TweetRank

TweetRank is an attempt to apply the PageRank algorithm on Twitter statuses (tweets).

It uses a different rank calculation which considers attributes such as number of replies/retweets and hashtags.

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# Components



**Crawler:** queries the Twitter API and saves the data

# Crawler

# Ranker

* Uses the complete path Monte Carlo algorithm
* Does random walks of length N started from each node
* Ranker uses 10 threads to compute walks in parallel
* Final rank is the total number of visits for each node

|  |  |  |  |
| --- | --- | --- | --- |
| Thread 1 | Thread 2 | Thread 3 | Thread 4 |
| https://github.com/mogelbrod/TweetRank/blob/master/doc/graphs/mc-threads-0.png?raw=true | https://github.com/mogelbrod/TweetRank/blob/master/doc/graphs/mc-threads-1.png?raw=true | https://github.com/mogelbrod/TweetRank/blob/master/doc/graphs/mc-threads-2.png?raw=true | https://github.com/mogelbrod/TweetRank/blob/master/doc/graphs/mc-threads-3.png?raw=true |
| {2, 1, 0, 1} | {1, 1, 1, 1} | {2, 1, 1, 0} | {1, 1, 1, 1} |

{6, 4, 3, 3}

{6, 4, 3, 3}

# Solr / Lucene

# Results