

SENTIMENT ANALYSIS WITH NEO4J

Using a NoSQL Graph DB approach

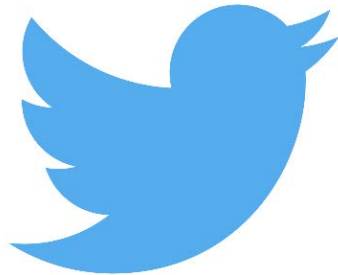
Raccolta dei Tweets

REST API

GET search/tweets

limite sul numero di Tweets

limite su data «until»



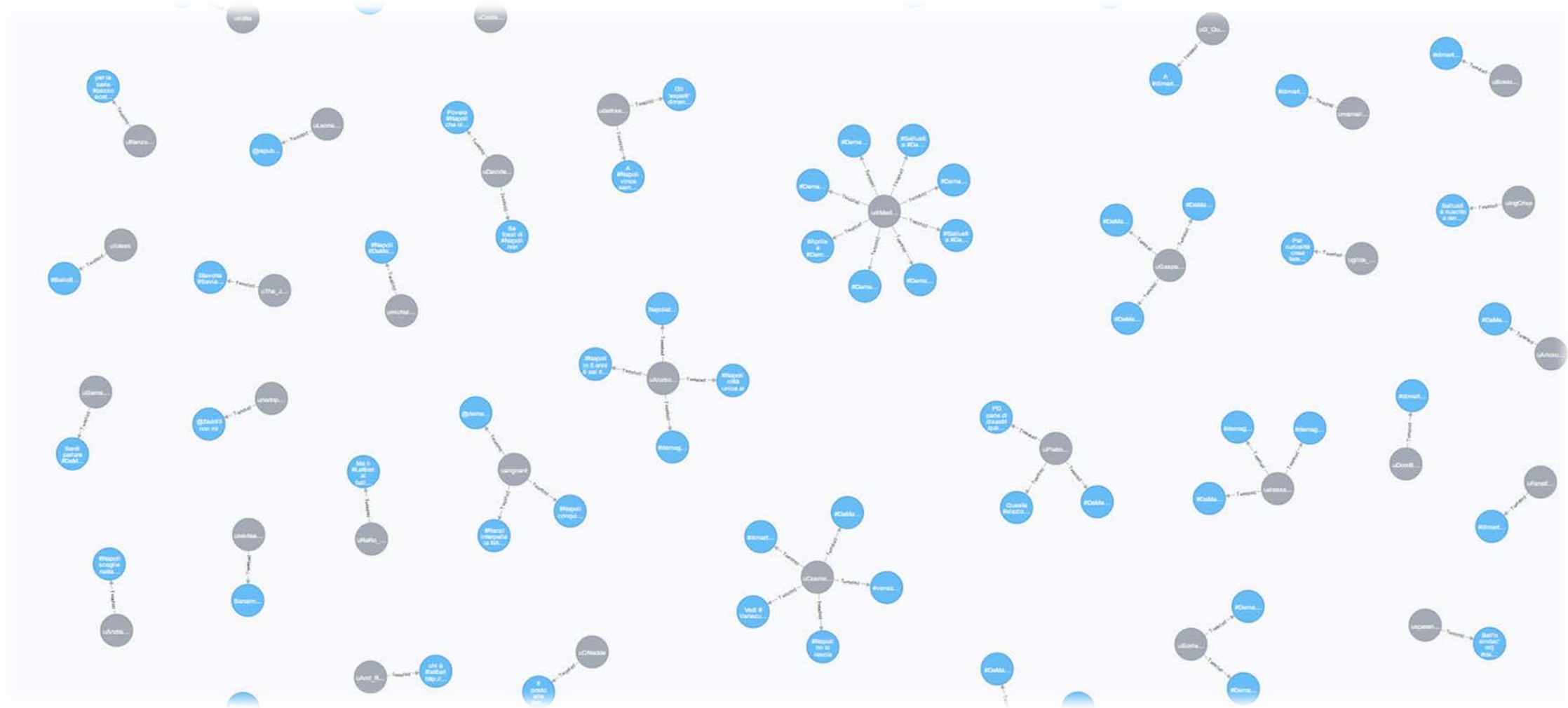
GetOldTweets-java

Jefferson-Henrique

A project written in Java to get old tweets, it bypass some limitations of Twitter Official API.



