



COCO

- Common Objects in Context.
- Mainly used for image processing like OpenCV.
- I used the annotated descriptions of each image.
- 3610 Sentences.
- Tfldf





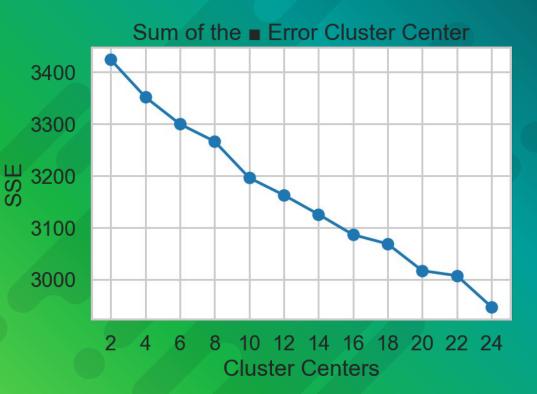


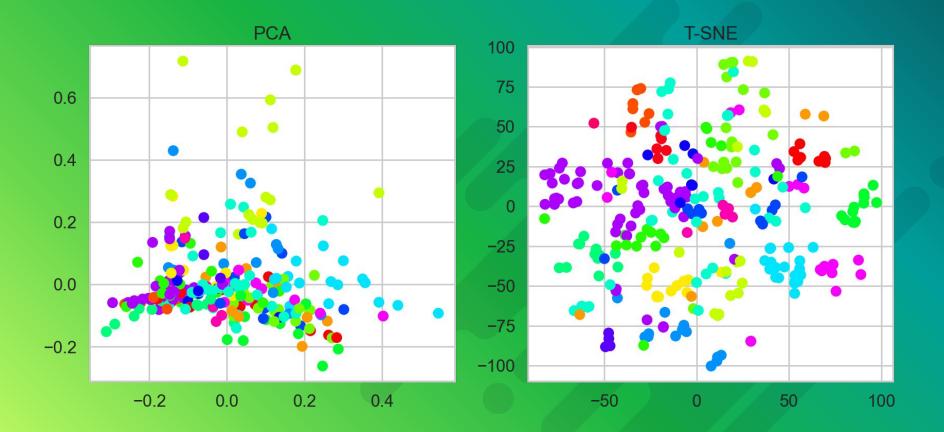


Finding Cluster

- Used SSE to figure out how many clusters I should try.

- Not much of a dip.





Some Example Clusters

One

Food,grey,strip,black, Paw,inside,control, Keyboard,close,toilet, Remote,seat,sink, Blanket,white,dog,top, cat,bed,lay

Two

ride,street

Horse,park,man,corner, bicycle,board,there,nex t,skate,background,lea d,person,city,skateboar d,build,map,people,bike

Three

Curl,object,metal,door, Bed,cake,blue,lay,slide, Cage,watch,glass,next, outside,plant,dog,cat, sit,bowl,table

NMF of 2 Topic Words

Cat

['cat', 'sit', 'laptop', 'look',
'computer', 'top', 'front', 'table',
'window', 'next', 'black', 'screen',
'desk', 'chair', 'lay', 'television',
'orange', 'outside', 'tv']

Dog

['dog', 'white', 'brown', 'lay', 'small', 'black', 'bed', 'hat', 'wear', 'couch', 'frisbee', 'man', 'stand', 'grass', 'two', 'sleep', 'next', 'blanket', 'play']

Some Supervised Learning

- Used GridSearchCV
- Jacard Distance: 99.03
- Hamming Loss: 0.97

Some Supervised Learning



Some Supervised Learning



What I want to do in the future

- Compare bigger sets in COCO
- Explore and address what to do with harsher words
- Is no emotion a good thing?



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