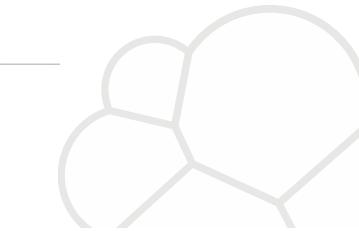


**David Pilato**  
Developer | Evangelist  
@dadoonet

make sense of  
your (BIG) data!





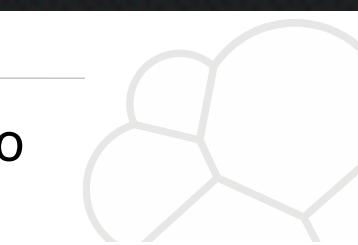


# data ?





```
{ "created_at": "Tue Jan 28 11:02:41 +0000 2014", "id": 428120942704087040, "text": "Take a look at the bio of #Codemotion first speakers: @dadoonet @ufried @altolabs @quasimondo", "user": { "name": "Codemotion ", "screen_name": "CodemotionRoma", "location": "italy", "description": "Codemotion \u20ac un evento rivolto a tutti gli sviluppatori di tutti i linguaggi. Un", "followers_count": 4636, "statuses_count": 3598, "lang": "it", }, "retweet_count": 2, "favorite_count": 0, "entities": { "user_mentions": [ { "screen_name": "dadoonet", "name": "David Pilato" }, { "screen_name": "ufried", "name": "Uwe Friedrichsen" }, { "screen_name": "altolabs", "name": "Alain Regnier" }, { "screen_name": "quasimondo", "name": "Mario Klingemann" }, { "screen_name": "vmg", "name": "Vicent Mart\u00f3n" }, { "screen_name": "saschawolter", "name": "Sascha Wolter" }, { "screen_name": "hhariri", "name": "Hadi Hariri" }, { "screen_name": "chrisdavidmills", "name": "Chris Mills" } ] }, "lang": "en" }
```



Busy Earnin' - Jun  
00:00

À écouter

Explorer

Top Écoutes

Radios

APPLICATIONS

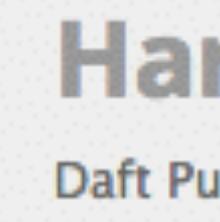
Découvrez nos apps

Shuffler.fm

BIBLIOTHÈQUE

David Pilato

S'abonner

Discovery  
par Daft PunkDaft Punk  
Discovery

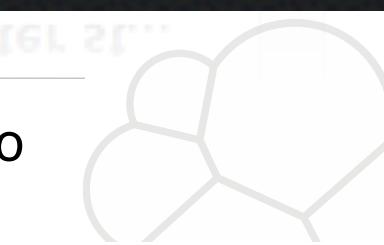
Partager

Partager

Ce titre est protégé



```
{  
  "id": "3135556",  
  "readable": true,  
  "title": "Harder Better Faster Stronger",  
  "isrc": "GBDUW0000059",  
  "link": "http://www.deezer.com/track/3135556",  
  "duration": "225",  
  "track_position": 4,  
  "disk_number": 1,  
  "rank": "783236",  
  "explicit_lyrics": false,  
  "preview": "http://cdn-preview-5.deezer.com/stream/51afcde9f56a132096c0496cc95eb24b-3.mp3",  
  "bpm": 123.5,  
  "gain": -6.48,  
  "artist": {  
    "id": "27",  
    "name": "Daft Punk",  
    "link": "http://www.deezer.com/artist/27",  
    "picture": "https://api.deezer.com/artist/27/image",  
    "radio": true,  
    "type": "artist"  
  },  
  "album": {  
    "id": "302127",  
    "title": "Discovery",  
    "link": "http://www.deezer.com/album/302127",  
    "cover": "https://api.deezer.com/album/302127/image",  
    "release_date": "2005-01-24",  
    "type": "album"  
  },  
  "type": "track"  
}
```







# THE GREAT TRIANGULAR DUEL

By CAPTAIN FREDERICK MARRYAT

JACK walked up to the boatswain, and, taking off his hat, with the utmost politeness, said to him: "If I mistake not, Mr. Biggs, your conversation refers to me."

"Very likely it does," replied the boatswain. "Listeners hear no good of themselves."

"It appears that gentlemen can't converse without being watched," continued Mr. Easthup, pulling up his shirt-collar."

"It is not the first time you have thought proper to make very offensive remarks, Mr. Biggs; and as you appear to consider yourself ill-treated in the affair of the trousers, for I tell you at once that it was I who brought them on board, I can only say," continued our hero, with a very polite bow, "that I shall be most happy to give you satisfaction."



