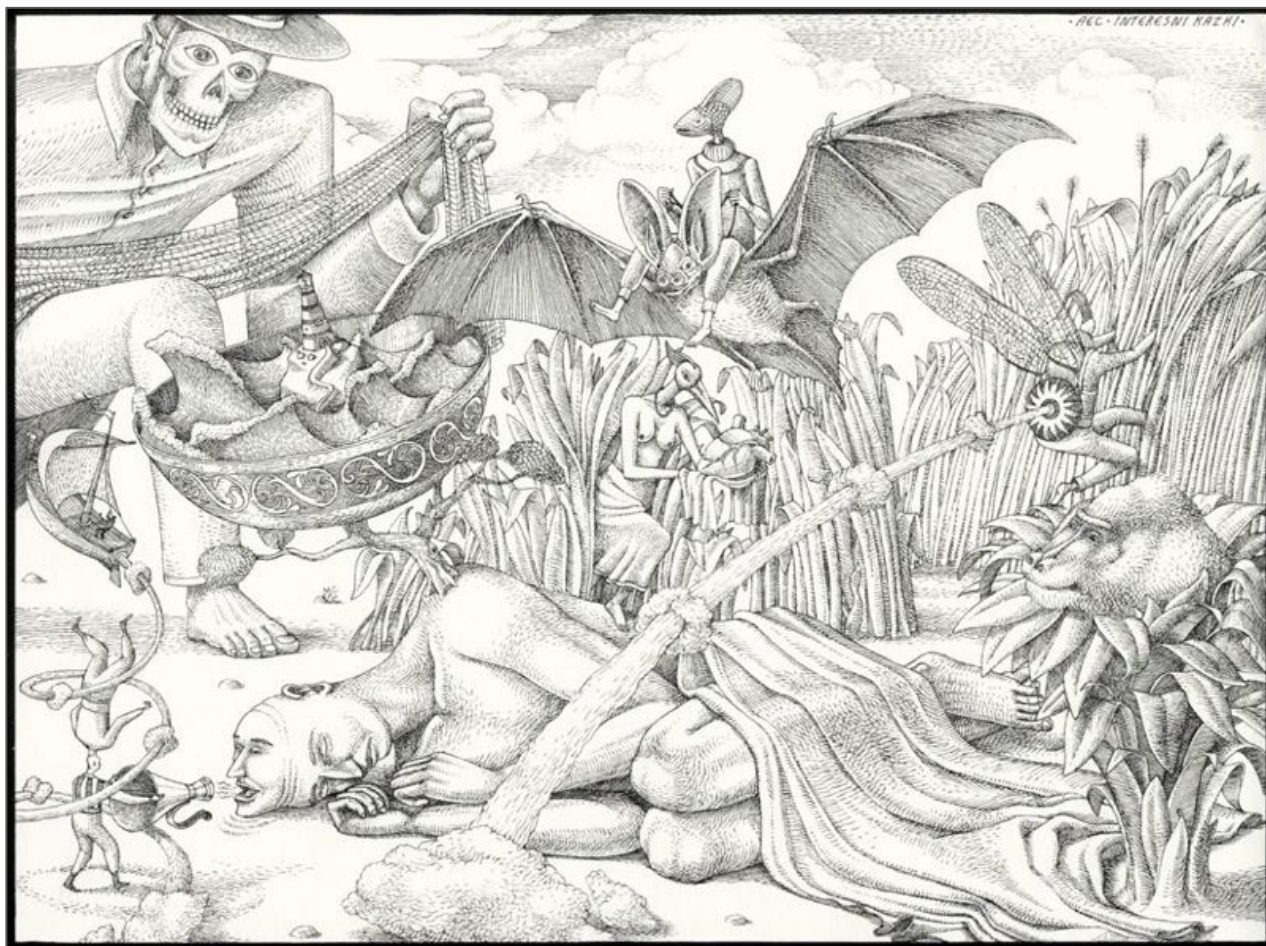




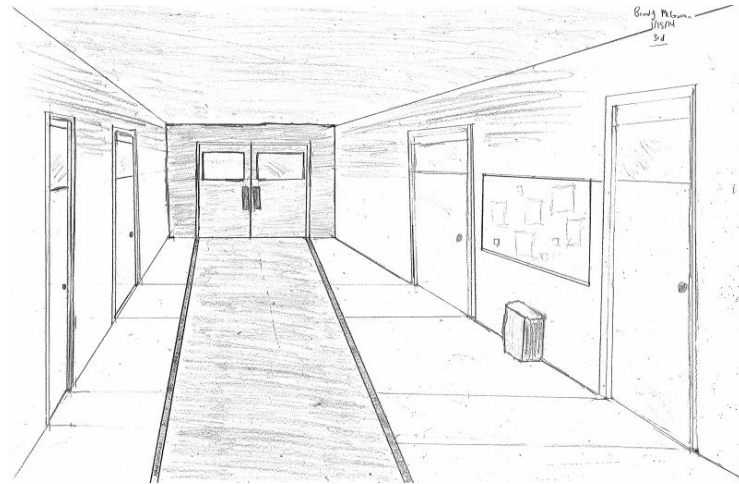
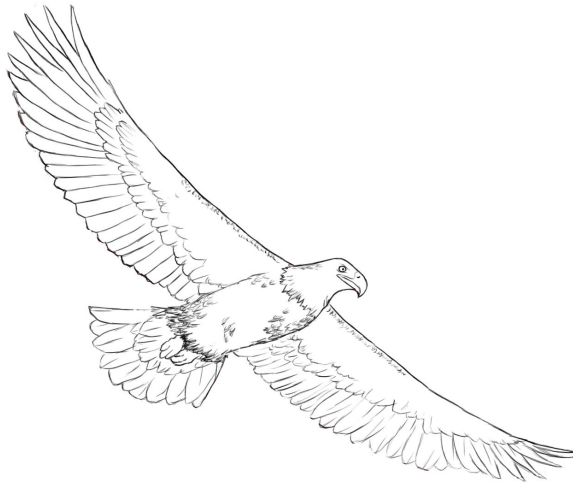
# Dream Clusters

*Using Unsupervised Learning and  
NLP to Understand our Dreams*

Connor Eaton  
