You look awesome today!!!







Sadness





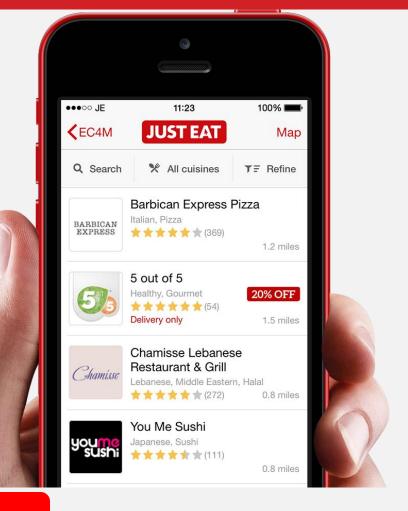
Fear

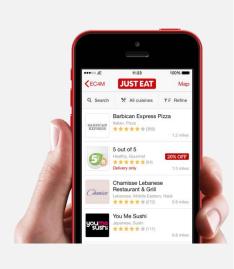


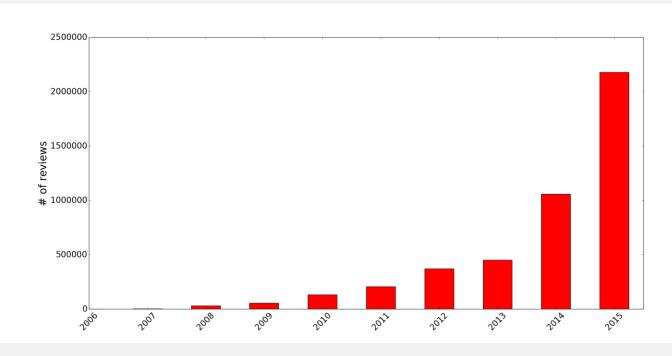
Natural language processing and Sentiment analysis



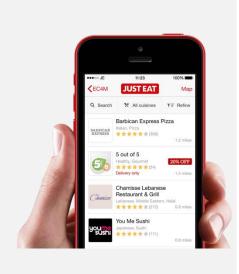


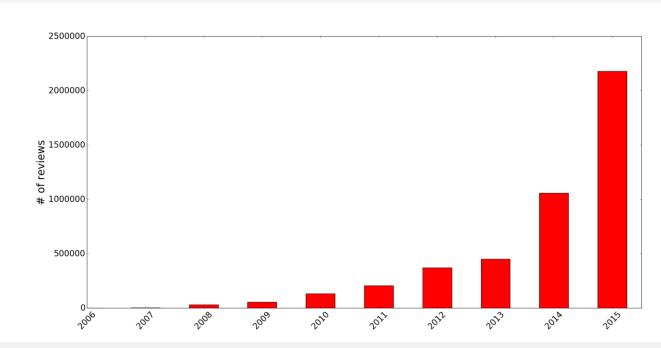




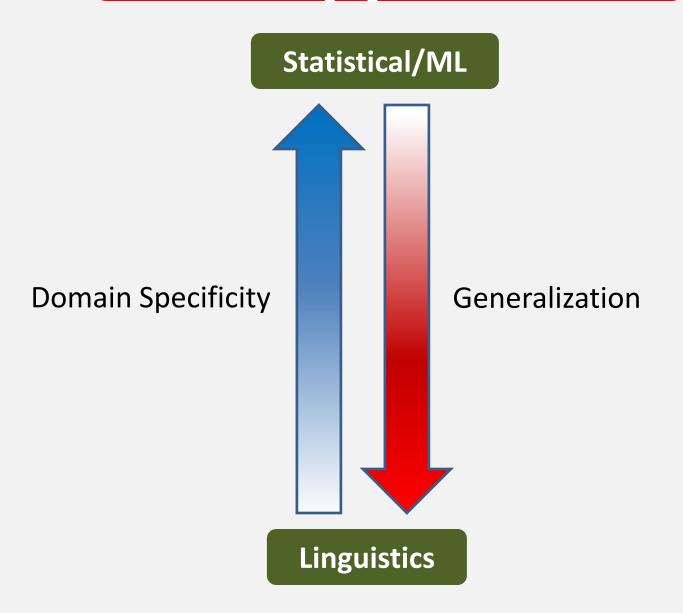


How can we efficiently analyze the sentiment in these data?





