



**introducing
crystal**

<https://www.flickr.com/photos/rottinapples/5842941785/>

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<http://kateannexterrasochi.deviantart.com/art/Love-Outside-the-Lines-199279746>

Citus Data



An aerial photograph of the Hoover Dam, showing its massive concrete arch and the Colorado River flowing through the dam's泄洪道. In the background, the deep blue waters of Lake Mead are visible, surrounded by rugged, reddish-brown rock formations.

o v e r v i e w

<https://www.flickr.c>

A close-up photograph of a young blackbird chick. The chick has dark brown feathers, a bright yellow beak, and a small white patch on its wing. It is sitting on a bed of green grass and some dry leaves. The background is blurred green foliage.

what is crystal

?

Crystal 0.14.2
kemal-0.11.2

```
require "kemal"

get "/" do
  "Hello World!"
end
```

Kemal.run

ruby 2.3.0p0
puma-3.2.0
sinatra-1.4.7

```
require "sinatra"

get "/" do
  "Hello World!"
end
```

	Thread Stats	Avg	Stdev
Latency	532.88us	625.83us	
Req/Sec	11.42k	2.32k	
Requests/sec:	22713.64		
Transfer/sec:	2.17MB		

Real Memory Size:	2.8 MB
Virtual Memory Size:	2.40 GB
Shared Memory Size:	548 KB
Private Memory Size:	1.5 MB

	Thread Stats	Avg	Stdev
Latency	5.52ms	4.64ms	
Req/Sec	1.03k	223.53	
Requests/sec:	2059.20		
Transfer/sec:	372.02KB		

Real Memory Size:	144.6 MB
Virtual Memory Size:	2.49 GB
Shared Memory Size:	3.9 MB
Private Memory Size:	110.9 MB

MacBook Air (11-inch, Early 2015) (2.2 GHz Intel Core i7)
wrk -d 1m

First public commit 2012-09-04

Self hosted 2013-11-14

Boehm GC 2013-12-05

v0.1 first release 2014-06-19

v0.7.0 evented io 2015-04-30

v0.7.2 Will's first commit :) 2015-05-26

v0.14.2 current release 2016-03-23

