




elasticsearch
for developer

Search DSL

book_06.txt

Requirement


[somkiat's Amazon.com](#) [Today's Deals](#) [Gift Cards](#) [Sell](#) [Help](#)

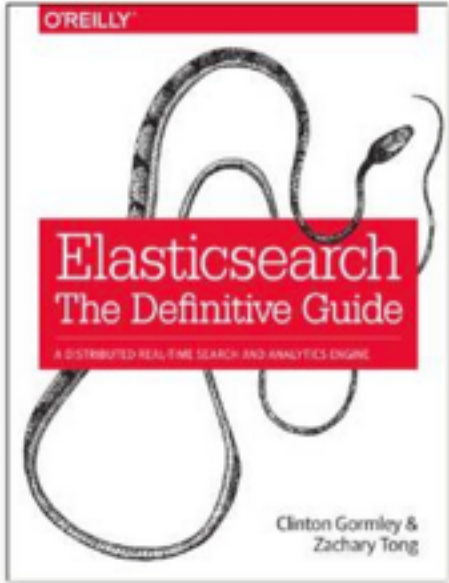
FREE TWO-DAY SHIPPING FOR COLLEGE STUDENTS [Learn more](#)

Shop by Department ▾ Search

Hello, somkiat [Your Account ▾](#) [Try Prime ▾](#) [Cart ▾](#) [Wish List ▾](#)

[Books](#) [Advanced Search](#) [New Releases](#) [Best Sellers](#) [The New York Times® Best Sellers](#) [Children's Books](#) [Textbooks](#) [Textbook Rentals](#) [Sell Us Your Books](#) [Best Books of the Month](#) [Deals in Books](#)

[Browse Programming Books](#) [C](#) | [Java](#) | [PHP](#) | [Python](#)  [Learn more](#)



OREILLY

Elasticsearch
The Definitive Guide

A DISTRIBUTED REAL-TIME SEARCH AND ANALYTICS ENGINE

Clinton Gormley & Zachary Tong


Elasticsearch: The Definitive Guide Paperback – February 7, 2015

by [Clinton Gormley](#) (Author), [Zachary Tong](#) (Author)

ISBN-13: 978-1449358549 ISBN-10: 1449358543 Edition: 1st

Buy New
Price: **\$44.03**

	Amazon Price	New from	Used from
Paperback	\$44.03	\$44.03	—

FREE TWO-DAY SHIPPING FOR COLLEGE STUDENTS [Learn more](#) 

Learn how to use Elasticsearch, an open source, distributed, RESTful search engine built on top of Apache Lucene. Each chapter in this book tackles a particular facet of Elasticsearch with separate sections for beginners more advanced programmers. If you're a beginner, advanced techniques are not required reading, but you can revisit them once you have a solid understanding of the basics.


Share [Email](#) [Facebook](#) [Twitter](#) [Pinterest](#)

Pre-order **\$44.03**

Qty: [List Price: \\$49.99](#)
Save: \$5.96 (12%)
[Pre-order Price Guarantee.](#)

FREE Shipping.

This title has not yet been released.
Ships from and sold by Amazon.com.
Gift-wrap available.

 **Pre-order: Add to Cart**

[Sign in to turn on 1-click ordering](#)

This item ships to **Samsennai, Thailand.** [Learn more](#)

Requirement

amazon Try Prime [somkiat's Amazon.com](#) [Today's Deals](#) [Gift Cards](#) [Sell](#) [Help](#)

Shop by Department ▾ Search

[Books](#) [Advanced Search](#) [New Releases](#) [Best Sellers](#) [The New York Times® Best Sellers](#) [Children's Books](#) [Textbooks](#) [Textbook Rentals](#) [Sell Us Your Books](#) [Best Bo](#)

1-12 of 51 results for Books : "elasticsearch"

Show results for

< Any Category


Books

- Online Searching (7)
- Web Development & Design (15)
- Computers & Technology (41)
- Computer Programming Language & Tool (19)
- Java Programming (8)
- Web Development & Design Programming (8)
- Reference (25)
- JavaScript Programming (3)
- Object-Oriented Design (3)
- Software Development (8)

+ See more

Related Searches: [elk stack](#), [hadoop](#), [kibana](#).


