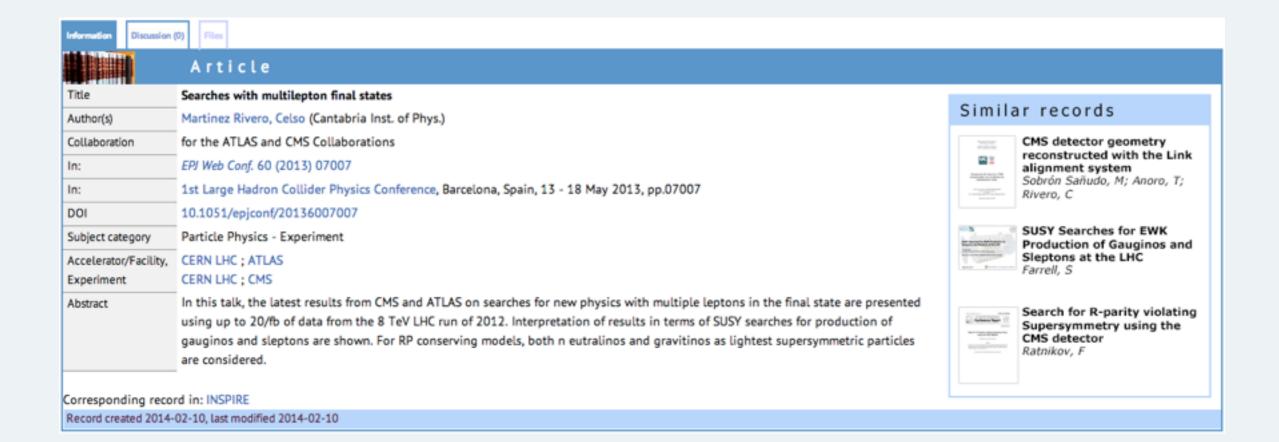
MLTDL - More Like This for Digital Libraries



What is More Like This?



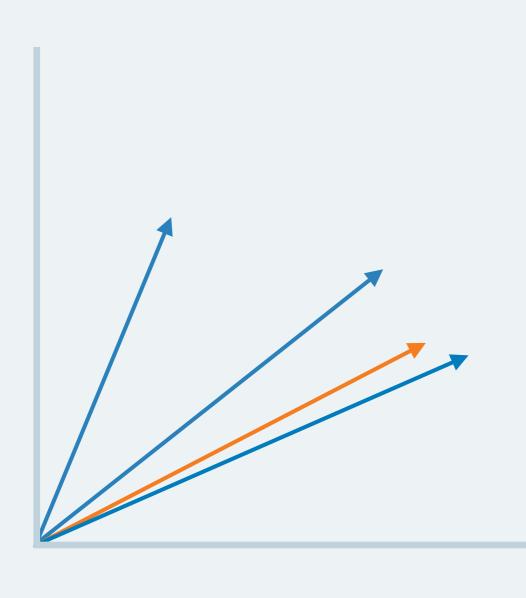




Why More Like This?



How does MLT work today?

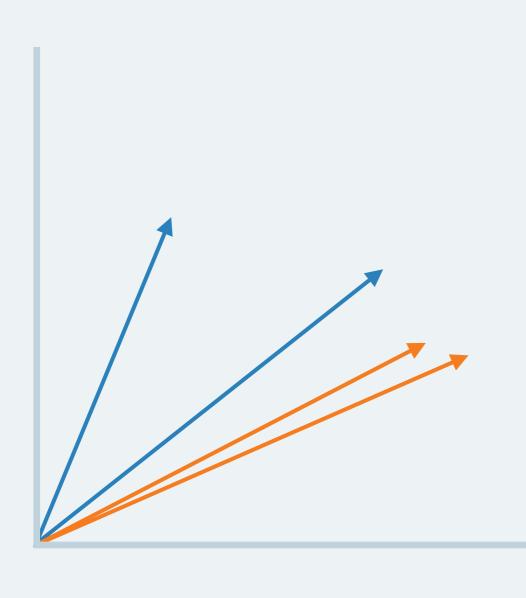


- TF-IDF
- Term Frequency
- Inverse Document Frequency
- Supported by popular indexers
 - Solr
 - ElasticSearch





How does MLT work today?



