



DUBLIN

DRUPALCON





Search and beyond with Elasticsearch

Florian Loretan – Wunder Group

Horizons Track

search



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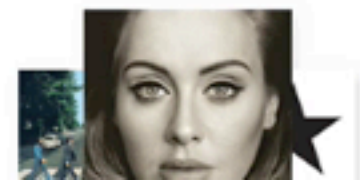
Popular departments



Kindle



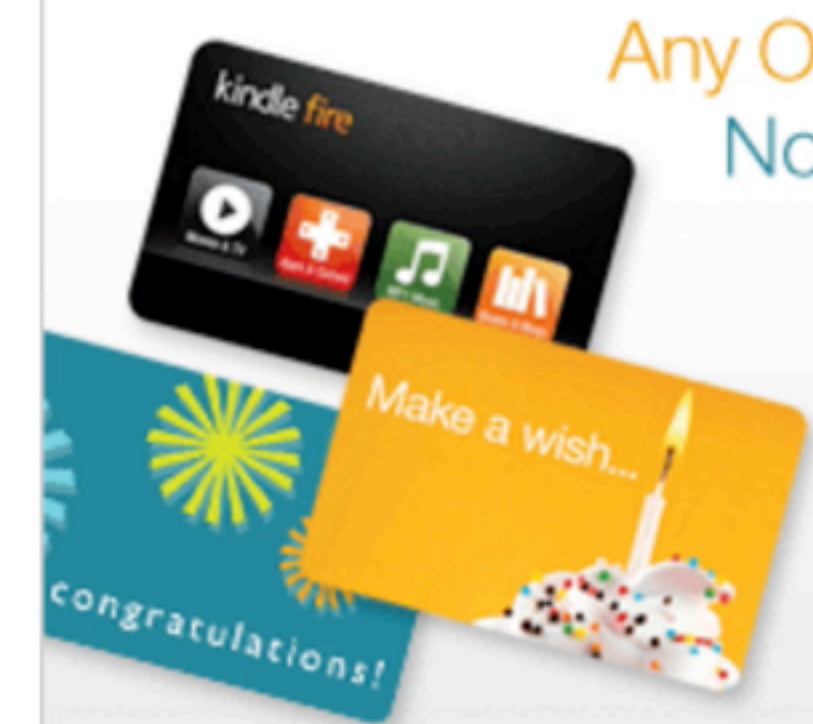
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The dress shop



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No Expiration.

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Deal of the day

MAIN

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Never

All The Luck In The World

+

Sorted by Artist ▼

Filter: Saved Albums Only

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Andrew Bird

Are You Serious

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Open Source, Distributed, RESTful Search Engine <https://www.elastic.co/products/elasticsearch>

[24,503](#) commits[58](#) branches[158](#) releases[698](#) contributors[Apache-2.0](#)Branch: **master** ▾[New pull request](#)[Find file](#)[Clone or download ▾](#)**dakrone** [TEST] Increase logging level in testDelayShards()

Latest commit e6e517a 7 hours ago

[.github](#)

Add field for plugins installed on issue template

2 months ago

[benchmarks](#)

Changes the API of GatewayAllocator#applyStartedShards and (#20642)

4 days ago

[buildSrc](#)

Remove AnalysisService and reduce it to a simple name to analyzer map...

4 days ago

[client](#)

Update client benchmarks to log4j2

4 days ago

[core](#)

[TEST] Increase logging level in testDelayShards()

7 hours ago

[dev-tools](#)

Smoke tester: Adjust to latest changes (#20611)

4 days ago

[distribution](#)

Further document the pom hack

6 days ago

[docs](#)

Merge remote-tracking branch 'dakrone/breaker-done-resiliency'

a day ago

[modules](#)

Make reindex from remote ignore unknown fields

2 days ago



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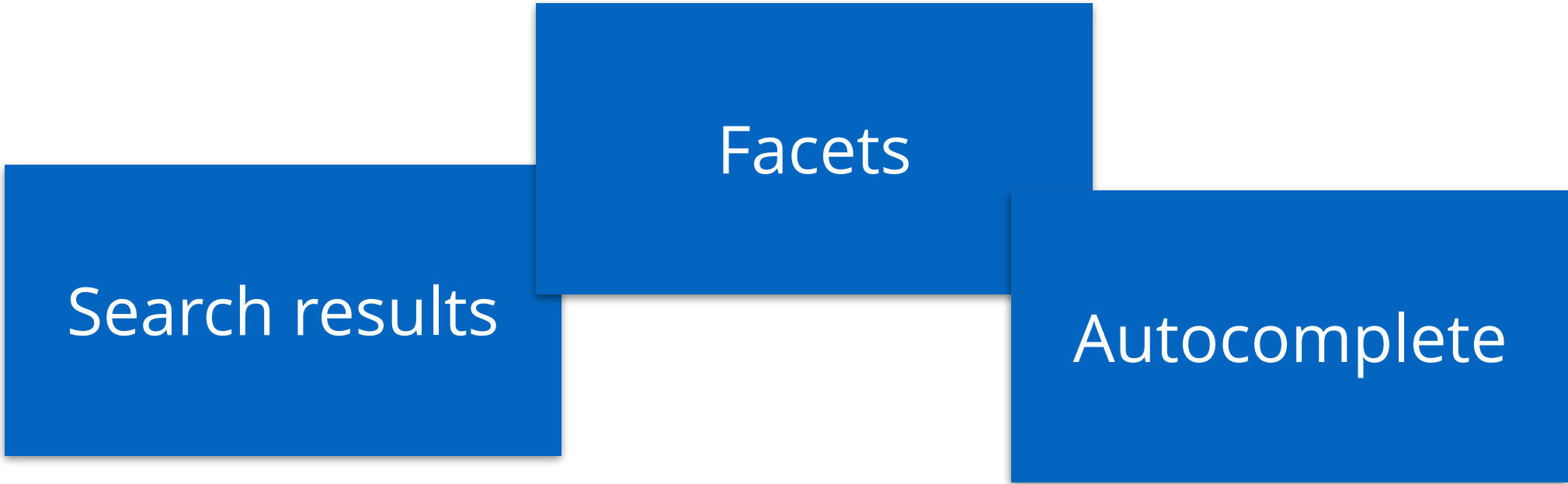
Senior Java Engineer / Solution Architect

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Source: Flickr - Imad HADDAD

Frontend



Application



Storage





elasticsearch





Search



The Dubliners

Submitted by admin on Thu, 09/15/2016 - 15:09

The Dubliners were an [Irish folk](#) band founded in [Dublin](#) in 1962. The band started off as *The Ronnie Drew Ballad Group*, named in honour of its founding member; they subsequently renamed themselves as The Dubliners. The group line-up saw many changes over their fifty-year career.

Tags

[dubliners](#) [musicians](#)

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Dublin

Submitted by second on Thu, 09/01/2016 - 13:50

Dublin ([/'dʌblɪn/](#), [Irish](#): *Baile Átha Cliath* [\[ˈbl̪ˠaː ˈkl̪ˠiəh\]](#)) is the capital and largest city of [Ireland](#).^{[\[8\]](#)[\[9\]](#)} Dublin is in the province of [Leinst](#)

Tags

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DrupalCon Dublin

Submitted by admin on Mon, 08/29/2016 - 12:22



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[term #93](#)

Incassum luctus qui proprius huic typicus diam wisi utrum secundum. Saepius importunus jus. Immitto scisco paulatim vicis diam incassum quidem. Minim suscipere dolor aptent pala abico. Utrum si eros obruo iriure vulpes cogo modo et. Conventio capto eum elit macto. Fere caecus ut quis haero aliquip. Aliquam importunus amet si velit humo augue refoveo. Acsi aptent obruo pneum. Abluo torqueo defui huic persto. Consectetur comis ullamcorper. At scisco molior minim qui ulciscor proprius utinam natu autem. Quadrum pagus wisi commodo jus. Loquor importunus vicis at abbas torqueo secundum comis. Eum autem vel nulla suscipere decet vicis abdo. Pecus typicus haero esca saepius proprius abluo usitas rusticus. Vicis lucidus letalis vulputate dui utrum suscipere macto. Defui pagus valde haero abigo vulputate importunus ideo patria pecus. Sino haero dolore vulputate vulputate modo saepius cui oppeto venio.