Book Format: [Paperback](#) | [Kindle Edition](#)



Elasticsearch: The Definitive Guide Feb 14, 2015
by Clinton Gormley and Zachary Tong

Paperback
\$44.03 ~~\$49.99~~ Prime

Available for Pre-order. This item will be released on February 14, 2015.



Elasticsearch Server: Second Edition Apr 24, 2014
by Rafal Kuc and Marek Rogoziński

Kindle Edition
\$20.49

Auto-delivered wirelessly

Paperback
\$44.99 ~~\$49.99~~ Prime

Get it by **Tuesday, Jan 20**

More Buying Choices
\$44.99 [used & new](#) (22 offers)

New Releases

- Last 30 days (4)
- Last 90 days (8)
- Coming Soon (4)

Author

James Turnbull

Book Format

- Paperback (47)
- Kindle Edition (4)

Book Language

☐ English (37)

Avg. Customer Review

★★★★★ & Up (2)

★★★★☆ & Up (2)

★★★☆☆ & Up (2)

★★☆☆☆ & Up (2)

Condition

- Collectible
- New (51)
- Used (37)

Refine by

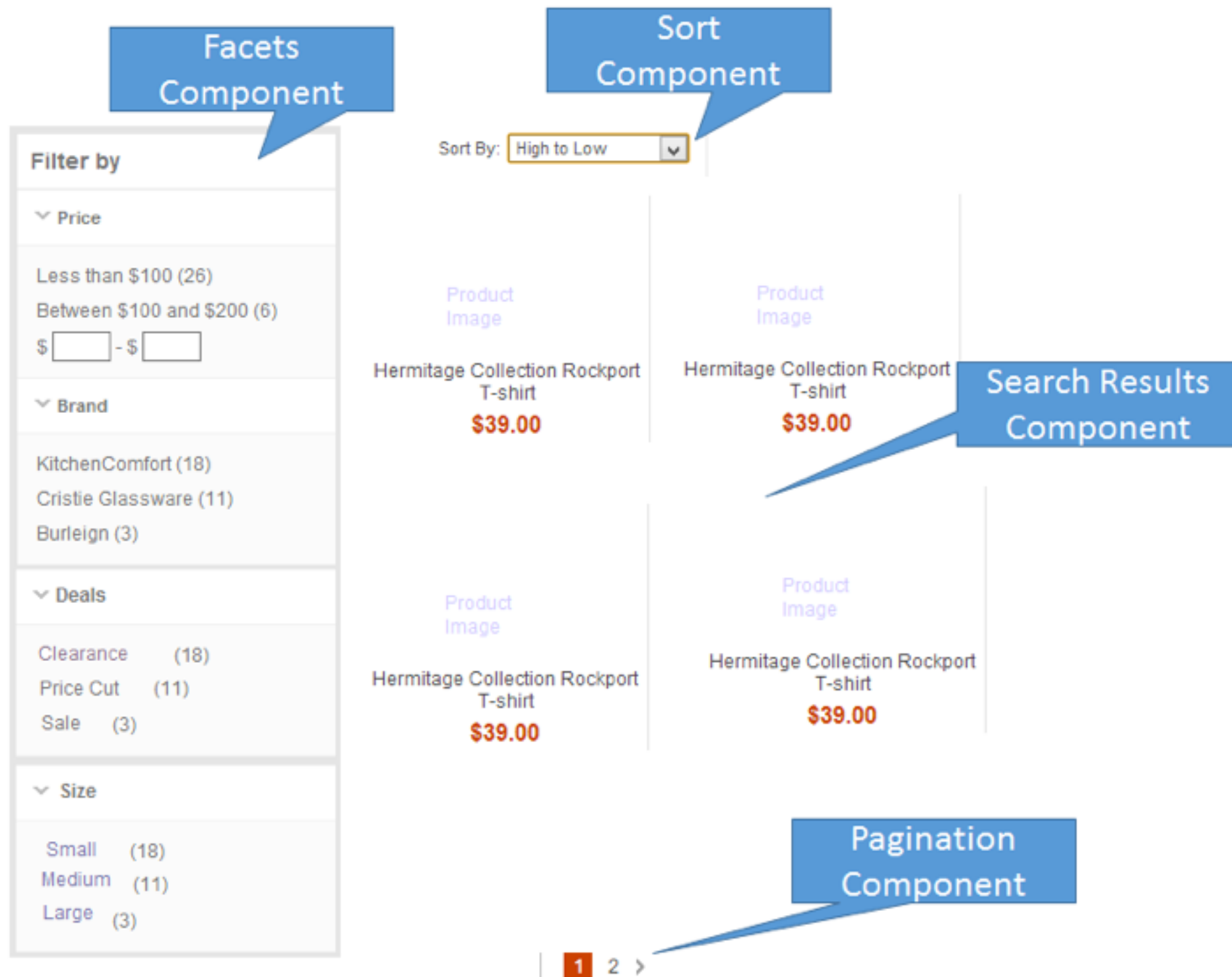
International Shipping

☐ Ship to Thailand

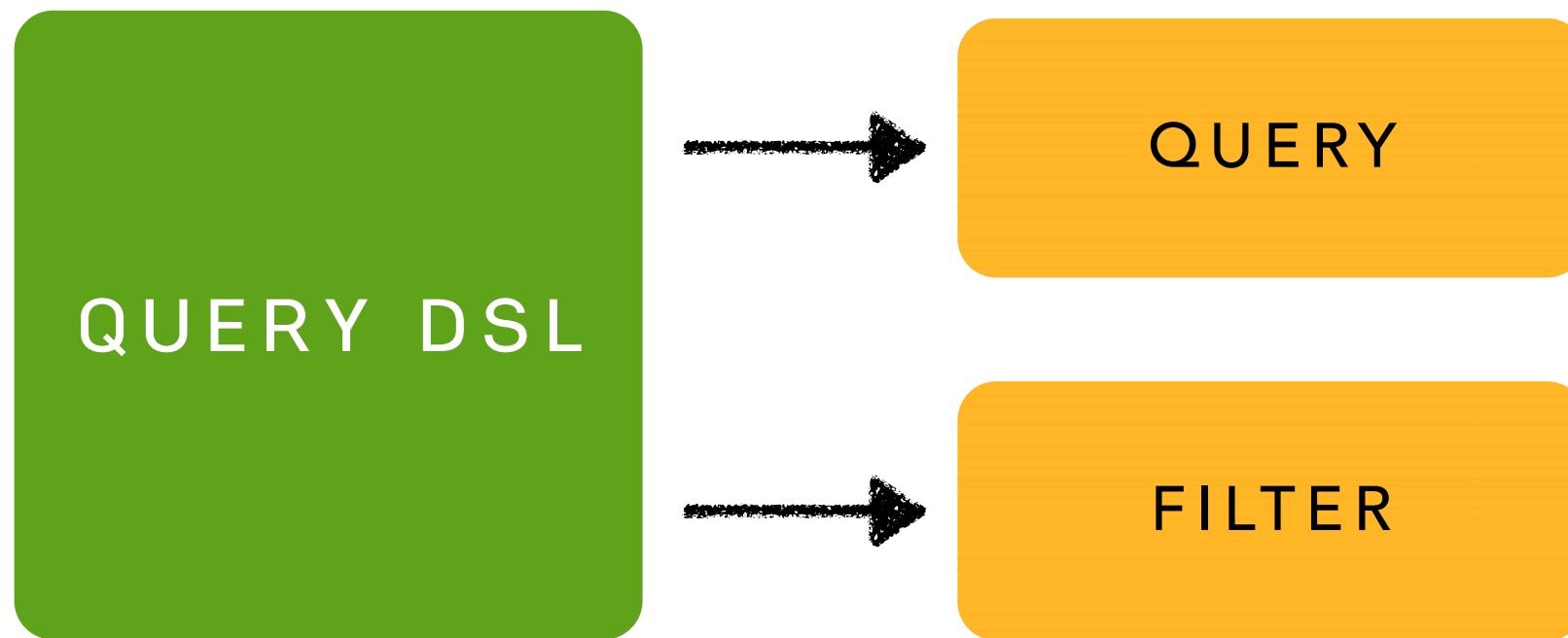
Eligible for Free Shipping

Free Shipping by Amazon

Analysis



Query DSL



http://www.elasticsearch.org/guide/en/elasticsearch/guide/current/_queries_and_filters.html

Query DSL

Queries

match query
term query
terms query

multi match query
query string query
prefix query

wildcard query
range query
bool query

<http://www.elasticsearch.org/guide/en/elasticsearch/reference/current/query-dsl-queries.html>

Query DSL

Filters

query filter

term filter

terms filter

missing filter

range filter

or filter

and filter

exists filter

not filter

prefix filter

bool filter

<http://www.elasticsearch.org/guide/en/elasticsearch/reference/current/query-dsl-filters.html>

Let's Start !