**DevOps Borat**  
@DEVOPS\_BORAT

 Follow

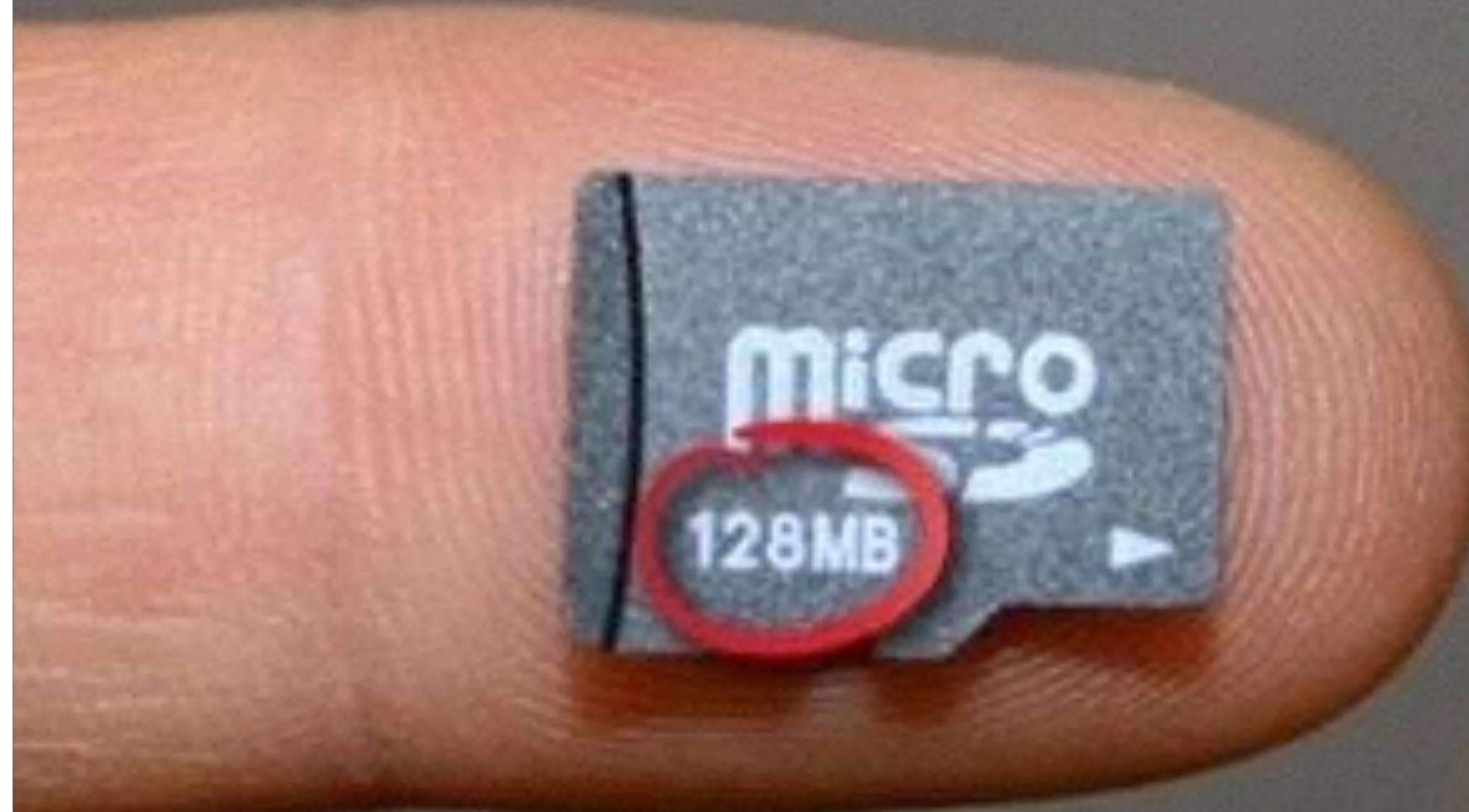
**Big Data is any thing which is crash Excel.**

6:25 PM - 8 Jan 2013

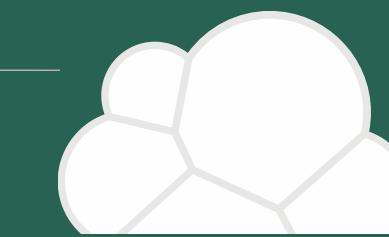
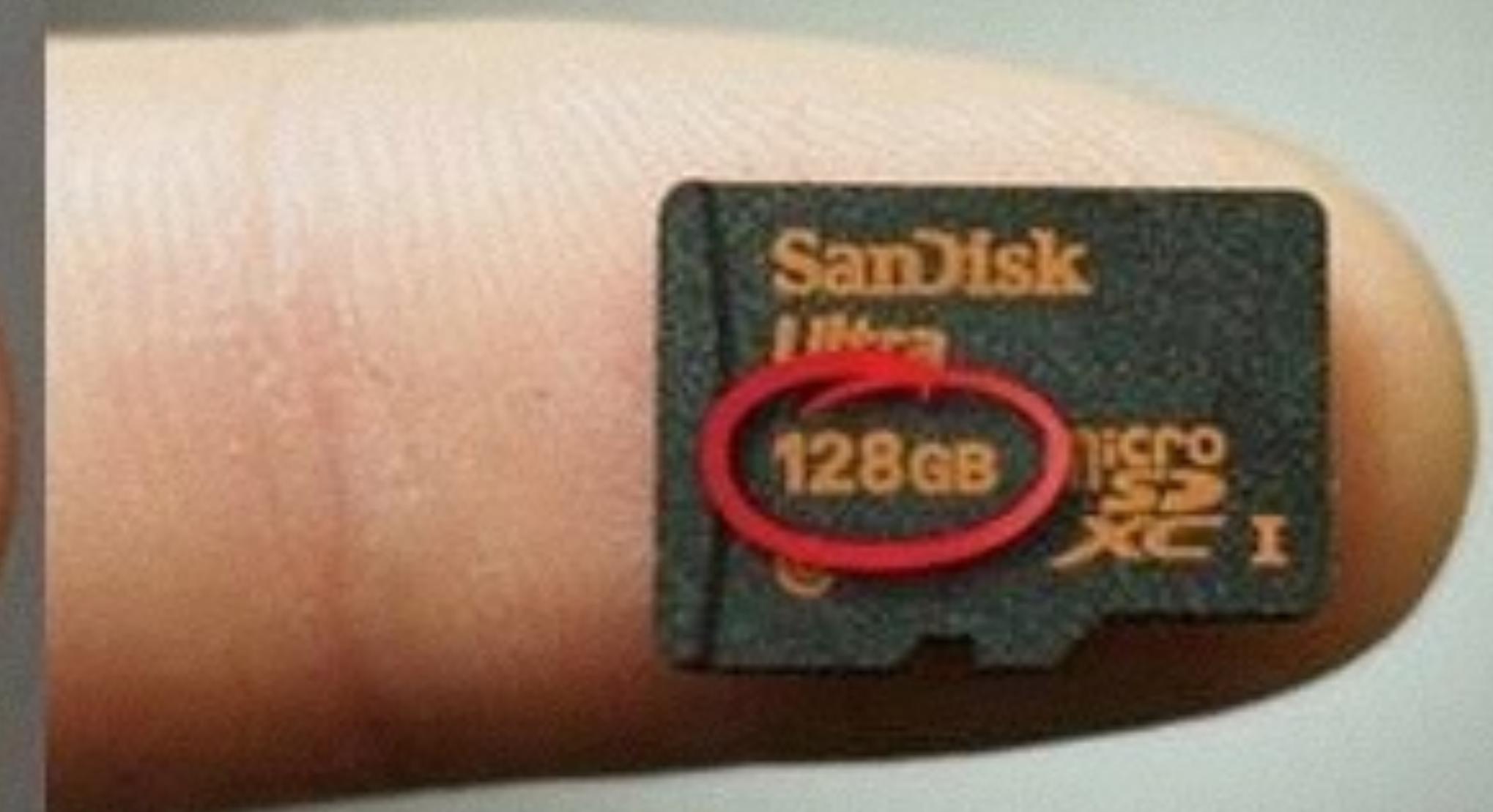
2,027 RETWEETS 454 FAVORITES