Two Approaches



Two Approaches

Statistical/ML

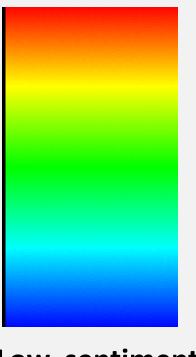


Linguistics

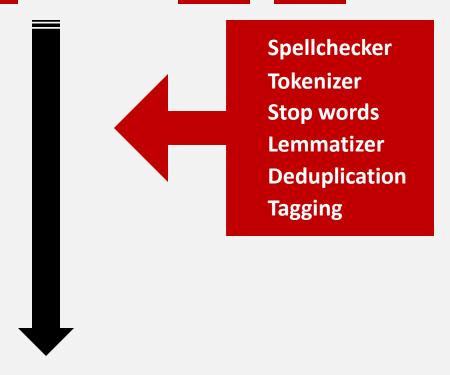
Goal

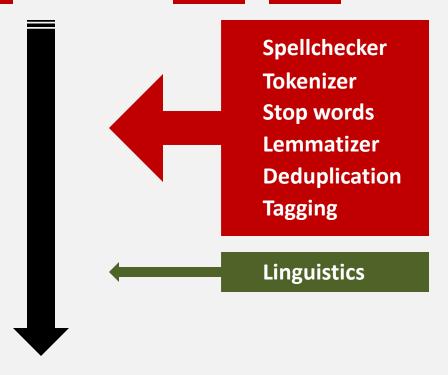
['word1' 'word2' 'word3']

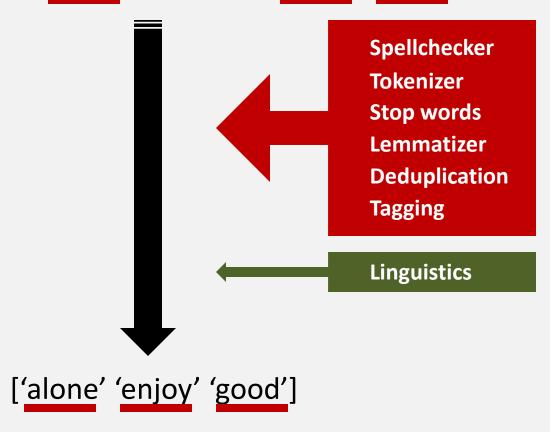
High sentiment

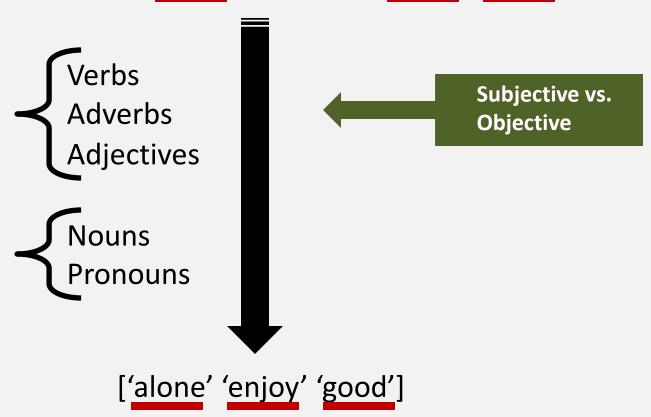


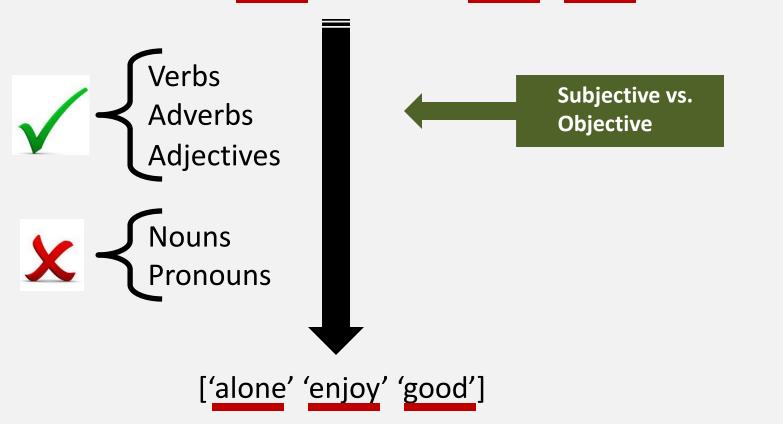
Low sentiment



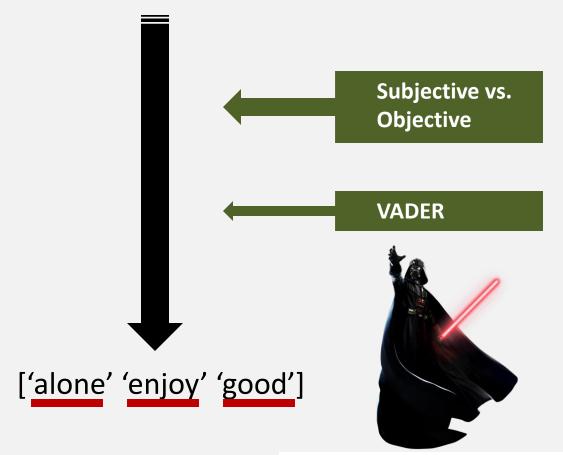








["Wheeeen I am alone, a NormallY enjoy a good pizza!! ©"]