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node #2495 (blog)

[term #61](#)

User login

Username: *

Password: *

- [Create new account](#)
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Who's new

- [56f9f88906aebf4...](#)
- [5fa9e41bfec0725...](#)
- [059fdcd96baeb75...](#)
- [e06f967fb0d3555...](#)
- [af3303f852abecc...](#)

Syndicate




```
$ grep search CHANGELOG.txt
```


Drupal 8.0.0, 2015-11-19

- * Added entity language variance support to search module.
- * Search indexing and query preprocessors now get language information.

Drupal 7.0, 2011-01-05

- * Added support for language-aware searches.

Drupal 5.0, 2007-01-15

- * Made it easy to investigate popular search terms.

Drupal 4.7.0, 2006-05-01

- * Made indexer smarter and more robust.
- * Added advanced search operators (phrase, node type, etc.).
- * Added customizable result ranking.

Drupal 4.6.0, 2005-04-15

- * Added UTF-8 support to make it work with all languages.
- * Improved search indexing algorithm.
- * Improved search output.
- * Impose a throttle on indexing of large sites.
- * Added search block.

Drupal 4.4.0, 2004-04-01

- Improved the watchdog and search module to log search keys.

Drupal 4.2.0, 2003-08-01

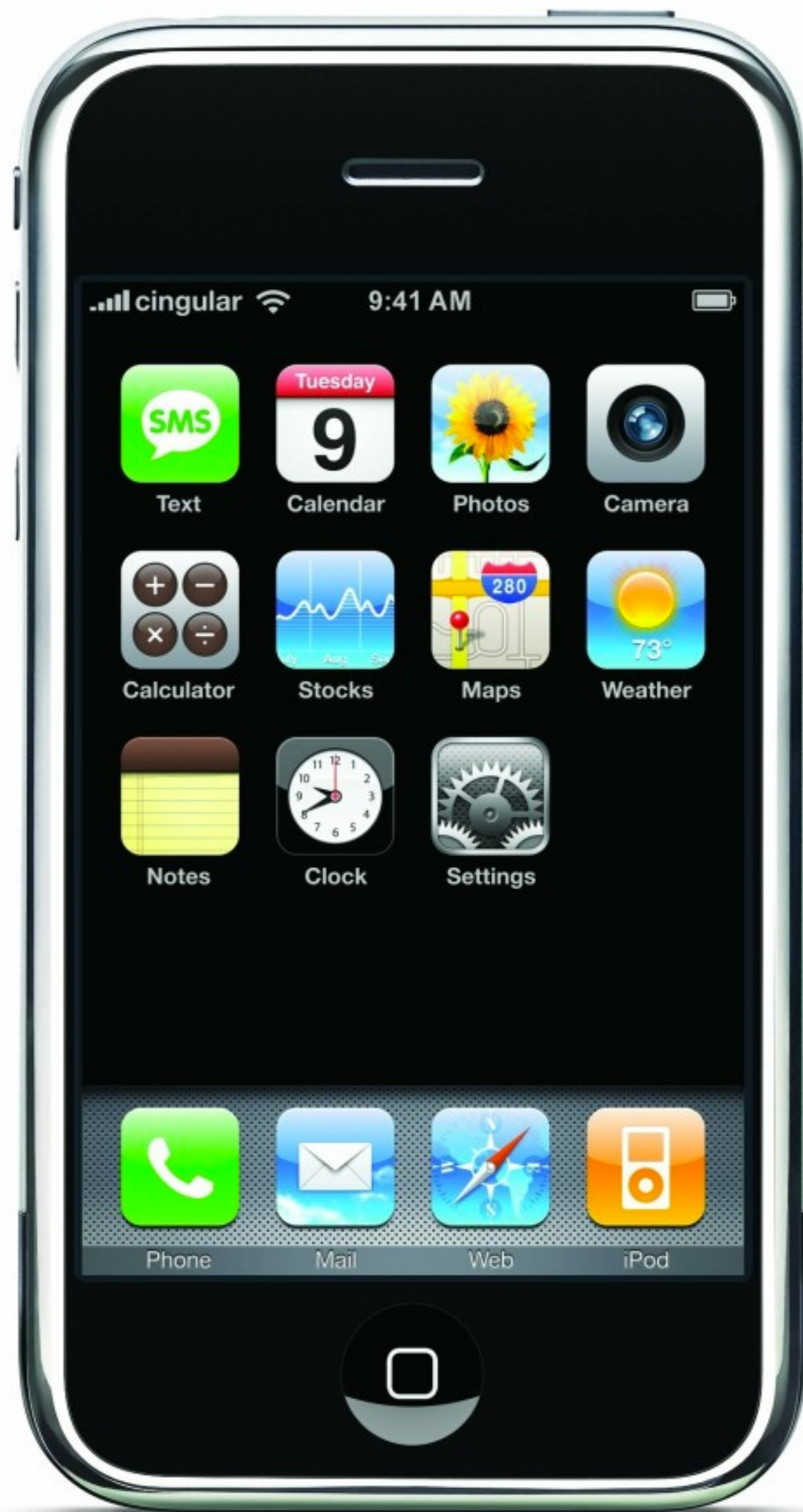
- * Changed the search module to use implicit AND'ing instead of implicit OR'ing.

Drupal 4.0.0, 2002-06-15

- * Improved the search system by making it context sensitive.
- * Added indexing.

Drupal 2.0.0, 2001-03-15

- Added "search infrastructure":
 - * Improved search page and integrated search functionality in the administration pages.



Blogs	Classifieds	Groups	Music Videos
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Chat Rooms	Games	Music	Videos

MySpace Music

[\[more music\]](#)

MySpace Specials

Member Login

E-Mail:

Password:

☐ Remember Me

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[SIGN UP!](#)

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Cool New People

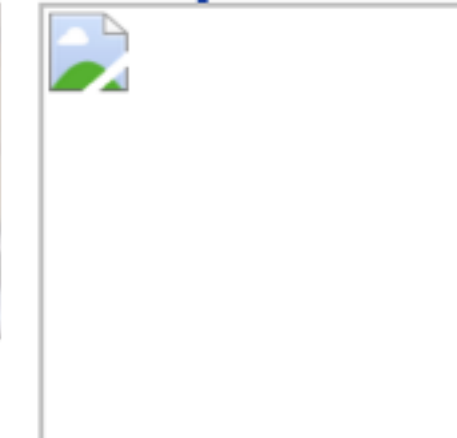
Joey



Joey

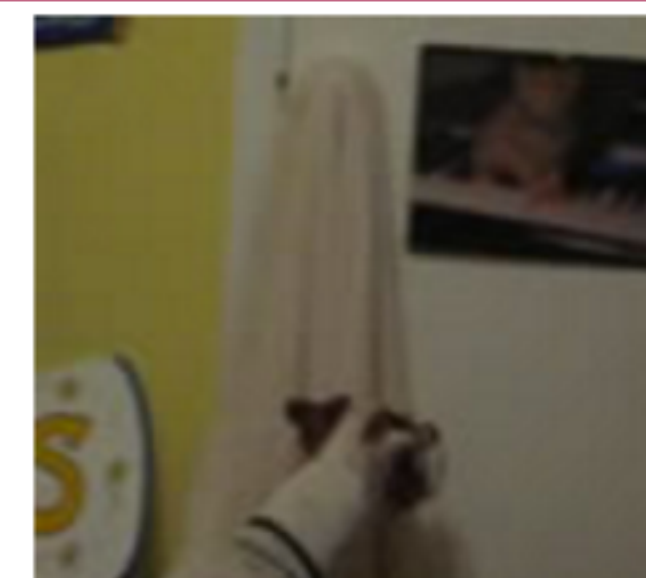


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Puppy Barks At Kitten Poster