2005

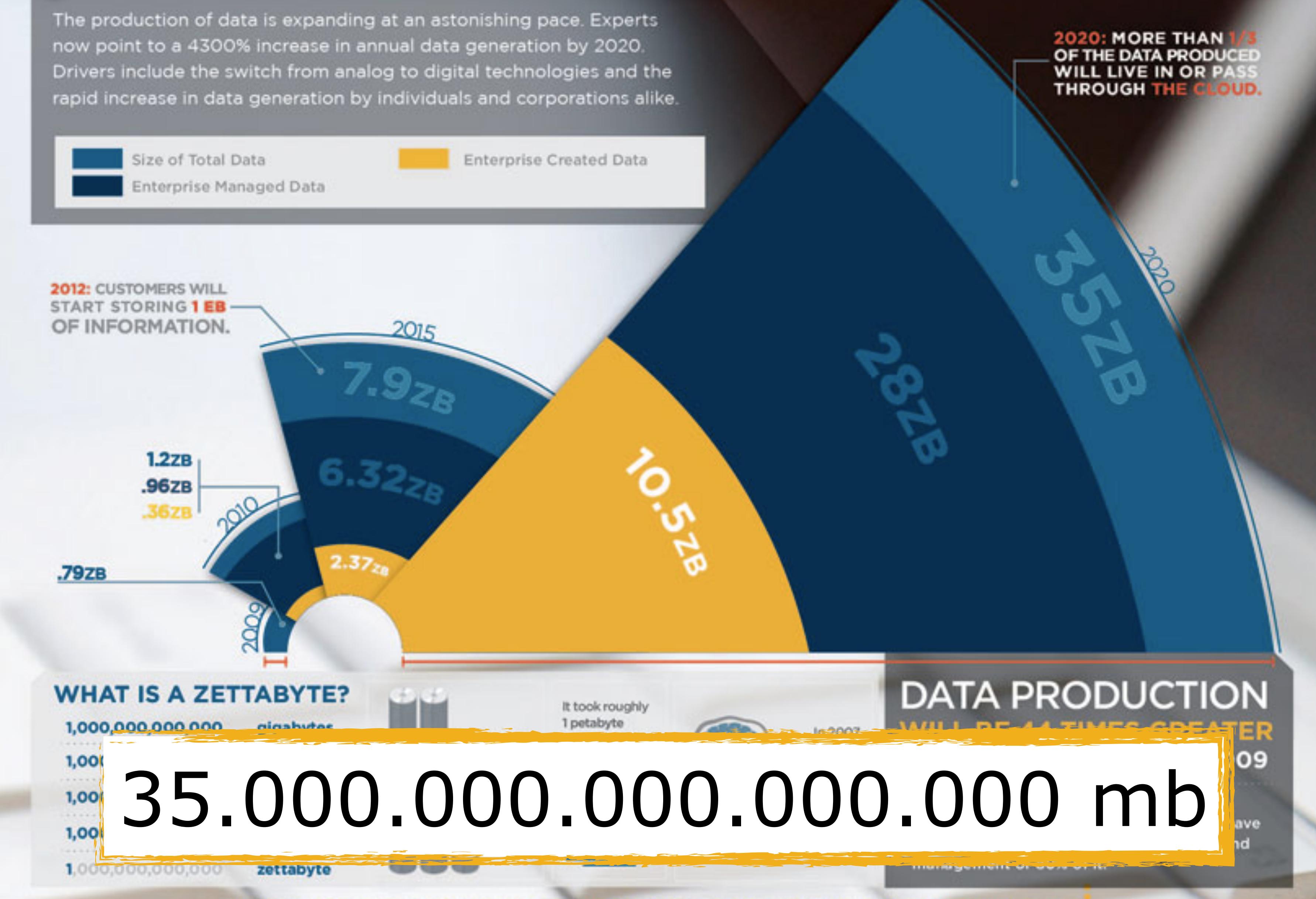


2014

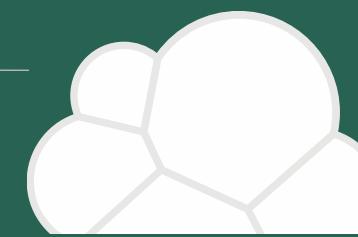


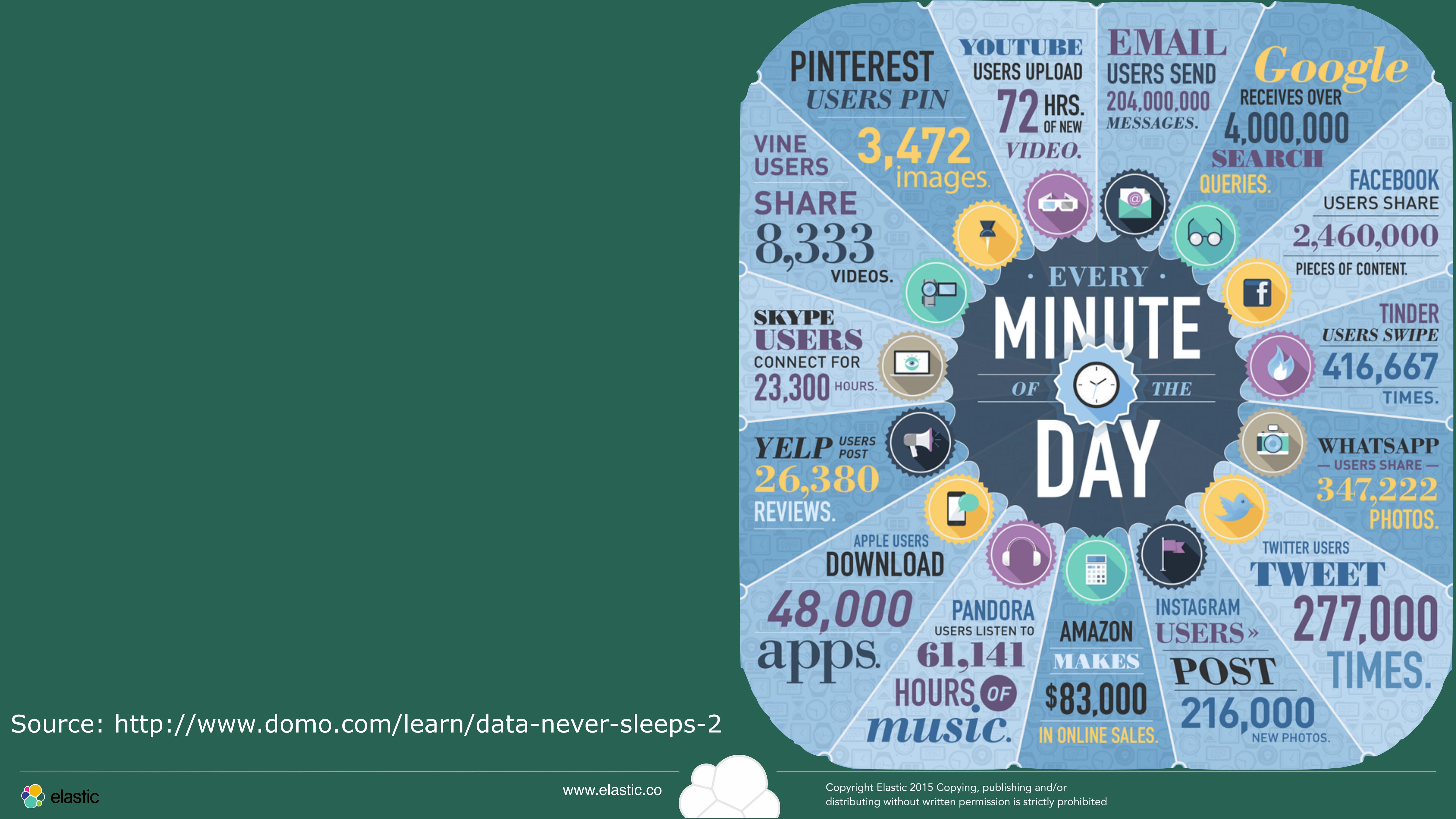
The production of data is expanding at an astonishing pace. Experts now point to a 4300% increase in annual data generation by 2020. Drivers include the switch from analog to digital technologies and the rapid increase in data generation by individuals and corporations alike.

**2020: MORE THAN 1/3 OF THE DATA PRODUCED WILL LIVE IN OR PASS THROUGH THE CLOUD.**



Source: [http://www.csc.com/insights/flxwd/78931-big\\_data\\_just\\_beginning\\_to\\_explode](http://www.csc.com/insights/flxwd/78931-big_data_just_beginning_to_explode)

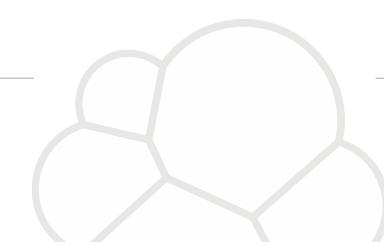






# search = like % ?

```
SELECT
  doc.* , country.*
FROM
  doc, country
WHERE
  doc.country_code = country.code AND
  doc.date_doc > to_date('2011-12', 'yyyy-mm') AND
  doc.date_doc < to_date('2012-01', 'yyyy-mm') AND
  lower(country.name) = 'france' AND
  lower(doc.comment) LIKE '%product%' AND
  lower(doc.comment) LIKE '%david%';
```



# search engine?

1964

**B**

Back-Up Lights.....	9
Battery.....	70, 97
Body Construction.....	82A
Body Insulation.....	87
Body Sealing.....	87
Body Styles.....	26-49
Brake Drums.....	76, 77, 102
Brake Lining.....	77, 102
Brakes.....	76, 77, 102
Brakes, Parking.....	76, 77, 102
Brakes, Power.....	76, 77, 102
Bucket Seat Console.....	25
Bucket Seats.....	35-39, 45
Bumpers.....	9