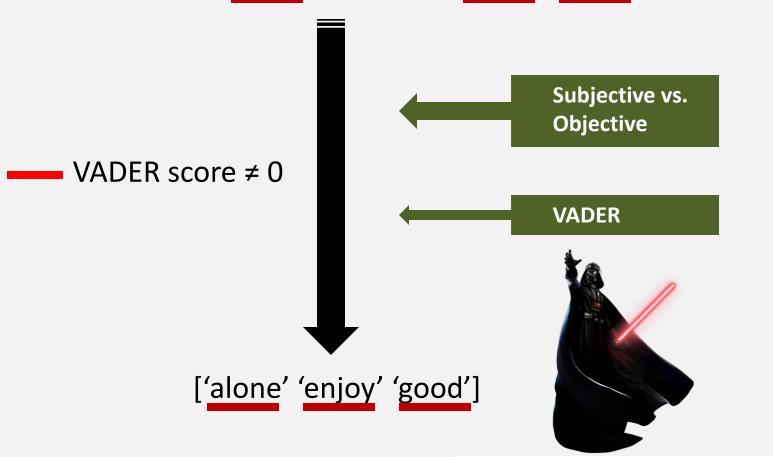
VADER: A Parsimonious Rule-based Model for Sentiment Analysis of Social Media Text

C.J. Hutto

Eric Gilbert

Georgia Institute of Technology, Atlanta, GA 30032 cjhutto@gatech.edu gilbert@cc.gatech.edu

["Wheeeen I am alone, a NormallY enjoy a good pizza!! ©"]



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Binarize

1 2 3 4 5 ['play' 'funny' 'sad' 'good' 'bad'] Minimal Dictionary

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'This food is very good' Review