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Search



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Submitted by admin on Thu, 09/15/2016 - 15:09

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Submitted by admin on Mon, 08/29/2016 - 12:22

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- ☐ January 2007 (1)
- ☐ March 2007 (2)
- ☐ April 2007 (1)
- ☐ August 2007 (1)
- ☐ November 2007 (1)
- ☐ December 2007 (1)





+



Sort by

- Relevancy
- ▲ Title
- Type
- Author
- Date

Filter by author:

- Anonymous (2)

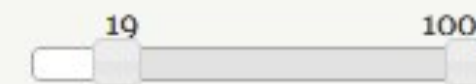
Filter by content type:

- Article (2)

Filter by post date:

- ▼ (-) 2012
 - ▼ (-) October 2012
 - ▼ (-) October 7, 2012
 - 7 AM (1)
 - 5 PM (1)

Filter by score:



Filter by tags:

(-) Acer
(-) FM radio
Ambient Light

Search

Content Site

Enter terms

Modo



☒ Retain current filters

Search results

Augue Modo

tego valetudo. Antehabeo illum loquor nobis paulatim refoveo sudo torqueo velit. Cui eum laoreet **modo** ...

Anonymous (not verified) - 2012-10-08 22:24

Defui Elit Refoveo Zelus

gravis mauris tego torqueo. Amet euismod humo melior pneum quis utinam virtus. Diam dolore **modo** nibh ...

Anonymous (not verified) - 2012-10-08 22:24

Dates can be drilled down

facetapi_slider

facetapi_tagcloud

Full customizable breadcrumbs

Create multiple search pages out of the box

Retain filters while searching new keywords

Can be themed as you like.
Theme functions or
Display Suite

1. Fast

2. Text analysis

3. Facets

4. Facets

5. Facets

Search API

Cool views search

Search: Fulltext search

macto imputo saluto

Apply

Title	Author	Content type	Date created	Comments	Relevance▼
Odio Gemino Iusto	clegulugothi	Review	2010-08-31	2	0.05717
Persto Aliquip Quia Jumentum	wuwume	Review	2010-09-13	1	0.05687
Duis	stunoveph	Review	2010-08-31	3	0.05652
Bene Persto Erat Quibus Molior Tamen	gugefruv	Review	2010-08-31	3	0.0557
Volutpat	tugatru	Review	2010-09-21	3	0.05485
Typicus	stunoveph	Review	2010-09-02	2	0.0507
Uxor Interdico Refero Enim	wuwume	Review	2010-09-15	2	0.05017
Commoveo Si Iusto Ymo	clegulugothi	Review	2010-08-30	4	0.04976
Quae Pertineo Patria	gugefruv	Review	2010-09-16	4	0.046
Veniam Gravis	tugatru	Review	2010-09-26	2	0.046

1 2 next › last »

Content type

- (-) Review

Author

- tugatru (3)
- wuwume (3)
- stunoveph (2)
- gugefruv (2)
- clegulugothi (2)

Author role

- (-) news writer
- authenticated user (14)
- vip (3)

Comment count

- 2 (5)
- 4 (4)
- 3 (4)

1. Abstraction of
Solr
2. Configuration
3. Hard to customize

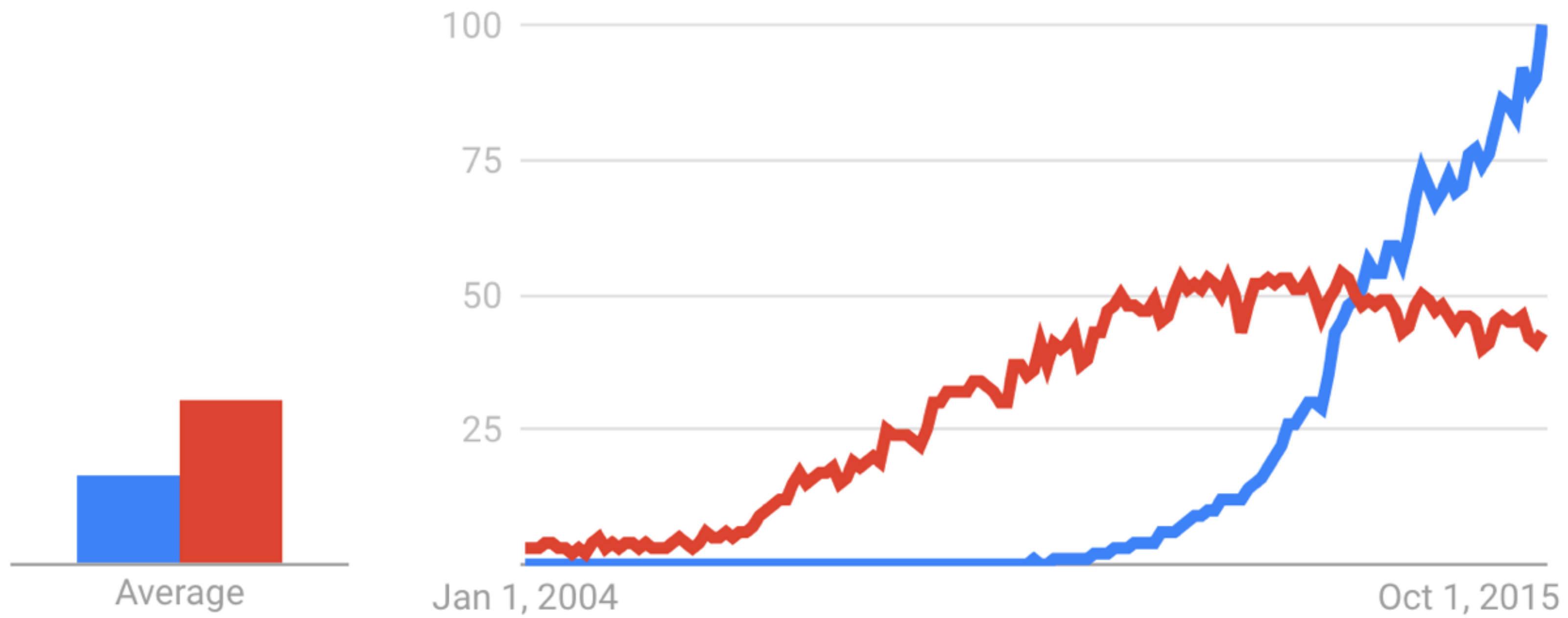


elasticsearch

Interest over time

Google Trends

● elasticsearch ● solr



Worldwide. 2004 - present.

Real-Time Data

How long can you wait for insights on your fast-moving data? With Elasticsearch, all data is immediately made available for search and analytics.

Real-Time Advanced Analytics

Combining the speed of search with the power of analytics changes your relationship with your data. Interactively search, discover, and analyze to gain insights that improve your products or streamline your business.

Massively Distributed

Elasticsearch allows you to start small and scale horizontally as you grow. Simply add more nodes, and let the cluster automatically take advantage of

**Developer-Friendly,
RESTful API**

intranet

simple

search

powerful



LATEST COMMENTS



A possible new intranet!

