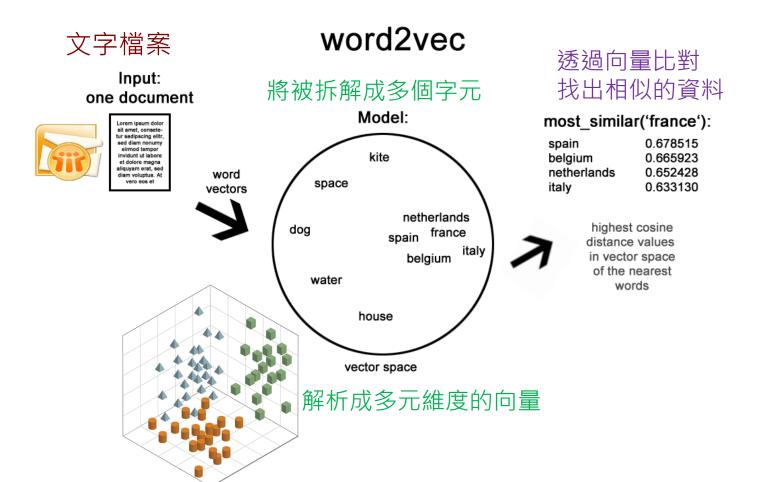
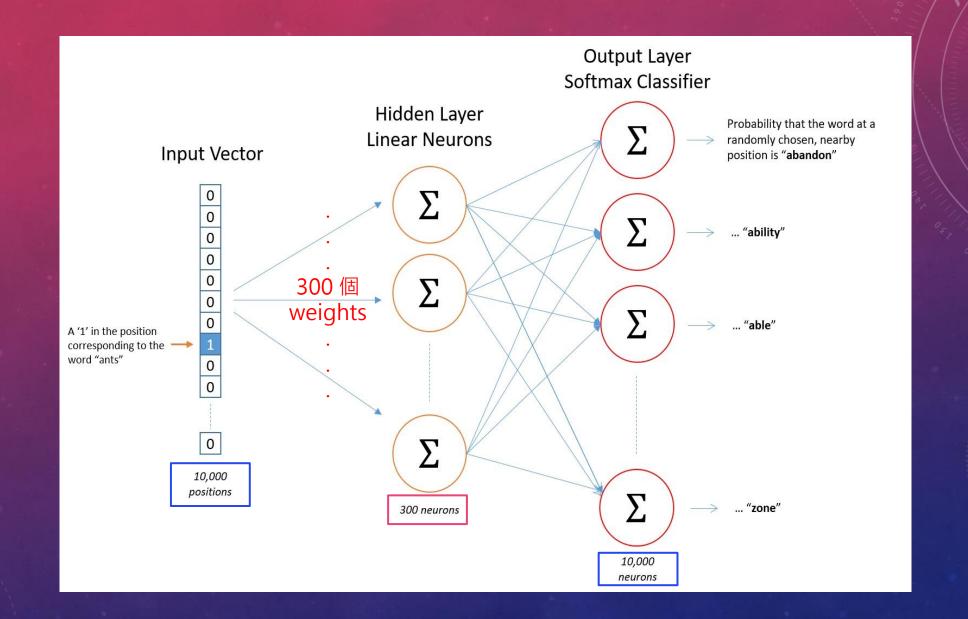
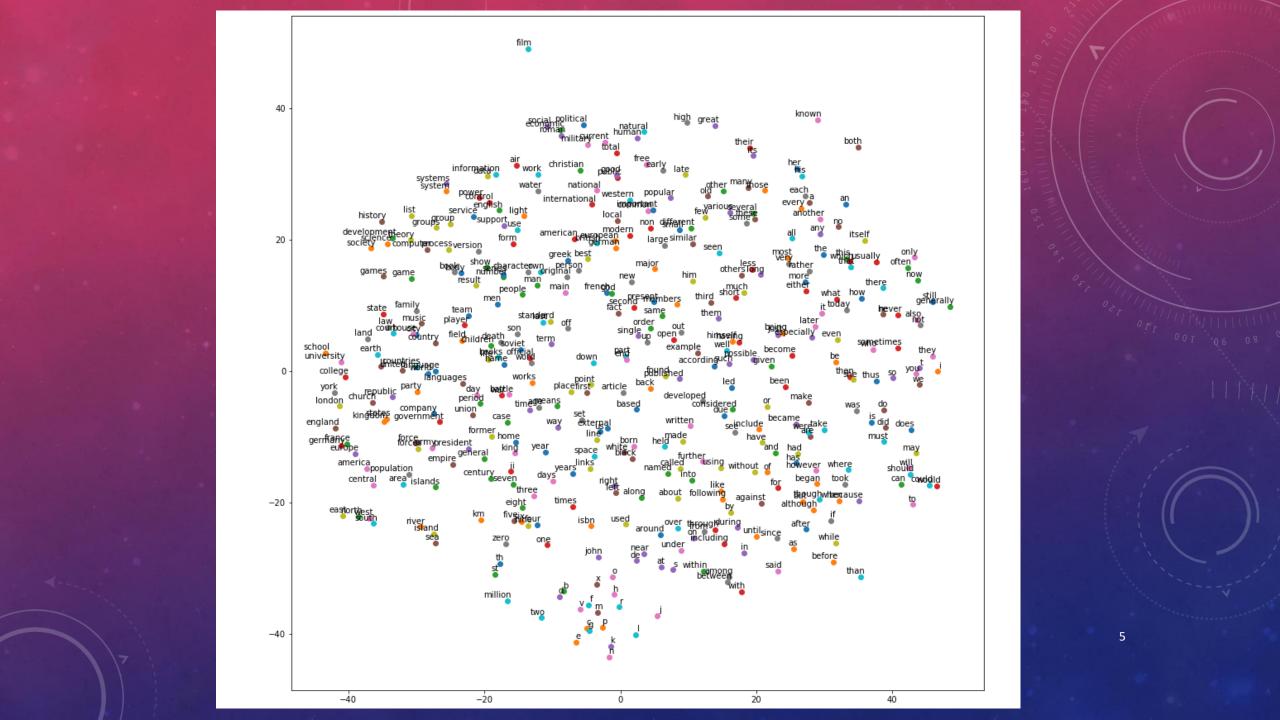


