What is so great about Clojure?

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Personal journey



Clojure is a Lisp

What is so great about Lisp?

"The most powerful programming language is Lisp. If you don't know Lisp (or its variant, Scheme), you don't know what it means for a programming language to be powerful and elegant. Once you learn Lisp, you will see what is lacking in most other languages." — Richard Stallman

Almost no special syntax, only data structures

- · Parentheses!
- Code is data and data is code (homoiconicity)

Extensible

Macro expansion

The Reader parses the Clojure data structures

Phase in compilation that transforms source code: "programs that write programs"

```
(defmacro unless [pred a b]
  `(if (not ~pred) ~a ~b))

;; usage:
(unless false
  (println "Will print")
  (println "Will not print"))
```

Not possible to implement as function. First form is not evaluated!

Use the command line 1

- · Get the command line with: Start > Search for 'cmd'
- Basic commands (replace "<...>" by what you want):

Blocks

A normal block

- · Use and beamer: arbitrary-commanda to include an arbitrary শ্রেস্/Beamer command.
- Use *test* for alert
- Use /italics/ for italics
- Use C-c C-b to change the type of block.

An alert block

An altert block.

Example ("An example")

Learn more:

- Rich Hickey Clojure made Simple: https://youtu.be/VSdnJDO-xdg
- Derek Slager ClojureScript for Skeptics: https://youtu.be/gsffg5xxFQI