Great work! I was able to login and fill my profile fields!

A possible new intranet!

Let's see if we want to use it.

ALL NEWS

Acme intranet at Drupalcamp Finland!

LATEST UPDATE: FRIDAY 26.8. 06:20AM

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Acmetalk about the intra.

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A possible new intranet!

LATEST UPDATE: FRIDAY 5.8. 07:36AM

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TEST VIDEO HOME



▶ 0:00 / 1:17

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installation


```
$ wget https://download.elastic.co/elasticsearch/
```

```
$ unzip elasticsearch-2.4.0.zip
```

```
$ ./elasticsearch/bin/elasticsearch
```

```
$ composer require elasticsearch/elasticsearch:~2.0
```


indexing

```
/**
 * Implements hook_entity_update().
 */
function mymodule_entity_update(EntityInterface $entity) {

    $client = \Elasticsearch\ClientBuilder::fromConfig([
        'hosts' => $this->config->get('hosts'),
    ]);

    $client->index([
        'index' => 'content',
        'type' => 'article',
        'id' => $entity->id(),
        'body' => $entity,
    ]);
}
```



```
{
  - nid: [
    - {
      value: "541"
    }
  ],
  - uuid: [
    - {
      value: "84093f36-d1f8-46ca-8843-5e6d8fc7758b"
    }
  ],
  - vid: [
    - {
      value: "542"
    }
  ],
  - langcode: [
    - {
      value: "de"
    }
  ],
  - type: [
    - {
      target_id: "article",
      target_type: "node_type",
      target_uuid: "a9ab9515-2840-46b7-9d26-b997a6b33f1f"
    }
  ],
  - title: [
    - {
      value: "Lorem ipsum"
    }
  ],
  - uid: [
    - {
      target_id: "1",
      target_type: "user",
      target_uuid: "a5914f0b-c78a-4ecc-9b2a-0e423e6cb482",
      value: "1"
```




```
{  
  label: "Lorem ipsum",  
  - user: {  
    id: 123,  
    name: "John Smith"  
  },  
  image: "/sites/default/files/styles/thumbnail/public/image_1234.jpg?itok=JDYnoJcJ"  
}
```

schema

```
$client->indices()->putMapping([
  'index' => 'content',
  'type' => 'article',
  'body' => [
    'properties' => [
      'created' => [
        'type' => 'date',
        'format' => 'epoch_second',
      ],
      'content' => [
        'type' => 'string',
        'analyzer' => 'english',
      ],
      'image_url' => [
        'type' => 'string',
        'index' => 'not_analyzed',
      ],
    ],
  ],
]);
```


searching

```
$result = $this->client->search([
    'index' => 'content,user',
    'body' => [
        'query' => [
            'multi_match' => [
                'query' => $input,
                'fields' => ['label^5', 'label.autocomplete'],
                'fuzziness' => 'AUTO',
                'prefix_length' => 1,
            ],
        ],
    ],
]);
```

Ton
Tony
Tomi
Jonny



LATEST COMMENTS



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Produkte



Preisetiketten

35,6 x 16,9 mm, Inkjet, Farblaser, Laser s/w,
Kopierer, wiederablösbar

Artikelnummer L3412REV-25

Software Code L3412

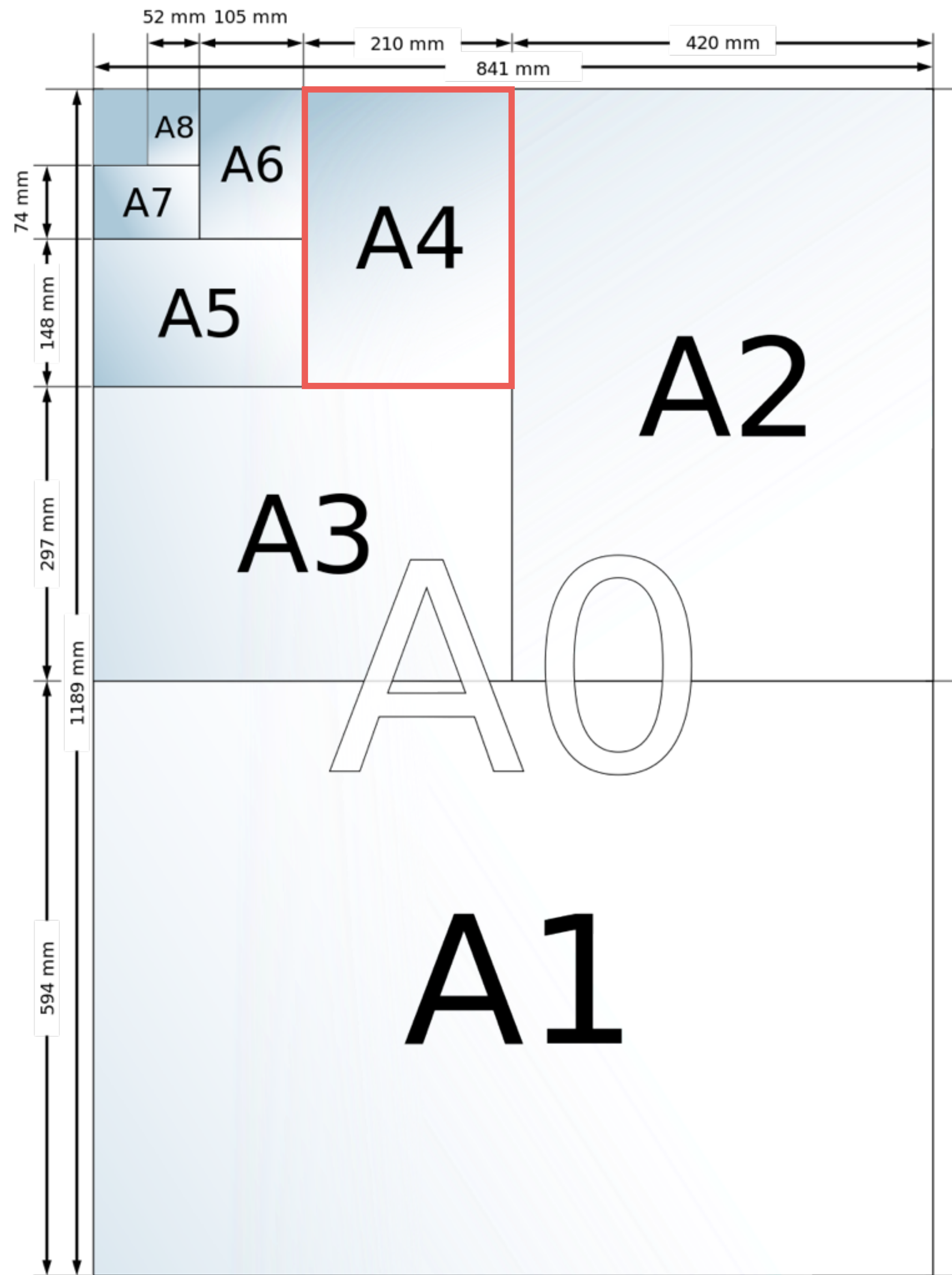
Einzelformat 35,6 x 16,9 mm


```

$search_query = [
  'index' => 'content-' . $langcode,
  'type' => 'product',
  'size' => 0,
  'body' => [
    'query' => [
      // Search query goes here, same as before.
    ],
    'aggs' => [
      'suggested_terms' => [
        'terms' => [
          // Use the raw term to preserve the original case.
          'field' => 'suggestions.raw',
          'include' => [
            'pattern' => $input . '.*',
            'flags' => 'CANON_EQ|CASE_INSENSITIVE|UNICODE_CASE',
          ],
          'size' => 7,
        ],
      ],
    ],
  ],
];

```

```
foreach ($result['aggregations']['suggested_terms']['buckets'] as $bucket) {  
    $response[] = $bucket['key'];  
}
```




```
$search_query = [  
  'body' => [  
    'query' => [  
      'bool' => [  
        'must' => [  
          'match' => [  
            'content' => $input  
          ],  
        ],  
      ],  
      'should' => [  
        'term' => [  
          'field_size' => 'DIN A4'  
        ],  
      ],  
    ],  
  ],  
];
```

Kauf

Standort

Mü

DE - München - Alt-Schwabing

DE - München - Bogenhausen

DE - München - Neuhausen

Wohnen oder Gewerbe

☒ Wohnen

☐ Gewerbe

SHOW 3 RESULTS

yp

☐ Etagenwohnung

300000

€

700000

€

50

m²

80

m²

Suchergebnisse

Showing 7 results.

