In [1]:
```
import spacy

nlp = spacy.load('en_core_web_lg')
```

In [2]:
```
from scipy import spatial
```

In [4]:
```
cosine_similarity = lambda x, y: 1- spatial.distance.cosine(x, y)

king = nlp.vocab['king'].vector
man = nlp.vocab['man'].vector
woman = nlp.vocab['woman'].vector

new_vector = king - man + woman
computed_similarities = []

for word in nlp.vocab:
    if word.has_vector:
        if word.is_lower:
            if word.is_alpha:
                similarity = cosine_similarity(new_vector, word.vector)
                computed_similarities.append((word, similarity))
```

In [ ]:
```
# Sorting computed_similarities in descending order
# from most similar words to the least similar

computed_similarities = sorted(computed_similarities, lambda item: -item
print([w[0].text for w in computed_similarities])
```