

@moisesvw

UNA SIMPLE WEB API EN RUBY



API

Application Programming Interface



API - Specifications

POSIX

Microsoft Windows API

Standard Template Library (C++)

SOAP

WSDL

Representational State Transfer (REST)

<http://www.ics.uci.edu/~fielding/pubs/dissertation/top.htm>

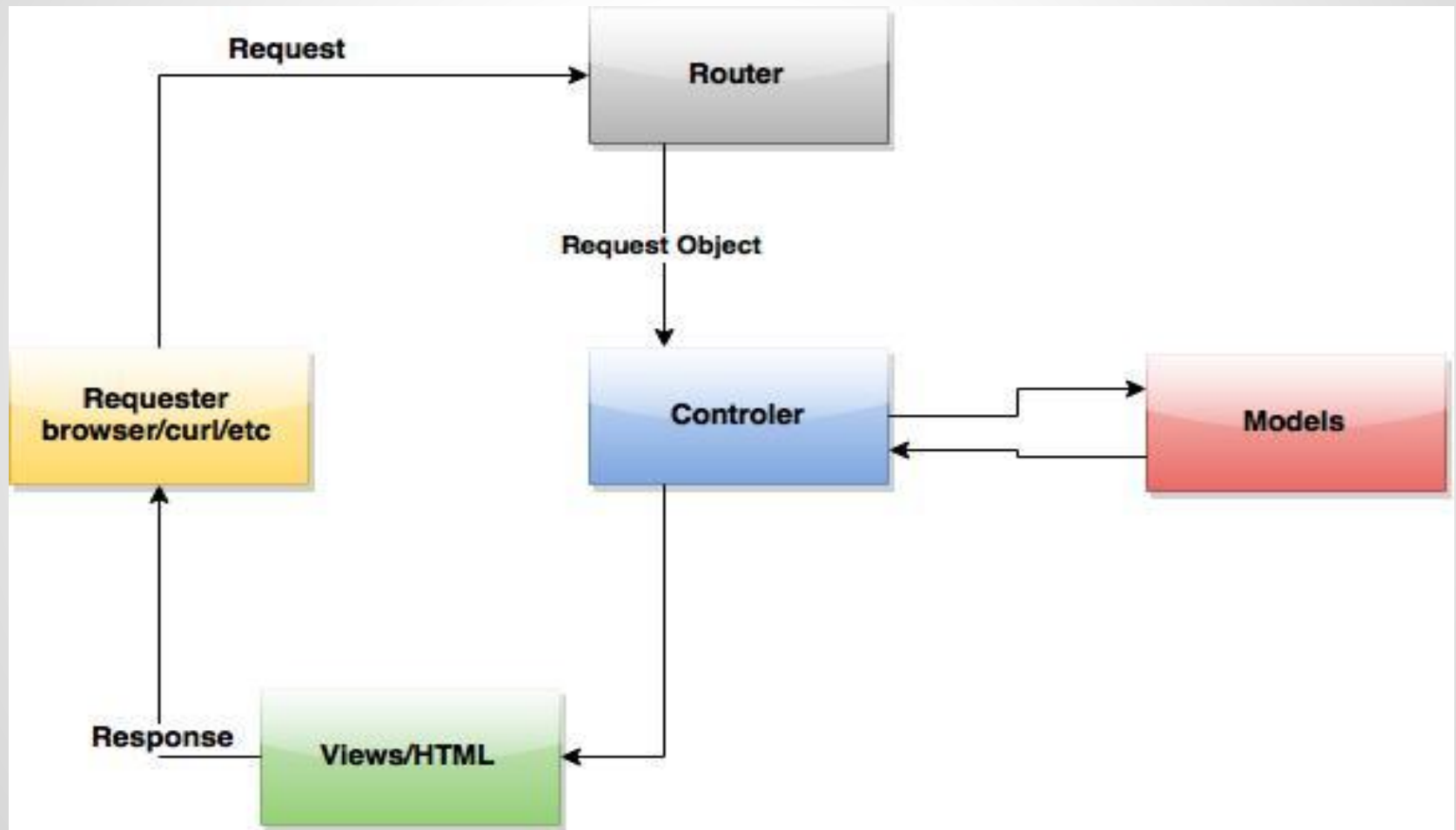
Ruby Web Frameworks

<http://rubyonrails.org>(full)