Metis: February 2019

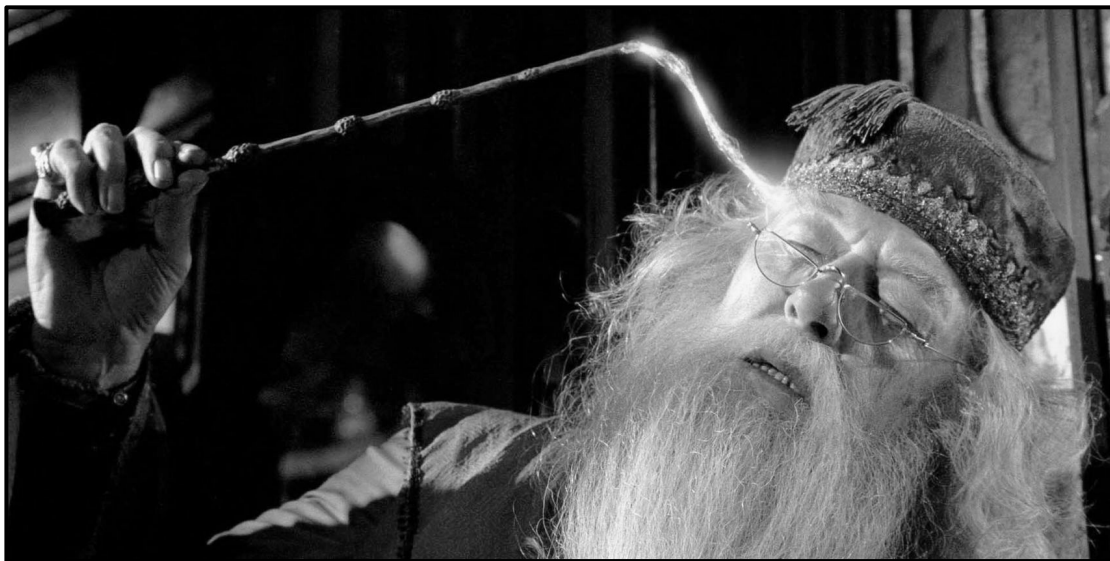


# We all dream



# Gathering dreams

- ~5000 dreams scraped from Reddit subforums
- 11 topics created with LDA.
- Selected for interpretability and coherence score