- TF-IDF
- Term Frequency
- Inverse Document Frequency
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 - → Solr
 - ElasticSearch





Can MLT do better?

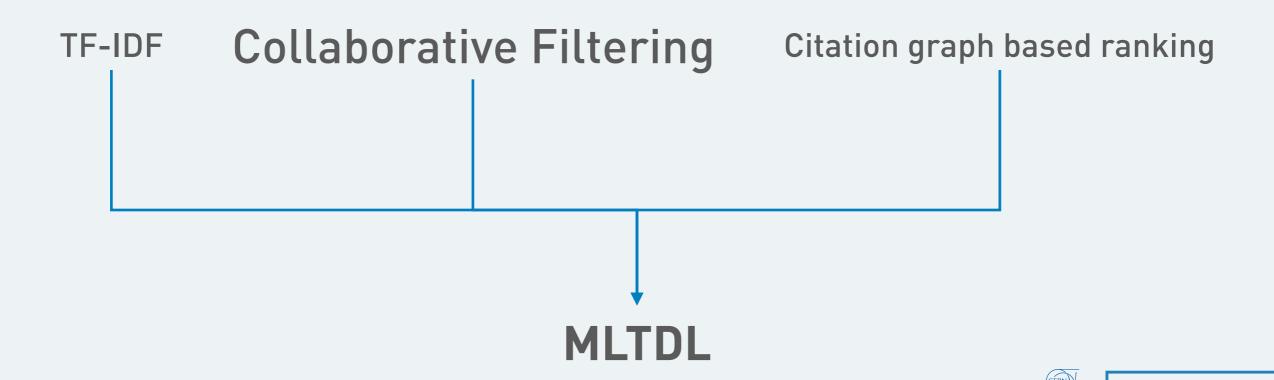
TF-IDF:

- + Efficient queries
- + Efficient indexing
- + Simple implementation
- Documents in the collection may be too similar
- No concept of user activity
- Uses only a small set of the information available

