

# Clojure programming language & it's ecosystem

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# What is Clojure?

- LISP

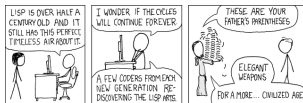


Figure 1: Lisp Cycles, <https://xkcd.com/297/>

- Rich Hickey



Figure 2: Rich Hickey at the first Clojure Conj in 2010, <https://creativecommons.org/licenses/by-sa/2.0/>

# What is LISP?

**Y** (f) ((λ (g) (funcall g g)) (λ (x) (funcall f  
(λ (rest a) (apply (funcall x x) a))))))

**F** (n) (funcall (Y (λ (f) (λ (n a b) (if (< n I)  
a (funcall f (I- n) b (+ a b)))))) n I)

**F** (n) (funcall (Y (λ (f) (λ (n) (if (zerop n) I  
(× n (funcall f (I- n)))))) n)

z (mapcar #'fib '(i ij iij iv v vi vij viij iε))  
(i i ij iij v viij xij xxi xxxiv)

z (mapcar #'fac '(i ij iij iv v vi vij viij iε))  
(i ij vi xxiiv cxx dcccc vel edcccc xxiivimmdccccxxxi)

Figure 3: Y Combinator Codex by emacsomancer.