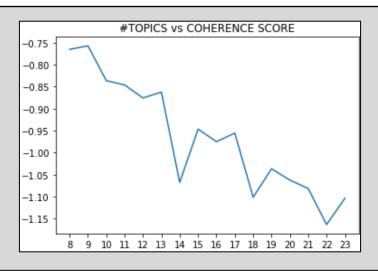


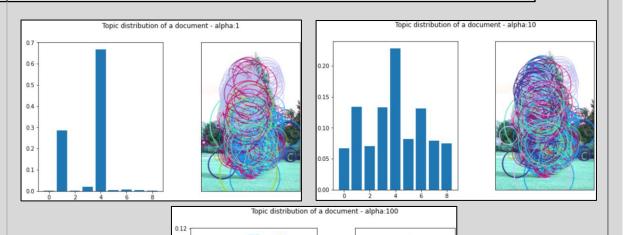
Choosing #TOPICS

Effect of DIFFERENT ALPHAS



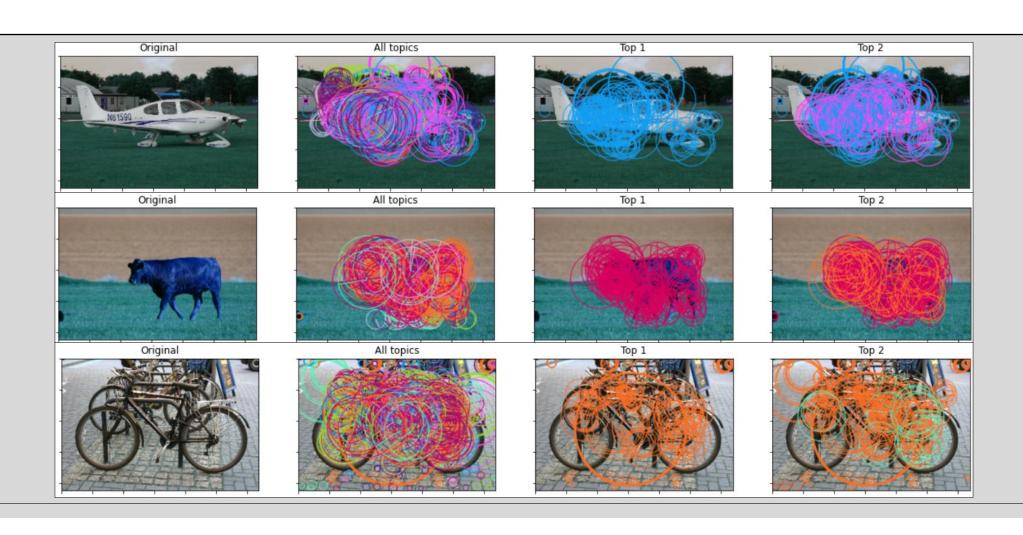
$$|coherence(V) = \sum_{(v_i, v_j) \in V} score(v_i, v_j, \epsilon)|$$

Choose by HIGHEST coherence score (umass in the case of images)





APPLYING TOPICS TO TEST IMAGES



CLUSTERING BY TOPIC DISTRIBUTION

How

many?

Usual

way..

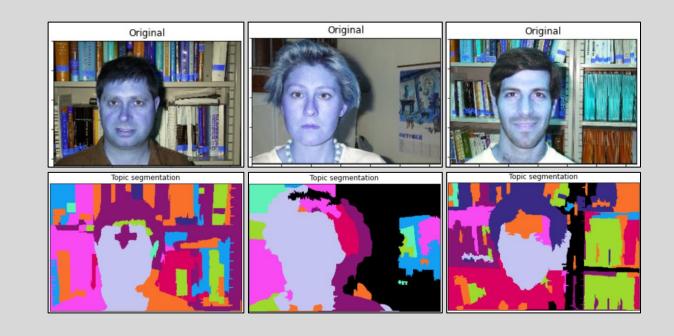
Example of members for a cluster 4_17_s.bmp 7_12_s.bmp 7_14_s.bmp 4_14_s.bmp 4_24_s.bmp

BETTER VISUAL: TOPIC SEGMENTATION



SKETCHY BUT SHOWS COHERENCE

- Method has potential, but not even remotely perfect
- **Dataset** is limited and dispersive
- Implemented methodology is naive
- **Spatial information** would help the model
- Spatial LDA and Topic Random Fields go in that direction



THANK YOU FOR YOUR ATTENTION

(FOR CODE CURIOSITIES, HERE)