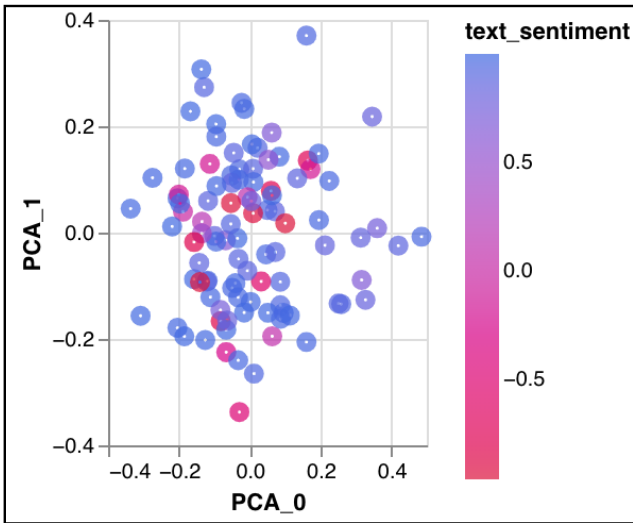
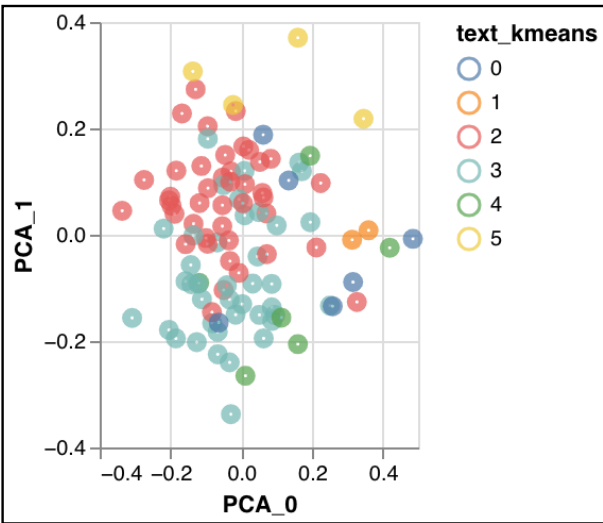
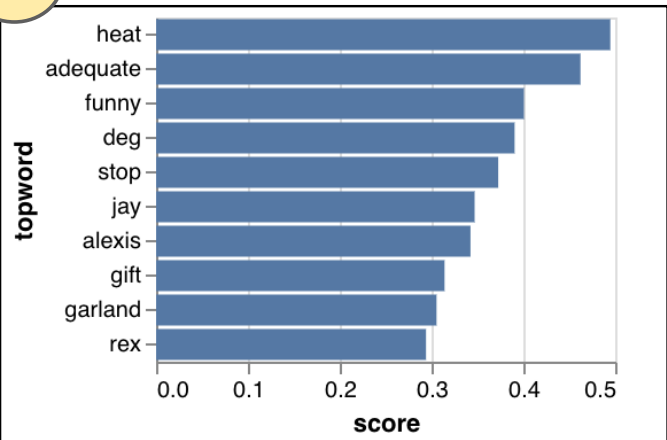




B



Enter Command Here...

In[0]:

```
# W2-A: building columns for review analysis scatterplot
data = VTA("reviews_detailed.csv", started=True)
col = data.get_column("text")
col.project().lowercase()
col.project().remove_punctuation()
new_col = col.mutate().tf_idf()
col2 = data.get_column(new_col)
new_col = col2.project().pca()
col3 = data.get_column(new_col)
col3.project().indices([0,1])
col2.mutate().kmeans()
```

D

review_id	date	text	summary
18184	Jun 20 2007	trip was during the bay to breakers run so friday was 2x regular rate saturday was 4x and sunday was over 6x rate fortunately	Zero rating if I could
9382	Dec 31 2007	details hot tea served in a cast iron kettle a wonderful unique square tub patios with views of the city which open by sliding the wooden doors that have beautiful japanese paintings now loved the location the restaurant and everything else it is a little	Zen in Kabuki
3537	Sep 9 2007	noisy even in the middle of the night firetrucks police cars with sirens etc but what do you expect in the middle of the city i as they walk past garbage trucks and at 3 a.m. someone	ZEN Hotel
7503	Dec 10 2004	wandering around playing the flute needless to say sleeping was difficult if not impossible under these circumstances.the were very budget friendly and front desk staff was insightfull	Zen Den Hell
15904	Oct 2 2009	with helping us get around with public transportation the place seemed newley remodeled they also have a flat screen tv w/	Yummy Breakfast
17059	Nov 28 2007	union square it is further to get to fishermen 's wharf or pier 39	Yucky Hotel in Fabulous