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Pedro Gomes Branquinho

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Tools: Functions Claude can call



Resources: Data Claude can read



Context: Information about the environment

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```
;; Add to project memory
(emacs-mcp-api-memory-add
 "convention"
 "Use kebab-case for functions"
 '("elisp" "style"))

;; Query memory
(emacs-mcp-api-memory-query
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 '("elisp")
 10)
```

Memory Types



note — General
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Memory Types

- 🍷 note — General notes
- 🍷 snippet — Code fragments
- 🍷 convention — Project rules

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 10)
```

Memory Types

- 🍷 note — General notes
- 🍷 snippet — Code fragments
- 🍷 convention — Project rules
- 🍷 decision — Architecture choices

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```
(emacs-mcp-api-get-context)

;; Returns:
;; - Current buffer info
;; - Project root
;; - Git status
;; - Recent files
;; - Project memory
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Automatic Integration



Works with `projectile` / `project.el`

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- 🍷 Works with `projectile` / `project.el`
- 🍷 Git repository awareness

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Automatic Integration

- 🧡 Works with `projectile` / `project.el`
- 🧡 Git repository awareness
- 🧡 Buffer and region context

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(emacs-mcp-addon-register  
  'my-addon  
  :version "1.0.0"  
  :description "My addon"  
  :init #'my-init  
  :async-init #'my-async-init  
  :shutdown #'my-cleanup)
```

Lifecycle Hooks

 :init — Sync
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🍷 :init — Sync
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```

Lifecycle Hooks

- 🍷 :init — Sync setup
- 🍷 :async-init — Background
- 🍷 :shutdown — Cleanup

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Auto-start nREPL



Silent/explicit eval
modes

Configuration

```
(setq emacs-mcp-cider-auto-start-nrepl t)  
(setq emacs-mcp-cider-auto-connect t)  
(setq emacs-mcp-cider-nrepl-port 7800)
```

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(setq emacs-mcp-cider-auto-connect  
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```

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(setq emacs-mcp-cider-nrepl-port 78
```

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p/k	Previous
h/l	Columns
m	Move task
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🍏 **Vibe:** Cloud sync

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🍏 Auto-sync between both

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;; Create specialized agents  
(emacs-mcp-swarm-spawn  
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  :presets '("tdd" "clarity"))
```

```
;; Broadcast to all  
(emacs-mcp-swarm-broadcast  
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Use Cases

- 🍏 Parallel code review
- 🍏 Test execution
- 🍏 Documentation generation
- 🍏 Refactoring tasks

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- 🍷 Immutable data structures
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- 🍷 Easy testing

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🍷 Parse org → EDN

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- 🍷 Parse org → EDN
- 🍷 Write EDN → org

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- 🍷 Parse org → EDN
- 🍷 Write EDN → org
- 🍷 Query headlines

Pure Clojure Implementation

emacs-mcp:

Claude + Emacs
Integration

Branquinho

Introduction

What is emacs-mcp?

Core Features

Addons System

Modular Architecture

CIDER Integration

Org-Kanban Integration

Swarm Orchestration

Native org-clj
Library

Clojure Org-Mode Parser

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Why Native?

- 🍷 No elisp dependency
- 🍷 Immutable data structures
- 🍷 Schema validation (Malli)
- 🍷 Easy testing

Capabilities

- 🍷 Parse org → EDN
- 🍷 Write EDN → org
- 🍷 Query headlines
- 🍷 Transform documents

Usage Example

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Parse and Query

```
(require '[emacs-mcp.org-clj.parser :as p])
(require '[emacs-mcp.org-clj.query :as q])

(def doc (p/parse-document (slurp "tasks.org")))

;; Find all TODOs
(q/find-by-status doc "TODO")

;; Get statistics
(q/task-stats doc)
;; => {:total 10 :todo 3 :done 7}
```

Kanban Board Rendering

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Terminal Output

```
(require '[emacs-mcp.org-clj.render :as r])

(println (r/render-to-terminal "kanban.org"))
```

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```
(require '[emacs-mcp.org-clj.render :as r])

(println (r/render-to-terminal "kanban.org"))
```

OCP Design



KanbanRenderer protocol

Kanban Board Rendering

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```
(require '[emacs-mcp.org-clj.render :as r])

(println (r/render-to-terminal "kanban.org"))
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OCP Design



KanbanRenderer protocol



Extend without modification

Kanban Board Rendering

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```
(require '[emacs-mcp.org-clj.render :as r])

(println (r/render-to-terminal "kanban.org"))
```

OCP Design

- 🧡 KanbanRenderer protocol
- 🧡 Extend without modification
- 🧡 Terminal, Emacs, HTML renderers

Setup Steps

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1. Clone Repository

```
git clone https://github.com/BuddhiLW/emacs-mcp.git
```

2. Configure Emacs

```
;; Add to load-path
(add-to-list 'load-path "path/to/emacs-mcp/elisp")
(add-to-list 'load-path "path/to/emacs-mcp/elisp/addons")

;; Load main package
(require 'emacs-mcp)
(require 'emacs-mcp-addons)

;; Enable addons
(setq emacs-mcp-addon-always-load '(cider org-kanban))
```

Keybindings

emacs-mcp:

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Default Prefix: C-c m

Key	Command
C-c m m	Transient menu
C-c m n	Add note
C-c m s	Save snippet
C-c m c	Add convention
C-c m k	Open kanban
C-c m w	Run workflow