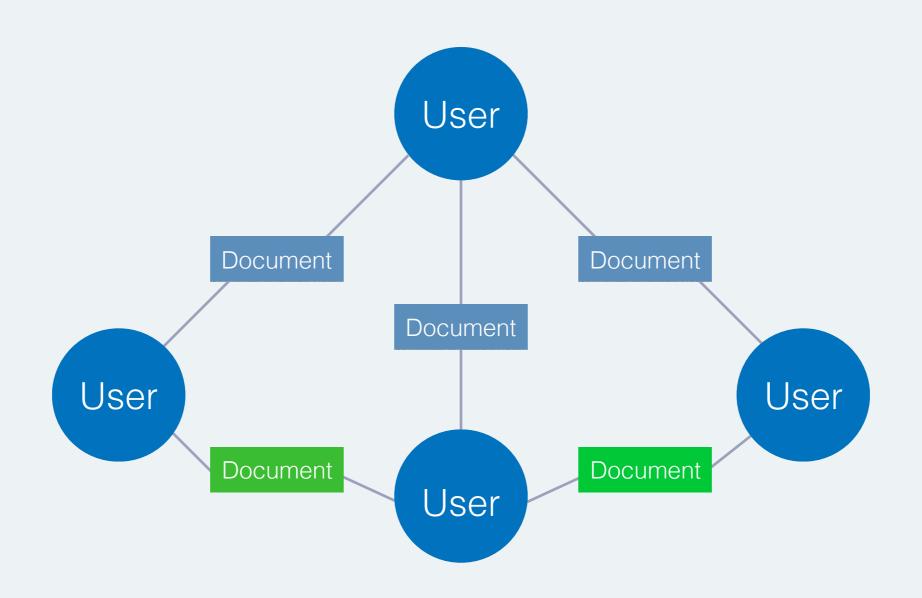


Introducing MLTDL

Utilizing the characteristic attributes of the digital library

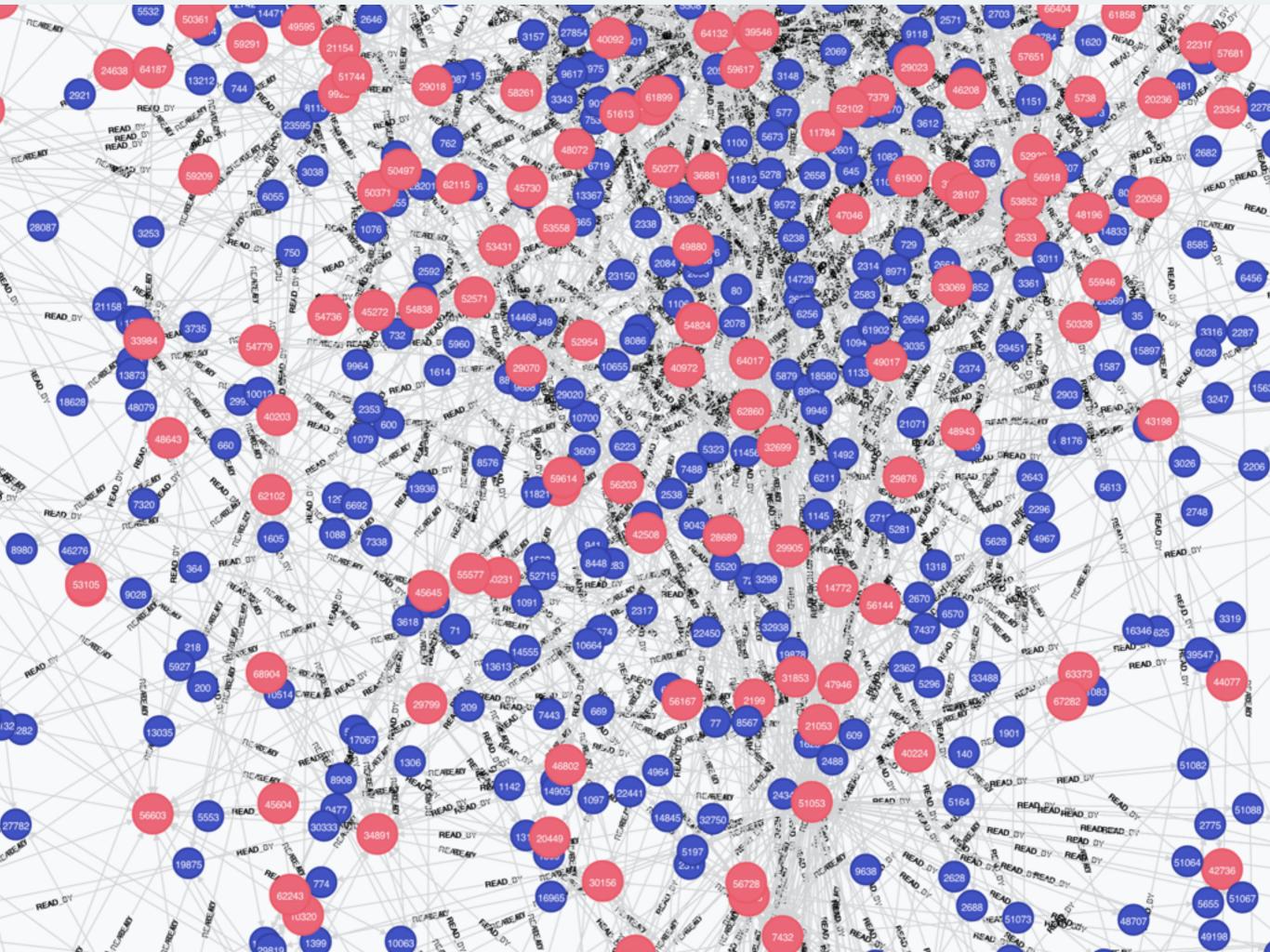


Graph based collaborative filtering









Who are the users?







