

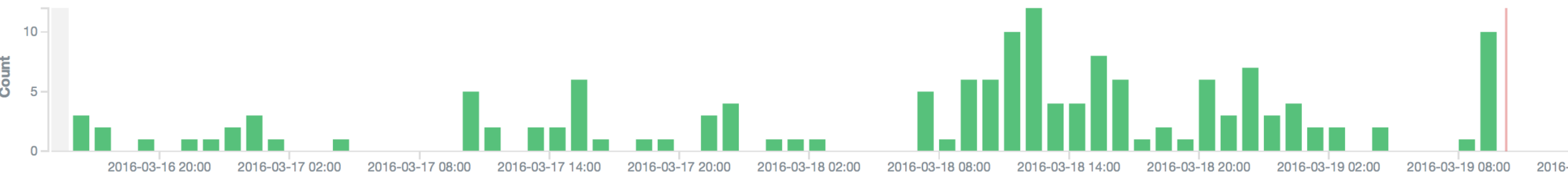
# FOSSASIA 2016 Singapore

## Big Data with Small Messages

### Data Indexing and Storage with loklak

Michael Christen M.Sc., mc@yacy.net, @0rb1t3r

March 16th 2016, 15:47:47.775 - March 19th 2016, 18:32:32.520 — [by hour](#)



screen_name	Count	Percentage
Quick Count ( 151 /151 records )		
bobreyes	17	11.3%
fossasia	10	6.6%
downey	7	4.6%
pleia2	7	4.6%
vega_yaa	5	3.3%

mentions	Count	Percentage
Quick Count ( 151 /151 records )		
fossasia	38	25.2%
harishpillay	6	4.0%
mariobehling	3	2.0%
ScienceCentreSG	3	2.0%
0rb1t3r	3	2.0%

hashtags	Count	Percentage
Quick Count ( 151 /151 records )		
fossasia	90	59.6%
mozilla	6	4.0%
mozfossasia	5	3.3%
loklok	3	2.0%
mozillians	2	1.3%





LOK  
LAK

# WHAT?

LOKLAK is a server application that uses P2P technology for collected data from Twitter and other sources without the need for API keys! It is anonymous and you can create your own search engine to analyse the data. You can easily fetch 1 million tweets in one day! And icing on the cake: it is ANONYMOUS!

# HOW?



LOKLAK API

+



TWITTER

+



JSON DUMP

+



ELASTICSEARCH

+



SEARCH FRONT END

=

MAGIC!



ANONYMOUS  
TWITTER  
ARCHIVER

# WHERE?

```
git clone https://github.com/loklak/loklak_server.git
ant
cd loklak_server
bin/start.sh
```

DESIGNED WITH <3 FOR FOSS ASIA





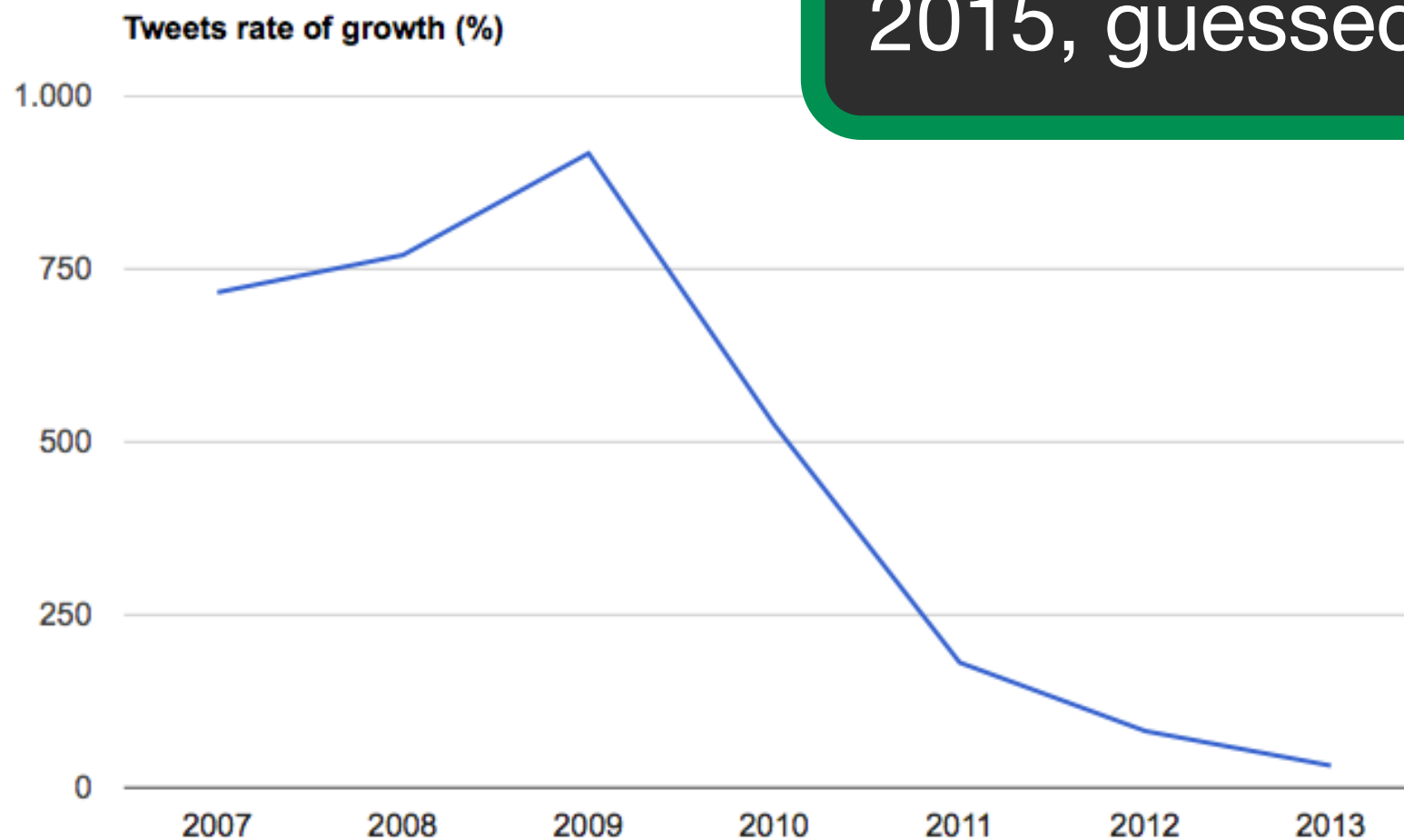


## Number of Tweets growth rate

[back to top](#) ↑

From Twitter's launch in 2006 and until 2009, the volume of tweets grew at increasingly high rates, approaching a 1,400% gain in daily volume year to year [2] and around 1,000% gain in yearly volume.

By mid 2010 the rate of growth started to cool down, sliding eventually below 100% gain in yearly volume in 2012. Today, the volume of tweets is growing at around 30% per year in our estimation.



2015, guessed: 800 million/day

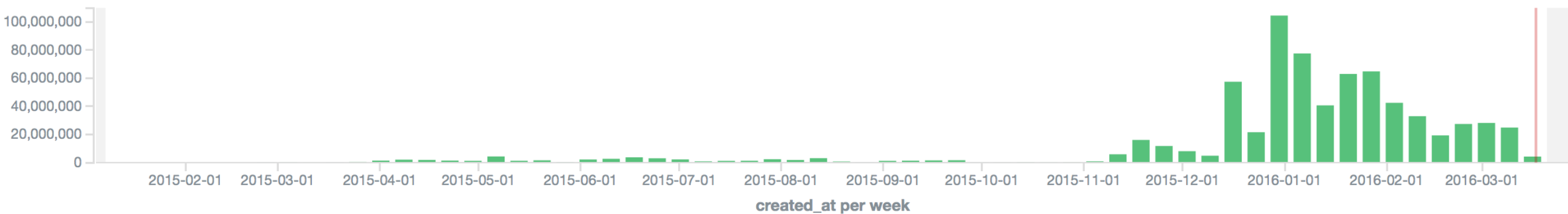
<http://www.internetlivestats.com/twitter-statistics/>





# Success? How many Tweets do we have?

Indices					
Index	# Docs	Primary Size	# Shards	# Replicas	Status
users	51,398,991	19.4GB	16	1	open
queries	3,217	2.6MB	16	1	open
messages	708,715,328	504.0GB	16	1	open
import_profiles	0	2.5KB	16	1	open
accounts	86	4.2MB	16	1	open
.kibana	3	48.4KB	1	1	open



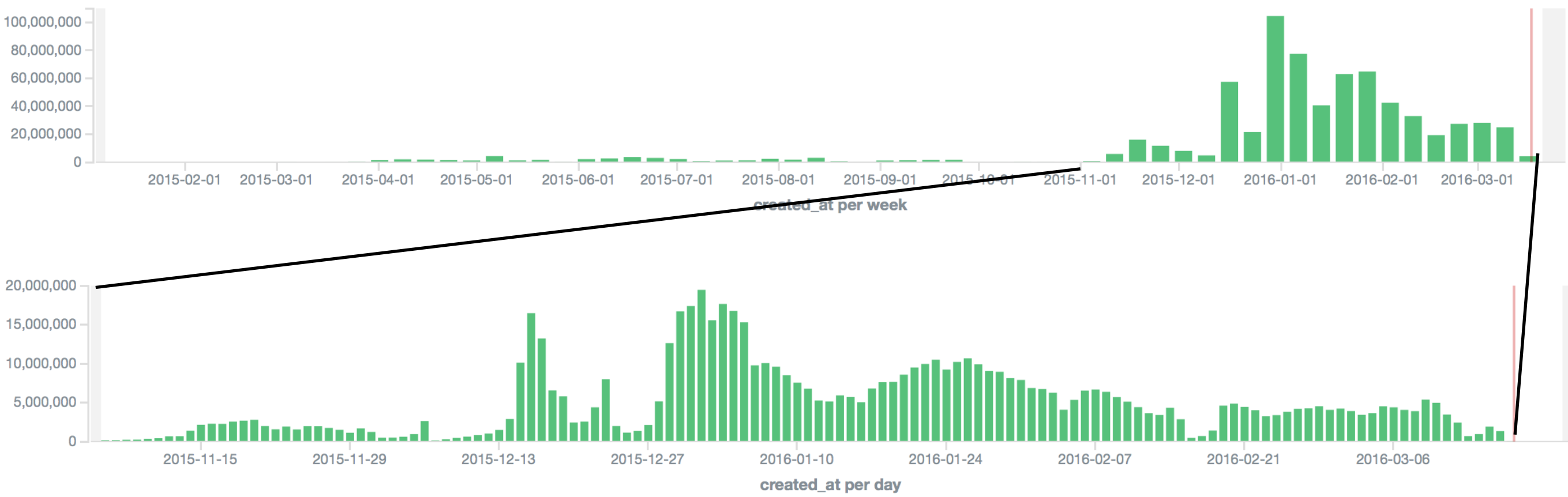
708 Million Tweets in one year = 0.2% of all tweets :(  
but..







# Success? How many Tweets do we have?



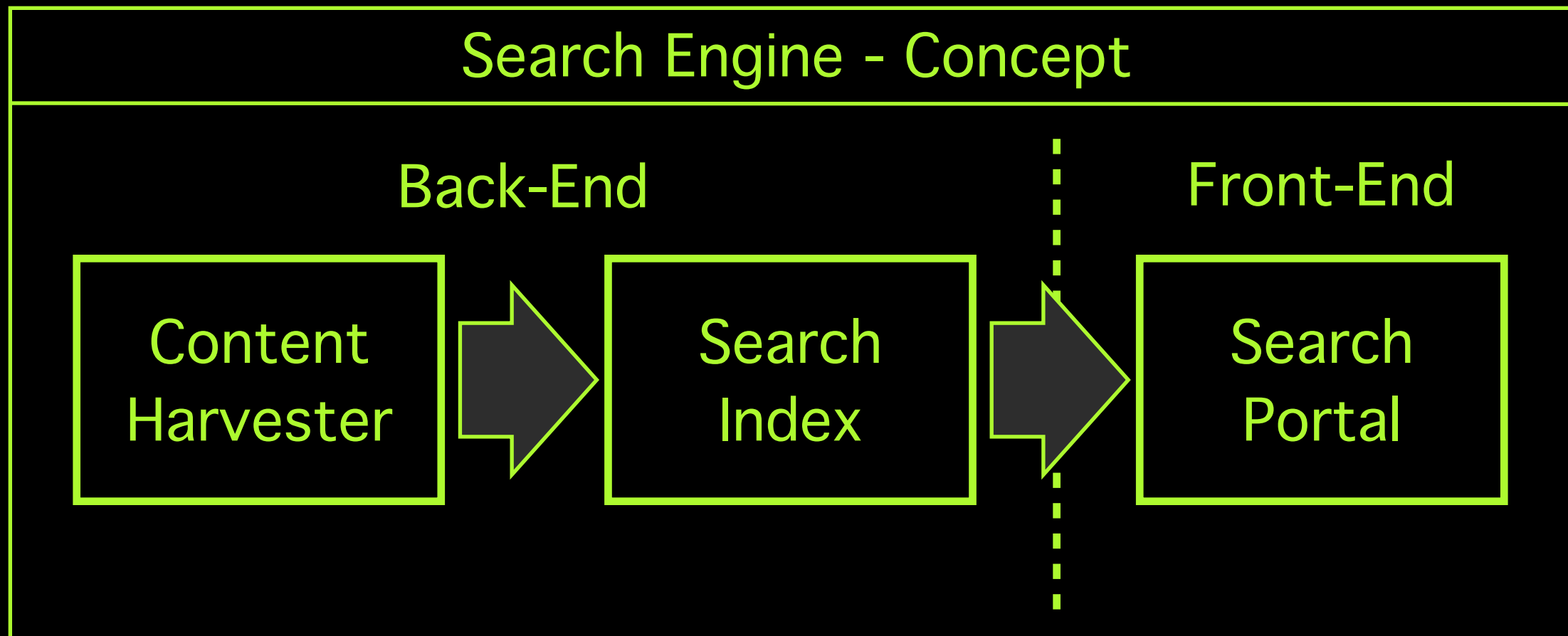
most of the tweets (650 Million)

