**Literature Review**

Broad overview of sentiment analysis/opinion mining(Cambria, Schuller et al. 2013)

* Opinion mining includes polarity classification (of a single issue – which can have a degree to it) and agreement detection (should pair of text items receive same labels); can we detect and exclude “flames” – overly heated or antagonistic language.
* Extract feature vectors for term frequency and presence, use token position; adjectives heavily used for sentiment classification
* Unsupervised learning – sentiment lexicon a term’s prior polarity/subjectivity helps id contextual polarity or subjectivity
* Have to develop pos/neg specific to movies and books

What’s already been done w/ movies + books in the past

* Supervised learning (using numeric rating) with overall positive/negative classification of movie reviews using Naïve Bayes classifier (w/ 89% accuracy), AdaBoost algorithm, fuzzy lattice reasoning(Satheesh Kumar and Vijayan 2013)
* Book Reviews – 7 extracted features w/ pos-neg spectrum (used Amazon and Goodreads so includes some irrelevant to our purposes like price) – Sohail has a number of other papers on mining book reviews for book recommendation systems, should read these(Sohail, Siddiqui et al. 2016)

Cambria, E., et al. (2013). "New Avenues in Opinion Mining and Sentiment Analysis." Intelligent Systems, IEEE **28**(2): 15-21.

Satheesh Kumar, R. and S. Vijayan (2013). "Mining movie reviews - An evaluation." Journal of Theoretical and Applied Information Technology **56**(2): 290-295.

Sohail, S. S., et al. (2016). "Feature extraction and analysis of online reviews for the recommendation of books using opinion mining technique." Perspectives in Science **8**: 754-756.