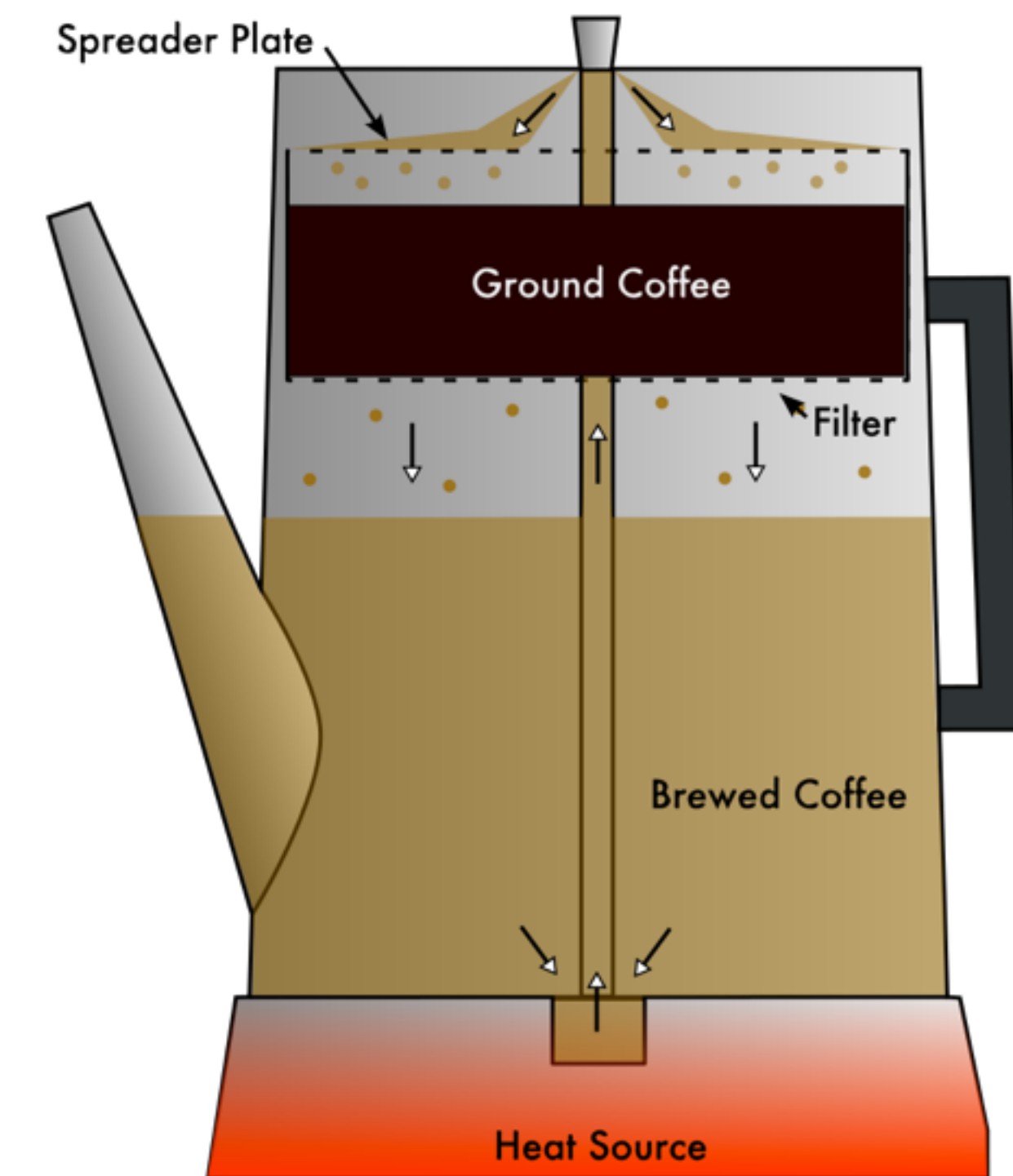
3 Zimmer Wohnung in Neuhausen



Objektart: Etagenwohnung
Wohnfläche ca.: 72 m²
Nutzfläche ca.: 0 m²
Grundstücksfläche ca.: 0 m²

Provision (Kauf)
3,57%

Cost per m²



https://en.wikipedia.org/wiki/Coffee_percolator

Docs

[Elasticsearch Reference \[2.4\]](#) » [Search APIs](#) » Percolator

« [Understanding MultiTermQuery output](#)

[Field stats API](#) »

Percolator



Traditionally you design documents based on your data, store them into an index, and then define queries via the search API in order to retrieve these documents. The percolator works in the opposite direction. First you store queries into an index and then, via the percolate API, you define documents in order to retrieve these queries.

The reason that queries can be stored comes from the fact that in Elasticsearch both documents and queries are defined in JSON. This allows you to embed queries into documents via the index API. Elasticsearch can extract the query from a document and make it available to the percolate API. Since documents are also defined as JSON, you can define a document in a request to the percolate API.

The percolator and most of its features work in realtime, so once a percolate query is indexed it can immediately be used in the percolate API.

Top Videos

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IMPORTANT

Fields referred to in a percolator query must **already** exist in the mapping associated with the index used for percolation. There are two ways to make sure that a field mapping exist:

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Elasticsearch Helper

[View](#)[Edit](#)[Version control](#)[Maintainers](#)[Automated Testing](#)

Posted by [floretan](#) on *May 6, 2016 at 4:06pm*

As the name indicates it, Elasticsearch Helper is a helper module to work with Elasticsearch on Drupal project.

Whereas modules like `elasticsearch_connector` and other `search_api` plugins try to abstract away the actual API of Elasticsearch, this module tries to embrace it instead. It provides some common tools on which to build your own integration.

The module defines an "ElasticsearchIndex" plugin type and a base implementation for you to extend. Unless you define your own plugin, this module will not do anything.