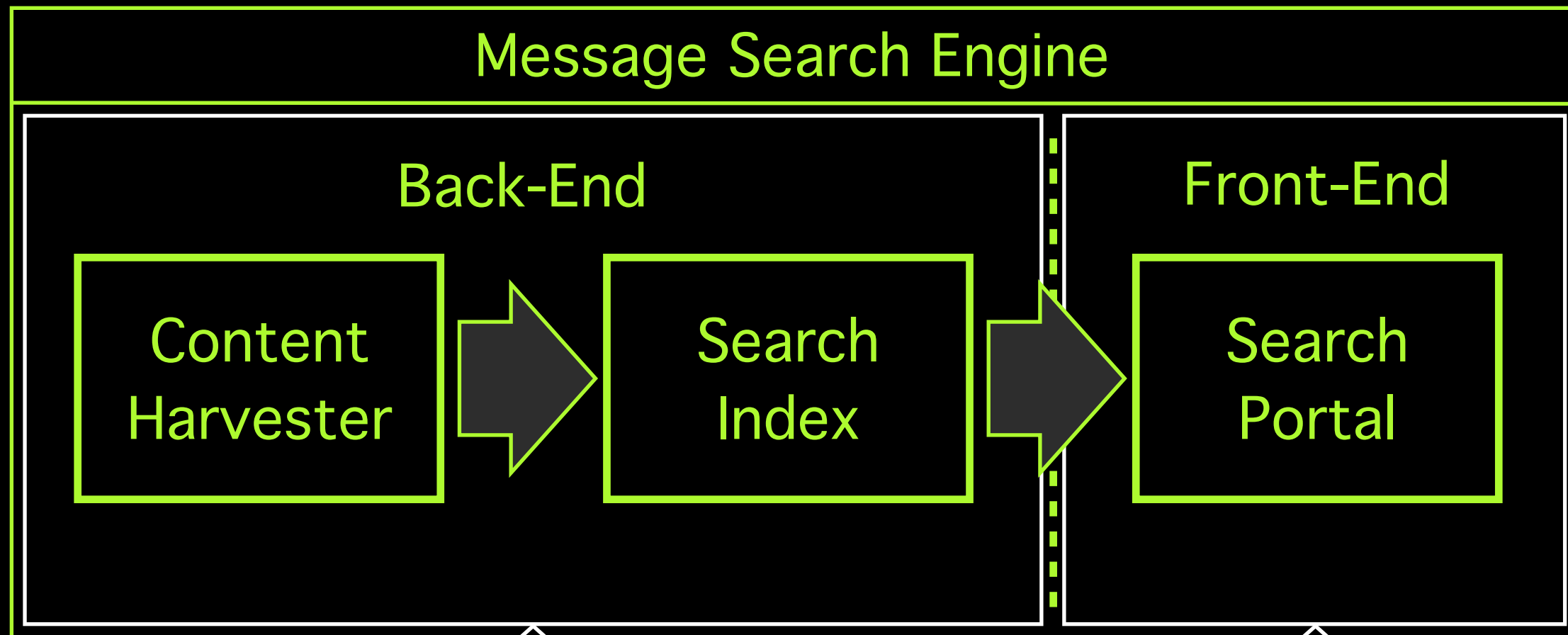
had been collected in the last four months

Collection rate now: **0.5% of all Tweets**

we get every 1 tweet in 200!







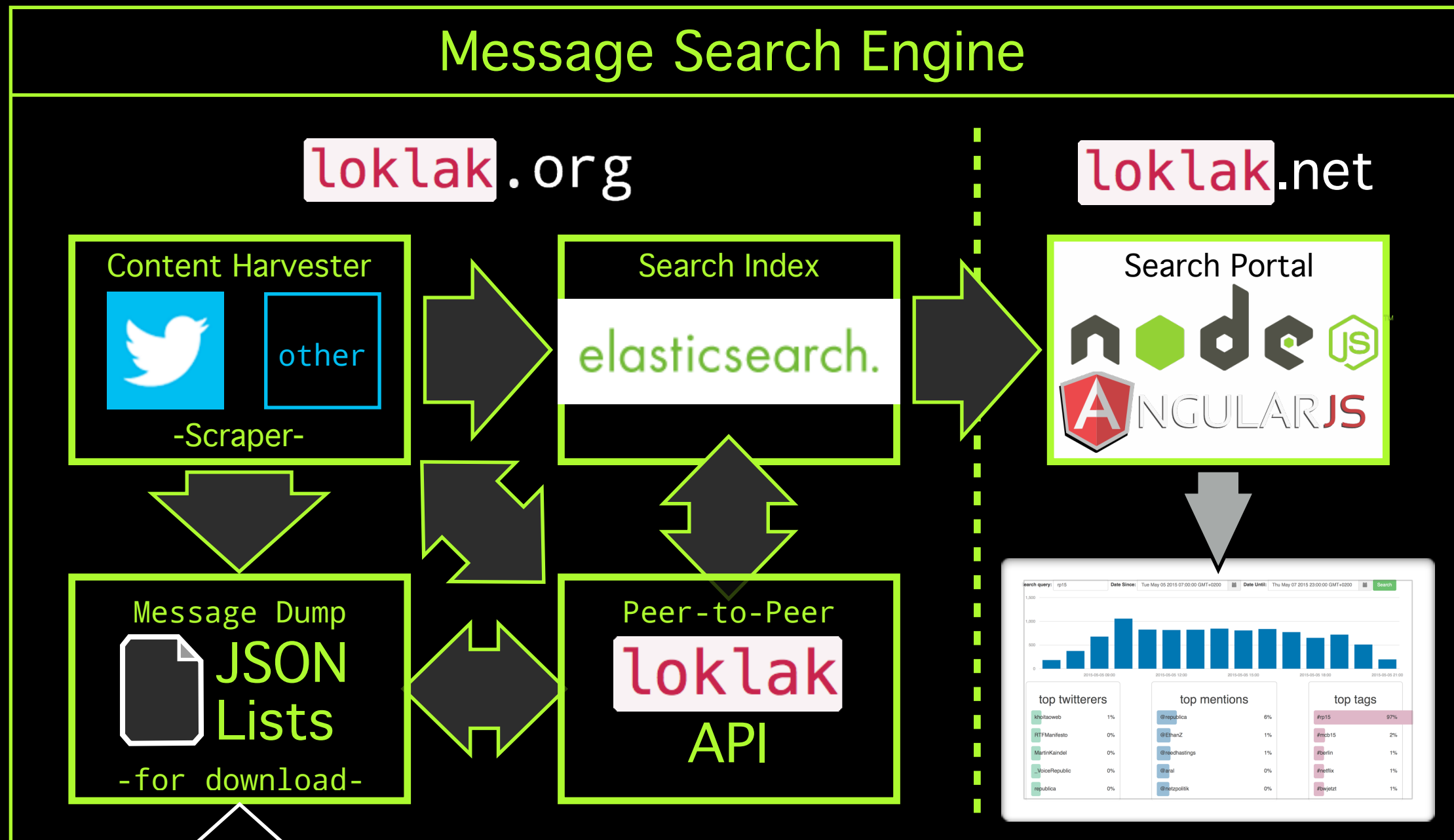
that is in **lok~~l~~ak**  
(but there is more)

you do this  
(easy)





## Message Search Engine

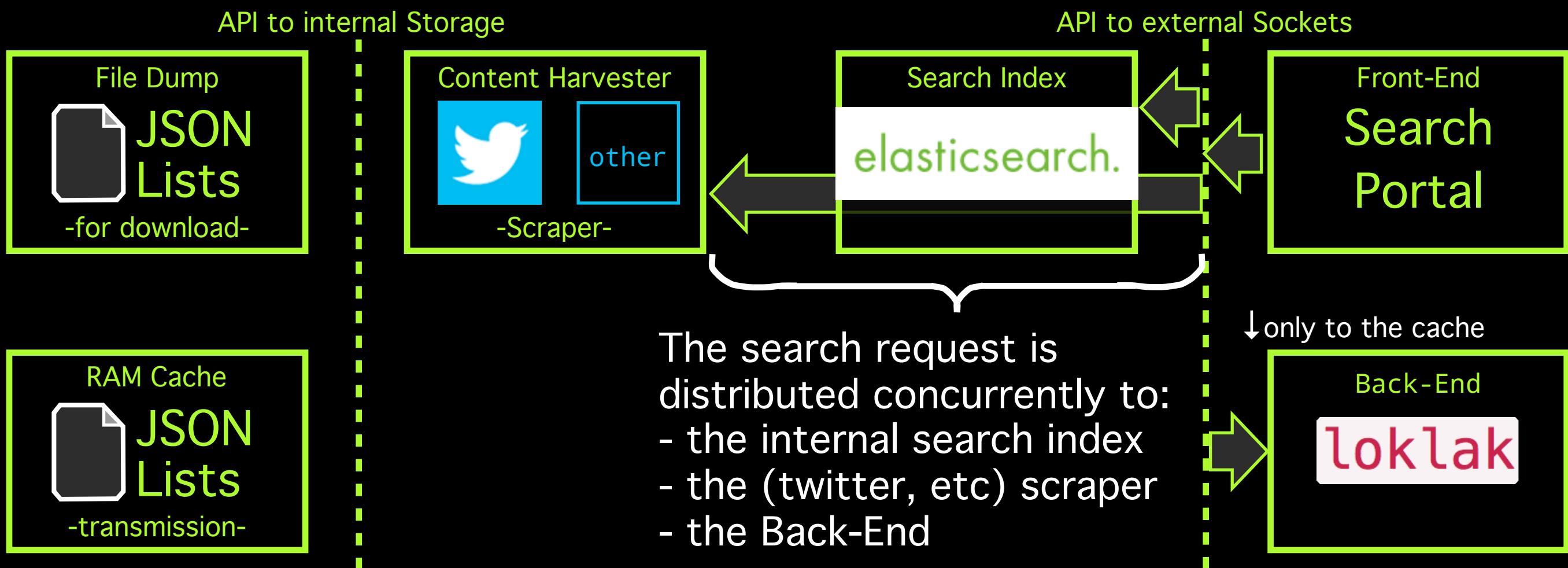


this becomes your very large collection of archived tweets





## Phase 1 (synchronous): Dispatching the Search Request



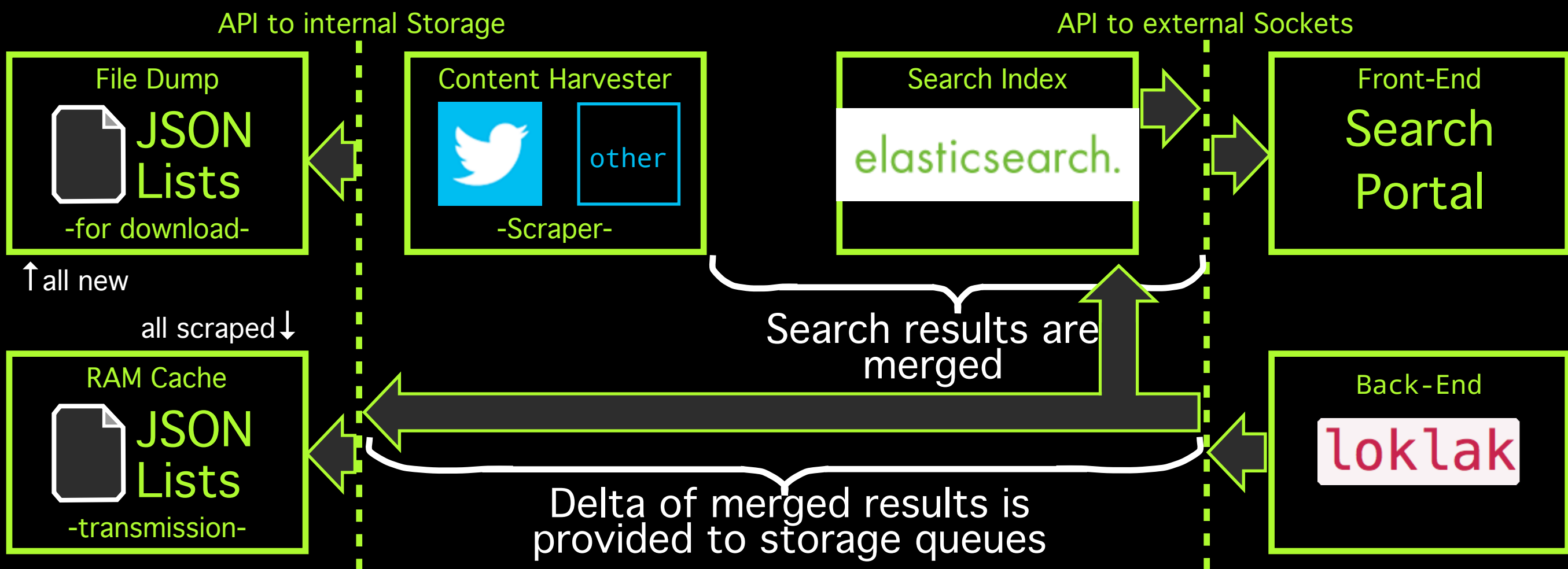
The search request is distributed concurrently to:

- the internal search index
- the (twitter, etc) scraper
- the Back-End





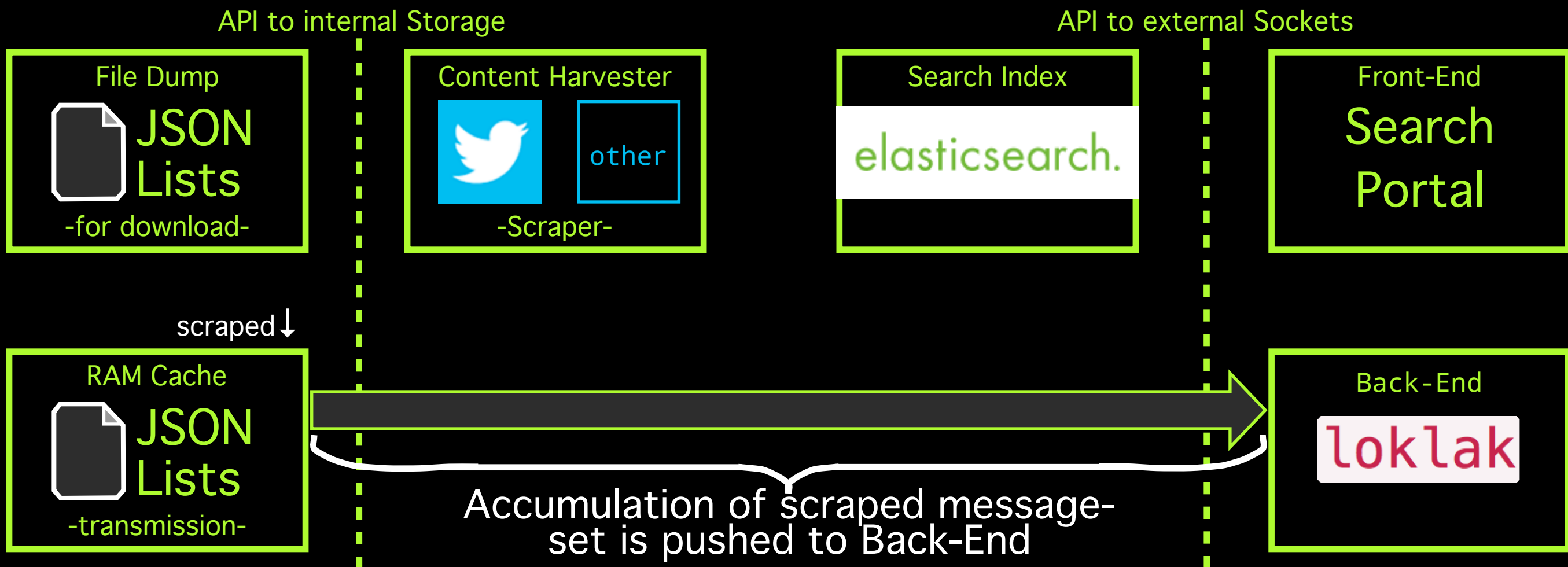
## Phase 2 (synchronous): Merging the Search Results

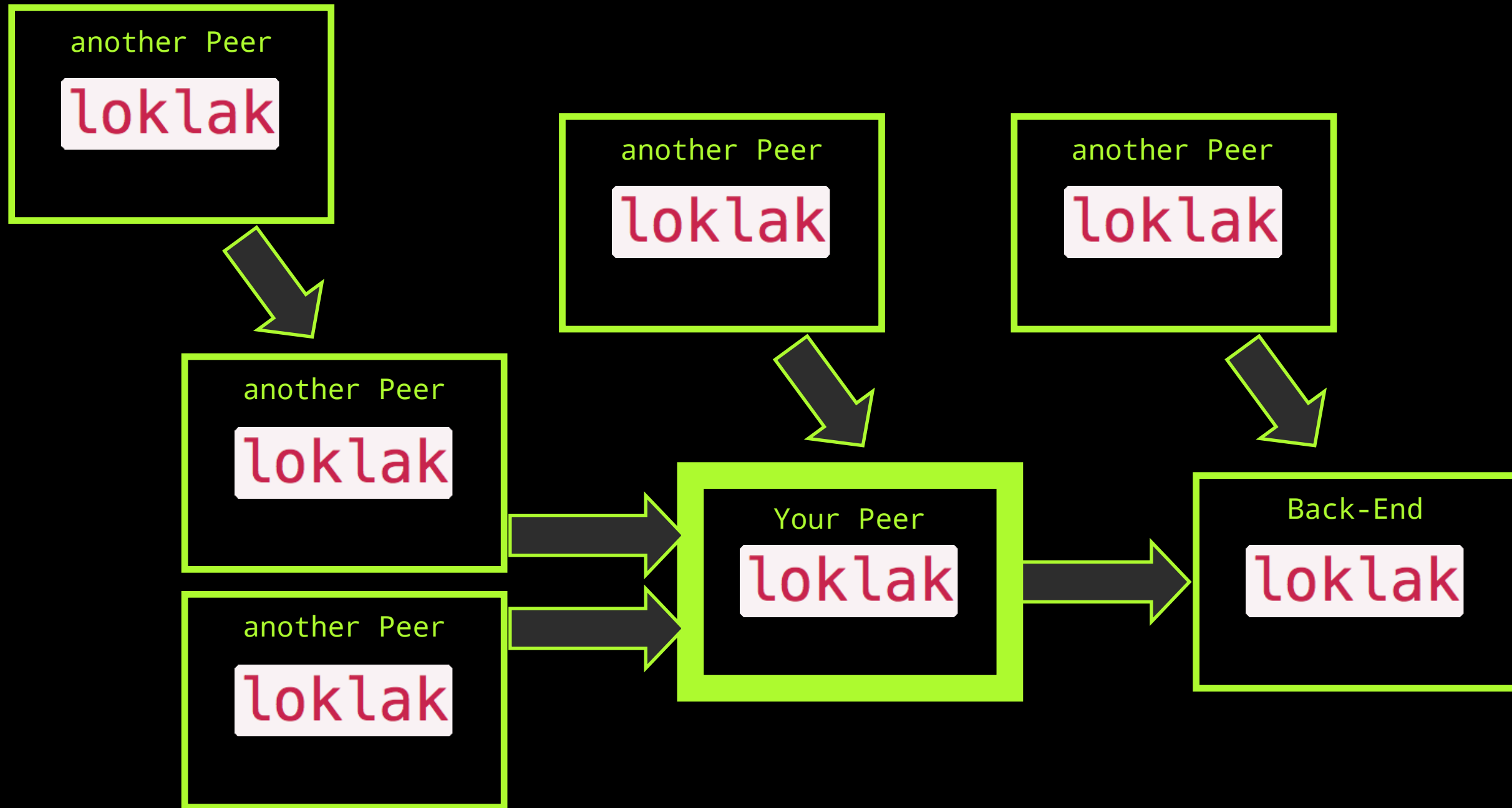






## Phase 3 (asynchronous): Distribution of Messages



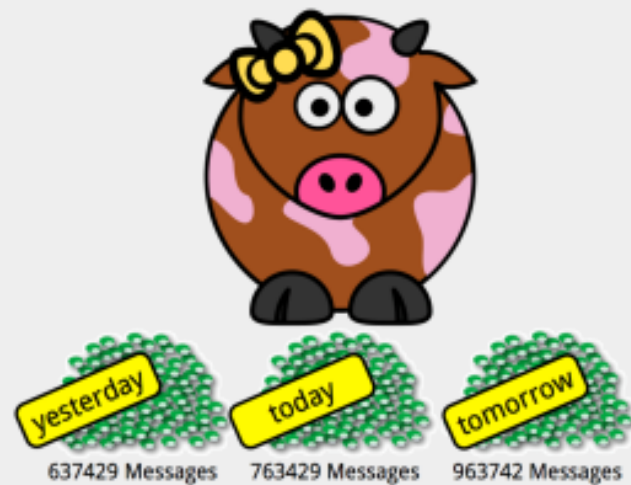




# lok`l`ak

## Distributed Tweet Search Server

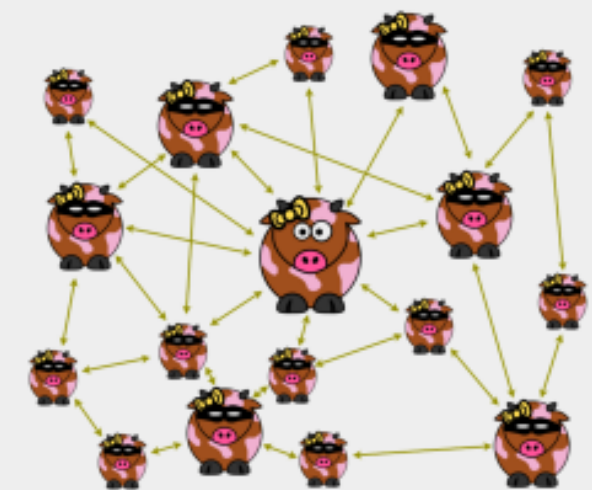
This is the Search Server for the [Loklak Webclient](#) hosting 708,739,590 messages for 51,399,969 users.  
Harvesting Speed: 8 messages per second; 691,200 messages per day.



Collect, dump and index tweet search results.



Anonymous search API. No user accounts, no authorization.



Peer-to-peer message routing and tweet dump sharing.

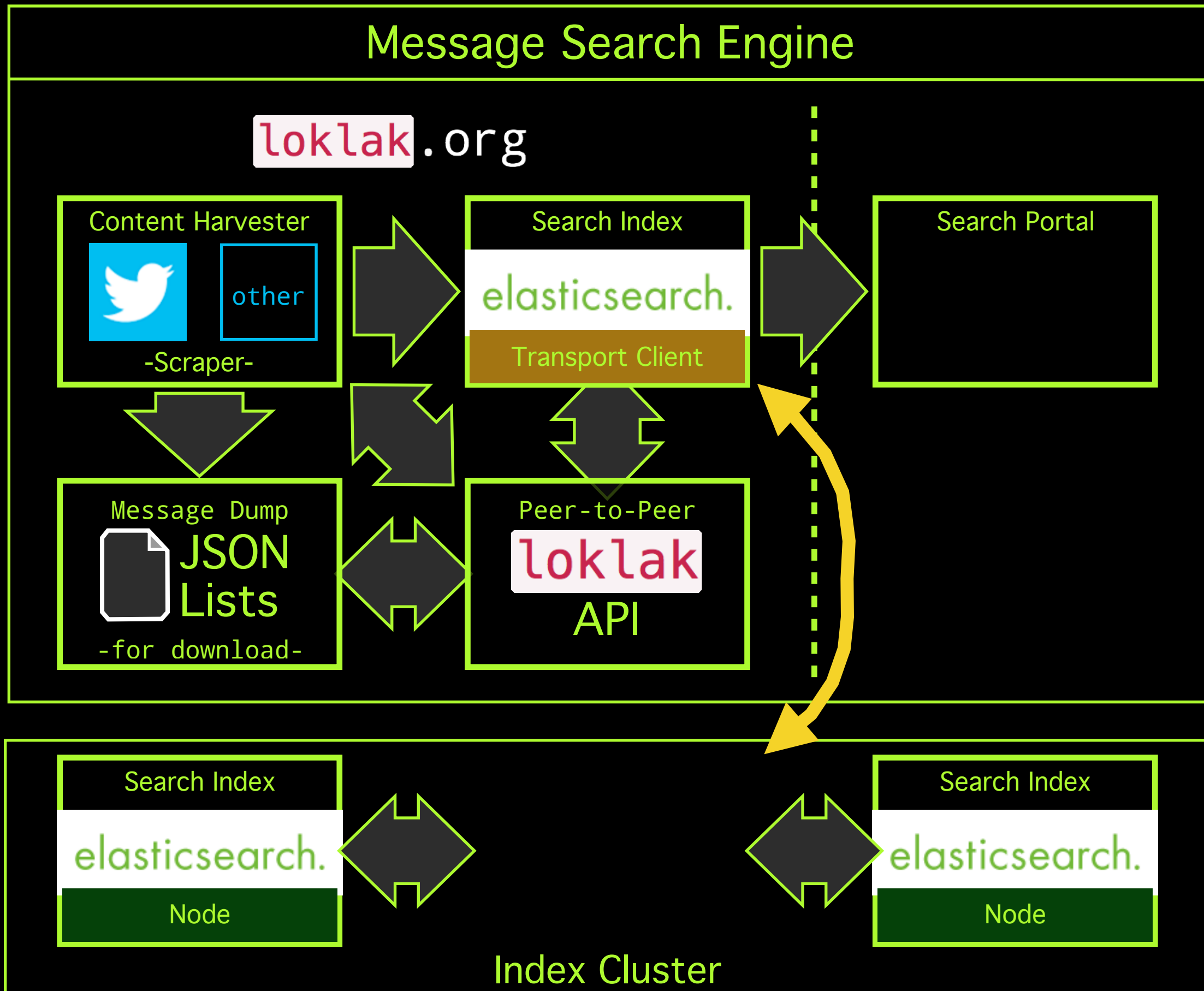
[Get JSON Data](#)