**A**

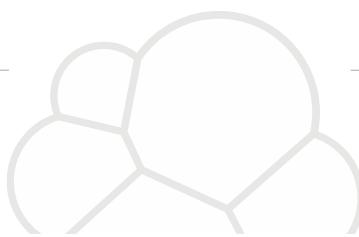
Accessory Groups.....	63
Additional Accessories.....	62
Adjustable Steering Wheel.....	54
Air Cleaner.....	95
Air Conditioner-Heater System.....	52, 53
Ash Receivers.....	23
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Automatic Headlamp Timer.....	51
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**B**

Back-Up Lights.....	9
Battery.....	70, 97
Body Construction.....	82A
Body Insulation.....	87
Body Sealing.....	87
Body Styles.....	26-49
Brake Drums.....	76, 77, 102
Brake Lining.....	77, 102
Brakes.....	76, 77, 102
Brakes, Parking.....	76, 77, 102
Brakes, Power.....	76, 77, 102
Bucket Seat Console.....	25
Bucket Seats.....	35-39, 45
Bumpers.....	9

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Cooling.....	95, 96



plug & play

scalable

# elasticsearch

## Apache 2 license

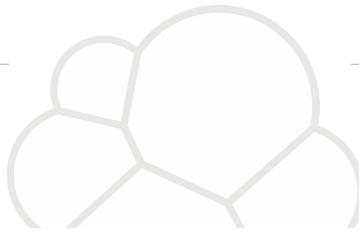
REST/JSON

Lucene



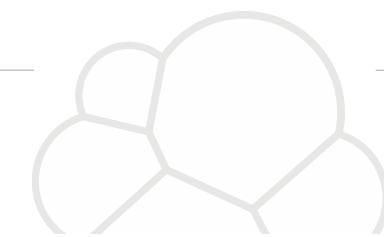
# start...

```
$ wget https://download.elastic.co/elasticsearch/elasticsearch/elasticsearch-1.5.2.tar.gz
$ tar -xf elasticsearch-1.5.2.tar.gz
$ ./elasticsearch-1.5.2/bin/elasticsearch
[INFO ][node      ][Ghost Maker] version[1.5.2], pid[72965], ...
[INFO ][transport][Ghost Maker] publish_address {[/127.0.0.1:9300]}
[INFO ][http      ][Ghost Maker] publish_address {[/127.0.0.1:9200]}
[INFO ][node      ][Ghost Maker] started
```



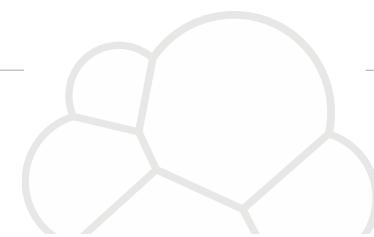
# ... and play!

```
$ curl -XPUT localhost:9200/sessions/session/1 -d '{
  "title"      : "Elasticsearch",
  "subtitle"    : "Make sense of your (BIG) data !",
  "date"        : "2015-06-04T12:00:00",
  "tags"        : [ "elasticsearch", "realtime", "bigdata" ],
  "speakers"    : [ {
    "first_name" : "David",
    "last_name"  : "Pilato"
  } ]
}'
```



# search!

```
$ curl http://localhost:9200/sessions/session/_search -d'  
{  
  "query": {  
    "multi_match": {  
      "query": "elasticsearch bigdata david",  
      "fields": [ "title^3", "tags^2", "speakers.first_name" ]  
    }  
  },  
  "post_filter": {  
    "range": {  
      "date": {  
        "from": "2015-01-01",  
        "to": "2015-12-01"  
      }  
    }  
  }  
}
```