Graph DB



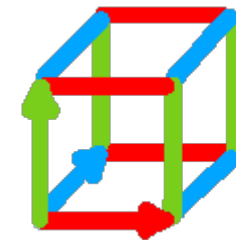
Dizionario



**PRINCETON
UNIVERSITY**

WordNet - 3.0

A lexical Database for English



**MULTI
WordNet**



SentiWordNet

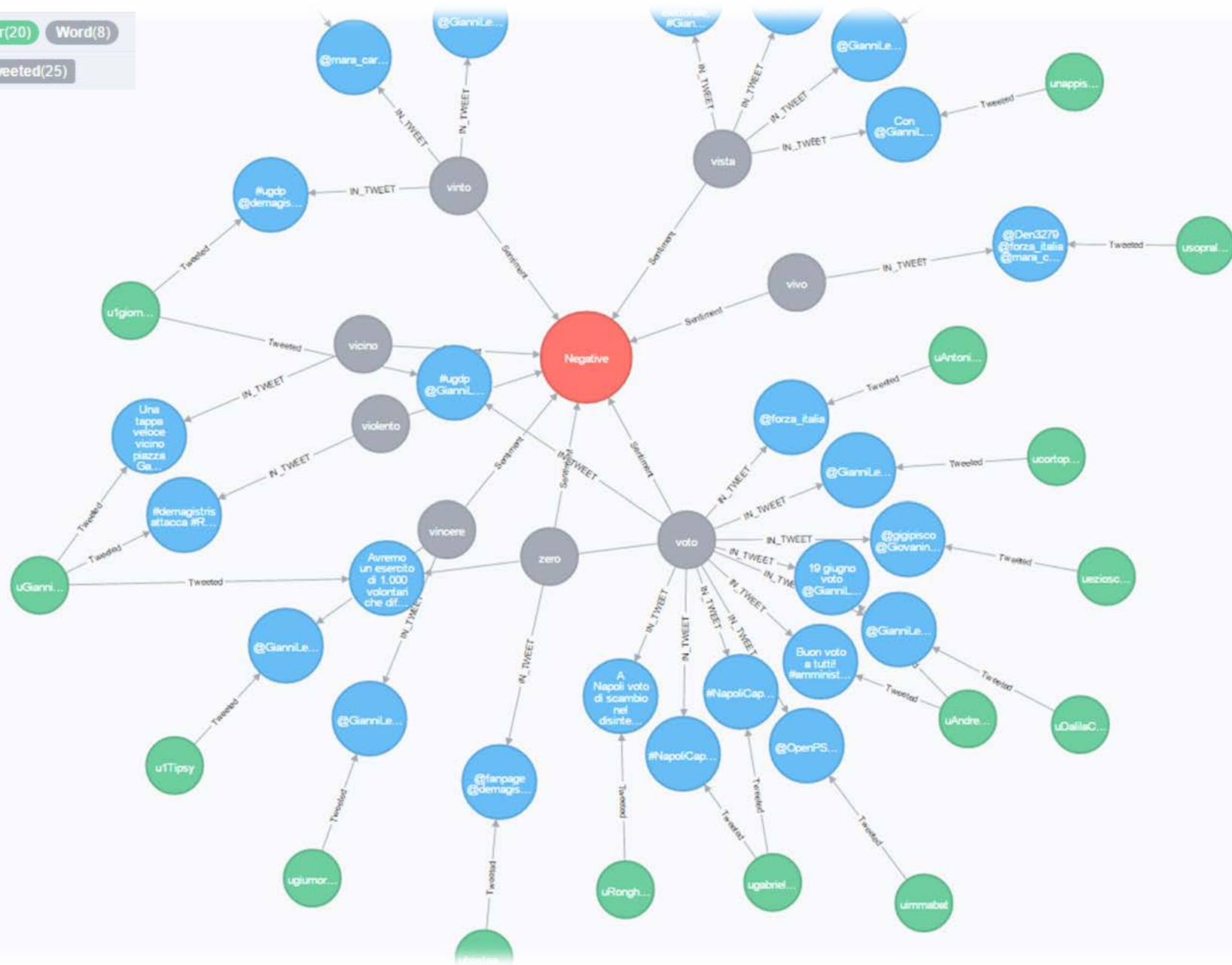
SentiWordNet - 3.0

is a lexical resource for
opinion mining



MultiWordNet - 1.6

is a multilingual lexical database in
which the Italian WordNet is strictly
aligned with Princeton WordNet



N° of tweets for giannilettieri = 920

2016-06-23 11:46:53.253	Loaded Tweets
2016-06-23 11:58:49.685	digest terminated <- 12 min
2016-06-23 11:58:49.993	The end