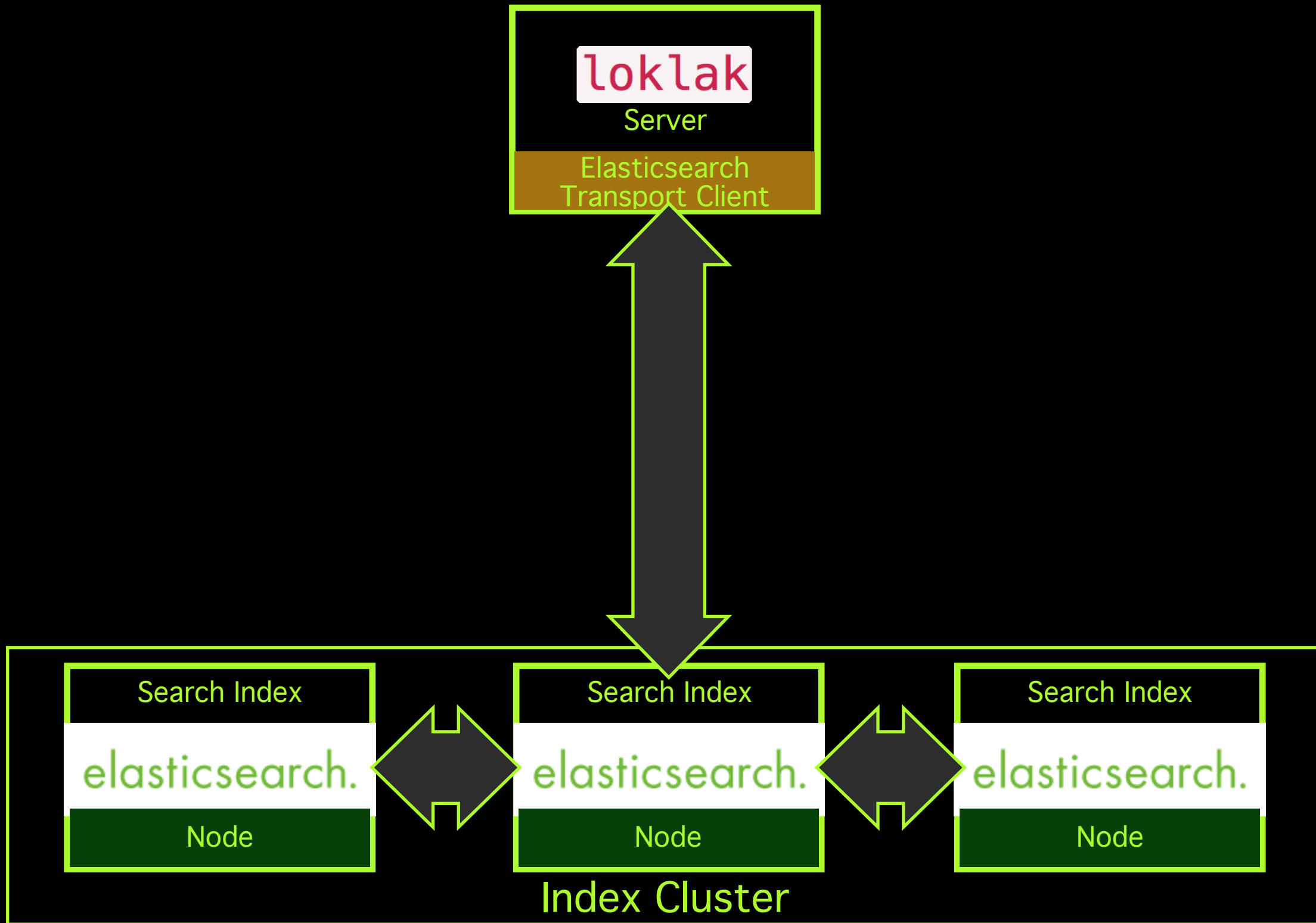
[Get RSS Feed](#)

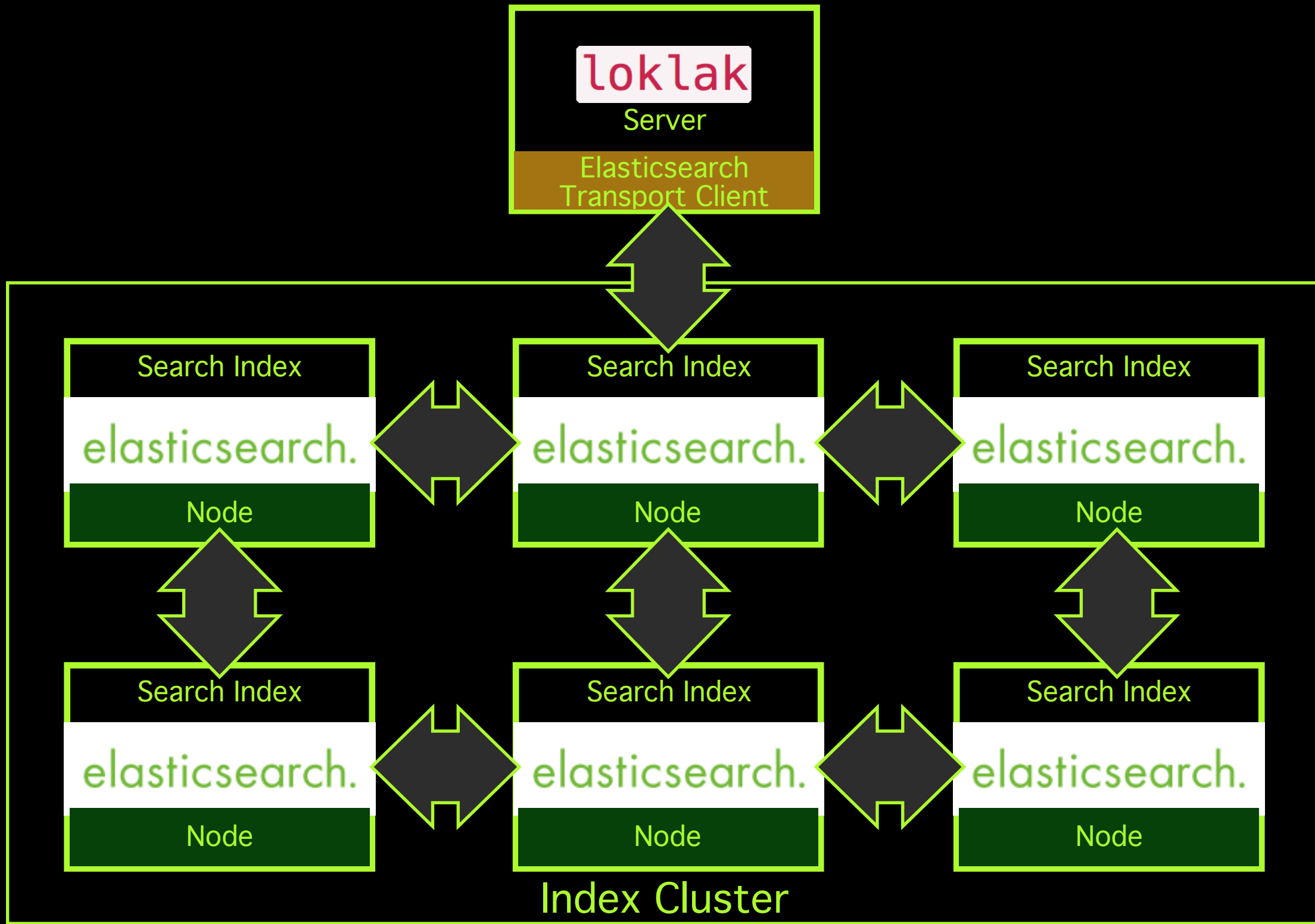
**Info** Input a search text or "search text" for exact matches; @user finds user mentions, from:user find messages from a user, #hashtag finds a hashtag, near:location finds messages near a location.



