

# Quick Intro to Clojure

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# Clojure

- Functional language
- A dialect of LISP
- Can target JVM / fully interoperable with Java
- Can target JavaScript (ClojureScript)
- Can target .Net's CLR (ClojureCLR)

# Why Clojure?

- Encourages immutability
- REPL (read-eval-print loop)
- It's fun
- (Your definition of fun may differ)

# Types

- nil
- Numbers: 42 or 3.14
- Ratios (note lack of whitespace): 3/4
- Characters: \A
- Strings: “Stuff”
- Keyword: :anything

# Types (Cont.)

- List: (1 2 3 4 5)
- Vector: [1 2 3 4 5]
- Sets (note duplicates not allowed): #{1 2 3 4 5}
- Maps: {"key1" "value1" "key2" "value2"}

# Some Code

- `(println "Hello World")`
- `(+ 2 3)`
- `(def some-name "Bill")`
- `(def my-map { :first-name "Al", :last-name "Pratt" })`

# Notes on the Code

- All the code examples listed are Lists
- Commas are whitespace (1 2 3) is the same as (1,,,2,3,,,) )
- Keywords are ideally suited to be the keys on a map.

# Code

- `(def my-map { :name "Evan Porter" :occupation "Not Grand Master Flash" })`
- `(my-map :name)` is equivalent to `(:name my-map)` and both return "Evan Porter"



# How to start?

- Leiningen - <http://leiningen.org>
- Mascot has fantastic moustache
- `lein new app my-app-name`
- `lein repl`
- There's also something called "boot"

Live Examples?