Contents

1	Move the DB Out	1
2	How it was done	1
3	Code smell?	2
4	Changing the approach	2
5	How it was done 2	2
6	Code smell?	2
7	Changing the approach	3
8	Next Steps?	3
9	Functional Calisthenics	3
10	That's All Folks	4

1 Move the DB Out

Production code thoughts.

2 How it was done

```
(defn retrieve_car [car_id]
  (retrieve_car_from_DB car_id))

(defn calculate_force [car_id]
  (let [car (retrieve_car car_id)]
        (* (:top_speed car) (:total_mass car))))

(defn estimate_damage [car_id cost_per_newton]
        (* (calculate_force car_id cost_per_newton)))
```

3 Code smell?

```
(deftest some-test
  (with-redefs [retrieve_car_from_db (fn [x] {:id "1" :top_speed "6" :total_mass "5"})
   #test code
   (estimate_damage "FORDY" 50)
   #more test code))
```

4 Changing the approach

```
(defn retrieve_car [car_id]
  (retrieve_car_from_db car_id))

(let [car (retrieve_car )]

  (defn calculate_force [car]
      (* (:top_speed car) (:total_mass car)))

  (defn estimate_damage [car]
      (* (calculate_force car) cost_per_newton)))
```

5 How it was done 2

```
(let [user (create-user "pepe")
            role (get-role "user")]

  (assign-role-to-user user role)
  (let [new-user (get-user "pepe")
            session (get-session "session1")]
        (get-user-in-session new-user session)))
```

6 Code smell?

Lets upon Lets

7 Changing the approach

```
(-> (create-user "pepe")
    (assign-role-to-user (get-role "user"))
    (get-user-in-session (get-session "session1")))
```

8 Next Steps?

Internalizing

9 Functional Calisthenics

- Side effects can only occur at the top level
- No mutable state
- Expressions not statements
- Functions should have 1 argument
- No explicit recursion
- Maximum type-level abstraction
- Always use infinite sequences
- No "if"
- Name everything
- Use intermediates
- Don't abbreviate

 $http://blog.ninjaferret.co.uk/2015/06/05/Introducing-Functional-Calisthenics. \\ html$

10 That's All Folks

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