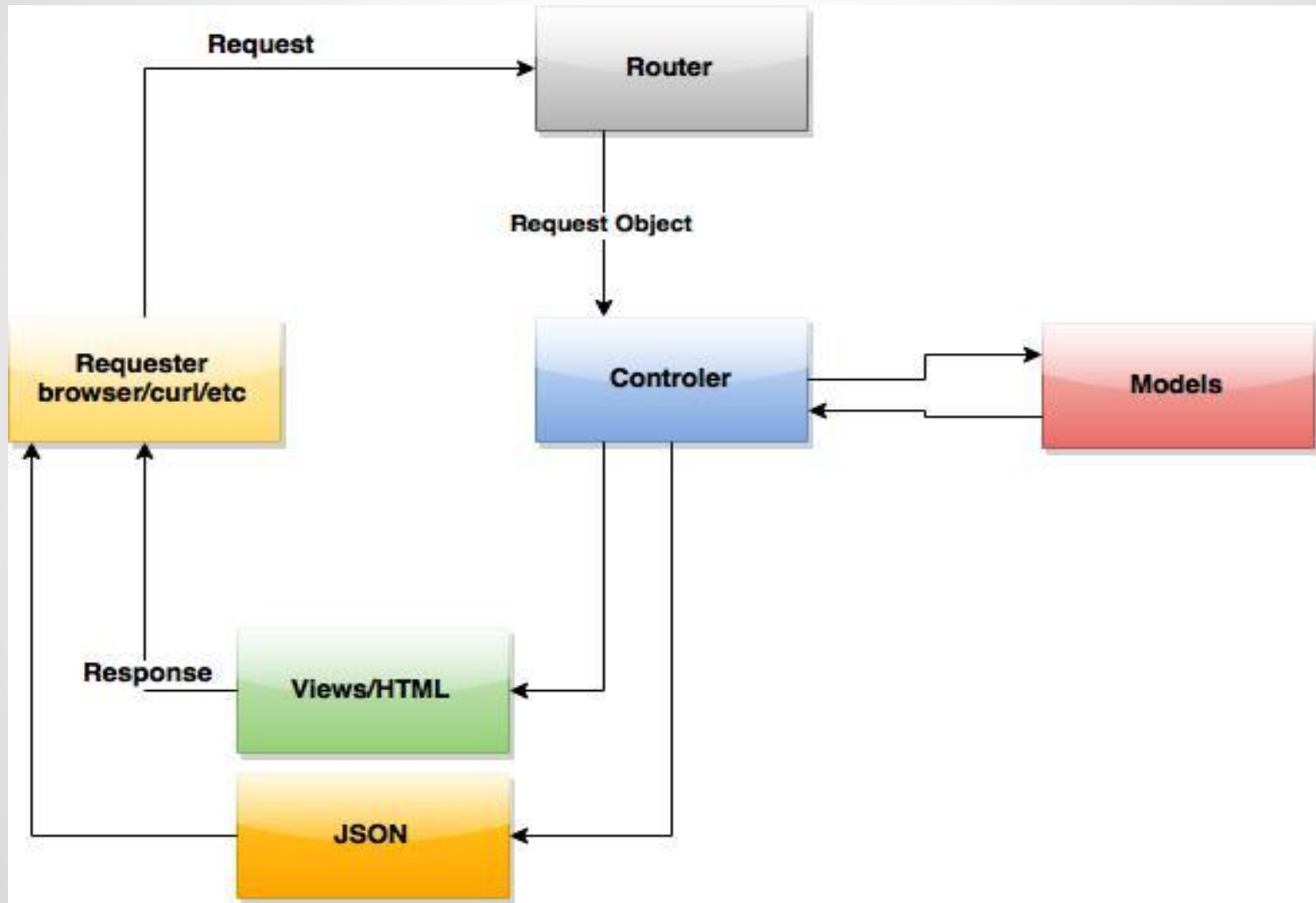
<http://sinatrarb.com>(minimal)

<http://cuba.is>(micro 400lines)

Ruby on Rails



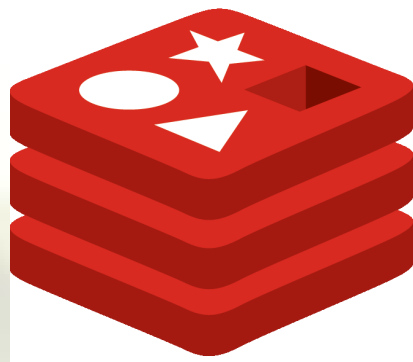
Ruby on Rails + API



Sinatra + API



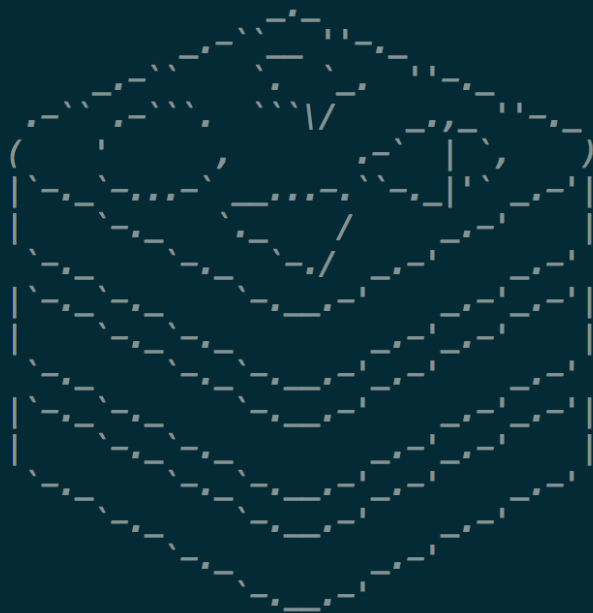




redis



```
[2057] 06 Jul 21:45:39.956 * Increased maximum number of open files to 10032 (it was originally set to 256).
```



```
Redis 2.8.19 (00000000/0) 64 bit
```

```
Running in stand alone mode
```

```
Port: 6379
```

```
PID: 2057
```

```
http://redis.io
```

```
[2057] 06 Jul 21:45:39.964 # Server started, Redis version 2.8.19
```

