

End-To-End Test Collection Evaluation using Indri on Killdevil

All of the examples below assume that you are in the directory: `/webdex/expir2013/`

To navigate to this directory, type `cd /webdex/expir2013/`

Step 1: Indexing



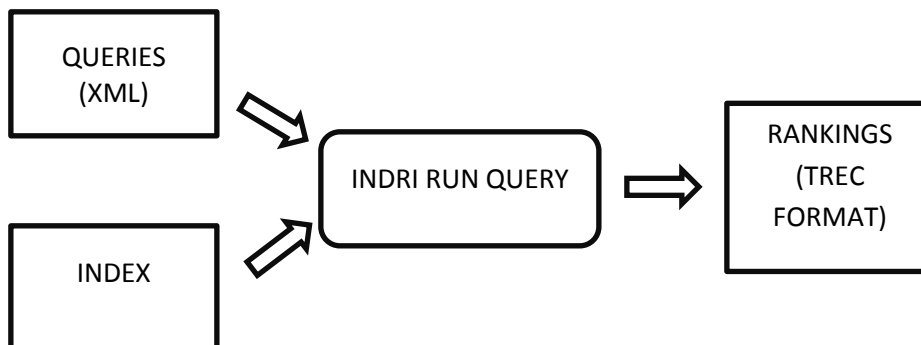
Command:

```
indri/indri-5.4/buildindex/IndriBuildIndex  
-corpus.path=corpus/twitter2011/tweets2011_en/  
-corpus.class=trectext  
-index=index/twitter2011_en/
```

Parameters:

- (1) `corpus.path`: specifies the path to the root directory containing the corpus. Every file directly and indirectly under this root directory will be indexed.
- (2) `corpus.class`: specifies the data format. For our purposes, this will always be `trectext`
- (3) `index`: specifies the path to the directory where the index will be saved.

Step 2: Running a set of queries



Command:

```
indri/indri-5.4/runquery/IndriRunQuery  
corpus/twitter2011/queries.xml
```

```
-index=index/twitter2011_en/  
-count=100  
-trecFormat=true
```

Parameters:

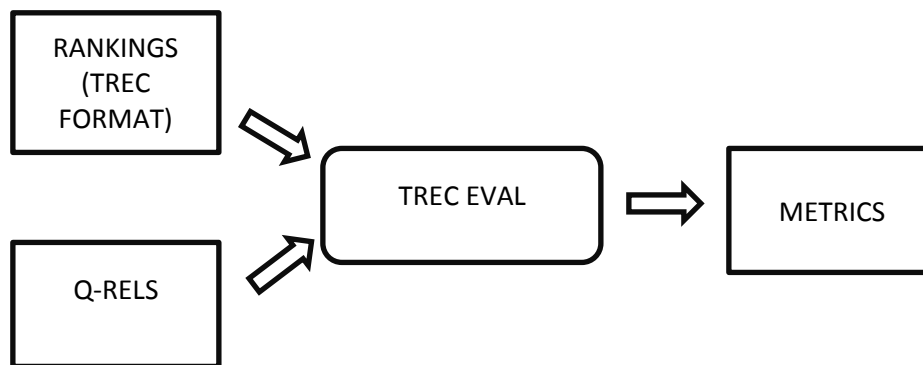
- (1) (QUERY FILE) : specifies the queries to be run in XML format.
- (2) index: specifies the path to the directory where the index is stored.
- (3) count: specifies the maximum number of top documents to retrieve for each query
- (4) trecFormat: specifies the format used to produce the results. For our purposes, this will always be true.

Additional Details:

This program writes the output rankings to the command line. In UNIX, you can easily re-direct this output to a (previously non-existent) file by using the “>” operator. The full command would be:

```
indri/indri-5.4/runquery/IndriRunQuery  
corpus/twitter2011/queries.xml  
-index=index/twitter2011_en/  
-count=100 > /path/to/output/file.output
```

Step 2: Computing Evaluation Metrics



Command:

```
script/trec_eval.9.0/trec_eval  
corpus/twitter2011/qrels.txt  
/path/to/output/file.output  
-q
```

Parameters:

- (1) (QRELS FILE) : specifies the path to the QRELS file. This file (provided by TREC) contains the relevance judgements for every query-document pair that made it into the pool. In the case, of the microblog track, 0=non-relevant, 1=marginally relevant, and 2=highly relevant. Not every query-document pair appears in this file. That is because not every query-document pair made into the pool when the pooling process was done. Any query-document pair not in this file is considered non-relevant by TRECEVAL.
- (2) (RANKINGS FILE) : specifies the path to the file that contains the rankings in TRECFORMAT.
- (3) -q: specifies that you want metrics computed for every query in addition to aggregate metrics average across queries.

Additional Details:

This program writes the output rankings to the command line. In UNIX, you can easily re-direct this output to a (previously non-existent) file by using the ">" operator. The full command would be:

```
script/trec_eval.9.0/trec_eval  
  corpus/twitter2011/qrels.txt  
  /path/to/output/file.output  
-q > /path/to/results/file.results
```