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Pedro Gomes Branquinho

pedrogbranquinho@gmail.com

Model Context Protocol for Emacs

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- ❖ Project memory persistence

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— Anthropic

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Key Concepts

💡 Tools: Functions Claude can call

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Key Concepts

- ⌚ 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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 10)
```

Memory Types

apple note — General notes

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- apple snippet — Code fragments
- apple convention — Project rules

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 10)
```

Memory Types

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

Addon Lifecycle

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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 setup

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Lifecycle Hooks

- ⌚ :init — Sync setup
- ⌚ :async-init — Background

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  :shutdown #'my-cleanup)
```

Lifecycle Hooks

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

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Addon	Purpose
cider	Clojure REPL integration
org-kanban	Task management
swarm	Multi-agent orchestration
melpazoid	MELPA submission testing
presentation	Slide creation

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Auto-start nREPL

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Features

- ❖ Auto-start nREPL
- ❖ Silent/explicit eval modes

Configuration

```
(setq emacs-mcp-cider-auto-start-nr  
(setq emacs-mcp-cider-auto-connect  
(setq emacs-mcp-cider-nrepl-port 78
```

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Features

- ❖ Auto-start nREPL
- ❖ Silent/explicit eval modes
- ❖ Namespace awareness

Configuration

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- ❖ Auto-start nREPL
- ❖ Silent/explicit eval modes
- ❖ Namespace awareness
- ❖ Error handling

Configuration

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(setq emacs-mcp-cider-auto-connect  
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Key	Action
n/j	Next task
p/k	Previous
h/l	Columns
m	Move task
c	Create

Dual Backend

💡 **Standalone:** Local .org file

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- 💡 **Vibe:** Cloud sync

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- 💡 **Vibe:** Cloud sync
- 💡 Auto-sync between both

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- 💡 **Vibe:** Cloud sync
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- 💡 Agent task tracking

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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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```

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- ⌚ Parallel code review
- ⌚ Test execution
- ⌚ Documentation generation

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Use Cases

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

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Why Native?

✿ No elisp dependency

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Why Native?

- ♥ No elisp dependency
- ♥ Immutable data structures

Capabilities

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- ❖ Immutable data structures
- ❖ Schema validation (Malli)

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- ❖ Immutable data structures
- ❖ Schema validation (Malli)
- ❖ Easy testing

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- ❖ No elisp dependency
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Capabilities

- ❖ Parse org → EDN

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- ❖ No elisp dependency
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- ❖ Schema validation (Malli)
- ❖ Easy testing

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- ❖ Parse org → EDN
- ❖ Write EDN → org

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- ❖ Easy testing

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

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- ❖ Immutable data structures
- ❖ Schema validation (Malli)
- ❖ Easy testing

Capabilities

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

Usage Example

emacs-mcp:
Claude + Emacs
Integration

Branquinho

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What is emacs-mcp?

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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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```
(require '[emacs-mcp.org-clj.render :as r])  
  
(println (r/render-to-terminal "kanban.org"))
```

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```

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"))
```

OCP Design

- ❖ KanbanRenderer protocol
- ❖ Extend without modification

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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

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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