# compute?

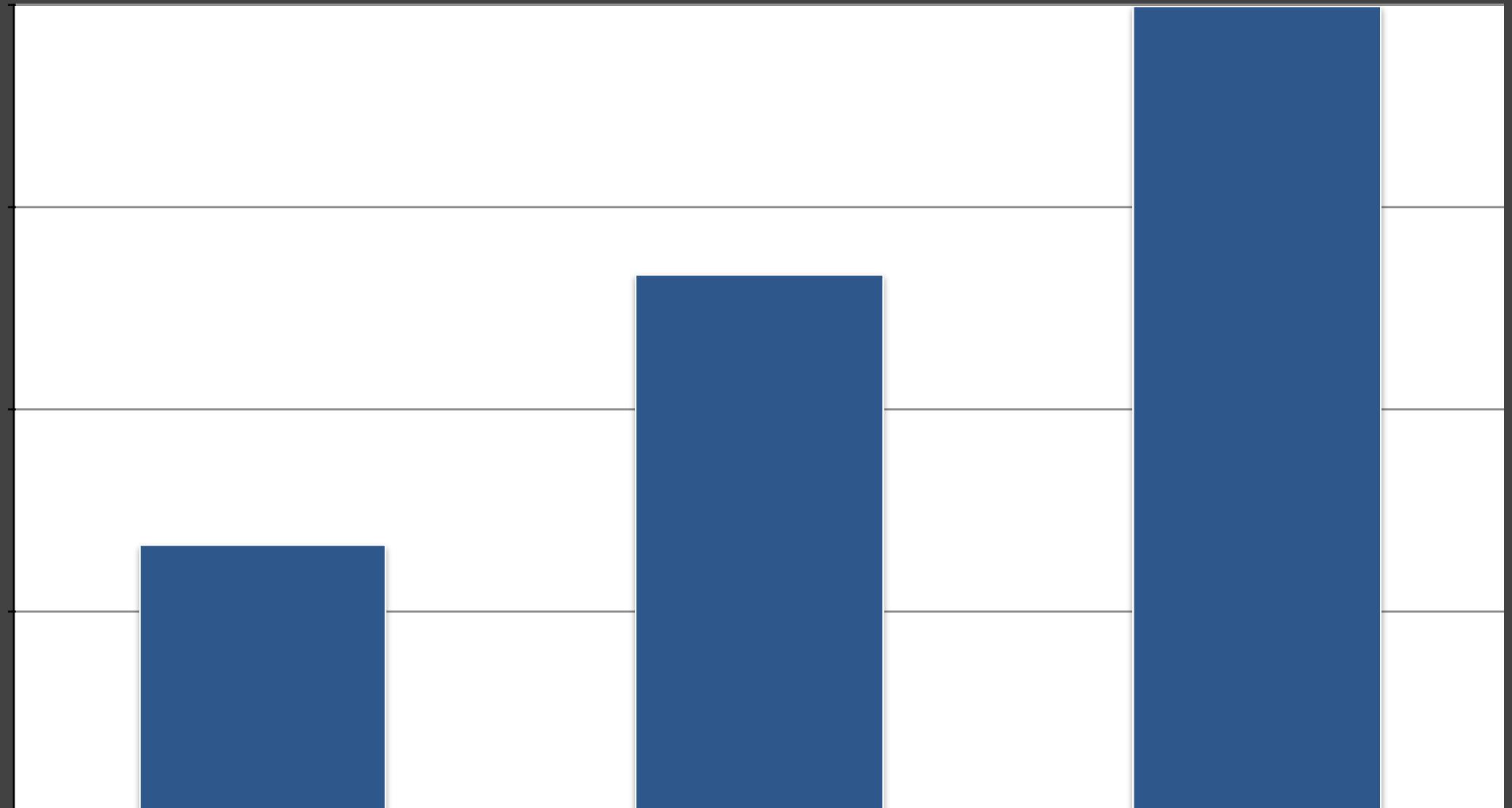
## **B**

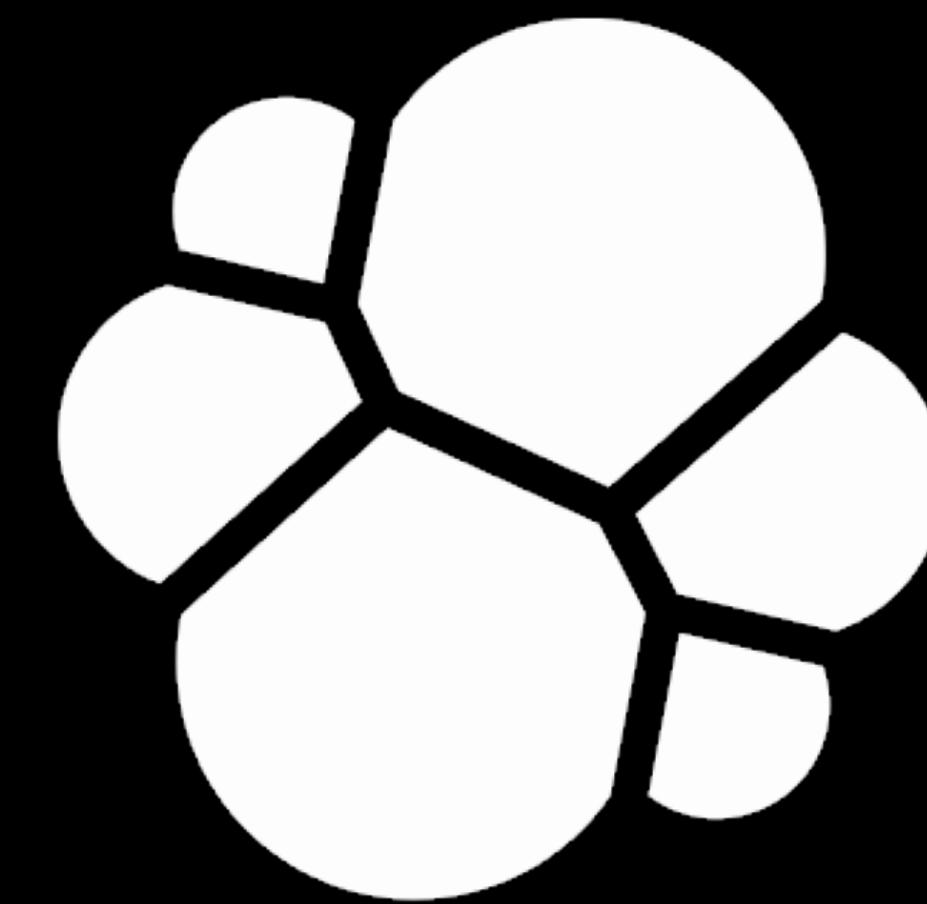
<b>Back-Up Lights.....</b>	<b>9</b>
<b>Battery.....</b>	<b>70, 97</b>
<b>Body Construction.....</b>	<b>82A</b>
<b>Body Insulation.....</b>	<b>87</b>
<b>Body Sealing.....</b>	<b>87</b>
<b>Body Styles.....</b>	<b>26-49</b>
<b>Brake Drums.....</b>	<b>76, 77, 102</b>
<b>Brake Lining.....</b>	<b>77, 102</b>
<b>Brakes.....</b>	<b>76, 77, 102</b>
<b>Brakes, Parking.....</b>	<b>76, 77, 102</b>
<b>Brakes, Power.....</b>	<b>76, 77, 102</b>
<b>Bucket Seat Console.....</b>	<b>25</b>
<b>Bucket Seats.....</b>	<b>35-39, 45</b>
<b>Bumpers.....</b>	<b>9</b>



