```
In [3]: from pathlib import Path
        all txt_files =[]
        for file in Path("/Users/stineschou/Desktop/TF_IDF_ekstern").rglob("*.txt"):
            all txt files.append(file.parent / file.name)
        # counts the length of the list
        n_files = len(all_txt_files)
        print(n_files)
        4
In [4]: all txt files.sort()
        all_txt_files[0]
Out[4]: PosixPath('/Users/stineschou/Desktop/TF IDF ekstern/Interview FVM.txt')
In [5]: all docs = []
        for txt file in all txt files:
            with open(txt_file) as f:
                txt_file_as_string = f.read()
            all docs.append(txt file as string)
In [6]: #import the TfidfVectorizer from Scikit-Learn.
        from sklearn.feature extraction.text import TfidfVectorizer
        #implementer denne liste af stopwords: stopord.txt
        #f = open('/Users/stineschou/Desktop/stopord.txt','r')
        with open('/Users/stineschou/Desktop/stopord.txt') as f:
           lines = f.read().splitlines()
In [7]: vectorizer = TfidfVectorizer(max df=.65, min df=1, stop words=lines, use idf=True, norm=None)
        transformed_documents = vectorizer.fit_transform(all_docs)
        /anaconda3/lib/python3.7/site-packages/sklearn/feature extraction/text.py:391: UserWarning: Your stop words may be inconsistent with your preprocessing. Tokenizing the stop words generated tokens ['bl', 'ca', 'eks', 'pga'] not in stop
        _words.
          'stop_words.' % sorted(inconsistent))
In [8]: transformed_documents_as_array = transformed_documents.toarray()
        # use this line of code to verify that the numpy array represents the same number of documents that we have in the file list
        len(transformed_documents_as_array)
Out[8]: 4
In [9]: import pandas as pd
        # make the output folder if it doesn't already exist
        Path("./tf_idf_output").mkdir(parents=True, exist_ok=True)
        # construct a list of output file paths using the previous list of text files the relative path for tf_idf_output
        output_filenames = [str(txt_file).replace(".txt", ".csv").replace("txt/", "tf_idf_output/") for txt_file in all_txt_files]
        # loop each item in transformed_documents_as_array, using enumerate to keep track of the current position
        for counter, doc in enumerate(transformed documents as array):
            # construct a dataframe
            tf idf tuples = list(zip(vectorizer.get feature names(), doc))
            one_doc_as_df = pd.DataFrame.from_records(tf_idf_tuples, columns=['term', 'score']).sort_values(by='score', ascending=False).reset_index(drop=True)
            # output to a csv using the enumerated value for the filename
            one doc as df.to csv(output filenames[counter])
In [ ]:
In [ ]:
```