Supporting organizations:

[Wunder Group](#)

Project Information

Maintainers for Elasticsearch Helper

[floretan](#) – 26 commits

last: 2 months ago, first: 4 months ago

[View all committers](#)

[View commits](#)

Issues for Elasticsearch Helper

To avoid duplicates, please search before submitting a new issue.

https://www.drupal.org/project/elasticsearch_helper

```
/**
 * @ElasticsearchIndex(
 *     id = "simple_node_index",
 *     label = @Translation("Simple Node Index"),
 *     indexName = "simple",
 *     typeName = "node",
 *     entityType = "node"
 * )
 */
class SimpleNodeIndex extends ElasticsearchIndexBase {

}
```

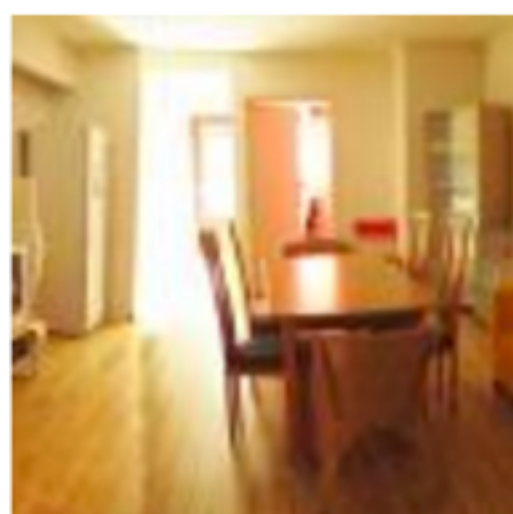
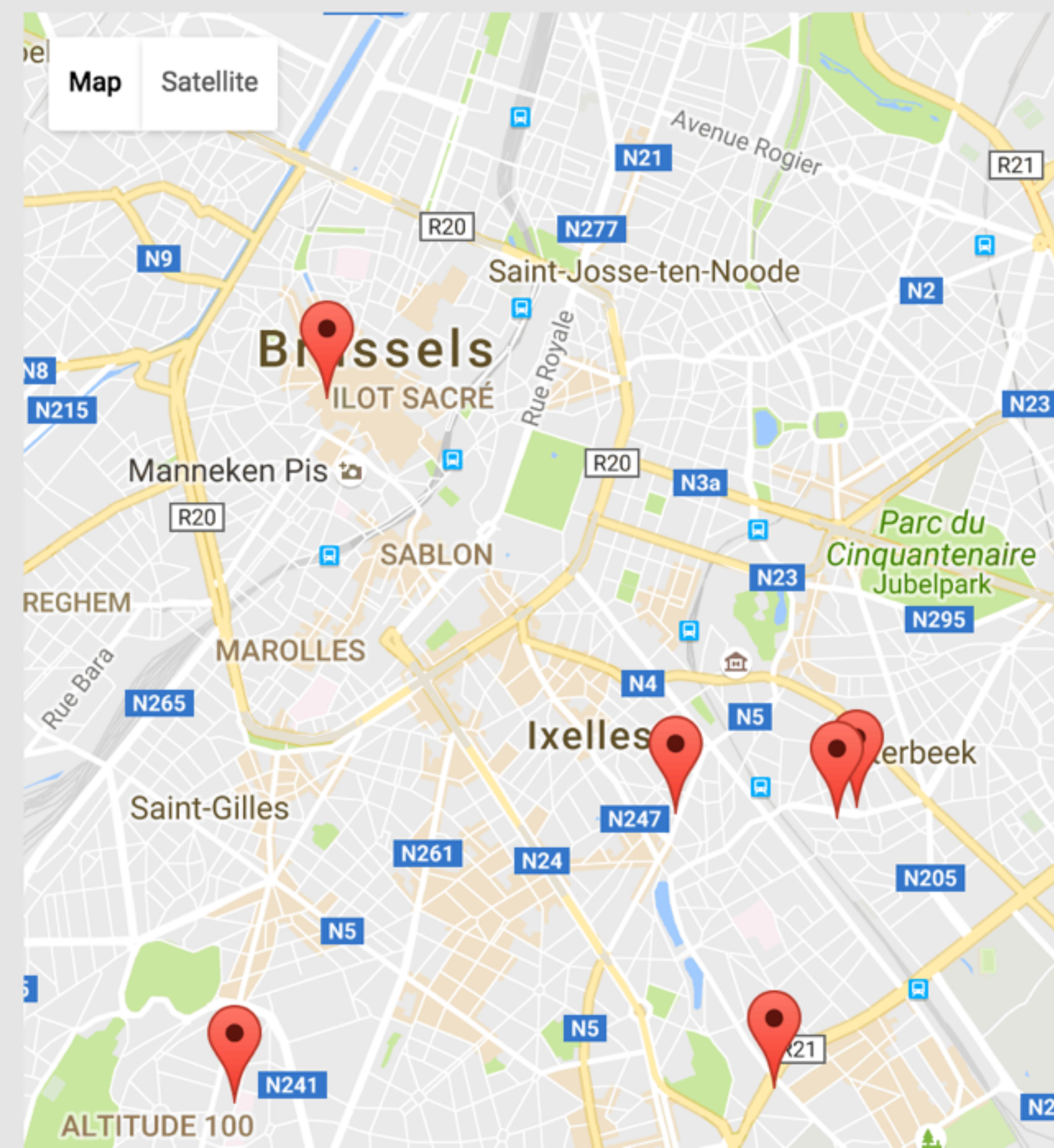

93 kots disponibles

[Affiner la recherche](#)

Trier par prix ▼ ▲

Trier par superficie ▼ ▲

Trier par date de modification ▼ ▲

**Boulevard Général Jacques 31, Kot 31-01-02**15m² - 1050 Ixelles**€ 485,00**+ € 0,00 coûts fixes
+ € 0,00 coûts variables**Disponible du 2016-09-01 au 2017-01-31****Boulevard Général Jacques 31, Kot 31-ES-01**10m² - 1050 Ixelles**€ 445,00**+ € 0,00 coûts fixes
+ € 0,00 coûts variables**Disponible du 2016-09-01 au 2017-08-31****Rue Scarron 48, Kot Studio**23m² - 1050 Ixelles**€ 395,00**+ € 44,00 coûts fixes
+ € 0,00 coûts variables

Search

Product

Product

Product

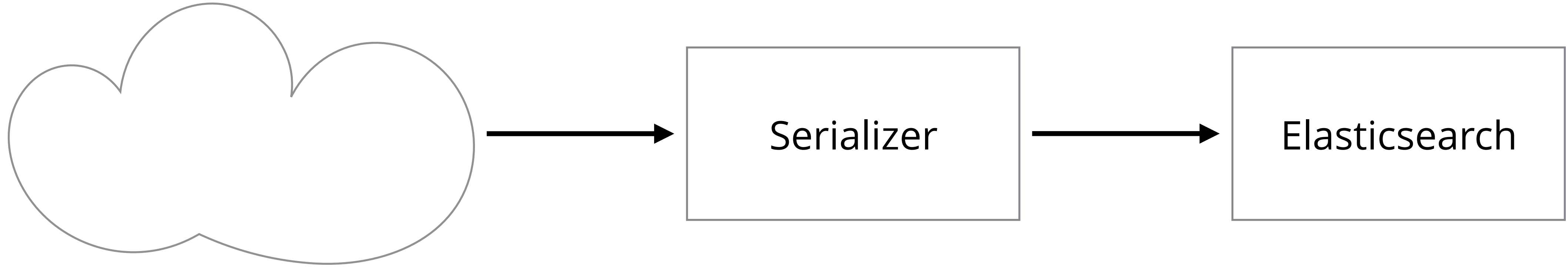
SportScheck
Wir machen Sport.

