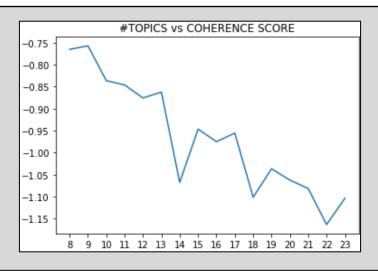


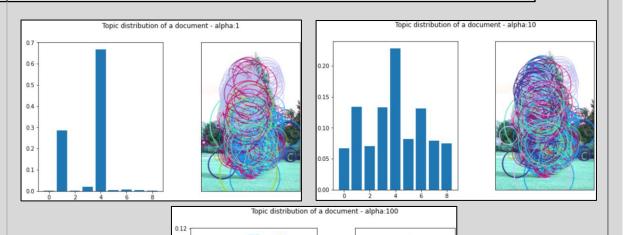
### Choosing #TOPICS

### Effect of DIFFERENT ALPHAS



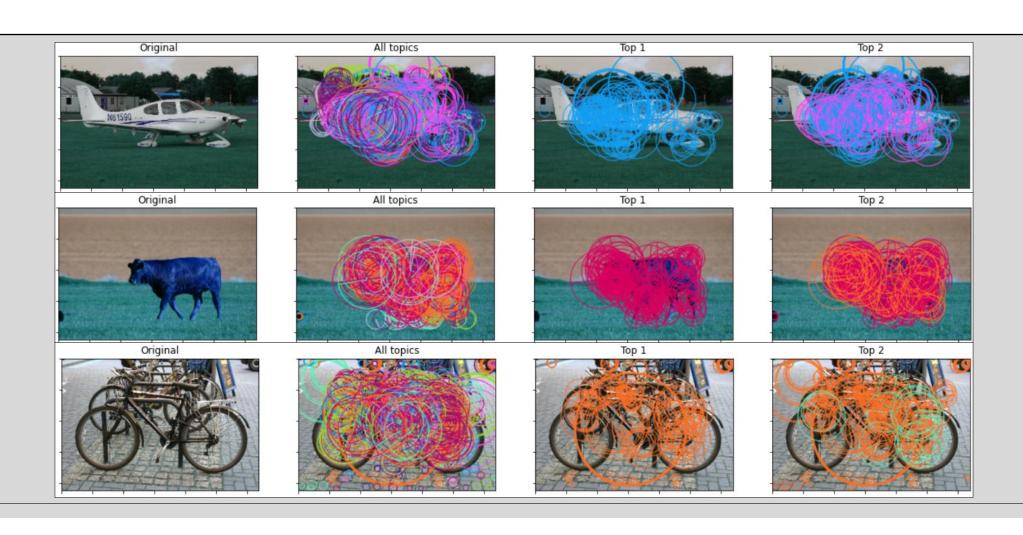
$$|coherence(V) = \sum_{(v_i, v_j) \in V} score(v_i, v_j, \epsilon)|$$

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





#### APPLYING TOPICS TO TEST IMAGES



# CLUSTERING BY TOPIC DISTRIBUTION

How

many?

Usual

way..

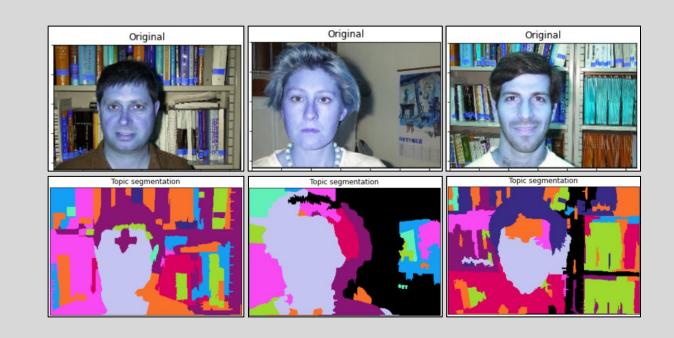
## Example of members for a cluster 4\_17\_s.bmp 7\_12\_s.bmp 7\_14\_s.bmp 4\_14\_s.bmp 4\_24\_s.bmp

#### 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)