



What is it?

Elasticsearch is a flexible and powerful open source, distributed, real-time search and analytics engine, written in java.

It provides as full-text search engine with a RESTful web interface and schema-free JSON documents

```
" index": "users",
type": "user",
' id": "14".
"_score": 1,
" source": {
  "name": "Emma Watson"
" index": "users".
_type": "user",
" id": "4".
" score": 1.
" source": {
   "name": "Alexandr Kovtunov"
```

elasticsearch. Why do we need it?

- real time data

With Elasticsearch, real-time is the only time.

- scalable

It is built to scale horizontally out of the box. As you need more capacity, just add more nodes, and let the cluster reorganize itself to take advantage of the extra hardware.

- document-oriented

Store complex real world entities in Elasticsearch as structured JSON documents.

- schema free

Toss it a JSON document and it will try to detect the data structure, index the data and make it searchable



```
🕽 🗇 📵 alexandr@alexandr-Lenovo-IdeaPad-Y500: ~/RailsWork/tire_sample
alexandr@alexandr-Lenovo-IdeaPad-Y500: ~/RailsWork/tire_sample × alexandr@alexandr-Lenovo-IdeaPad-Y500: ~/RailsWork/cube
 % Total
                                    Dload Upload Total Spent Left Speed
100 4913 100 4913 0 0 1255k 0 --:--:--:--:--:-- 1599k
        "primaries": {
    "completion": {
                 "size in bytes": 0
                 "deleted": 0
             fielddata": {
    "evictions": 0,
                 "memory size in bytes": 0
             ;
"filter_cache": {
                 "evictions": 0,
                 "memory_size_in_bytes": 0
                 "total": 0,
"total_time_in_millis": 0
                 "current": 0,
"exists_time_in_millis": 0,
                 "exists_total": 0,
                 "missing_time_in_millis": 0.
                 "missing_total": 0,
"time in millis": 0,
                 "total": 0
                 "memory_size_in_bytes": 0
             "indexing": {
    "delete_current": 0,
                  "delete time in millis": 0.
                 "delete_total": 0,
                 "index_current": 0,
                 <u>"index</u>time_in_millis": 21,
                 "index total": 48
                 "current": 0.
                 "current_docs": 0,
                  "current_size_in_bytes": 0,
                 "total": 0,
                 "total docs": 0,
                  "total size in bytes": 0,
```

and many more!



Where can we get it?

www.elasticsearch.org

http://karmi.github.com/retire/

https://github.com/elasticsearch/elasticsearch-rails

https://github.com/bleskes/sense



So, let me show you some code;)