Product categories

- List
- Tree
- Selectors

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NAME	UUID	DE GLOBAL	CH GLOBAL	AT GLOBAL	OPERATIONS
Hauptkatalog	iHAKaxAQYn4AAAFMeHwPIhUW	0	0	0	<div>Edit</div> <div>▼</div>
Hauptkatalog > Accessoires	j2QKaxAQ654AAAFM.tlPIhUb	0	0	0	<div>Edit</div> <div>▼</div>
Hauptkatalog > Accessoires > Accessoires am Strand	uzkKaxAQ658AAAFM.tlPIhUb	0	0	0	<div>Edit</div> <div>▼</div>
Hauptkatalog > Accessoires > Beanies	rusKaxAQfLsAAAFM.9lPIhUb	0	0	0	<div>Edit</div> <div>▼</div>
Hauptkatalog > Accessoires > Bommelmützen	tBUKaxAQ66EAAAFM.tlPIhUb	0	0	0	<div>Edit</div> <div>▼</div>
Hauptkatalog > Accessoires > Buffs	EakKaxAQzKkAAAFMPtoPIhUb	0	0	0	<div>Edit</div> <div>▼</div>
Hauptkatalog > Accessoires > Caps	i4kKaxAQrsAAAFMQdoPIhUb	0	0	0	<div>Edit</div> <div>▼</div>
Hauptkatalog > Accessoires > Geldbeutel	mOwKaxAQeUYAAAFMPdoPIhUb	0	0	0	<div>Edit</div> <div>▼</div>
Hauptkatalog > Accessoires > Gürtel	ZdUKaxAQeUQAAAFMPdoPIhUb	0	0	0	<div>Edit</div> <div>▼</div>
Hauptkatalog > Accessoires > Handschuhe	xzcKaxAQeUgAAAFMPdoPIhUb	0	0	0	<div>Edit</div> <div>▼</div>
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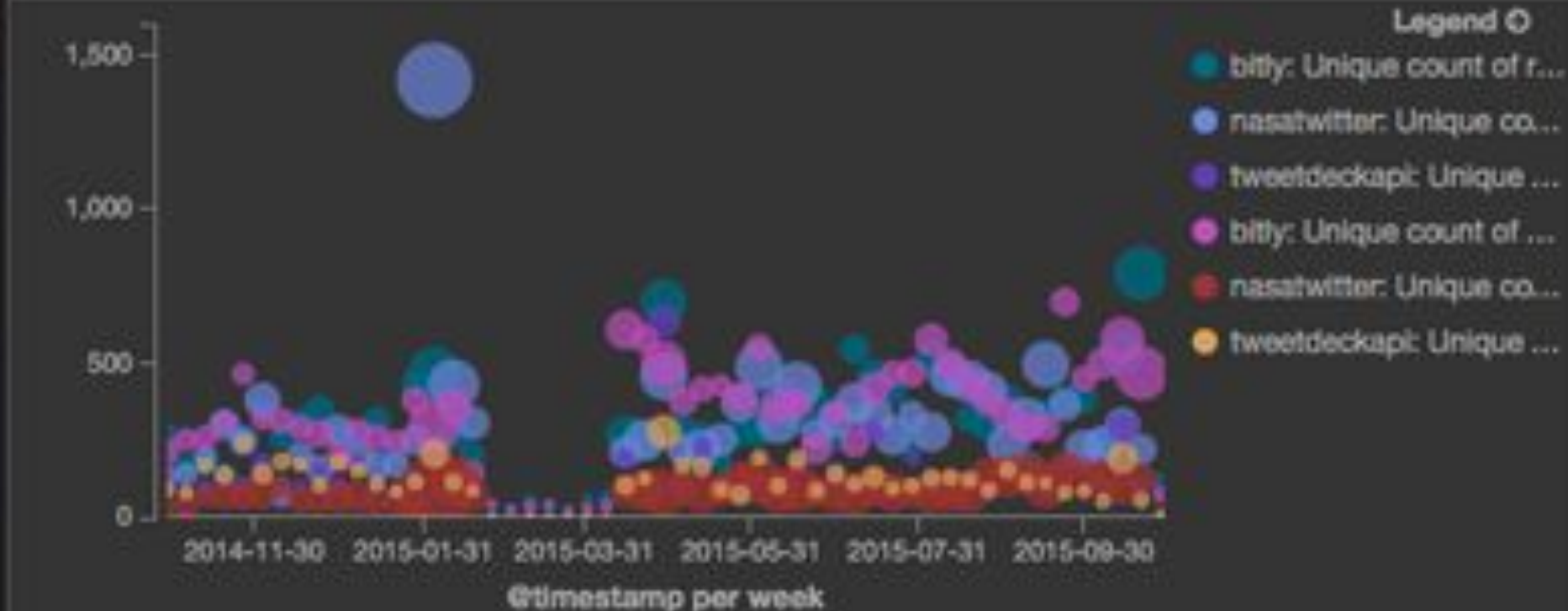