# compute!

```
$ curl http://localhost:9200/sessions/session/_search -d'  
{  
  "query": { ... },  
  "aggs": {  
    "by_date": {  
      "date_histogram": {  
        "field": "date",  
        "interval": "day",  
        "format": "dd/MM/yyyy"  
      }  
    }  
  }  
}  
  "by_date": [  
    { "key_as_string": "03/01/2015", "doc_count": 1 },  
    { "key_as_string": "12/01/2015", "doc_count": 2 },  
    { "key_as_string": "16/01/2015", "doc_count": 3 }  
]
```





elastic

# Let's make sense of ...

- logs
- twitter
- github
- marketing data
- ...
- your data
- your big data

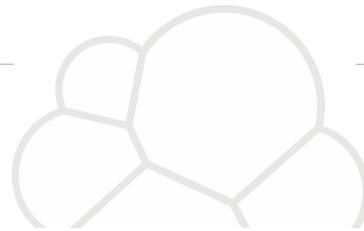
```
{  
  "name": "Pilato David",  
  "dateOfBirth": "1971-12-26",  
  "gender": "male",  
  "children": 3,  
  "marketing": {  
    "fashion": 334,  
    "music": 3363,  
    "hifi": 2351  
  },  
  "address": {  
    "country": "France",  
    "city": "Paris",  
    "location": [2.332395, 48.861871]  
  }  
}
```



# Demo

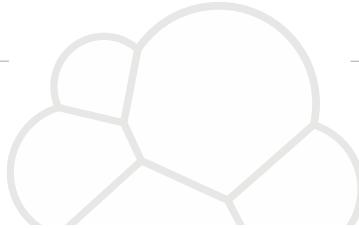
Make sense of your (BIG) data!

