```
In [ ]:
import gensim.downloader as api
wv = api.load('word2vec-google-news-300')
# wv = api.load('/Users/florrie/gensim-data/word2vec-google-news-300')
In [10]:
for index, word in enumerate(wv.index to key):
    if index == 10:
        break
    print(f"word #{index}/{len(wv.index to key)} is {word}")
word #0/3000000 is </s>
word #1/3000000 is in
word #2/3000000 is for
word #3/3000000 is that
word #4/3000000 is is
word #5/3000000 is on
word #6/3000000 is ##
word #7/3000000 is The
word #8/3000000 is with
word #9/3000000 is said
In [17]:
vec king = wv['king']
print(vec_king)
[ 1.25976562e-01
                  2.97851562e-02 8.60595703e-03 1.39648438e-01
 -2.56347656e-02 -3.61328125e-02 1.11816406e-01 -1.98242188e-01
  5.12695312e-02 3.63281250e-01 -2.42187500e-01 -3.02734375e-01
 -1.77734375e-01 -2.49023438e-02 -1.67968750e-01 -1.69921875e-01
  3.46679688e-02 5.21850586e-03 4.63867188e-02
                                                  1.28906250e-01
  1.36718750e-01
                  1.12792969e-01
                                 5.95703125e-02
                                                  1.36718750e-01
  1.01074219e-01 -1.76757812e-01 -2.51953125e-01
                                                  5.98144531e-02
  3.41796875e-01 -3.11279297e-02 1.04492188e-01
                                                  6.17675781e-02
  1.24511719e-01
                 4.00390625e-01 -3.22265625e-01
                                                  8.39843750e-02
  3.90625000e-02 5.85937500e-03 7.03125000e-02
                                                  1.72851562e-01
  1.38671875e-01 -2.31445312e-01 2.83203125e-01
                                                  1.42578125e-01
  3.41796875e-01 -2.39257812e-02 -1.09863281e-01
                                                  3.32031250e-02
 -5.46875000e-02
                  1.53198242e-02 -1.62109375e-01
                                                  1.58203125e-01
 -2.59765625e-01 2.01416016e-02 -1.63085938e-01
                                                  1.35803223e-03
 -1.44531250e-01 -5.68847656e-02 4.29687500e-02 -2.46582031e-02
  1.85546875e-01
                 4.47265625e-01 9.58251953e-03
                                                  1.31835938e-01
  9.86328125e-02 -1.85546875e-01 -1.00097656e-01 -1.33789062e-01
 -1.25000000e-01 2.83203125e-01 1.23046875e-01
                                                  5.32226562e-02
 -1.77734375e-01 8.59375000e-02 -2.18505859e-02
                                                  2.05078125e-02
In [12]:
try:
    vec cameroon = wv['cameroon']
except KeyError:
    print("The word 'cameroon' does not appear in this model")
```

The word 'cameroon' does not appear in this model

Word2Vec supports several word similarity tasks out of the box. You can see how the similarity intuitively

decreases as the words get less and less similar.

```
In [23]:
```

```
pairs = [
    ('car', 'minivan'), # a minivan is a kind of car
    ('car', 'bicycle'), # still a wheeled vehicle
    ('car', 'airplane'), # ok, no wheels, but still a vehicle
    ('car', 'cereal'), # ... and so on
    ('car', 'communism'),
]
for w1, w2 in pairs:
    print('%r\t%r\t%.2f' % (w1, w2, wv.similarity(w1, w2)))

'car' 'minivan' 0.69
'car' 'bicycle' 0.54
```

```
    'car'
    'minivan'
    0.69

    'car'
    'bicycle'
    0.54

    'car'
    'airplane'
    0.42

    'car'
    'cereal'
    0.14

    'car'
    'communism'
    0.06

    'man'
    'king'
    0.23

    'woman'
    'queen'
    0.32
```

Print the 5 most similar words to "car" or "minivan"

```
In [25]:
```

```
print(wv.most_similar(positive=['car', 'minivan'], topn=5))

[('SUV', 0.8532192707061768), ('vehicle', 0.8175783753395081), ('picku p_truck', 0.7763688564300537), ('Jeep', 0.7567334175109863), ('Ford_Ex plorer', 0.7565720081329346)]

In [27]:

print(wv.doesnt_match(['fire', 'water', 'land', 'sea', 'air', 'car']))
```

boot