Preparing index

DELETE /store

PUT /store

My Book

Name	Type	Value
Id	Number	1
Title	String	Elasticsearch
Author_Name	String	["A", "B"]
Category	String	["A", "B"]
Isbn	String	1449358543
Price	Double	44.30
Page	Number	724
Active	Number	Inactive = 0, Active = 1
Published_Date	Date	2015-01-15
Short_Description	String	
Long_Description	String	

Preparing data

Create documents

```
{
  "took": 1,
  "timed_out": false,
  "_shards": {
    "total": 5,
    "successful": 5,
    "failed": 0
  },
  "hits": {
    "total": 5,
    "max_score": 1,
    "hits": [
      {
```

Query DSL

GET /_search

```
{  
  "query": YOUR QUERY  
}
```

Term query

GET /store/book/_search

```
{  
  "query": {  
    "term": {  
      "title": {  
        "value": "elasticsearch"  
      }  
    }  
  }  
}
```

<http://www.elasticsearch.org/guide/en/elasticsearch/reference/current/query-dsl-term-query.html>

Terms query

GET /store/book/_search

```
{  
  "query": {  
    "terms": {  
      "title": ["search","the"],  
      "minimum_should_match": 1  
    }  
  }  
}
```

<http://www.elasticsearch.org/guide/en/elasticsearch/reference/current/query-dsl-terms-query.html>

Match query

GET /store/book/_search

```
{  
  "query": {  
    "match": {  
      "title": "elasticsearch book"  
    }  
  }  
}
```

<http://www.elasticsearch.org/guide/en/elasticsearch/reference/current/query-dsl-term-query.html>

Multi match query

GET /store/book/_search

```
{
  "query": {
    "multi_match": {
      "query": "nosql",
      "fields": [
        "title",
        "long_description"
      ]
    }
  }
}
```


Query string

GET /store/book/_search

```
{  
  "query": {  
    "query_string": {  
      "default_field": "title",  
      "query": "elasticsearch AND book OR lucene"  
    }  
  }  
}
```

