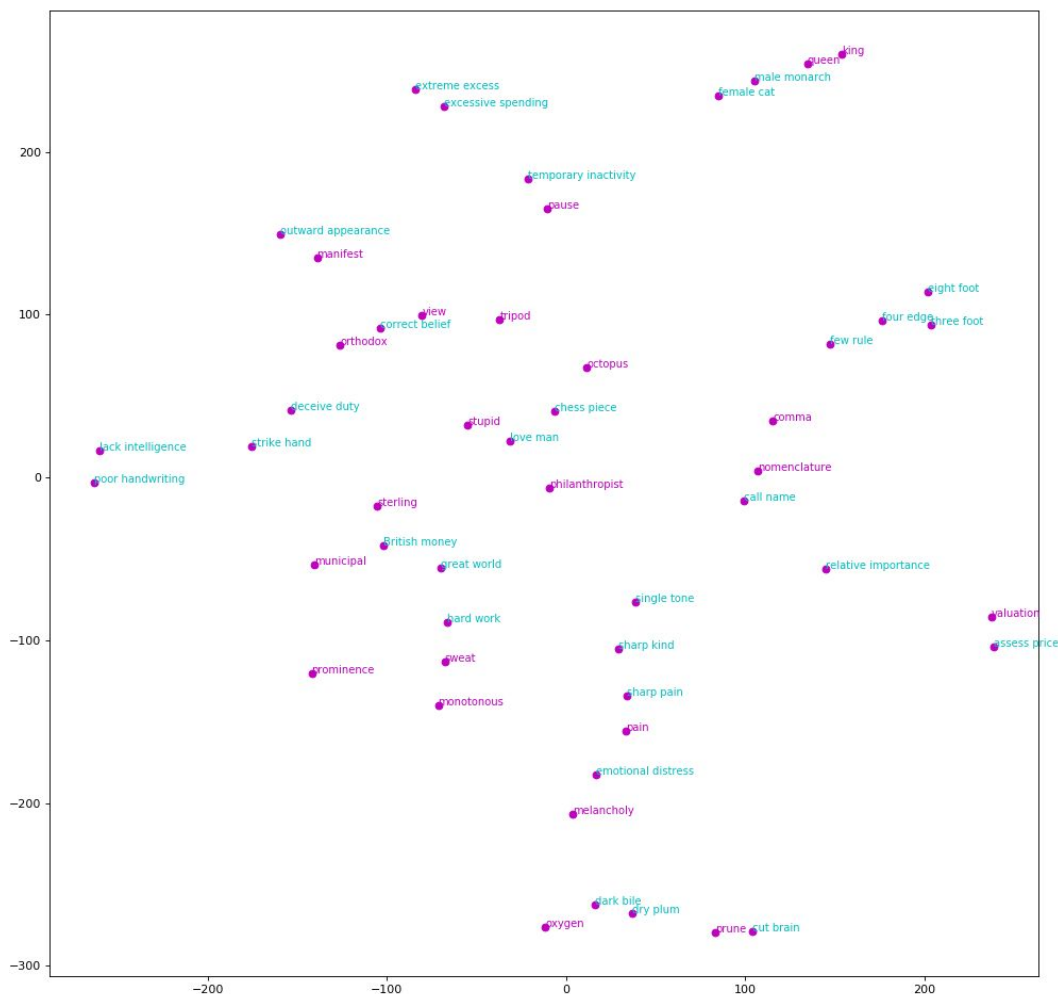


Week 4 assignment



Conclusions based on the results obtained with the word2vec sample model. (Find attached a better visualization of the plot on the zip folder)

• What kinds of expressions are rightly close together or far apart?

Close: sharp pain - pain, emotional distress - melancholy, valuation - asses price, call name - nomenclature, few rule - four edge - eight foot - three foot, extreme excess - excessive spending, queen - king, male monarch - king, temporary inactivity - pause, orthodox - correct belief.

It can be seen on these results that some of them are synonyms (male monarch - king) and the ones who are not have a semantic relationship between them. For the few rule - four edge - eight foot - three foot example, we can see that they share numeric values or queen - king have a semantic relationship despite being antonyms.

Far apart: relative importance - lack intelligence, poor handwriting - chess piece, correct belief - emotional distress.

The terms who are far apart have no apparent semantic links between them.

- **What kinds of similar expressions appear far apart?**

Stupid - lack intelligence, octopus - eight foot.

We can see that there are some words that have a close meaning but they're similarity isn't that obvious.

- **What kinds of dissimilar expressions appear close?**

Sweat - monotonous, comma - nomenclature, love man - chess piece, great world - hard work, male monarch - female cat.

Taking a look at these examples we can see that some of these words that appear together don't have a close semantic relationship, therefore their synthetic phrase vectors are similar. Maybe the model used wasn't the best option and using the Google News one, instead of the pruned Word2vec model, could have provided us with a better result.