*Test1:*  ***anchor index, title index  
#in this test we do marge between 2 indexes, Binary calculate with anchor Index, and Binary calculate with title index.***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  | |  | |
|  |  |  |  |
| 2 | 0.05 | 2 | 0.05 | "dim sum" | 1 |
| 0 | 0 | 0 | 0 | "python" | 2 |
| 1 | 0.333 | 1 | 0.333 | "where does vanilla flavoring come from" | 3 |
| 3 | 0.075 | 3 | 0.075 | "what space movie was made in 1992" | 4 |
| 0 | 0 | 0 | 0 | "how to make pasta" | 5 |
| 1 | 0.062 | 1 | 0.062 | "masks" | 6 |
| 0 | 0 | 0 | 0 | "NBA" | 7 |
| 8 | 0.907 | 8 | 0.907 | "google trends" | 8 |
| 9 | 0.7 | 9 | 0.7 | "data science" | 9 |
|  | | | | | |
|  | | | | | |

*Test2:*  ***body index, title index  
# in this test we do marge between 2 indexes,TFIDF calculate with body Index, and Binary calculate with title index***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  | |  | |
|  |  |  |  |
| 0 | 0 | 0 | 0 | "dim sum" | 1 |
| 3 | 0.177 | 3 | 0.177 | "python" | 2 |
| 0 | 0 | 7 | 0.365 | "where does vanilla flavoring come from" | 3 |
| 2 | 0.567 | 2 | 1.0 | "what space movie was made in 1992" | 4 |
| 0 | 0 | 1 | 0.03 | "how to make pasta" | 5 |
| 1 | 0.036 | 1 | 0.036 | "masks" | 6 |
| 0 | 0 | 0 | 0 | "NBA" | 7 |
| 13 | 0.874 | 6 | 0.620 | "google trends" | 8 |
| 12 | 0.882 | 12 | 0.841 | "data science" | 9 |
|  | | | | | |
|  | | | | | |

*Test3:*  ***body index, anchor index  
#in this test we do marge between 2 indexes,TFIDF calculate with body Index, and Binary calculate with anchor index***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  | |  | |
|  |  |  |  |
| 4 | 0.089 | 4 | 0.089 | "dim sum" | 1 |
| 3 | 0.431 | 3 | 0.431 | "python" | 2 |
| 1 | 1.0 | 2 | 0.525 | "where does vanilla flavoring come from" | 3 |
| 0 | 0 | 0 | 0 | "what space movie was made in 1992" | 4 |
| 19 | 0.368 | 19 | 0.459 | "how to make pasta" | 5 |
| 1 | 0.034 | 1 | 0.034 | "masks" | 6 |
| 0 | 0 | 0 | 0 | "NBA" | 7 |
| 18 | 0.499 | 18 | 0.499 | "google trends" | 8 |
| 2 | 0.050 | 2 | 0.050 | "data science" | 9 |
|  | | | | | |
|  | | | | | |

*Test4:*  ***body index, anchor index, title index  
# in this test we do marge between 3 indexes,TFIDF calculate with body Index, and Binary calculate with anchor and title index***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  | |  | |
|  |  |  |  |
| 4 | 0.089 | 4 | 0.089 | "dim sum" | 1 |
| 3 | 0.431 | 3 | 0.431 | "python" | 2 |
| 1 | 1.0 | 6 | 0.403 | "where does vanilla flavoring come from" | 3 |
| 3 | 0.067 | 4 | 0.197 | "what space movie was made in 1992" | 4 |
| 19 | 0.368 | 19 | 0.511 | "how to make pasta" | 5 |
| 1 | 0.034 | 1 | 0.034 | "masks" | 6 |
| 0 | 0 | 0 | 0 | "NBA" | 7 |
| 18 | 0.680 | 20 | 0.765 | "google trends" | 8 |
| 6 | 1.0 | 6 | 1.0 | "data science" | 9 |
|  | | | | | |
|  | | | | | |

*Test5:*  ***body index, anchor index, title index, page rank  
# in this test we do marge between 3 indexes,TFIDF calculate with body Index, and Binary calculate with anchor and title index.***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  | |  | |
|  |  |  |  |
| 4 | 0.089 | 4 | 0.089 | "dim sum" | 1 |
| 3 | 0.431 | 3 | 0.431 | "python" | 2 |
| 7 | 0.474 | 5 | 0.316 | "where does vanilla flavoring come from" | 3 |
| 3 | 0.128 | 2 | 0.093 | "what space movie was made in 1992" | 4 |
| 19 | 0.524 | 19 | 0.459 | "how to make pasta" | 5 |
| 1 | 0.034 | 1 | 0.034 | "masks" | 6 |
| 0 | 0 | 0 | 0 | "NBA" | 7 |
| 17 | 0.621 | 18 | 0.616 | "google trends" | 8 |
| 6 | 1 | 6 | 1 | "data science" | 9 |
|  | | | | | |
|  | | | | | |

*Test6:*  ***body index, anchor index, title index   
# in this test we do marge between 3 indexes,BM25 calculate with body Index, and Binary calculate with anchor and title index.***

w\_text=0.4, w\_title=0.25, w\_anchor=0.35  
results:  
[Map@40=0.57](mailto:Map@40=0.57)  
 2 sec avg for one query.

The result file of this test in linked in repos as name is test\_BM25.txt\*

הטסט שהחזיר תוצאות הטובות ביותר הוא טסט 6.  
 כלומר נרצה להשתמש בו לטובת פונקציית .