Range query

GET /store/book/_search

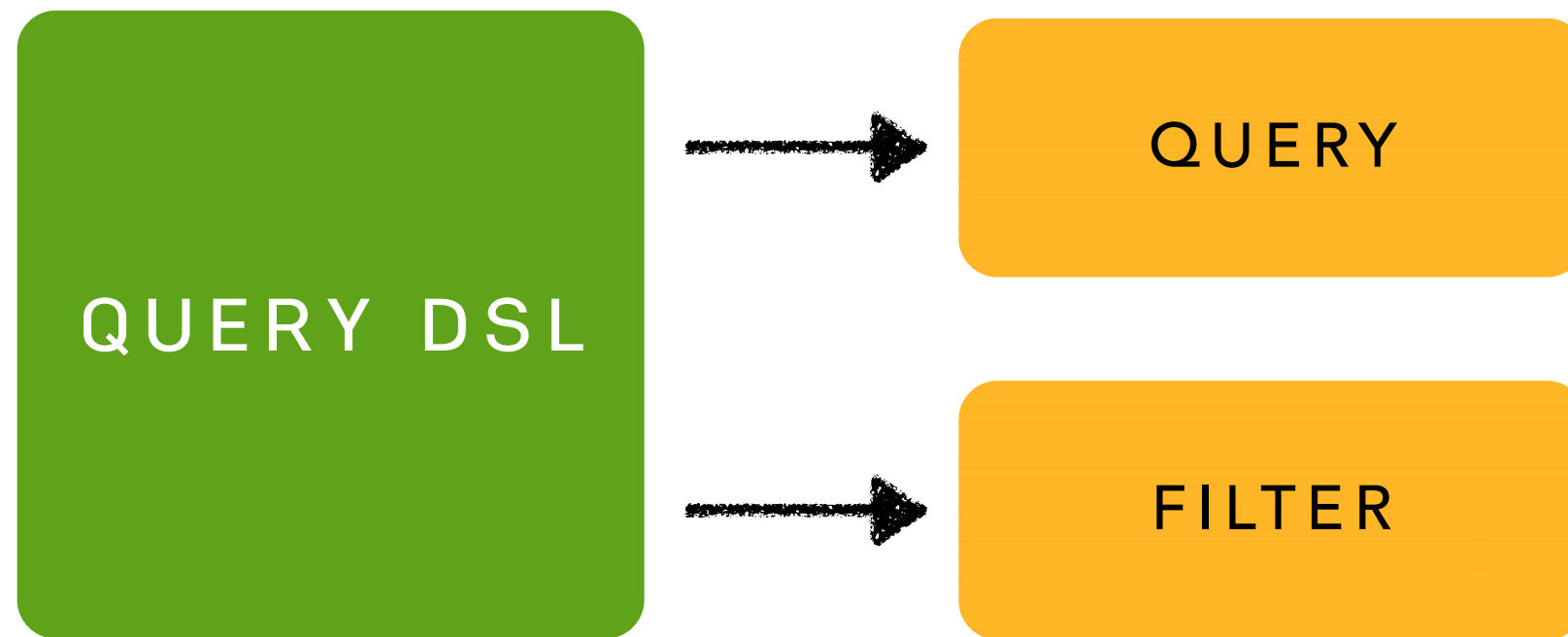
```
{  
  "query": {  
    "range": {  
      "price": {  
        "gte": 10,  
        "lte": 21  
      }  
    }  
  }  
}
```

<http://www.elasticsearch.org/guide/en/elasticsearch/reference/current/query-dsl-range-query.html>

Bool query

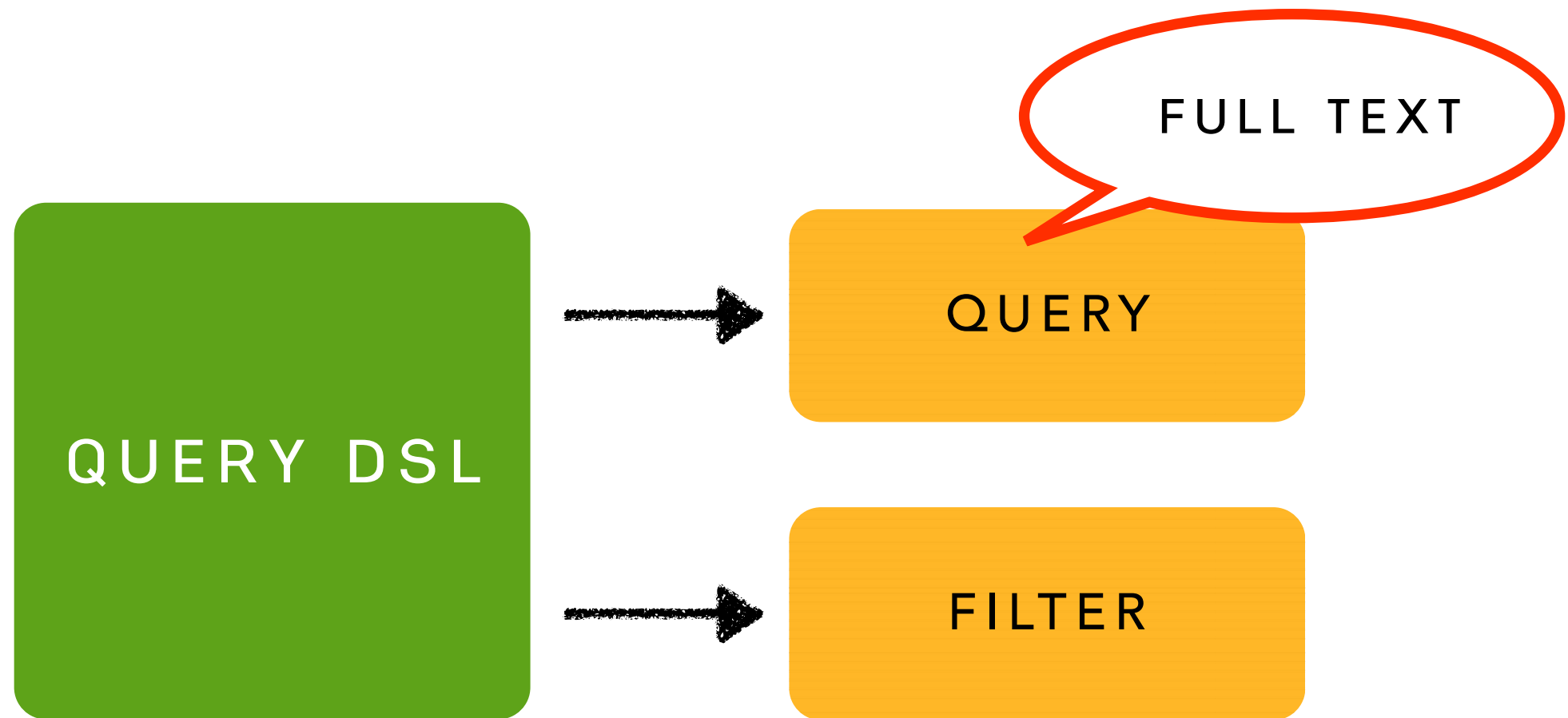
```
{  
  "bool": {  
    "must":    { "match": { "tweet": "elasticsearch" }},  
    "must_not": { "match": { "name": "mary" }},  
    "should":  { "match": { "tweet": "full text" }}  
  }  
}
```