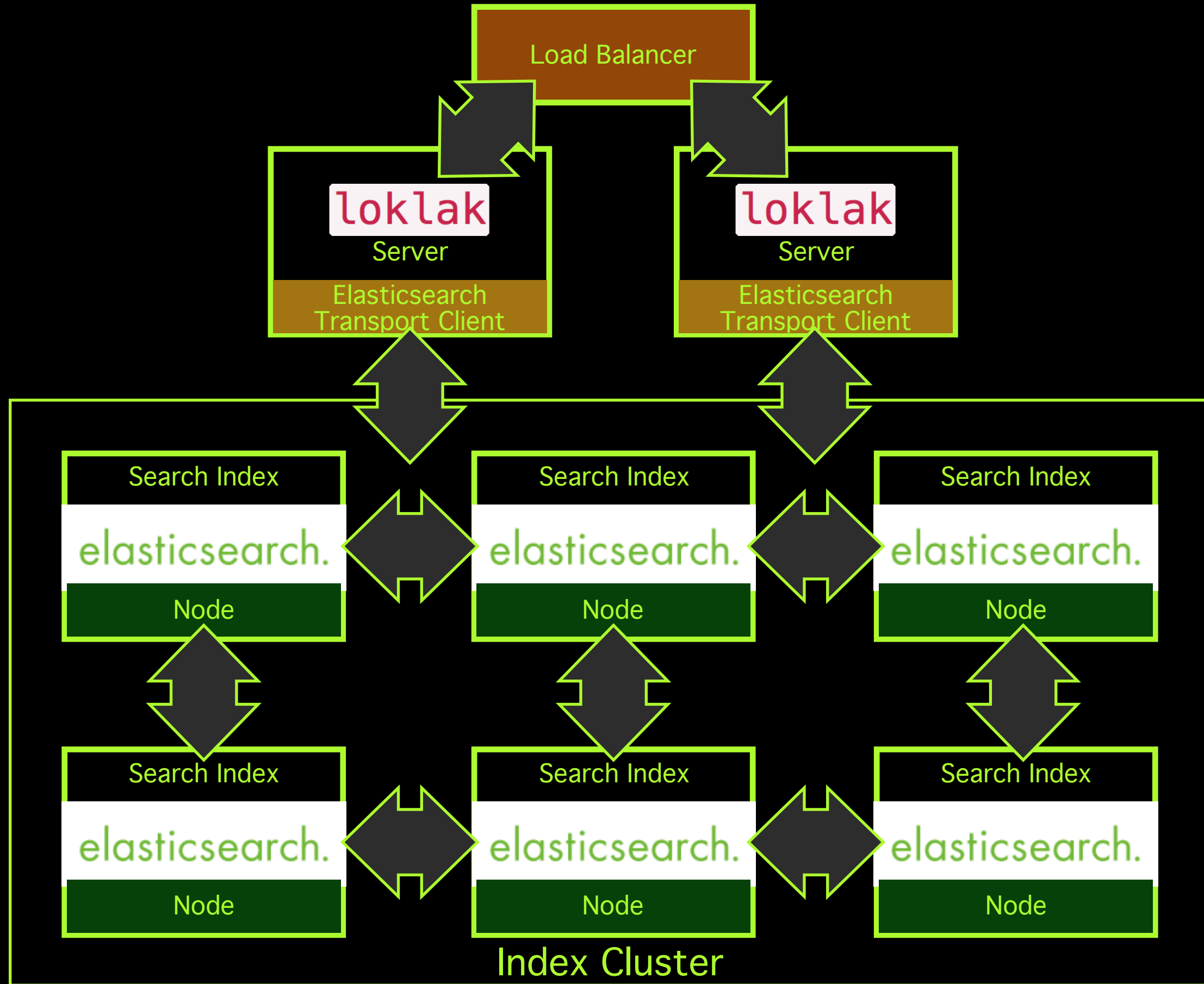


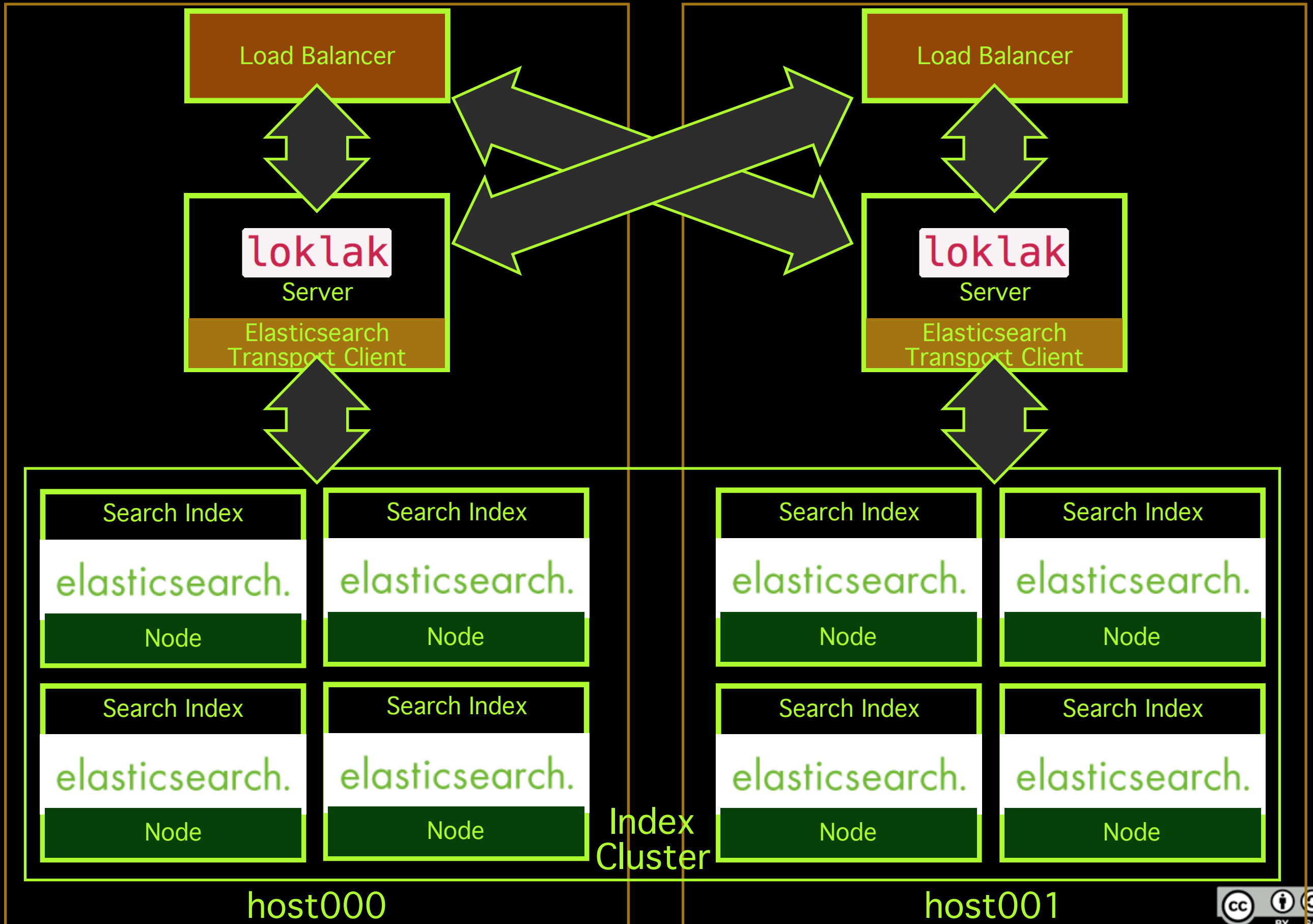






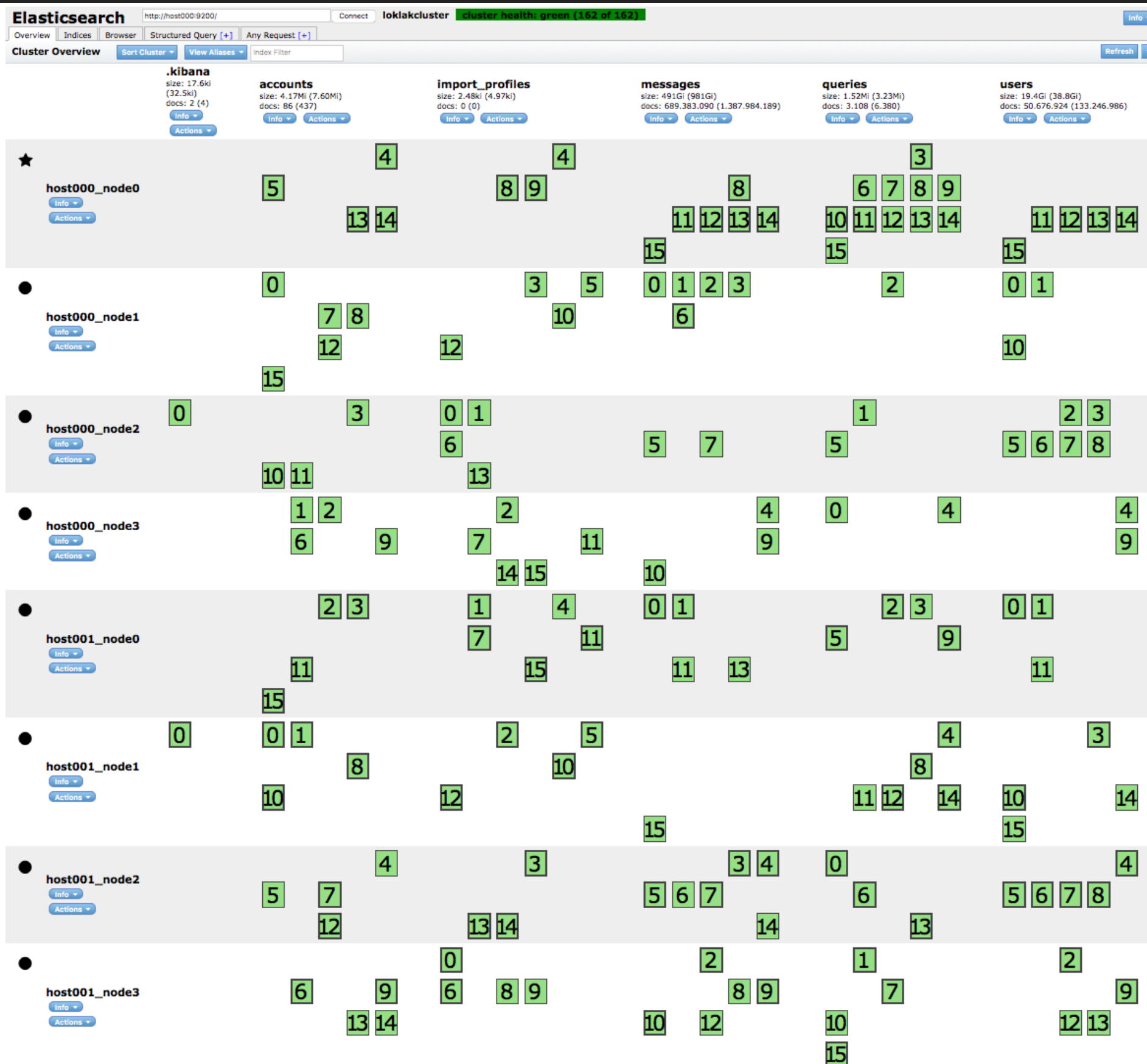








# Cluster in Elasticsearch Head







# Cluster in Elasticsearch Head

## Browser

Refresh

All Indices

- INDICES
- .kibana
- accounts
- import\_profiles
- messages
- queries
- users
- TYPES
- FOSSASIA\_API
- IMPORT
- NETMON
- OPENWIFIMAP
- TWITTER
- USER
- \_default\_
- config
- index-pattern

## FIELDS

- active\_status
- appearance\_first
- appearance\_latest
- apps.wall.all.text
- apps.wall.any.text
- apps.wall.blockRetweets
- apps.wall.chosenLocation
- apps.wall.cycle
- apps.wall.cycleDelayTime
- apps.wall.cyclePostLimit
- apps.wall.eventName
- apps.wall.headerColour
- apps.wall.headerForeColour
- apps.wall.headerPosition
- apps.wall.id
- apps.wall.images
- apps.wall.layoutStyle
- apps.wall.logo.base64
- apps.wall.logo.filename
- apps.wall.logo.filesize
- apps.wall.logo.filetype
- apps.wall.mainHashtag
- apps.wall.mainHashtagText
- apps.wall.none.text
- apps.wall.profanity
- apps.wall.showEventName
- apps.wall.showLoklakLogo
- apps.wall.showStatistics
- apps.wall.sinceDate
- apps.wall.type
- apps.wall.untilDate

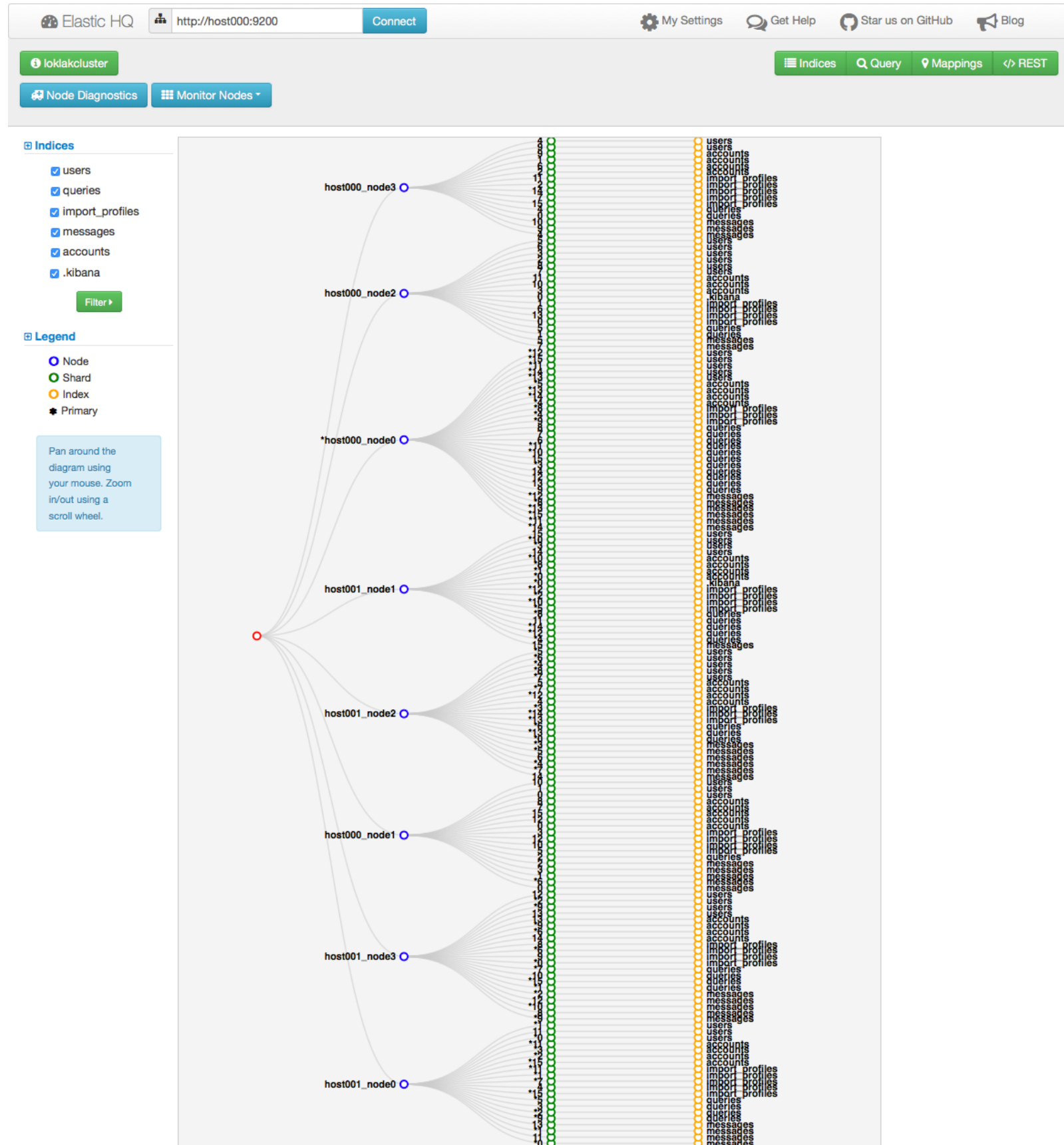
Searched 16 of 16 shards. 15623 hits. 4.975 seconds