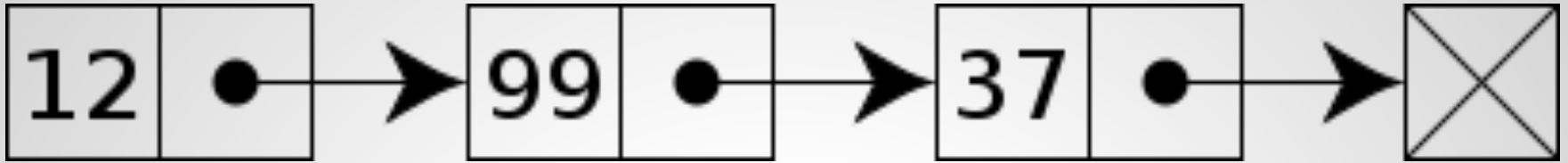
```
[2057] 06 Jul 21:45:39.966 * DB loaded from disk: 0.002 seconds
```

```
[2057] 06 Jul 21:45:39.966 * The server is now ready to accept connections on port 6379
```

- **(key, value) cache and store**
- **data structure server -> [strings, hashes, lists, sets, sorted sets, bitmaps and hyperloglogs]**
- **written in ANSI C by Salvatore Sanfilippo (Pivotal Hacker Guy)**

C	C#	C++	Clojure	Common Lisp	D
Dart	Elixir	emacs lisp	Erlang	Fancy	GNU Prolog
Go	★Haskell	haXe	Io	Java	Lua
Matlab	Nim	Node.js	Objective-C	OCaml	Perl
PHP	Pure Data	★Python	Rebol	★Ruby	Rust
★Scala	Scheme	Smalltalk	Tcl	VCL	

<http://redis.io/commands>



LPUSH mylist "world" $O(1)$ ["world", 12, 99, 37]

LRANGE mylist 0 -1 $O(n)$ ["world", 12, 99, 37]

LPOP mylist $O(1)$ "world"

RPOP mylist $O(1)$ 37

LINDEX mylist 0 $O(n)$ 12

[“world”, 12, 99, 37]

SADD myset "other" $O(n)$ [“world”, 12, 99, 37, “other”]

SMEMBERS myset $O(n)$ [“world”, 12, 99, 37, “other”]

SREM myset “world” $O(n)$ [12, 99, 37, “other”]

SUNION [1, 3] [1, 4] $O(n)$ [1, 3, 4]

SUNION [1, 3] [1, 4] $O(n*m)$ [1]

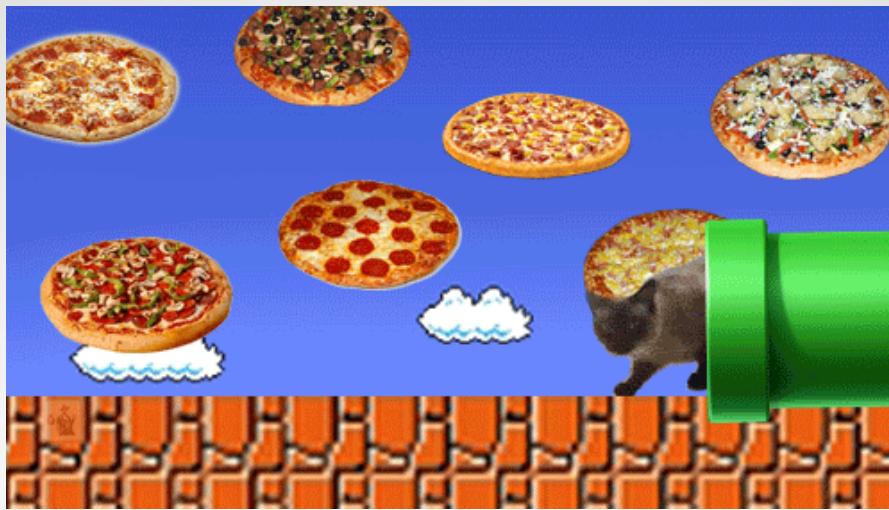
$[(1.1, \text{"hola"}), (9, \text{"other"})]$

ZADD myset 1.2 "world" $O(\log(N)) [(1.1, \text{"hola"}), (1.2, \text{"world"}), (9, \text{"other"})]$

ZRANK myset "other" $O(\log(N))$ 9

ZRANGE myset 0 -1 $O(\log(N)+M)$ ["hola", "world", "other"]

ZREVRANGE myset 0 -1 $O(\log(N)+M)$ ["other", "world", "hola"]



SADD myset “hola” “mundo” => [“hola”, “mundo”]

EXPIRE myset 30

#after 14 seconds

TTL myset => 16

exists myset => 1

#after 30 seconds

TTL myset => -2

exists myset => 0

CÓDIGO FUENTE

https://github.com/CaliRuby/marvel_redis

https://github.com/CaliRuby/marvel_sinatra

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Gracias!!