocol. Without this upgrade, Cupertino would fail to initialize with clients that only support 2025-06-18.

The upgrade includes backward compatibility:

```
// Server negotiates with client
public let MCPProtocolVersion = "2025-06-18"
public let MCPProtocolVersionsSupported = ["2025-06-18", "2024-11-05"]

// During initialization, find common version
let negotiatedVersion = clientVersions
    .first { MCPProtocolVersionsSupported.contains($0) }
```

If a client requests 2024-11-05, Cupertino still works. If it requests 2025-06-18, that works too. The `MCPClient` and `MockAIAgent` also support version fallback when connecting to servers.

Thanks to [@erikmackinnon](#) for the contribution (#130).

Binary Documentation (v0.9.1)

Cupertino ships 4 executables. Until now, only `cupertino` had proper documentation.

v0.9.1 adds 48 documentation files covering all binaries:

cupertino

The main CLI with 12 commands. Already documented, but now with updated MCP client configuration examples.

cupertino-tui

The terminal UI for browsing and selecting packages:

```
cupertino-tui
cupertino-tui --version
```

5 views documented:

- Dashboard** - Overview and quick actions
- Packages** - Browse and select Swift packages
- Archive** - Apple Archive documentation selection
- Videos** - WWDC video selection
- Settings** - Configuration options

mock-ai-agent

A testing tool that simulates MCP client behavior:

```
mock-ai-agent search "SwiftUI navigation"
```

```
mock-ai-agent list-tools
mock-ai-agent --server /path/to/cupertino
mock-ai-agent --version # New in v0.9.1
```

Arguments documented:

- <query> - Search query to execute
- server - Path to MCP server binary

Useful for testing MCP servers without a full AI client.

cupertino-rel

The release automation tool (maintainer-only):

```
cupertino-rel bump patch # Bump version
cupertino-rel tag --version 0.9.1 --push # Create and push tag
cupertino-rel homebrew --version 0.9.1 # Update Homebrew formula
cupertino-rel databases --version 0.9.1 # Upload database release
cupertino-rel docs-update patch # Documentation-only release
cupertino-rel full 0.10.0 # Complete release workflow
```

6 subcommands with all options documented:

- bump - Update version in all files
- tag - Create and push git tags
- homebrew - Update Homebrew formula
- databases - Upload databases to cupertino-docs
- docs-update - Documentation-only releases
- full - Complete release workflow

Documentation Structure

The documentation follows the same granular folder structure as the main CLI:

```
docs/binaries/
??? README.md
??? cupertino-tui/
?   ??? README.md
?   ??? option (--)/
?   ?   ??? version.md
?   ??? view/
?       ??? dashboard.md
?       ??? packages.md
?       ??? archive.md
?       ??? videos.md
?       ??? settings.md
??? mock-ai-agent/
?   ??? README.md
?   ??? option (--)/
?   ?   ??? server.md
?   ?   ??? version.md
?   ??? argument (<>)/
```

```
?      ??? query.md
??? cupertino-rel/
      ??? README.md
      ??? option (--)/
?      ??? version.md
??? subcommand/
      ??? bump/
      ??? tag/
      ??? homebrew/
      ??? databases/
      ??? docs-update/
      ??? full/
```

No More Node.js (v0.8.3)

v0.8.3 removed the last Node.js dependency from the codebase.

The MCP integration tests previously used npm packages to simulate client behavior. Now they use `cupertino serve` directly:

```
@Test("Initialize handshake with cupertino server")
func cupertinoServerInitialize() async throws {
    let process = Process()
    process.executableURL = URL(fileURLWithPath: ".build/debug/cupertino")
    process.arguments = ["serve"]

    let stdinPipe = Pipe()
    let stdoutPipe = Pipe()
    process.standardInput = stdinPipe
    process.standardOutput = stdoutPipe

    try process.run()

    // Send initialize request (compact JSON + newline)
    let initRequest = ""
    {"jsonrpc":"2.0","id":1,"method":"initialize","params":{...}}\n
    ""
    stdinPipe.fileHandleForWriting.write(Data(initRequest.utf8))

    // Parse and verify response
    let response = try JSONDecoder().decode(JSONRPCResponse.self, from:
responseData)
    #expect(response.serverInfo.name == "cupertino")
}
```

The tests verify:

- MCP initialize handshake
- `tools/list` responses
- Protocol version negotiation
- Server info and tool registration

Swift-only tests. No npm. No node_modules. No package-lock.json.

This is now policy in AGENTS.md: **no Node.js or npm in the Cupertino codebase.**

Setup Progress Animation (v0.8.2)

Database downloads are ~400MB. Previously, `cupertino setup` showed nothing while downloading.

Now you get real-time feedback:

Download progress with bar:

```
? [????????????????????????????????????????] 42% (168MB/400MB)
```

Extraction spinner:

```
? Extracting databases...
```

Implementation details:

`DownloadProgressDelegate` implements `URLSessionDownloadDelegate` for real-time progress

`ExtractionSpinner` shows animated feedback during unzip

Extended download timeout to 10 minutes for large database files

Uses ANSI escape codes for in-place updates

Small things that make the tool feel responsive.

Installer ANSI Fix (v0.8.1)

The one-line installer had broken ANSI colors:

Before:

```
\033[32m? Installation complete\033[0m
```

After:

```
? Installation complete (in green)
```

Two `echo` statements were missing the `-e` flag for escape sequence interpretation. Fixed in #124.

Database Compatibility

This release uses the same database schema as v0.8.2. No migration needed.

When you run `cupertino setup`, it downloads databases from the v0.8.2 release. The CLI version (0.9.1) and database version (0.8.2) are now decoupled.

Version Type	Current	Purpose
CLI version	0.9.1	Binary release
Database version	0.8.2	Pre-built database release

Version Type	Current	Purpose
Schema version	9	SQLite schema

This means:

- CLI updates don't require database re-downloads
- Database updates don't require CLI updates
- Schema changes are tracked separately

Install or Update

```
# New install
brew install mihaelamj/tap/cupertino

# Update existing
brew update && brew upgrade cupertino

# Or one-line install
bash <(curl -sSL
https://raw.githubusercontent.com/mihaelamj/cupertino/main/install.sh)
```

Then:

```
cupertino setup # Download databases (~30 seconds)
cupertino serve # Start MCP server
```

Configure your AI tool using the guides above, and you're ready.

Issues Closed

- #124 - Installer ANSI escape sequences
- #96 - Setup progress animation
- #131 - Remove Node.js dependency from MCP integration tests
- #130 - MCP protocol mismatch (2025-06-18 support)
- #134 - Better documentation for use with different agents
- #137 - Documentation improvements: MCP client configs and binary documentation

Links

[GitHub Repository](#)

[Documentation](#)

[Release Notes](#)