_index	_type	_id	_score	timestamp	created_at	screen_name	text
messages	TWITTER	708821898990235649		2016-03-14T08:27:22.857Z	2016-03-13T01:08:04.000Z	kapper1224	Netwalker Labo FOSSASIA2016 2016/3/20 13:30~ Hacking ARM Mobile Linux presenta
messages	TWITTER	708909606437662720		2016-03-14T08:27:22.782Z	2016-03-13T06:56:35.000Z	foss_asia	http://fossasia.blogspot.com/
messages	TWITTER	708909607662407680		2016-03-14T08:27:22.772Z	2016-03-13T06:56:36.000Z	foss_asia	http://fossasia.blogspot.com/
messages	TWITTER	708932259554861057		2016-03-14T08:27:22.644Z	2016-03-13T08:26:36.000Z	kedardk	Hearty Congratulations to our dear friend Rahul Mahale who has been invited to FOSSASIA
messages	TWITTER	708976215605047296		2016-03-14T08:27:22.585Z	2016-03-13T11:21:16.000Z	Orbt13r	@nause_marc @lok <sup>l</sup> ak_app @frank_gamefreak AAH I just tested it and its GREAT! Haha fi
messages	TWITTER	709053647242432512		2016-03-14T08:27:22.241Z	2016-03-13T16:28:57.000Z	prasad_pitagi	Yahoo got t-shirt from Google for participating in #gci with #fossasia.....
messages	TWITTER	709136139332890625		2016-03-14T08:27:22.212Z	2016-03-13T21:56:45.000Z	foss_asia	http://fossasia.blogspot.com/
messages	TWITTER	709178508111548417		2016-03-14T08:27:22.205Z	2016-03-14T00:45:06.000Z	fossasia	It's #Monday Morning again.. but guess what? There's #FOSSASIA to look forward to this
messages	TWITTER	709260211836485632		2016-03-14T08:27:22.204Z	2016-03-14T06:09:46.000Z	philipkokoh	https://twitter.com/fossasia/status/709178508111548417
messages	TWITTER	709261212043890688		2016-03-14T08:27:22.203Z	2016-03-14T06:13:45.000Z	EvasiumDev	Kushal das: python track at fossasia 2016 https://kushaldas.in/posts/python-track-at-foss
messages	TWITTER	709269794885738496		2016-03-14T08:27:22.200Z	2016-03-14T06:47:51.000Z	Jaysinhp	@kushaldas For FOSSASIA-2016?
messages	USER	707999735118954496		2016-03-13T08:11:24.913Z	2016-03-10T18:41:05.000Z	lok <sup>l</sup> ak_app	"http://fossasia.org/ presenting #lok <sup>l</sup> ak and representing #YaCy"
messages	USER	708298385736863744		2016-03-12T22:46:28.870Z	2016-03-11T14:27:49.000Z	_J_L_M_	https://kushaldas.in/posts/python-track-at-fossasia-2016.html?utm_source=twitterfeed&u
messages	USER	708345027349467136		2016-03-12T22:46:28.869Z	2016-03-11T17:33:09.000Z	nakatomi231	Listening to systemd talk #fossasia
messages	USER	708579636825890816		2016-03-12T22:46:28.864Z	2016-03-12T09:05:24.000Z	sogko	@fossasia hey do you guys have the FOSSASIA 2016 schedule on google calendar or ical?
messages	USER	708612567673872384		2016-03-12T22:46:28.863Z	2016-03-12T11:16:16.000Z	sogko	https://github.com/sogko/fossasia-2016-google-calendar https://pic.twitter.com/NiVqn8lx
messages	USER	708608514592083968		2016-03-12T22:46:28.863Z	2016-03-12T11:00:09.000Z	fossasia	#Opensource Purist OR Pragmatist? For one weekend, converge at #Fossasia 2016
messages	USER	708633704860684288		2016-03-12T22:46:28.862Z	2016-03-12T12:40:15.000Z	schestowitz	https://kushaldas.in/posts/python-track-at-fossasia-2016.html
messages	USER	708633814654791680		2016-03-12T22:46:28.862Z	2016-03-12T12:40:41.000Z	jigyasa_grover	@sogko @fossasia Awesome.
messages	USER	708637202901704705		2016-03-12T22:46:28.862Z	2016-03-12T12:54:09.000Z	hpdang	thanks http://2016.fossasia.org/volunteers https://pic.twitter.com/83CCnYOh50
messages	USER	708704980669059072		2016-03-12T22:46:28.859Z	2016-03-12T17:23:29.000Z	protocol96	Kushal Das: Python track at FOSSASIA 2016 https://www.protocol96.com/blog/kushal-da-
messages	USER	708782925664288768		2016-03-12T22:46:28.846Z	2016-03-12T22:33:12.000Z	nakatomi231	Listening to systemd talk #fossasia
messages	USER	708293616620285953		2016-03-12T22:46:10.320Z	2016-03-11T14:08:52.000Z	PythonDiario	Kushal Das: Python track at FOSSASIA 2016 https://kushaldas.in/posts/python-track-at-f
messages	USER	708294433847042049		2016-03-12T22:46:10.304Z	2016-03-11T14:12:07.000Z	programmingncr	Kushal Das: Python track at FOSSASIA 2016
messages	USER	708295868659535872		2016-03-12T22:46:10.301Z	2016-03-11T14:17:49.000Z	foss_asia	http://fossasia.blogspot.com/
messages	USER	708356590932365313		2016-03-12T22:46:05.992Z	2016-03-11T18:19:06.000Z	PythonBooks	https://kushaldas.in/posts/python-track-at-fossasia-2016.html https://pic.twitter.com/1g!
messages	TWITTER	707403325390520320		2016-03-10T01:15:54.106Z	2016-03-09T03:11:10.000Z	philipkokoh	I will be giving a workshop at #FOSSASIA 2016 titled: Elasticsearch: You know, for search
messages	TWITTER	707451350733422593		2016-03-10T01:15:54.105Z	2016-03-09T06:22:00.000Z	Jay7t	Программа на следующую неделю: http://2016.pgday.asia/index.html#program #FOSS/
messages	TWITTER	707551664819949568		2016-03-10T01:15:54.103Z	2016-03-09T13:00:37.000Z	foss_asia	http://fossasia.blogspot.com/
messages	TWITTER	707572435885776896		2016-03-10T01:15:54.100Z	2016-03-09T14:23:09.000Z	foss_asia	http://fossasia.blogspot.com/
messages	TWITTER	707595698473213952		2016-03-10T01:15:54.096Z	2016-03-09T15:55:35.000Z	dyadyaLeshia	@fossasia @Jay7t @pleia2 poor woman <img class="Emoji Emoji--forText" src="https://a
messages	TWITTER	707619194540396544		2016-03-10T01:15:54.094Z	2016-03-09T17:28:57.000Z	nixxin	And we'll need to do this again soon! https://twitter.com/fossasia/status/7075580744001!
messages	TWITTER	707629365362892801		2016-03-10T01:15:54.092Z	2016-03-09T18:09:22.000Z	maco_nix	@fossasia @pleia2 in your traditional pink i see!
messages	TWITTER	707695491249774592		2016-03-10T01:15:54.035Z	2016-03-09T22:32:08.000Z	freebassel	Locations 4 19/03/16 @2pm: #london #marble_arch #paris #berlin #alexanderplatz #sar
messages	USER	694096269858312193		2016-03-09T19:42:34.916Z	2016-02-01T09:53:41.000Z	PaulSmi81326119	http://fossasia.blogspot.com/
messages	USER	694096267811561473		2016-03-09T19:42:34.916Z	2016-02-01T09:53:40.000Z	PaulSmi81326119	http://fossasia.blogspot.com/
messages	USER	694096264758063105		2016-03-09T19:42:34.916Z	2016-02-01T09:53:39.000Z	PaulSmi81326119	http://fossasia.blogspot.com/
messages	USER	694096262107238400		2016-03-09T19:42:34.916Z	2016-02-01T09:53:39.000Z	PaulSmi81326119	http://fossasia.blogspot.com/
messages	USER	694096266041495552		2016-03-09T19:41:51.078Z	2016-02-01T09:53:40.000Z	PaulSmi81326119	http://fossasia.blogspot.com/
messages	USER	694038914240151552		2016-03-09T19:38:22.128Z	2016-02-01T06:05:46.000Z	PaulSmi81326119	http://fossasia.blogspot.com/
messages	USER	694038917553598464		2016-03-09T19:38:22.128Z	2016-02-01T06:05:47.000Z	PaulSmi81326119	http://fossasia.blogspot.com/
messages	USER	694010686486106113		2016-03-09T19:38:22.128Z	2016-02-01T04:13:36.000Z	PaulSmi81326119	http://fossasia.blogspot.com/
messages	USER	694010687639556096		2016-03-09T19:38:22.128Z	2016-02-01T04:13:36.000Z	PaulSmi81326119	http://fossasia.blogspot.com/
messages	USER	694010685328461824		2016-03-09T19:38:22.128Z	2016-02-01T04:13:36.000Z	PaulSmi81326119	http://fossasia.blogspot.com/
messages	USER	694010688436461568		2016-03-09T19:38:22.128Z	2016-02-01T04:13:36.000Z	PaulSmi81326119	http://fossasia.blogspot.com/
messages	USER	694038918405054465		2016-03-09T19:38:22.128Z	2016-02-01T06:05:47.000Z	PaulSmi81326119	http://fossasia.blogspot.com/
messages	USER	694010689338212353		2016-03-09T19:38:22.128Z	2016-02-01T04:13:37.000Z	PaulSmi81326119	http://fossasia.blogspot.com/
messages	USER	694062078433165312		2016-03-09T19:38:22.125Z	2016-02-01T07:37:49.000Z	seoul_victoria	@opensrcdesign @jancborchardt Are you coming to @fossasia? would be great to have "O
messages	USER	694041237792382976		2016-03-09T19:30:09.835Z	2016-02-01T06:15:00.000Z	axelerant	Meetup 4 http://www.meetup.com/FOSSASIA-OpenTech-Startup-Network/events/228435
messages	USER	693900139316908032		2016-03-09T18:39:18.082Z	2016-01-31T20:54:19.000Z	PaulSmi81326119	http://fossasia.blogspot.com/





# Cluster in Elasticsearch HQ





12:57:18 

## Cluster Overview

### Cluster Statistics

<b>8</b> Nodes	<b>162</b> Total Shards	<b>162</b> Successful Shards	<b>6</b> Indices	<b>739,945,807</b> Documents	<b>509.3GB</b> Size
-------------------	----------------------------	---------------------------------	---------------------	---------------------------------	------------------------

### Cluster Health

Status	<b>Green</b>
Timed Out?	false
# Nodes	8
# Data Nodes	8
Active Primary Shards	81
Active Shards	162
Relocating Shards	0
Initializing Shards	0
Unassigned Shards	0

### Indices

Index	# Docs	Primary Size	# Shards	# Replicas	Status
<a href="#">users</a>	50,672,657	19.4GB	16	1	open
<a href="#">queries</a>	3,107	2.0MB	16	1	open
<a href="#">messages</a>	689,269,955	489.9GB	16	1	open
<a href="#">import_profiles</a>	0	2.5KB	16	1	open
<a href="#">accounts</a>	86	4.2MB	16	1	open
<a href="#">.kibana</a>	2	17.6KB	1	1	open







Elastic HQ <http://host000:9200> [Connect](#) [My Settings](#) [Get Help](#) [Star us on GitHub](#) [Blog](#)

[loklakcluster](#) [Indices](#) [Query](#) [Mappings](#) [REST](#)

[Node Diagnostics](#) [Monitor Nodes](#)

### Node Diagnostics Information

12:56:24 [Select](#) [Help](#)

Mouseover each table cell for detailed information.

#### Summary

Node Name:	host000_node0	host000_node1	host000_node2	host000_node3	host001_node0	host001_node1	host001_node2	host001_node3
IP Address:	119.81.6.246:9300	119.81.6.246:9301	119.81.6.246:9302	119.81.6.246:9303	119.81.6.243:9300	119.81.6.243:9301	119.81.6.243:9302	119.81.6.243:9303
Node ID:	gymvE94vRCSH5OfLLD7lyg	MHUpxrsPQ-SNJ-VkLXaM1Q	LHMdKytKStmhBm2bMA-WJA	nueUlwhoSjqWCnAN-KIDQ	u7nH8dQHTC2mUIPCSPR-Dg	O9GkRnsQQuWUKrFXjBJPxQ	vJkqpGzVQjWyQgoemNmOnQ	wGvJcr1S-WDYTf8mR3_SQ
ES Uptime:	0.09 days	0.09 days	0.09 days	0.09 days	0.10 days	0.10 days	0.10 days	0.10 days

#### File System

Store Size:	189.9GB	157.1GB	68.2GB	94.3GB	125.8GB	35.7GB	189.8GB	158.0GB
# Documents:	274,324,090	224,847,855	105,147,381	135,588,726	181,754,722	55,768,979	274,304,764	228,079,458
Documents Deleted:	2.4%	2.3%	5.4%	2.4%	1.9%	8.4%	2.4%	2.5%
Merge Size:	6.3GB	4.4GB	3.0GB	2.4GB	3.6GB	1.8GB	5.5GB	4.4GB
Merge Time:	01:34:25	00:14:21	00:06:03	00:03:48	00:11:05	00:02:31	00:16:58	00:11:35
Merge Rate:	1.2 MB/s	5.5 MB/s	9 MB/s	11.2 MB/s	5.8 MB/s	12.8 MB/s	5.8 MB/s	6.9 MB/s
File Descriptors:	1,033	772	751	663	806	677	916	865
Disk space used:	23.3%	17.2%	7.5%	10.4%	22.4%	4%	20.8%	17.4%
Disk space free:	702.0GB	758.6GB	847.8GB	821.8GB	710.1GB	880.6GB	725.6GB	757.7GB

#### Index Activity

Indexing - Index:	18.88ms	3.8ms	1.31ms	1.26ms	2.7ms	0.67ms	3.71ms	2.16ms
Indexing - Delete:	0ms	0ms	0ms	0ms	0ms	0ms	0ms	0ms
Search - Query:	7334.85ms	1626.64ms	353.39ms	542.45ms	1179.8ms	136.85ms	1524.16ms	1116.29ms
Search - Fetch:	791.07ms	178.8ms	35.15ms	55.99ms	202.51ms	13.02ms	170.36ms	115.5ms
Get - Total:	77.66ms	21.09ms	17.46ms	11.86ms	18.79ms	11.61ms	21.13ms	15.03ms
Get - Exists:	144.98ms	46.63ms	22.51ms	25.48ms	37.65ms	13.08ms	40.19ms	30.21ms
Get - Missing:	37.29ms	9.51ms	8.74ms	5.11ms	7.59ms	7.8ms	10.37ms	6.58ms
Refresh:	577.39ms	251.66ms	119.31ms	80.22ms	209.26ms	69.71ms	225.73ms	172.66ms
Flush:	3400.85ms	355.07ms	264.06ms	135.67ms	672.77ms	207.88ms	727.54ms	581ms

#### Cache Activity

Field Size:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Field Evictions:	0	0	0	0	0	0	0	0
Filter Cache Size:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Evictions:	0 per query	0 per query	0 per query	0 per query	0 per query	0 per query	0 per query	0 per query
ID Cache Size:								
% ID Cache:	0%	0%	0%	0%	0%	0%	0%	0%

#### Memory

Total Memory:	0 gb	0 gb	0 gb	0 gb	0 gb	0 gb	0 gb	0 gb
Heap Size:	1.5 gb	1.5 gb	1.5 gb	1.5 gb	1.5 gb	1.5 gb	1.5 gb	1.5 gb
Heap % of RAM:	0%	0%	0%	0%	0%	0%	0%	0%
% Heap Used:	94.4%	67.3%	70.2%	65%	64.2%	71.3%	82.5%	63.7%
GC MarkSweep Frequency:	0 s	0 s	0 s	0 s	0 s	0 s	0 s	0 s
GC MarkSweep Duration:	0ms	0ms	0ms	0ms	0ms	0ms	0ms	0ms
GC ParNew Frequency:	0 s	0 s	0 s	0 s	0 s	0 s	0 s	0 s
GC ParNew Duration:	0ms	0ms	0ms	0ms	0ms	0ms	0ms	0ms
G1 GC Young Generation Freq:	0 s	0 s	0 s	0 s	0 s	0 s	0 s	0 s
G1 GC Young Generation Duration:	0ms	0ms	0ms	0ms	0ms	0ms	0ms	0ms
G1 GC Old Generation Freq:	0 s	0 s	0 s	0 s	0 s	0 s	0 s	0 s
G1 GC Old Generation Duration:	0ms	0ms	0ms	0ms	0ms	0ms	0ms	0ms
Swap Space:	160.6953 MB	160.6953 MB	160.6953 MB	160.6953 MB	172.7148 MB	172.7148 MB	172.7148 MB	172.7148 MB

#### Network

HTTP Connection Rate:	1 /second	0 /second	0 /second	0 /second	0 /second	0 /second	0 /second	0 /second
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# Kibana Data Evaluation

The screenshot shows the Kibana interface for a search query 'fossasia'. The top navigation bar includes 'Discover', 'Visualize', 'Dashboard', and 'Settings'. The search bar shows 'fossasia' with 55 hits. The left sidebar has three panels: 'messages', 'Visualize', and 'Visualize', each with a 'Quick Count' of 55/55 records. The 'messages' panel shows a list of terms like FOSSASIA (12.7%), fossasia (9.1%), Singapore (7.9%), oVirt (5.5%), and FOSSAsia (5.5%). The 'Visualize' panels show 'hosts' and 'mentions' with their respective bar charts. The main area displays a bar chart of 'Count' vs 'created\_at per 12 hours' and a table of tweets.

