Cheatography

lambda calc Cheat Sheet

by Glowie via cheatography.com/209809/cs/45259/

Clojure Basics

`(str " Hel lo" " " " Wor ld")`

Math operators +, -, /, *

`(quote (+ 1 2)) or '(+ 1 2) or `(+ 1 2)`

`(eval `(+ 1 2)) => 3`

`(def x 1)`

```
(defn hello [name] (str " Hello " name)
)
```

```
(defn hello2 [& args]
    (for [x args] (hello x)))
```

`(apply <fn> <ar gs>) (apply + [1 2 3])`

`(if <co nd> <ex p1> <ex p2>)`

false => false, nil

```
(case grade
    :A "Great"
    :B "Good"
    :C "OK"
    "Not good")
```

```
(cond
    (>= grade 90) "Great"
    (>= grade 80) "Good"
    :else "Need Work")
```

```
(for [x (range 10)
   :let [y (+ x 2)]
   :when (< y 5)] y)
```

```
(for [x (range 3)
      y (range 2)] [x y])
```

```
(for [x (range 10)
   :let [y (+ x 2)]
   :while (< y 5)] y)
```

Destructuring

`(first seq)` => 1	`(rest seq)` => (234)
`(nth seq 2)` => 3	`(last seq)` => 4
`(take 2 seq)` => (1 2)	`(drop 2 seq)` => (2 3)
`(take- while (fn [x] ( < x 3) seq)` => (1 2))	
`(filter even? seq)` => (2 4)	
Vectors as functions `(vect 2)` => 3	`(nth vect 2)`
`(get vect 2)`	`(subvec vect 2 4)` => [3 4]
Maps `(get my-map :key)`	`(my-map :key) (:k ey my-map)`
Nested Map `(get-in my-map [:outer :inn er])`	
Nested with vector `(get-in my-map [:outer n :inner])`	
`(keys my-map)`	`(vals my-map)`

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