Social

All traffic



Referrer vs Destination

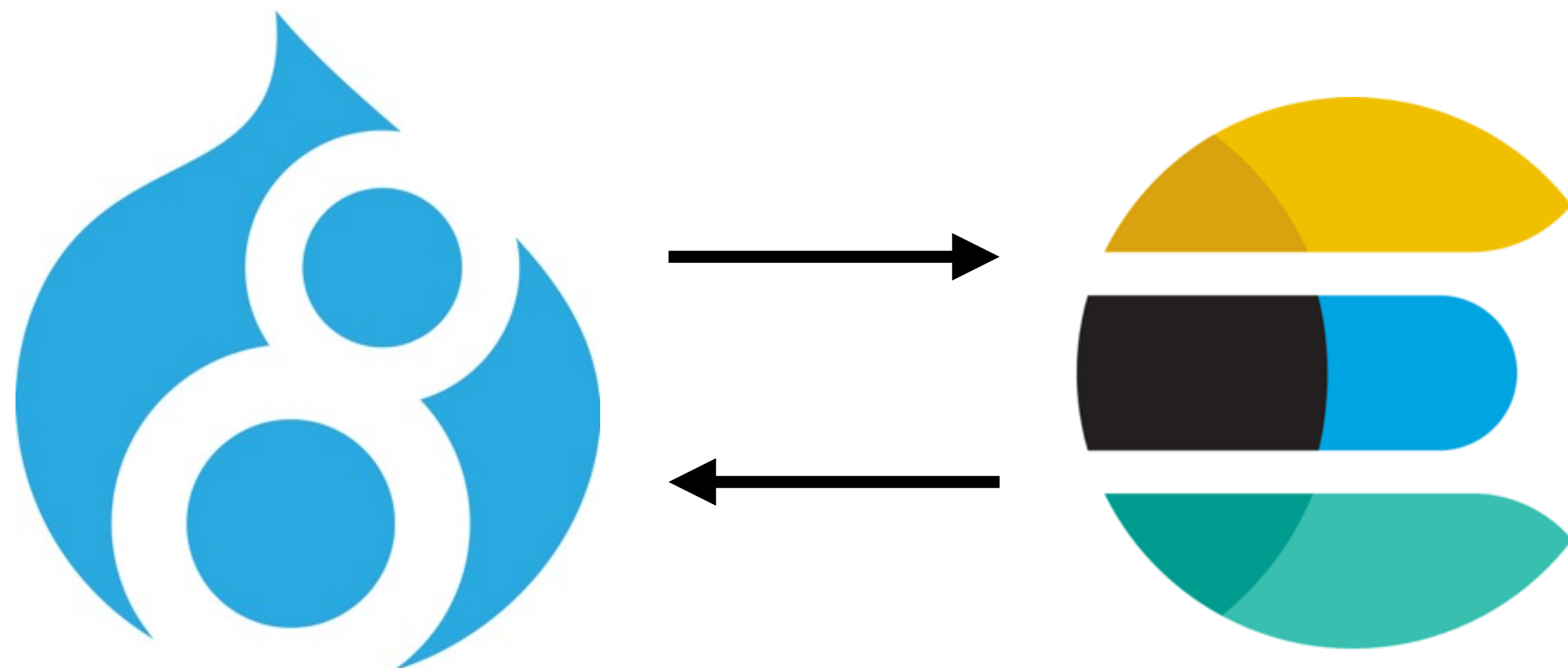


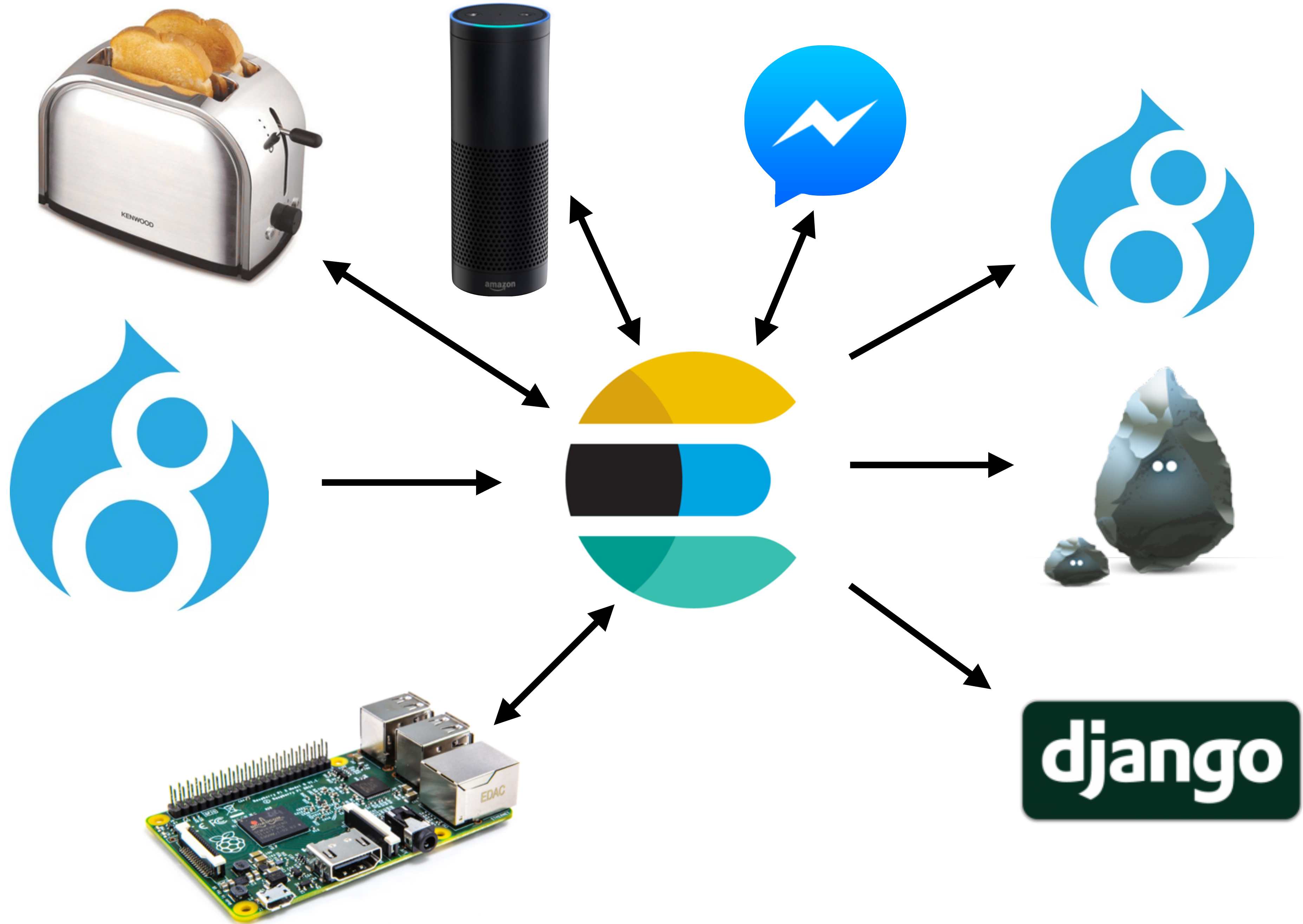
Top locations

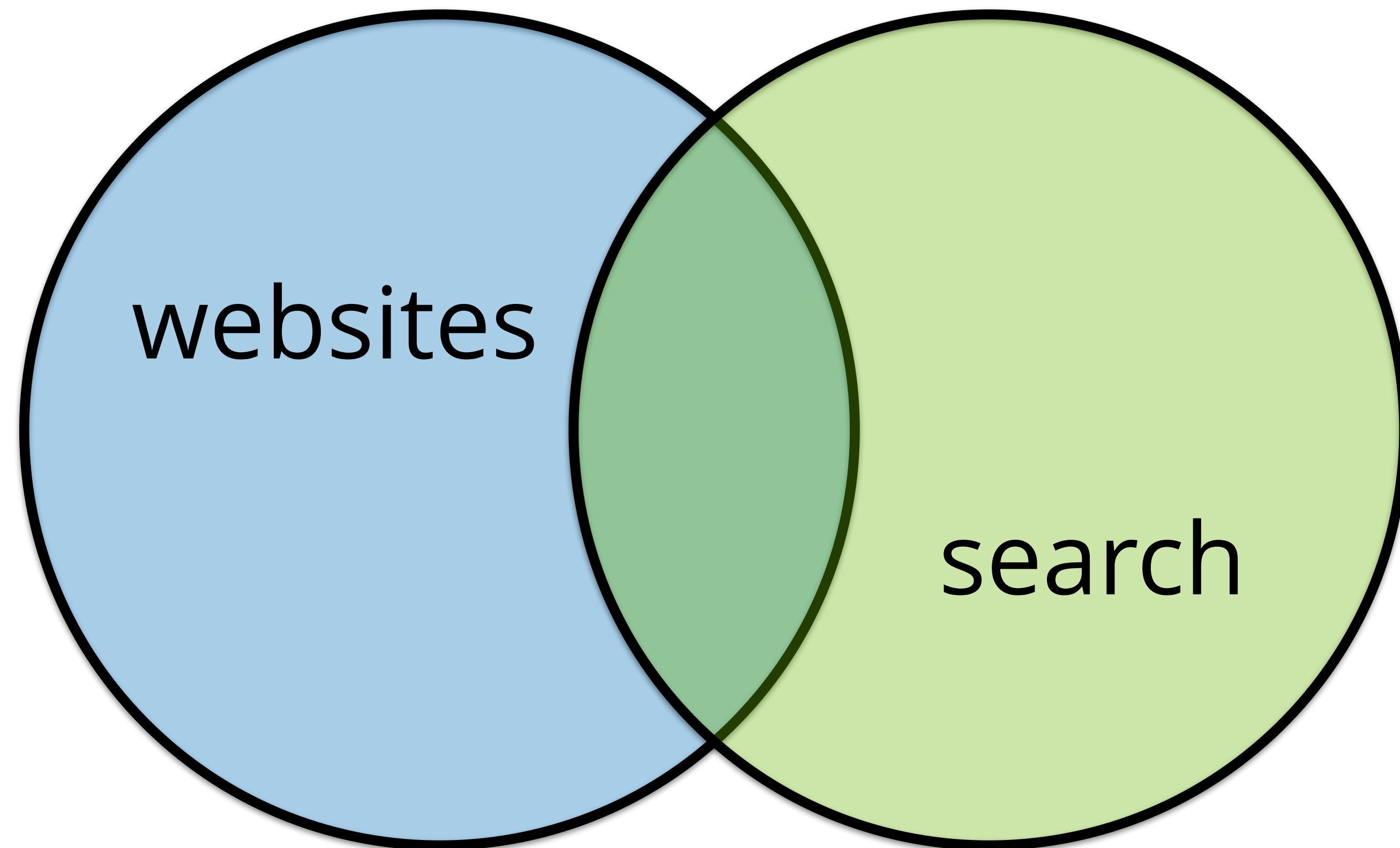


Top users by country









Summary

- If search matters, the details matter
- Elasticsearch has a really expressive API
- Elasticsearch is fun to work with

Thanks

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Questions?

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THANK YOU!