Query vs. Filter



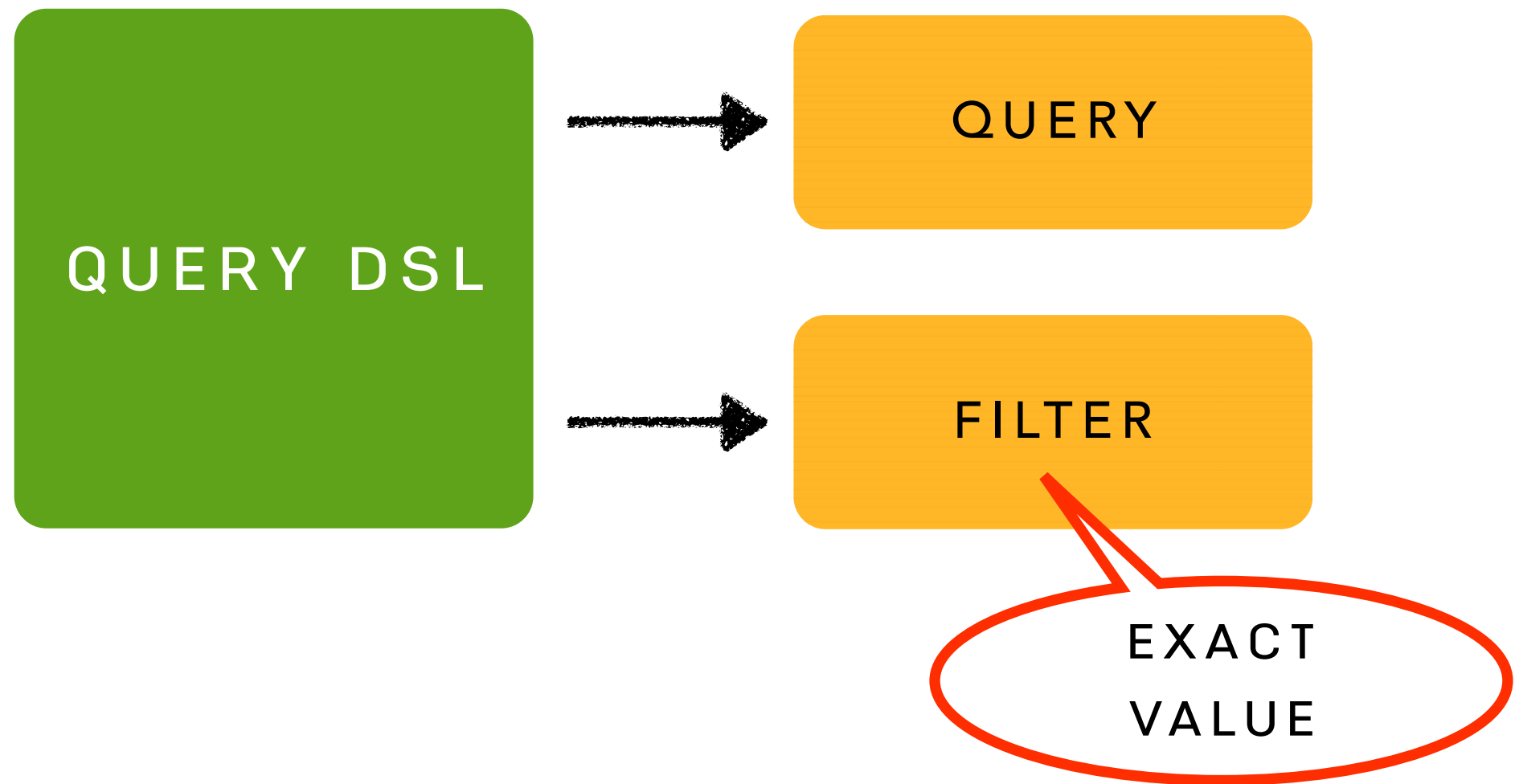
http://www.elasticsearch.org/guide/en/elasticsearch/guide/current/_queries_and_filters.html