字詞語意向量實作 WORD2VEC EXERCISE







INSTALL PACKAGES

- pip install gensim
- pip install jieba
- pip install hanziconv

步驟

- 1. 將 wiki 的 xml 轉換成 txt (wiki_xml2txt.ipynb)
- 2. 將簡體轉繁體,並且斷詞去除廢字 (segmentation.ipynb)
- 3. 訓練Word2Vec模型 (train.ipynb)
- 4. 使用Word2Vec模型 (WordVec_LoadPretrainModel.ipynb)

下載: https://reurl.cc/vdnee

結果

- ,一個詞彙會找出前5名相似 ,兩個詞彙會算出兩者之間相似度 ,三個詞彙爸爸之於老公,如媽媽之於老婆

入格式(Ex: 爸爸,媽媽,....註:最多三個詞彙)

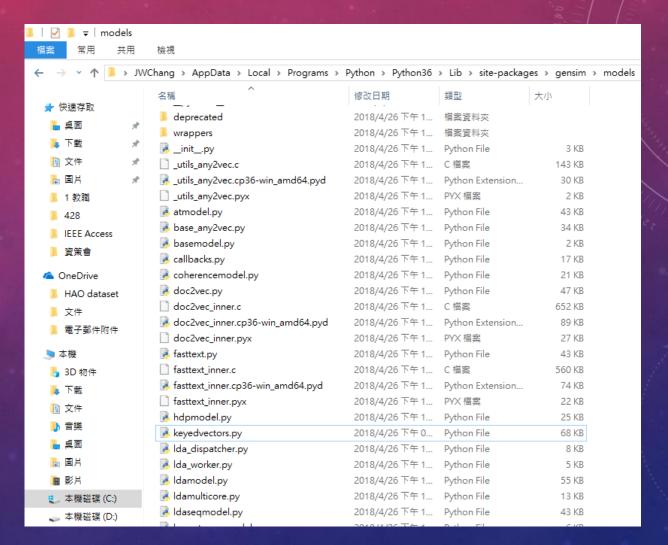
剛 剛全相似詞前 5 排序 班導.0.6360481977462769

輸入格式(Ex: 爸爸,媽媽,...註:最多三個詞彙) 爸爸,媽媽 計算兩個詞彙間 Cosine 相似度 0.780765200371

入格式(Ex: 爸爸,媽媽,...註:最多三個詞彙) 爸,老公,媽媽 爸之於老公,如媽媽之於

修改 GENSIM

C:\Users\user\AppData\Local\Pr ograms\Python\Python36\Lib\si te-packages\gensim\models\ keyedvectors.py



修改 GENSIM

```
class WordEmbeddingsKeyedVectors(BaseKeyedVectors):
        """Class containing common methods for operations over word vectors."""
194
195
        def __init__(self, vector_size):
196
            super(WordEmbeddingsKeyedVectors, self).__init__(vector_size=vector_size)
197
            self.vectors_norm = None
198
            self.index2word = []
199
            self.zeroVec = []
200
            for i in range(300):
201
                self.zeroVec.append(0.0)
202
```

修改 GENSIM

```
def word_vec(self, word, use_norm=False):
255
256
257
258
259
260
261
262
263
264
265
             array([ -1.40128313e-02, ...])
266
267
             if word in self.vocab:
268
                 if use norm:
270
                     result = self.vectors norm[self.vocab[word].index]
                else:
271
                     result = self.vectors[self.vocab[word].index]
272
273
                result.setflags(write=False)
274
                return result
275
            else:
276
277
                return array(self.zeroVec)
278
```

