

Ákos Kiss Programmer

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Grabow & Kiss Software GmbH

Tooling Overview



Emacs is an extensible text editor with close ties to the Lisp family of programming languages:

- Actively developed since the mid-1970s
- Built upon a portable C core, which includes an interpreter for Emacs Lisp (ELisp)
- Most functionality is implemented in this Lisp dialect (more than 75% LOC)
- Features established projects built on top of Emacs for working with a variety of Lisp code (SLIME or Sly for Common Lisp, Geiser for Scheme, Paredit for structural editing...)

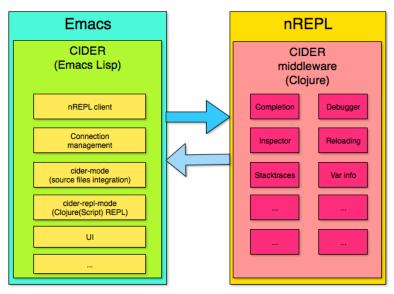


The CIDER project aims to support interactive programming for Clojure in Emacs.

- Inspired by similar Emacs projects for other Lisp dialects (such as SLIME)
- Built on top of nREPL, a network REPL for Clojure
- Complements Clojure Mode, which provides editor support (syntax highlighting, indentation rules, etc.) for Clojure source code in Emacs
- Integrates with Clojure build tooling (such as Leiningen or Boot), but can be used with any Clojure project



CIDER - How does it work?



Basic CIDER Architecture (from the CIDER documentation)

Demo

```
$ java -jar demo.jar
Segmentation Fault (core dumped)
```

Q & A

References

- GNU Emacs https://www.gnu.org/software/emacs/
- CIDER https://github.com/clojure-emacs/cider
- \bullet nREPL https://github.com/clojure/tools.nrepl
- Code Reloading https://github.com/clojure/tools.namespace
- State Management
 - Component https://github.com/stuartsierra/component
 - mount https://github.com/tolitius/mount
- Leiningen http://leiningen.org/
- Boot https://github.com/boot-clj/boot
- clj-http https://github.com/dakrone/clj-http
- Enlive https://github.com/cgrand/enlive
- clj-refactor.el https://github.com/clojure-emacs/clj-refactor.el
- company-mode http://company-mode.github.io/