10,000 FOOT OVERVIEW

CLOJURE

WHAT IS CLOJURE?

- Dialect of LISP
- Dynamic
- Designed to be hosted
 - JVM
 - JavaScript
 - CLR
- Pragmatic

WHY CLOJURE?

- Polyglot of Technology
 - Open to experimentation (i.e. crazy co-worker made us try it!)
- Faster Delivery / Maintainable Code
 - Processing Data
 - Building applications with simpler tools
- Rise of JavaScript (along with SPA's)
 - Code Sharing
 - Target Multiple Platforms
- Clojure is fun!

WHO ELSE USES CLOJURE?

- WalMart (WalMart Labs Division)
 - Processes every receipt through the store
- Netflix
 - MQL (Mantis Query Language) 2 Trillion Events / Day
- Amazon, Apple, CircleCl
- https://clojure.org/community/companies

A little bit of syntax...

PRIMITIVES & DATA STRUCTURES

```
;; Numerics
42
                      ; 64 Bit Integer
                      ; BigInt - Arbitrary Precision
42N
22/7
                       ; Ratio
;; Character
"Hello World!"
                     ; String
                      ; Characters
\e
;; Others
                      ; Keyword
:user
                     ; Namespaced Keyword
:user/first-name
                      ; Symbol
map
clojure.core/map
                     ; Namespaced Symbol
;; Data Structures
'(1 2 3 4)
                ; List
[1 2 3 4] ; Vector
#{1 2 3 4}; Set
{:a 1 :b 2 :c 3} ; Map
```

PROGRAM STRUCTURE

(CODE-DEMOS)

RESOURCES FOR LEARNING MORE

https://www.infoq.com/presentations/Simple-Made-Easy

https://clojure.org/

https://clojurescript.org/

https://www.braveclojure.com/foreword/

https://aphyr.com/tags/Clojure-from-the-ground-up