

M705: Hands On NLP with Python!
Coding with Techniques \approx Google Translate/Alexa
Instructor: David Morley
Course Date: TBD

Course Purpose

The goal of this course is for students to write code to help them visualize how the word2vec model and word vectors actually work. The intent is to offer a more hands on approach to the NLP class taught prior and ideally students would take this course after so they could directly apply the concepts they had just learned.

Course Outline

- 1) Introduction (5 min)
- 2) Setup Colab Notebooks (10 min)
- 3) 3D Visualization of Basic Word Vectors (10 min)
- 4) Distance Between Vectors Relation (10 min)
- 5) Train BOW model/NN demo (10 min)
- 6) Questions (5 min)

Conclusion

Overall this course will give students a more practical approach to experimenting with Natural Language Processing. While the theory behind the field can be quite complex, the abundance of useful

libraries and abstractions makes it easier than ever for anyone to experiment and learn about these concepts. This course should be a fun and engaging way for students to do just this!