WM HW1 report

資工三 b05902058 陳竣宇

1. VSM

- Okapi weighting based document score
- parameters

 - $\circ k_1 = 2$
 - b = 0.75

2. Rocchio Relevance Feedback

- pick the top 40 as relevant documents, others as irrelevant documents
- parameters
 - $\circ \alpha = 0.95$
 - \circ $\beta = 0.05$
 - \circ $\gamma = 0.01$

3. Results of Experiments

- MAP value under different parameters of VSM
 - \circ k_a = 1000, k_1 = 2
 - \blacksquare score = 0.80247
 - \circ k_a = 1000, k_1 = 1.2
 - score = 0.79991
- With Feedback vs. without Feedback
 - \circ k_a = 1000, k_1 = 1.2
 - with Feedback
 - score = 0.79673
 - Without Feedback
 - score = 0.79991
- Other experiments
 - 在取query term的時候只取concepts,結果與取所有tag(title, question, narrative, concepts)的結果相似
 - o 因為query file裡面會出現 是不相關的 等字眼,於是嘗試把第一個句號之後的文字捨棄,結果仍與不捨棄相差不多

4. Learned from the work

- how to read a .xml file
- how to make a Chinese vector space model
- how to use Rocchio Feedback algorithm

https://hackmd.io/s/H1H-6LsFV