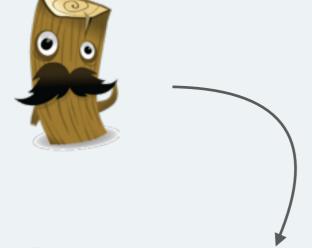




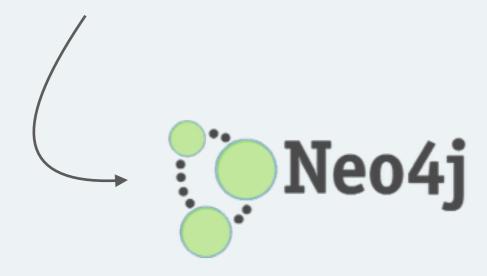




Doin' the diggin'



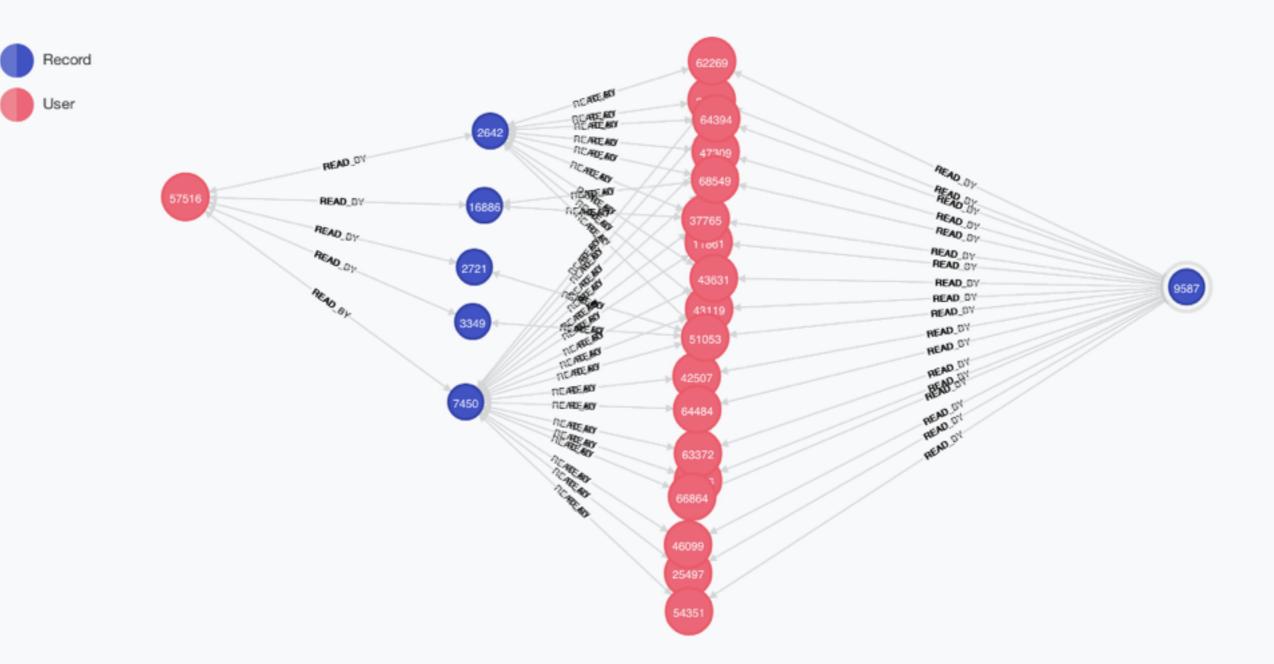
elasticsearch.



Automatic log analysis and graphing













Looking at record 1344131

From one users perspective

	More Like This	Our recommendation
1	1391730	1328960
2	1235963	1391730
3	1367755	1367755
4	789847	1378511
5	1399527	
6	1319540	
7	1378511	
8	1328960	

Record 2, 4 and 6 are not present in graph Record 5 is not relevant according to our graph



Looking at record 1344131

From another users perspective

	More Like This	Our recommendation
1	1391730	1367755
2	1235963	1399527
3	1367755	1378511
4	789847	
5	1399527	
6	1319540	
7	1378511	
8	1328960	

Record 2, 4 and 6 are not present in graph Record 1 has been read by the user



Questions?