N° of tweets = 11663

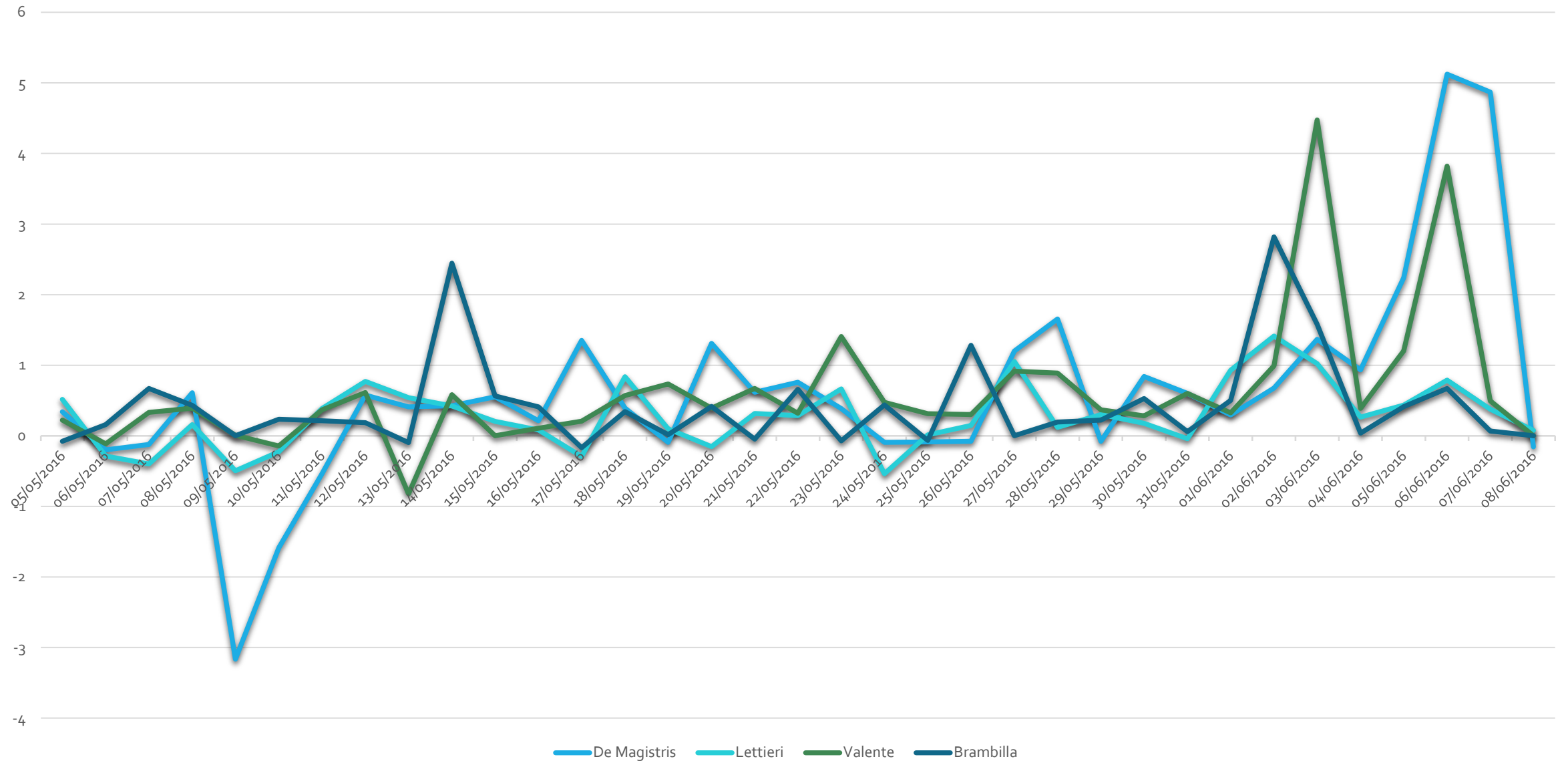
2016-06-23 22:19:32.984	
2016-06-23 23:25:36.93	digest terminated <- 1 h
2016-06-23 23:25:38.513	The end



(Neo4j)
- [:heart] ->
(Cypher)