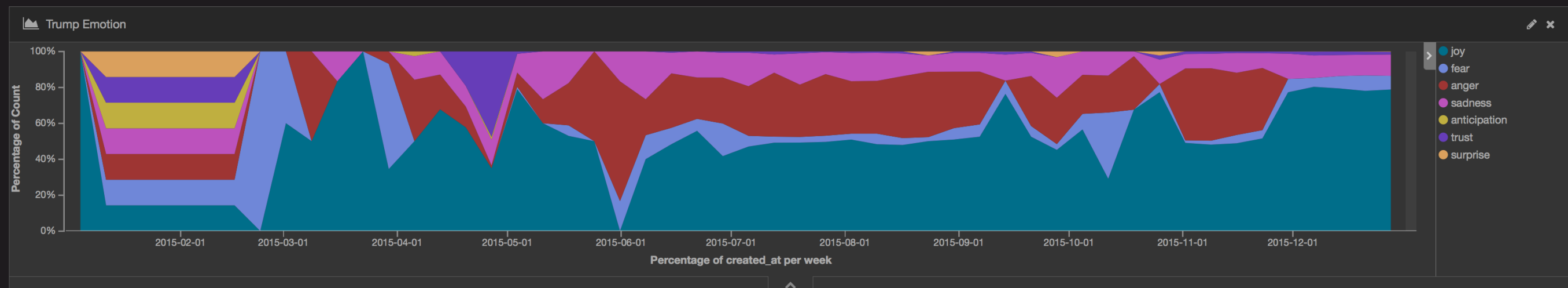
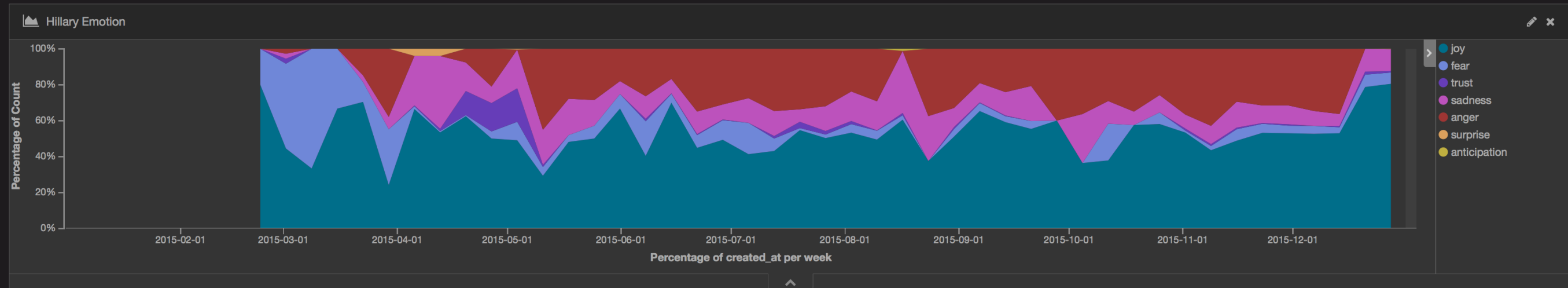
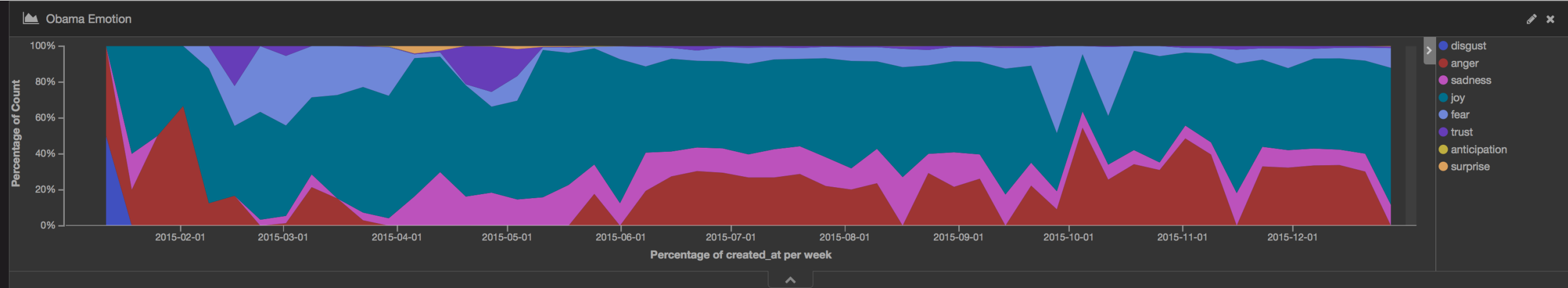
Time	text	retweet_count	mentions_count	hashtags	mentions
March 7th 2015, 10:14:50.000	@sonnenkiste Cool! I'll use it at <b>fossasia</b> next week!	0	1	[]	sonnenkiste
March 7th 2015, 08:29:26.000	foobar # <b>FOSSASIA</b>	0	0	FOSSASIA	[]
March 7th 2015, 06:51:10.000	will you be @ <b>fossasia</b> ? I'm excited to give a keynote about @mariadb there! <a href="http://fossasia.org/">http://fossasia.org/</a>	1	2	[]	["fossasia", "mariadb"]
March 7th 2015, 06:49:11.000	di @ <b>fossasia</b> akan bicara @tuanpembual dari @GLiBogor, @syaimif dari @blankonLinux, @emily_chen dari @gnome_asia.	3	7	[]	["fossasia", "tuanpembual", "GLiBogor", "sy"]
March 7th 2015, 06:23:49.000	Speaking about #ContentTranslation in @ <b>fossasia</b> , Singapore CC @whatToTranslate @santhosht @runa_b @aharoni @pauginer @nikerabbit	0	7	ContentTranslation	["fossasia", "whatToTranslate", "santhosht"]
March 6th 2015, 23:12:01.000	Very excited to speak about Git and @pdxgit at @ <b>fossasia</b> and to meet Free+Open source locals in Singapore. Who else is going to be there?	0	2	[]	["pdxgit", "fossasia"]
March 6th 2015, 20:47:05.000	There will be a very interesting #Mozilla track at # <b>FOSSASIA</b> in Singapore: <a href="http://fossasia.org/track/FOSSASIA-Mozilla.pdf">http://fossasia.org/track/FOSSASIA-Mozilla.pdf</a>	3	0	["Mozilla", "FOSSASIA"]	[]
March 6th 2015, 18:05:30.000	Great meetup with new friends today. Time to stick more with #twitter and # <b>fossasia</b>	0	0		
March 6th 2015, 16:57:32.000	I will be talking about #FLOSS licenses and business models at @ <b>fossasia</b> workshops. On 14/03/2015 at 15H30 at NUS Plug-In@Blk71, Singapore!	1	1		

If you have enough data, you can make that

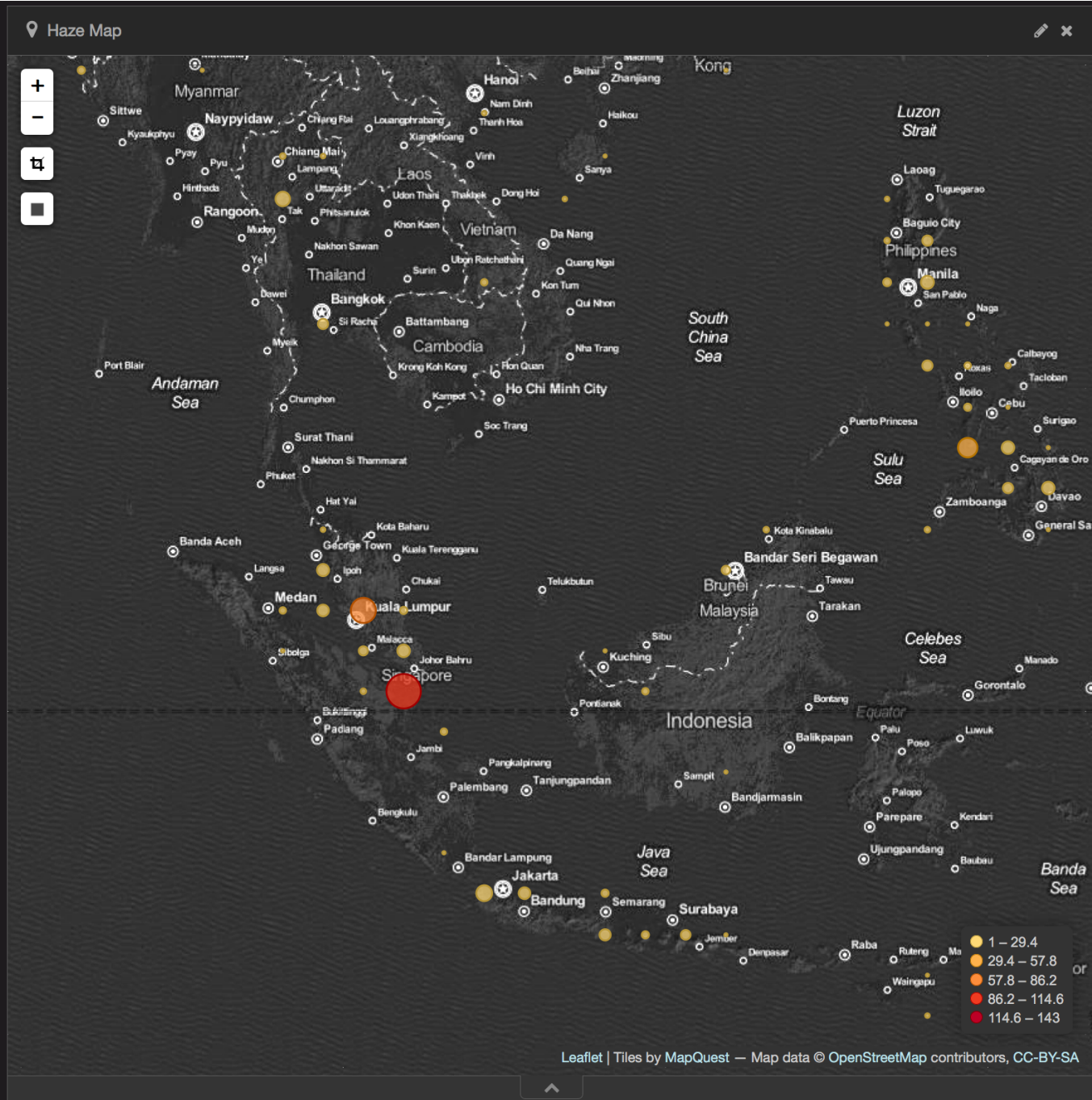
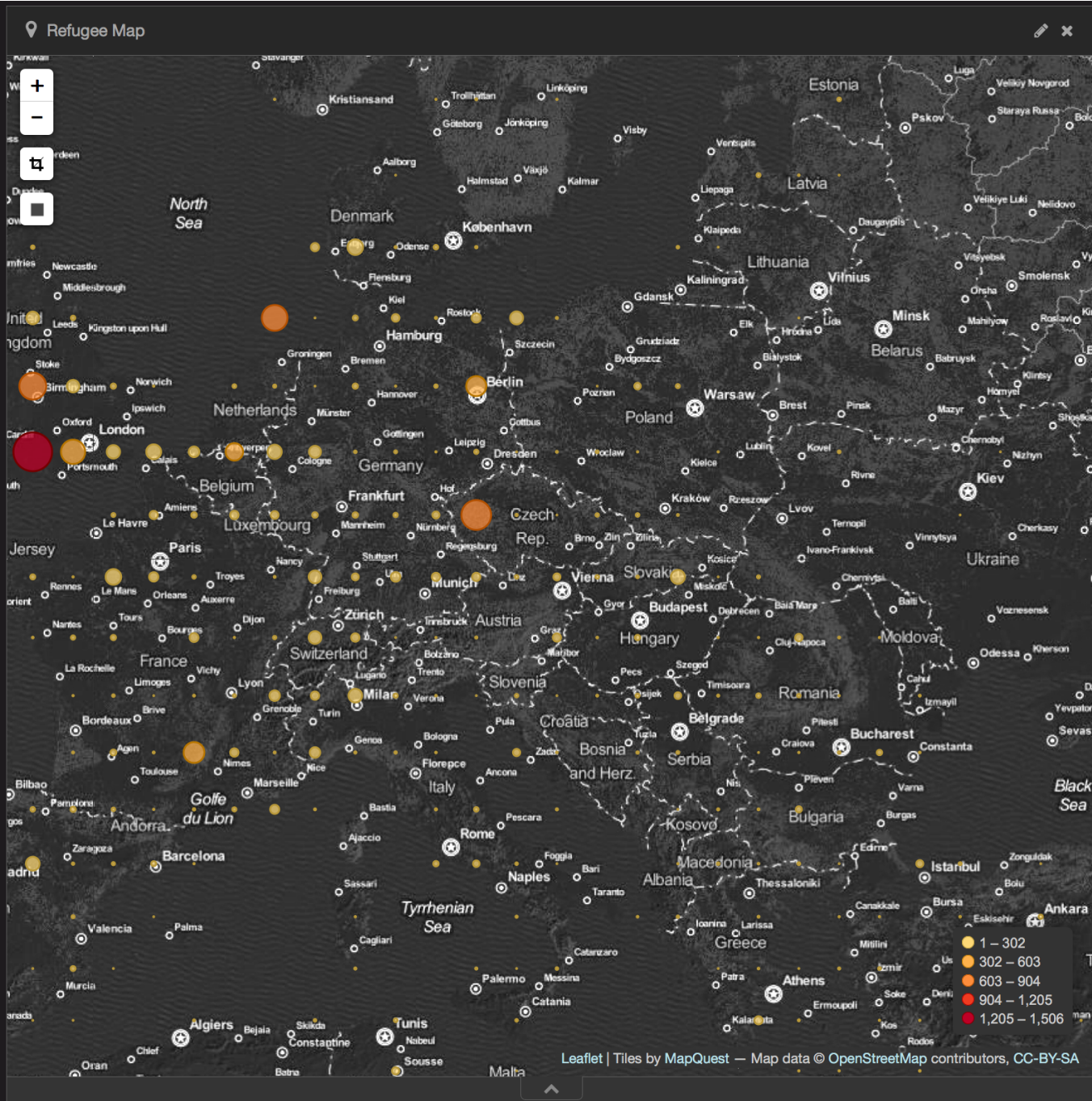
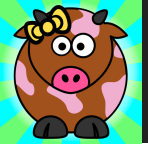




# Kibana Predicting Election using Emotions









https://github.com/Yathannsh/tweetRetriver

Yathannsh / **tweetRetriver** Watch 1 Unstar 1 Fork 0

Code Issues 0 Pull requests 0 Wiki Pulse Graphs

A Loklak based tweet retriever <http://gci.yathannsh.com/tweetr>

6 commits 1 branch 0 releases 1 contributor

Branch: master New pull request New file Upload files Find file HTTPS <https://github.com/Yathannsh/tweetRetriver> Download ZIP

Yathannsh Merge remote-tracking branch 'origin/master'		Latest commit ed62e7d on 15 Jan
css	Fixed search icon & overlapping	2 months ago
README.md	Update README.md	2 months ago
index.html	Fixed search icon & overlapping	2 months ago
licence.md	Create licence.md	2 months ago

