



# Clojure 101

## Interactive Introduction

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# About me

- Senior Clojure Engineer
  - Mainly Java and Clojure
  - But also Javascript and Python
- Experience
  - POS systems, Analytics, Real estate, Marketing
  - Web services/API design
  - And also FE (react), infra (AWS), e2e testing (cypress)

# About you

- What is your primary language? Java? Javascript? Python? Other?
- How many years?
  - < 2
  - [2, 5]
  - > 5
- What do you do?
  - Web services/APIs? Frontends? Mobiles?
  - Other

# Clojure

- Created by Rich Hickey in 2007
- Dynamic and Functional
- Lisp
- Hosted, JVM

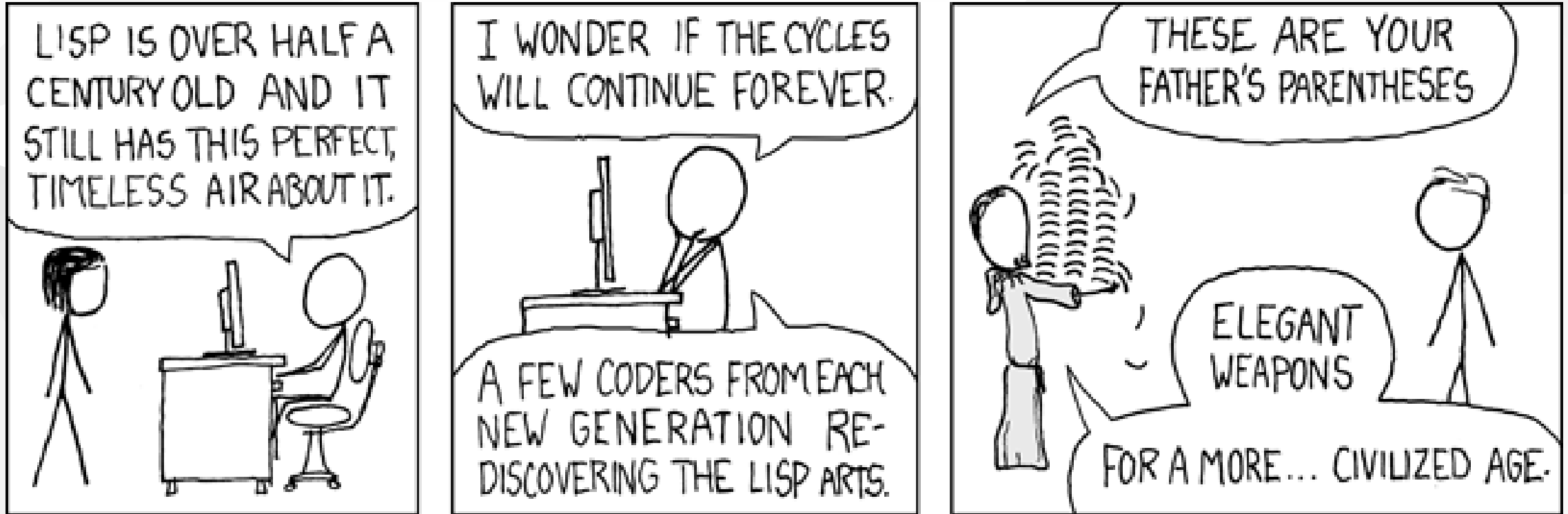
# About this talk

- Quacks like an intro
- REPL driven
- Concept oriented

# Agenda

1. hello world, syntax, REPL, basic functions
2. data structures, equality, values
3. loop/recur, lazy sequences, TCO, destructuring
4. polymorphism, protocols, host interop
5. example 1: log parsing
6. example 2: pattern matching, macros

# Lisp Cycles



<https://xkcd.com/297/>

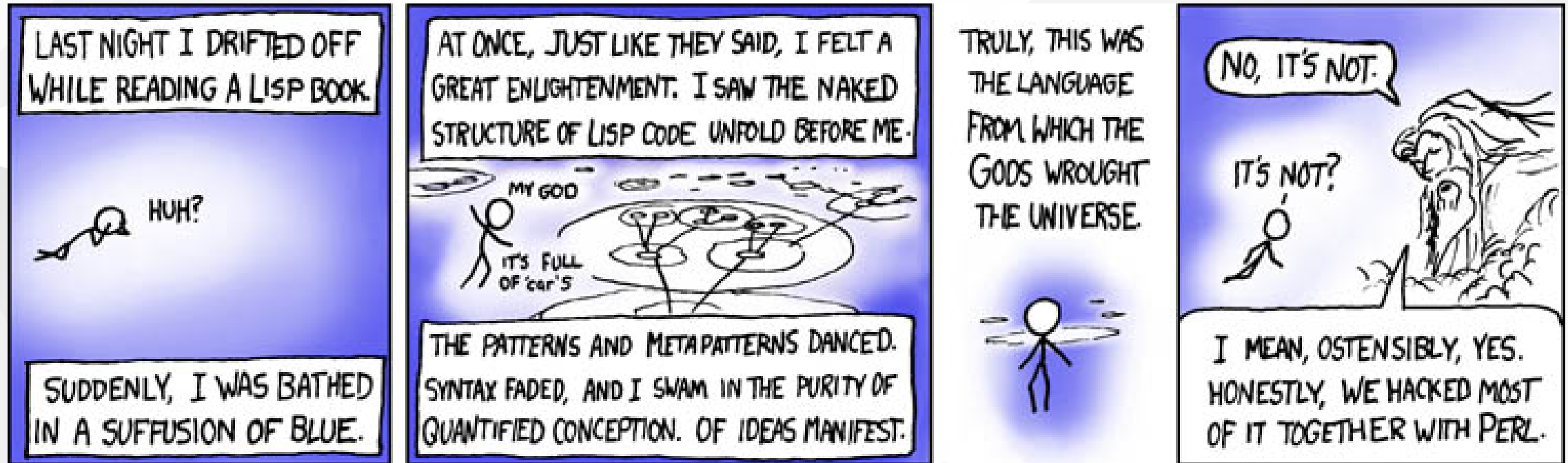
**ONE DOES NOT SIMPLY**

**LEARN CLOSURE IN 45 MINS**

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# Lisp



<https://xkcd.com/224/>

# Where to go from here?

- <https://clojure.org/reference/reader>
- <https://4clojure.oxal.org/>
- <https://www.braveclojure.com/clojure-for-the-brave-and-true/>
- <https://www.manning.com/books/the-joy-of-clojure-second-edition>
- <https://clojurians.slack.com/>

# Thank you!