

If we are going to transpile JavaScript, why not use ClojureScript?

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Built an LMS from 2012 to 2016

Long projects == Living with
your past mistakes



Followed all best practices

Changed the build system thrice



JS ecosystem was maturing in 2012

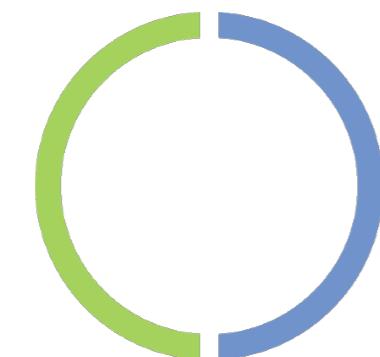
Is it mature now?



The JS community is blessed

But raw JS is not





Clojure/Script

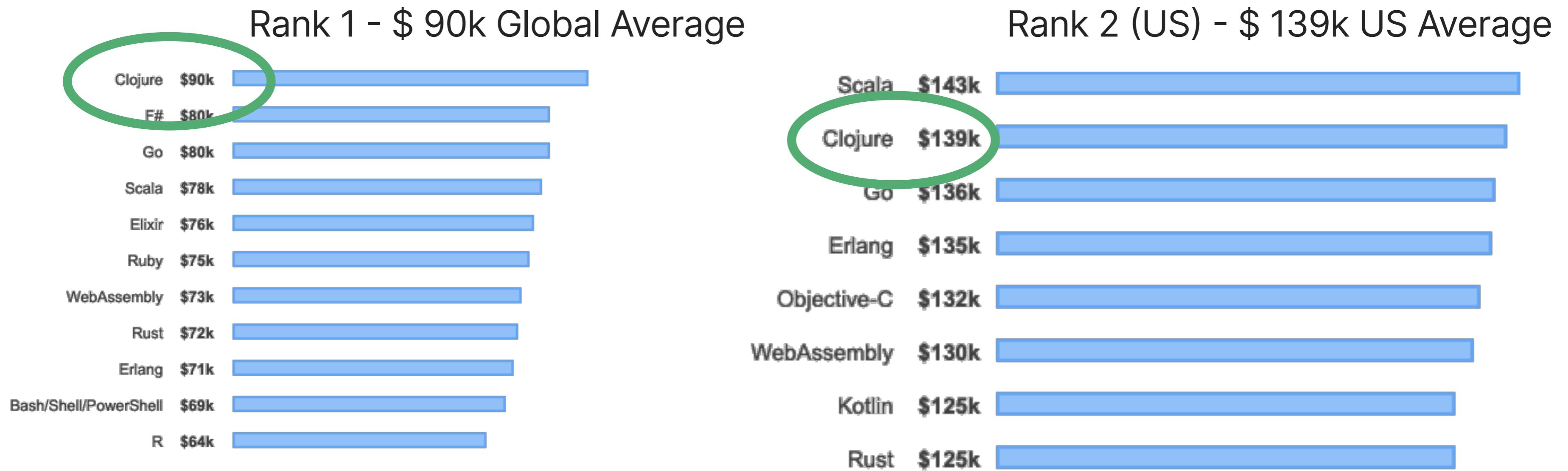
LISP Functional Immutable Homoiconic

Thread Safe Dynamically typed Hosted

Joy to use



Clojure devs are top paid globally



Source: StackOverflow Developer Survey 2019



;; LISP

(1 2 3)

(+ 1 2 3)

```
(defn sum [a b]
  (+ a b))
```



;; Functional

```
(defonce person
  {:_name "Vienaa"
   :age 24})
```

```
(:name person)
(:age person)
```

```
class Person {
  init(name, age) {...}
  getName() => {...}
  getAge() => {...}
}
```

```
const v = Person("Viena", 24)
v.getName()
v.getAge()
```



;; Immutable

```
(defonce count 0)
(inc count) ;; => 1
count ;; => 0
```



;; atoms
;; thread safe/ mutable constructs

```
(defonce count (atom 0))  
(swap! count inc) ;; => 1  
count ;; => 1  
(reset! count 4) ;; => 4  
count ;; => 4
```



;; Homiconic
;; Code is data

(1 2 4)

{:name "Shivek" :age 24}

[2 1]

(defn sum [a b] (+ a b))



Hosted

Compiles to JavaScript using
Google's Closure Library



;; Interop with JS

```
(.getElementById js/document "root")
```

```
(new js/FormData)
```

```
(.-height js/window)
```

```
(js->clj {"hello" "world"})
```

```
(clj->js {:hello :world})
```



;; Consuming NPM Packages

```
( :require ["react-dom/server" :refer [renderToString]] )  
( renderToString react-element)
```



;; HTML/React Components ;; using Hiccup

```
(defcomponent Settings [username realname email]
  [:div {:class "pa2 ma3"}
    [:h3 username]
    [:div realname]
    [:div email]
    [:button {:onClick #()} "Edit"]])
```



Switching stacks

Weird Syntax
Immutable
No classes
Small Community
Talent/ Training



Switching stacks

Weird Syntax
Immutable
No classes
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Talent/ Training

Brackets become invisible
Immutable ❤️
Functional ❤️
Small but brilliant community
Things are changing



REPL

Developing inside the Runtime