## README.md

# Starwars Tweet Retrriver

A Loklak based tweet retriever, which retrives tweets related to the movie - Starwars

## Working

- This single page application displays the most recent 100 tweets related to Starwars
- It makes use of the Loklak API
- It's build on Ajax







MC Michael 9.12.15 ✓  
/start

L loklak.org bot 9.12.15

Michael Christen  
/start

lok~~l~~ak.org bot - simple Telegram bot for searching tweets.  
Just send a message with your query and bot will process it, using [lok~~l~~ag.org](http://lok<del>l</del>ag.org) API.  
If you want to contribute, project is open source: <https://github.com/sevazhidkov/tweets-search-bot>

lok~~l~~ak.org  
lok~~l~~ak: Distributed Tweet Search Server  
Twitter Scraper

MC Michael 9.12.15 ✓  
What is love

L loklak.org bot 9.12.15

Michael Christen  
What is love

"Is this what love looks like? [http://lok~~l~~ak.org/x?id=674649768073650177](http://lok<del>l</del>ak.org/x?id=674649768073650177)" - MTVteenwolf

<https://twitter.com/MTVteenwolf/status/674649768073650177>

99 more tweets. [/next\\_tweet](#)

Twimg  
Twitter Video



MC Michael 9.12.15 ✓  
Xwing

L loklak.org bot 9.12.15

Michael Christen  
Xwing

"X-Wing: A Simple Star Wars Flying Game on WebGL - [http://oos.moxiecode.com/js\\_webgl/xwing/](http://oos.moxiecode.com/js_webgl/xwing/) <https://pic.twitter.com/V9s0m3v77H>" - HTML5Weekly

<https://twitter.com/HTML5Weekly/status/672150283389136896>

99 more tweets. [/next\\_tweet](#)

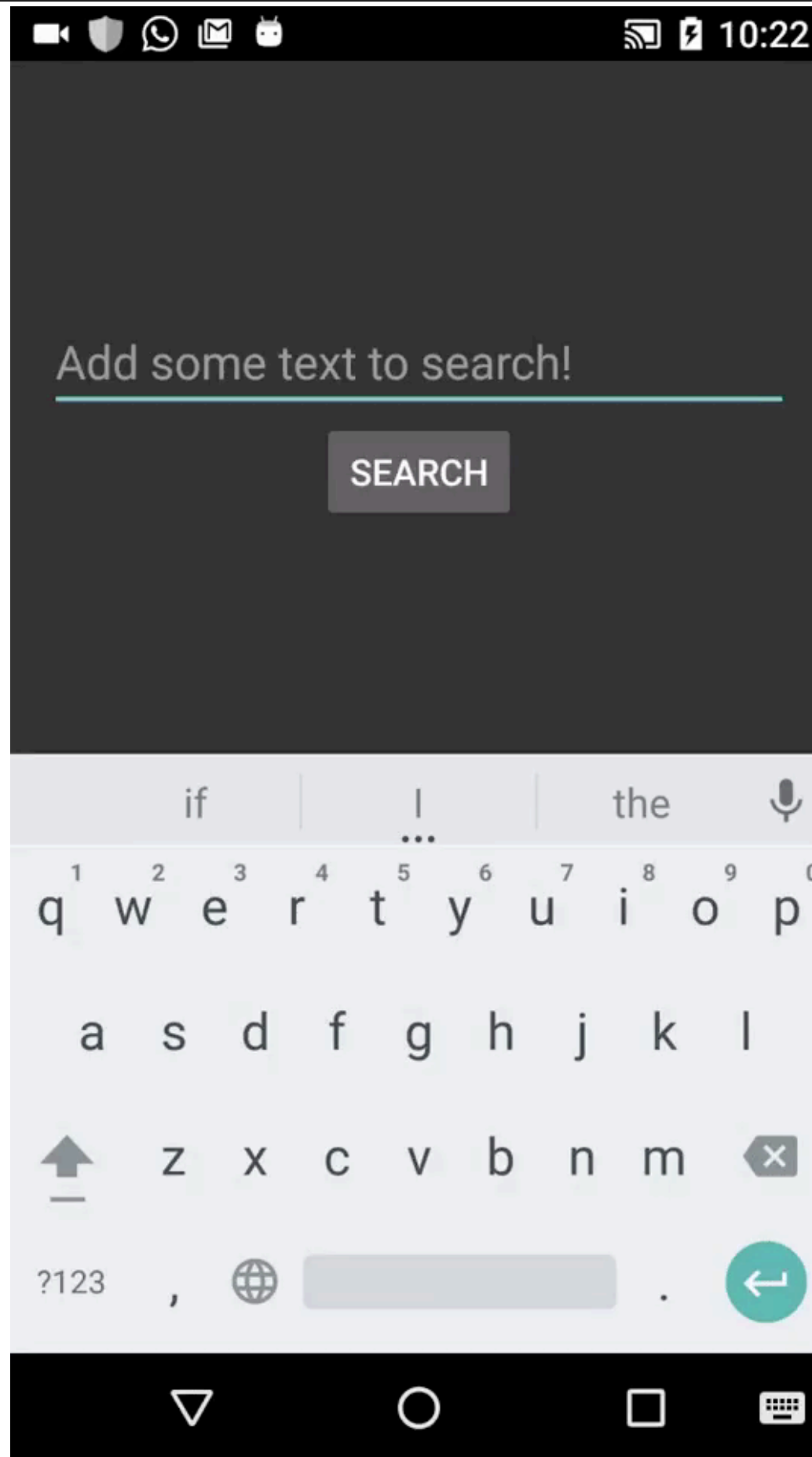
MC Michael 9.12.15 ✓  
[/next\\_tweet](#)

L loklak.org bot 9.12.15

Michael Christen  
[/next\\_tweet](#)









# API external Application: Android Harvest App [loklak.org](http://loklak.org)





## report:fossasia

### Followers



**FOSSASIA**  
@fossasia

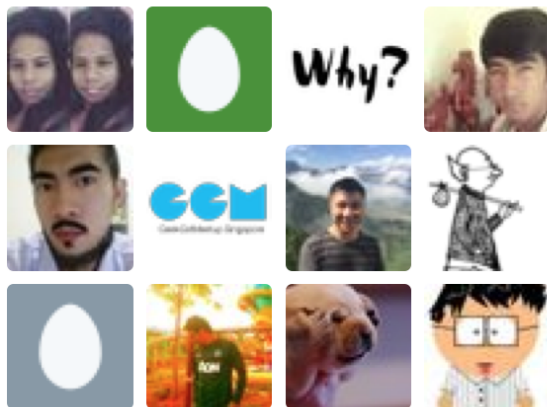
TWEETS 1982 FOLLOWING 440 FOLLOWERS 1912

fossasia

Create new Report

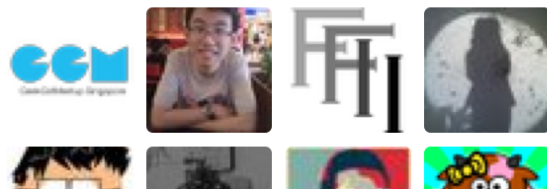
#### FOLLOWERS

Show all



#### FOLLOWING

Show all

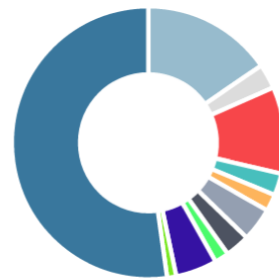


#### Country-wise Followers



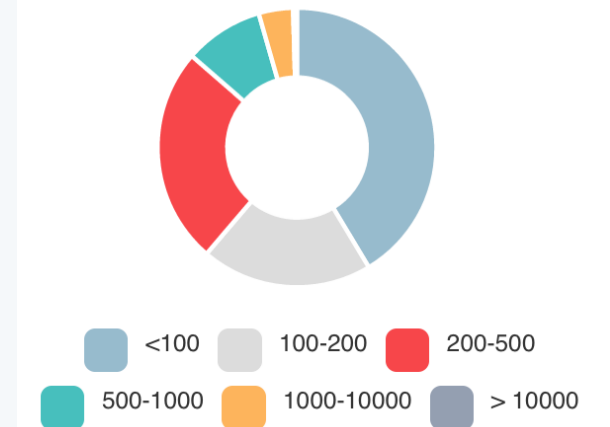
Country	Followers	Percentage
Unspecified	586	43.99%
Indonesia	159	11.94%
Singapore	113	8.48%
India	98	7.36%
Thailand	70	5.26%

#### City-wise Followers

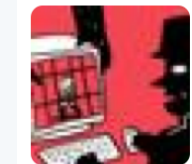


City	Followers	Percentage
Unspecified	341	25.60%
Singapore	101	7.58%
Bangkok	67	5.03%
Jakarta	32	2.40%
Indonesia	26	1.95%

#### Follower's distribution

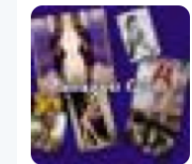


#### Most Influential Followers



**สถุณี อาชวานันทกุล**  
@Fringer

TWEETS 60599 FOLLOWING 3616 FOLLOWERS 107029



**The Paragon Girls**  
@DSParagonGirls

TWEETS 2948 FOLLOWING 49794 FOLLOWERS 67884



**Muhammad Adnan**





[Open Map](#)

Load 35 new tweets!

### Trends

#loklak

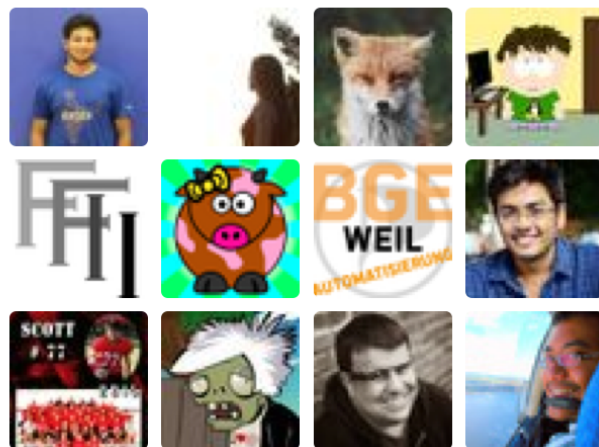


**Orbiter**  
@Orb1t3r

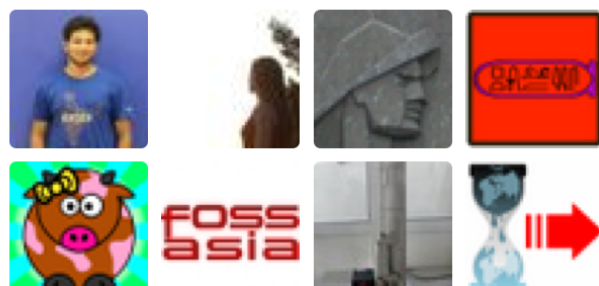
TWEETS **687** FOLLOWING **139** FOLLOWERS **201**

Free Software Developer; Maintainer of <https://t.co/mHsBQvvWub> and <https://t.co/D8XmZwdjbq>; Architect of <https://t.co/ILurkjAQ0c>; Speaker; Consultant (hire me)

#### FOLLOWERS [Show all](#)



#### FOLLOWING [Show all](#)



@hauschke -5h  
RT @ak\_text: @scifunkel Kann mich darüber heute wirklich gar nicht freuen.  
#ZBMed

@SpaceflightNow -5h  
Live views of the Soyuz rocket in Kazakhstan before crew launch at 2126 GMT (5:26pm EDT): [t.co/GeOGfHurCO](https://t.co/GeOGfHurCO) [t.co/Hdq9DFNvCb](https://t.co/Hdq9DFNvCb)



@hauschke -5h  
RT @estenhauer: die @ZB\_MED hat über 2.700 zeitschriften im nationalen(!) alleinbesitz ... #kann\_weg [t.co/Ohq22oOpwF](https://t.co/Ohq22oOpwF)

**Jörg Prante** @xbib 9h  
[@HackersFragen](#) FID ist nur Projektfinanzierung. Konkurrent ist NLM mit 382,2 Mio \$ Budget. ZB MED Etat: 12,1 Mio EUR  
[@nemissimo](#) [@estenhauer](#)

© 2015 loklak [About](#) [Blog](#) [Github](#) [Facebook](#)



#loklak can create tweets with very large attachment texts using #markdown, attached as image [test.loklak.net](http://test.loklak.net)

```

THIS IS A TEST-TEXT FOR LARGE ATTACHMENT TEXTS.

THE LARGEST HEADING (AN <H1> TAG)
THE SECOND LARGEST HEADING (AN <H2> TAG)
THE 6TH LARGEST HEADING (AN <H6> TAG)

IN THE WORDS OF ABRAHAM LINCOLN:
> PARDON MY FRENCH

THIS TEXT WILL BE ITALIC
THIS TEXT WILL BE BOLD

ITEM
ITEM
ITEM

1. ITEM 1
2. ITEM 2
3. ITEM 3

HERE'S AN IDEA: WHY DON'T WE TAKE SUPERIORPROJECT AND TURN IT INTO
REASONABLEPROJECT.

CHECK OUT THIS NEAT PROGRAM I WROTE:

X = 0
X = 2 + 2
WHAT IS X

IF YOU LIKE THIS, CHECK THE LOKLAK PROJECT AT
  HTTP://LOKLAK.ORG (FOR THE SERVER) AND
  HTTP://LOKLAK.NET (FOR THE WEBCLIENT)

TO GET LATEST NEWS, CHECK @ORB1T3R
MADE WITH HTTP://LOKLAK.ORG

```

RETWEETS

3

LIKE

1





**GEAR Systems**

@gearsystems



Follow

Testing the ability to attach a map via #loklak to twitter.



RETWEET

1

LIKE

1



9:37 PM - 24 Aug 2015





FOSSASIA 2016 Singapore

# Big Data with Small Messages

Data Indexing and Storage with loklak

Michael Christen M.Sc., mc@yacy.net, @0rb1t3r



Twitter Search Engine  
<http://loklak.org>

