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

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

To navigate to this directory, type **`cd /webdex/expir/`**

Step 1: Indexing

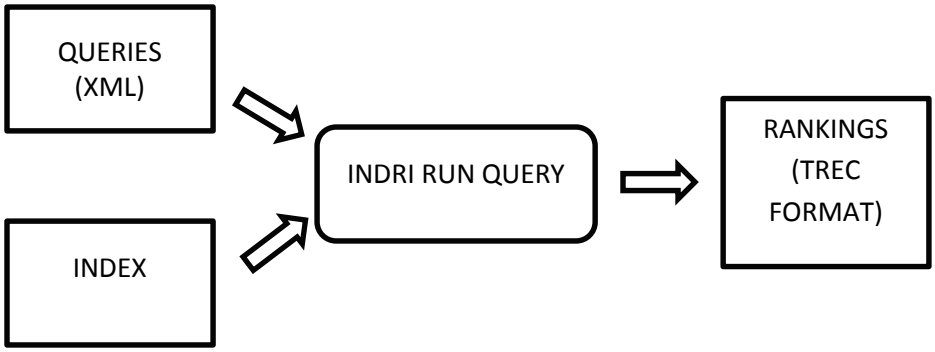
Command:

```
indri/indri-5.4/buildindex/IndriBuildIndex
     -corpus.path=corpus/twitter2011/tweets2011_en/
     -corpus.class=trectext
     -index=/path/to/index/tweets2011_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=path/to/index/tweets2011_en/
-count=100
-trecFormat=true
```

Parameters:

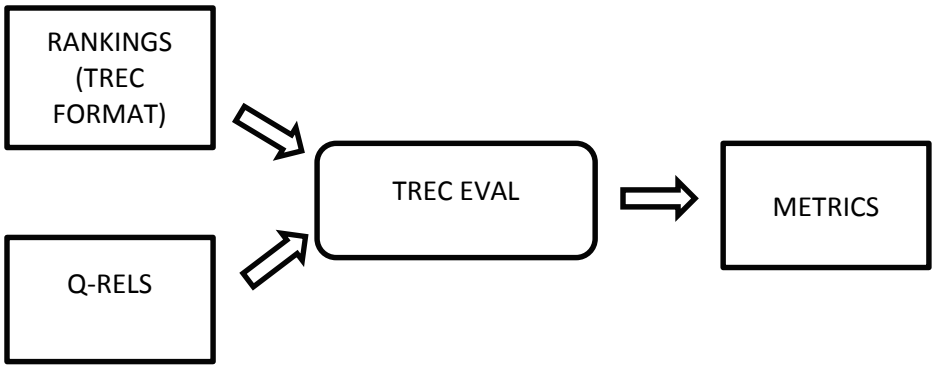
(1) `(QUERY FILE):` specifies the queries to be run in XML format.
(2) `index:` specifies the path to the directory where the index is stored.
(3) `count:` specifies the maximum number of top documents to retrieve for each query
(4) `trecFormat:` specifies the format used to produce the results. For 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= path/to/index/tweets2011_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
```