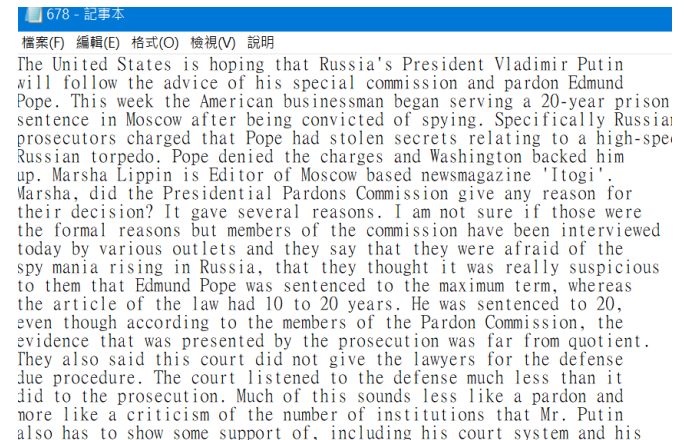


Programming Assignment 1

1. Write a program to convert a set of documents into TF-IDF vectors
 - Text collection: 1095 news documents
 - https://cool.ntu.edu.tw/files/417602/download?download_frd=1
 - 1.txt ~ 1095.txt
 - **Use TfidfVectorizer**
 - Lowercase everything
 - Filter out English stopwords



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檔案(F) 編輯(E) 格式(O) 檢視(V) 說明

The United States is hoping that Russia's President Vladimir Putin will follow the advice of his special commission and pardon Edmund Pope. This week the American businessman began serving a 20-year prison sentence in Moscow after being convicted of spying. Specifically Russian prosecutors charged that Pope had stolen secrets relating to a high-speed Russian torpedo. Pope denied the charges and Washington backed him up. Marsha Lippin is Editor of Moscow based newsmagazine 'Itogi'. Marsha, did the Presidential Pardons Commission give any reason for their decision? It gave several reasons. I am not sure if those were the formal reasons but members of the commission have been interviewed today by various outlets and they say that they were afraid of the spy mania rising in Russia, that they thought it was really suspicious to them that Edmund Pope was sentenced to the maximum term, whereas the article of the law had 10 to 20 years. He was sentenced to 20, even though according to the members of the Pardon Commission, the evidence that was presented by the prosecution was far from quotient. They also said this court did not give the lawyers for the defense due procedure. The court listened to the defense much less than it did to the prosecution. Much of this sounds less like a pardon and more like a criticism of the number of institutions that Mr. Putin also has to show some support of, including his court system and his

Programming Assignment 1

2. Save each document's TF-IDF vector as a plain text file

- 1.vec, 2.vec, ... 1095.vec

3. Load the TF-IDF vectors of documents 1 and 2, and calculate their cosine similarity.

Please zip the vector files of documents 1 and 3, your code, and a report to TA.

You have 2 weeks to do the work, deadline is 2020/10/30.