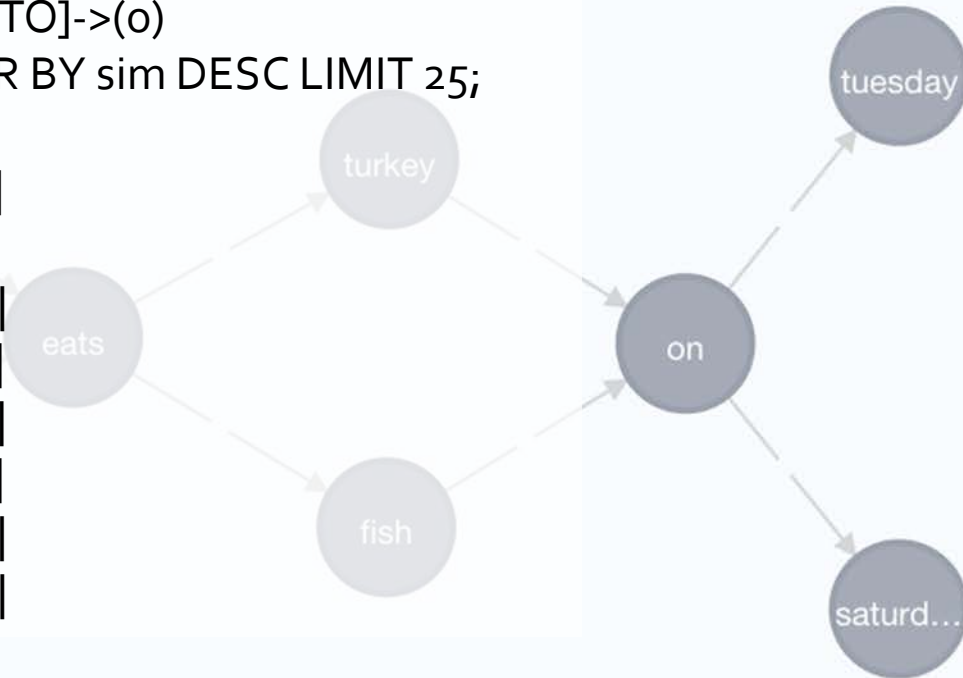
Sentiment



Paradigmatic Word Associations

```
MATCH (s:Word {word: 'school'})-[r:RELATED_TO]->(o)
RETURN s.word,o.word,r.paradig as sim ORDER BY sim DESC LIMIT 25;
```

s.word	o.word	sim
"school"	"university"	0.35416666666666663
"school"	"studies"	0.35279106858054227
"school"	"working"	0.3497129735935706
"school"	"parents"	0.33613445378151263
"school"	"college"	0.33519813519813524
"school"	"society"	0.3310029130253849

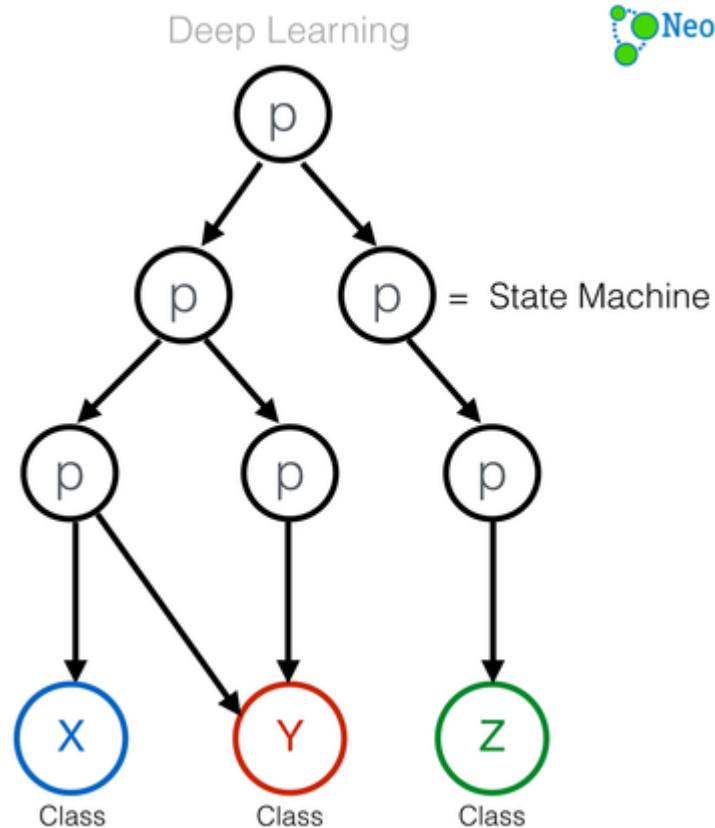


T2K Tex to Knowledge

T2K allows you to automatically extract information from texts. It provides a structured organisation of extracted knowledge into conceptual structures and indexes your texts with respect to the extracted information.



Hierarchical Pattern Recognition Graphify



GetOldTweets-java Kenny Bastani

Graphify is a Neo4j unmanaged extension used for document and text classification using graph-based hierarchical pattern recognition.