allow  
psoriasis river  
touch doctor  
hospital  
cheat h  
message wi

school vividly  
game character  
several  
study object  
class teacher

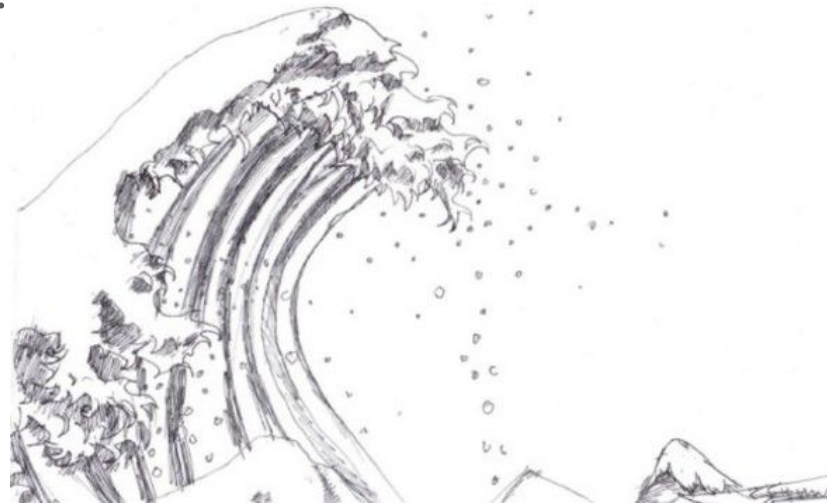
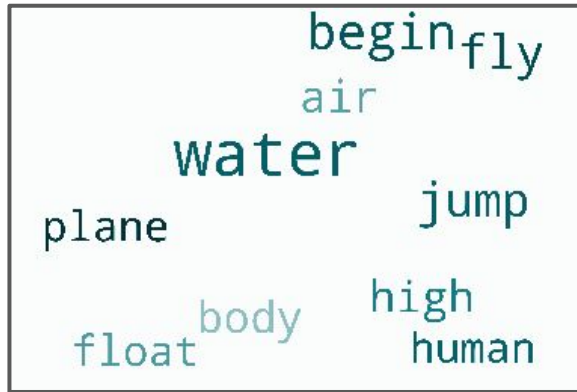
dark  
walk  
black  
open  
door turn  
room window  
house light

begin fly  
air  
water  
plane jump  
float body  
high human

cut  
flood head  
og fight  
kill  
gun shoot grab

# Dream Clusters App: foundation

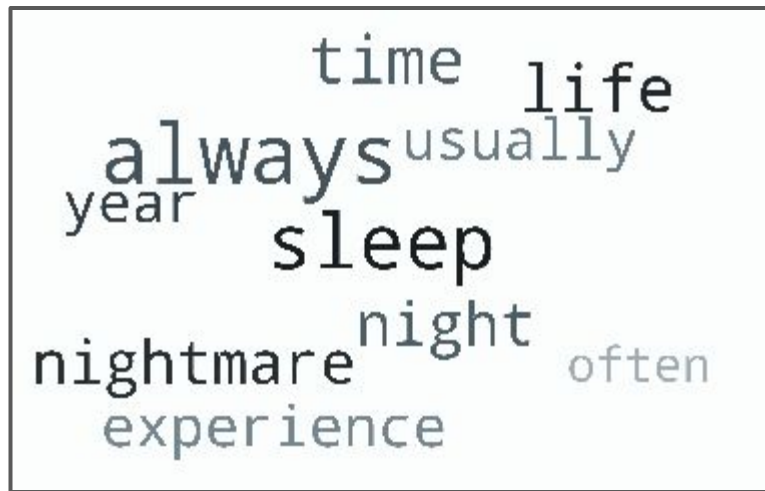
- Input recurring dream about tidal waves
- Effectively categorized dream as water/flying dream
- Used cosine similarity to return 3 most similar dreams:
  - All dreams related to tidal waves.





# Future work

- More data to improve topics
- Better tweaking of word selection to avoid imbalanced topics
- Flask app



# Thank you



“The dream is the small hidden door in the deepest and most intimate sanctum of the soul.”

- *Carl Jung*



# Appendix: Images

<http://studiocromie.org/products-page/artworks/aec-waking-dream-sketch/>

<https://www.amazon.com/Pretty-Feather-Catcher-Cartoon-Sticker/dp/B072JTTWNK>

<https://dumielauxepices.net/drawn-eagle/drawn-eagle-flying-eagle>

<http://getdrawings.com/someone-running-drawing>

<https://bmcgowanlovet.weebly.com/foundations-of-art-spring-2014-blog/hallway-sketch-day-two>

<https://i.stack.imgur.com/bw0z7.jpg>

<http://wheretogot.it/look/985881>

# Appendix: tSNE plot