Let's inject 1 000 000 marketing documents

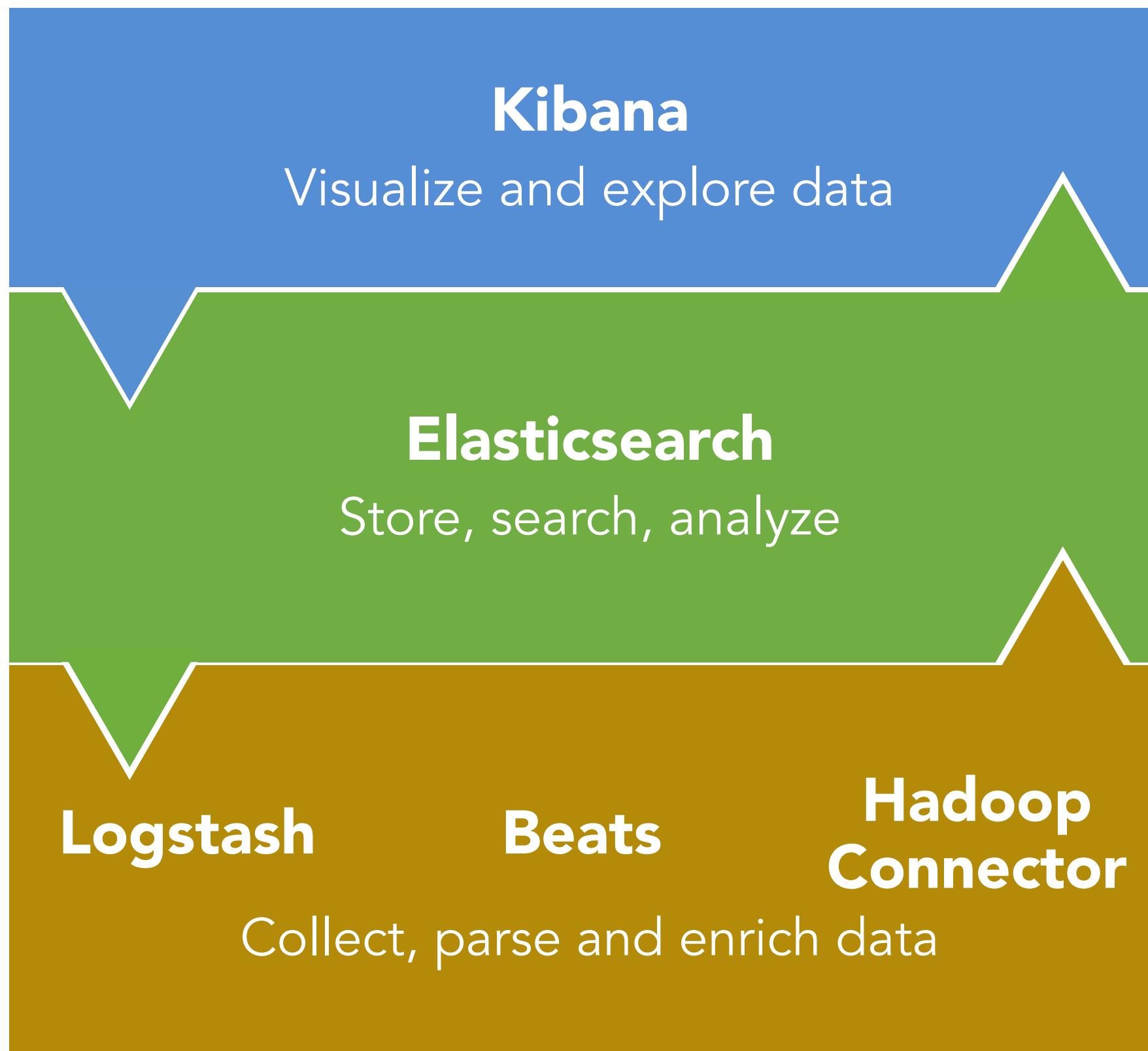


# Demo

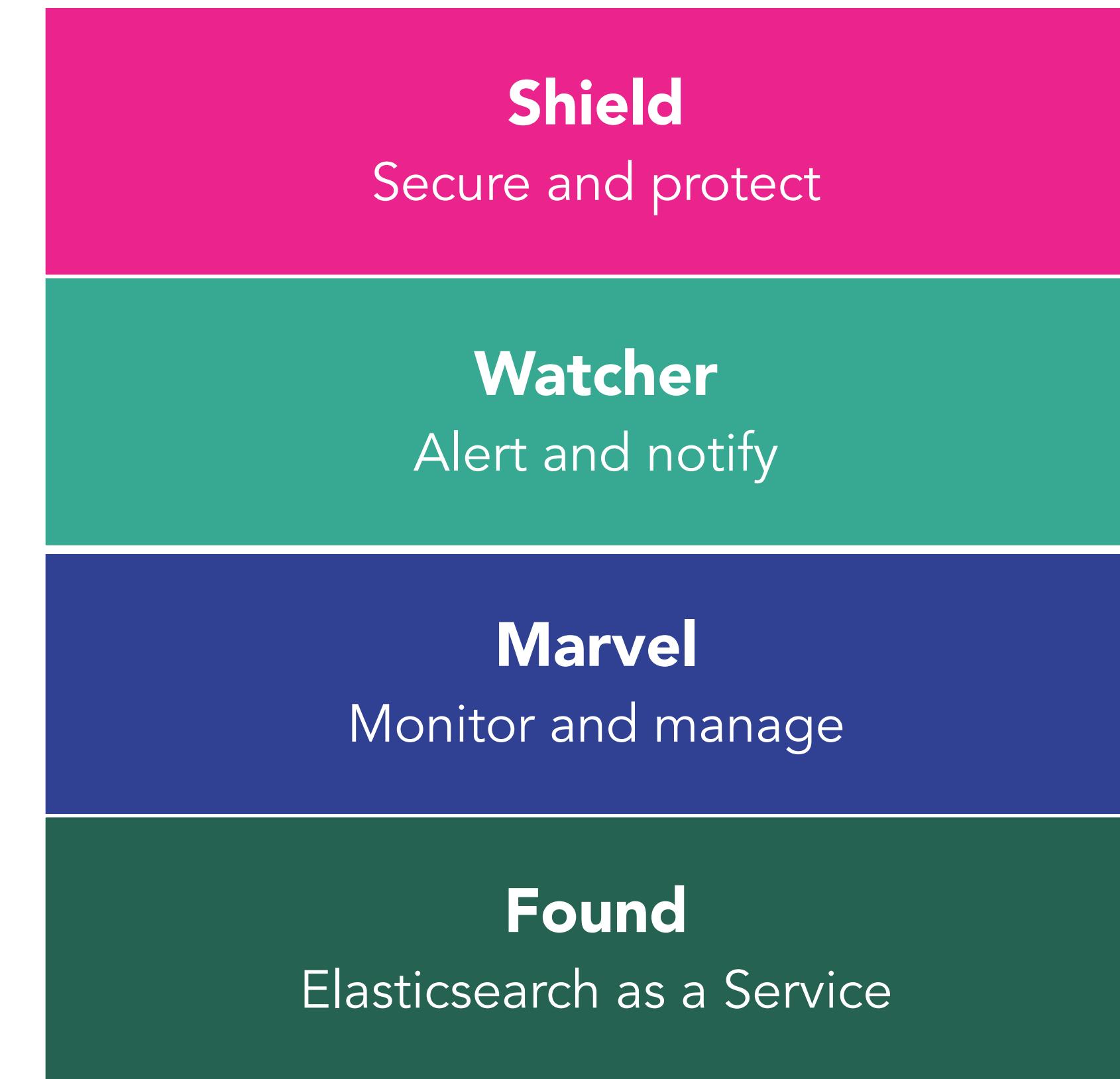
# elasticsearch



# Open Source Products



# Commercial Products



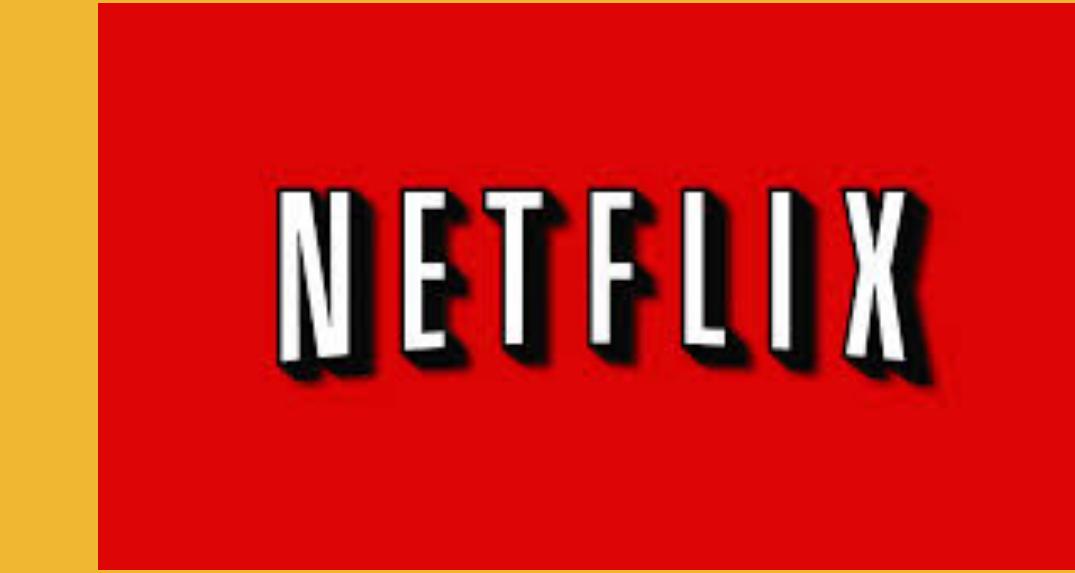
**Training**

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**Support Subscriptions**

FOR BUILDING SCALABLE, DISTRIBUTED SYSTEMS





**David Pilato**  
Developer | Evangelist  
@dadoonet

# Thank you!

<https://www.elastic.co/subscriptions>