Query vs. Filter



http://www.elasticsearch.org/guide/en/elasticsearch/guide/current/_queries_and_filters.html

Query vs. Filter



http://www.elasticsearch.org/guide/en/elasticsearch/guide/current/_queries_and_filters.html

Query vs. Filter

QUERY

- Can't caching
- Relevant
- Required memory !!

FILTER

- Easy to caching
- Quick to calculate
- Reusable

Pagination

GET /store/book/_search

```
{  
  "from": 0,  
  "size": 2  
}
```


Sorting

```
GET /store/book/_search
{
  "sort": [
    {
      "published_date": {
        "order": "desc"
      }
    }
  ]
}
```

Multiple Sorting

```
GET /store/book/_search
{
  "sort": [
    {
      "published_date": {
        "order": "desc"
      }
    }
  ]
}
```

http://www.elasticsearch.org/guide/en/elasticsearch/guide/current/_sorting.html

Workshop

Search all together !!

What's next ?

amazon Try Prime [somkiat's Amazon.com](#) [Today's Deals](#) [Gift Cards](#) [Sell](#) [Help](#)

Shop by Department ▾ Search

Books Advanced Search New Releases Best Sellers The New York Times® Best Sellers Children's Books Textbooks Textbook Rentals Sell Us Your Books Best Bo

1-12 of 51 results for **Books** : "elasticsearch"

Show results for

< Any Category


Books

- Online Searching (7)
- Web Development & Design (15)
- Computers & Technology (41)
- Computer Programming Language & Tool (19)
- Java Programming (8)
- Web Development & Design Programming (8)
- Reference (25)
- JavaScript Programming (3)
- Object-Oriented Design (3)
- Software Development (8)

+ See more

Related Searches: [elk stack](#), [hadoop](#), [kibana](#).


Book Format: [Paperback](#) | [Kindle Edition](#)



Elasticsearch: The Definitive Guide Feb 14, 2015
by Clinton Gormley and Zachary Tong

Paperback
\$44.03 ~~\$49.99~~ Prime

Available for Pre-order. This item will be released on February 14, 2015.



Elasticsearch Server: Second Edition Apr 24, 2014
by Rafal Kuc and Marek Rogoziński

Kindle Edition
\$20.49

Auto-delivered wirelessly

Paperback
\$44.99 ~~\$49.99~~ Prime

Get it by **Tuesday, Jan 20**

More Buying Choices
\$44.99 [used & new](#) (22 offers)

New Releases

- Last 30 days (4)
- Last 90 days (8)
- Coming Soon (4)

Author

James Turnbull

Book Format

- Paperback (47)
- Kindle Edition (4)

Book Language

☐ English (37)

Avg. Customer Review

- ★★★★★ & Up (2)
- ★★★★☆ & Up (2)
- ★★★☆☆ & Up (2)
- ★★☆☆☆ & Up (2)

Condition

- Collectible
- New (51)
- Used (37)