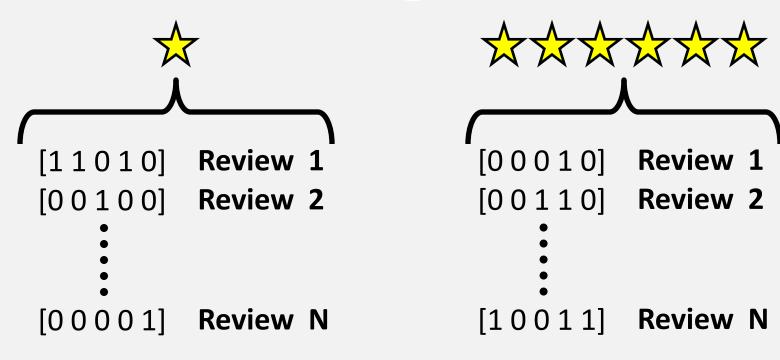
Binarize

1 2 3 4 5 ['play' 'funny' 'sad' 'good' 'bad'] Minimal Dictionary

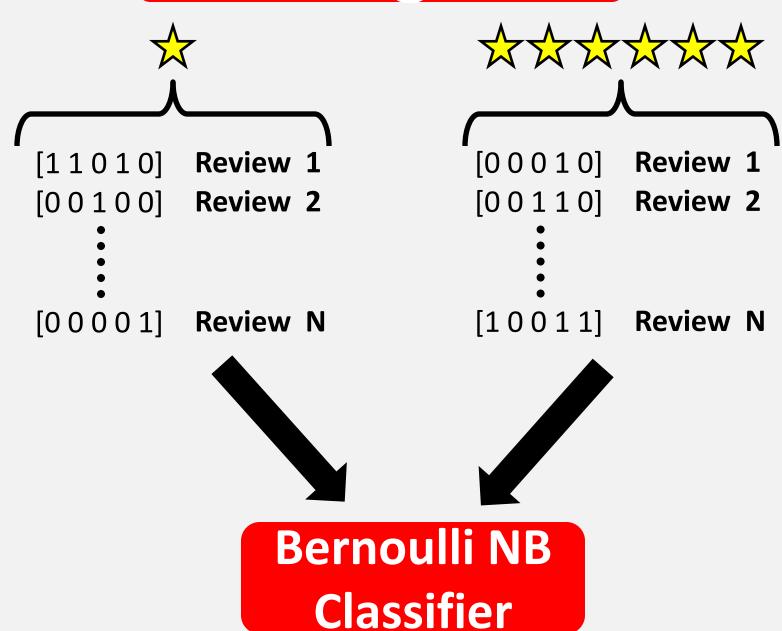
'This food is very good' Review

[0 0 0 1 0] Binarized Review

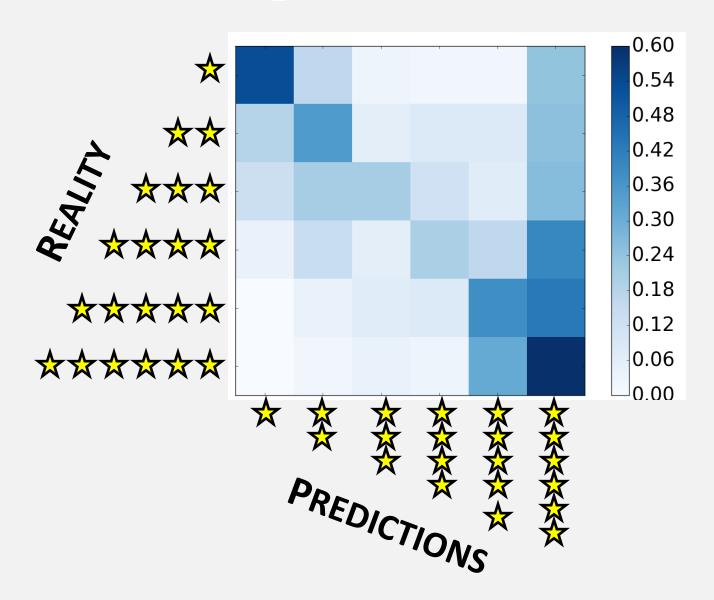
Training data



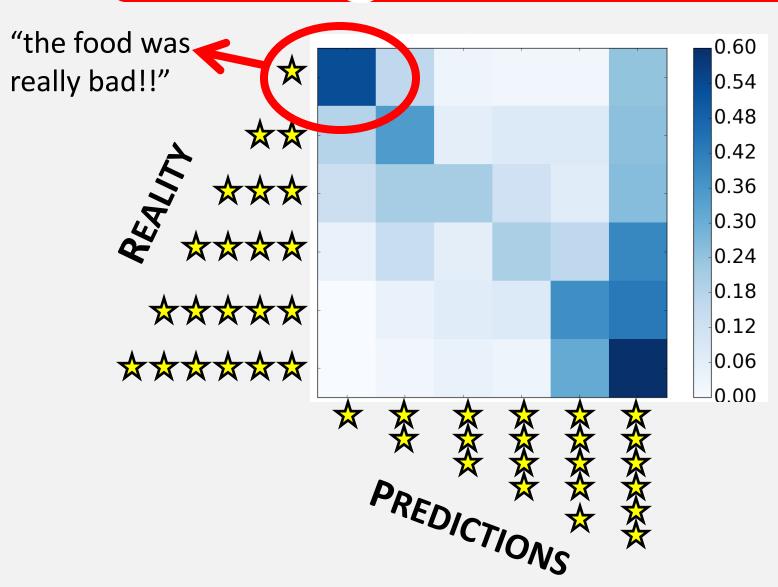
Training data



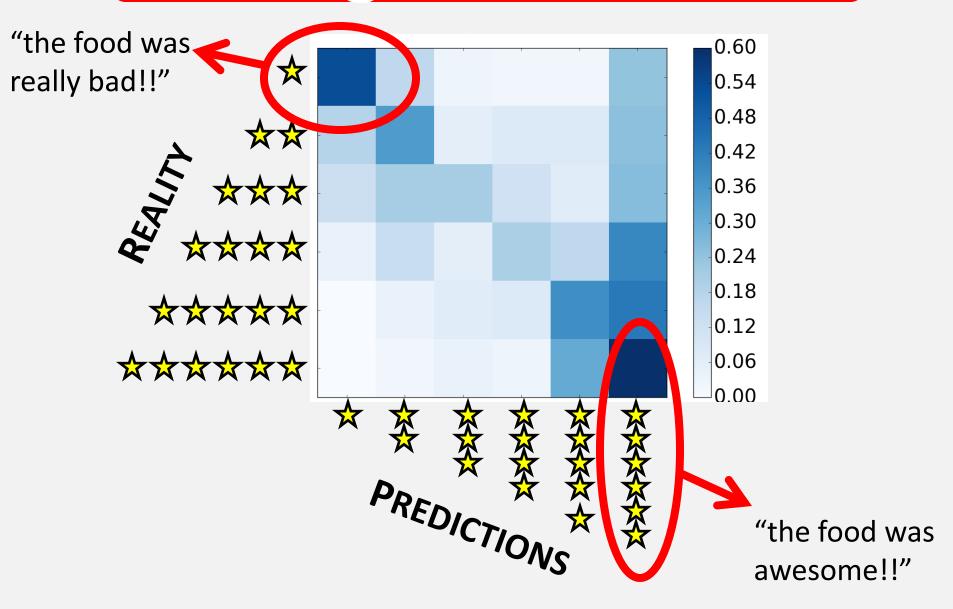
Testing the Classifier



Testing the Classifier

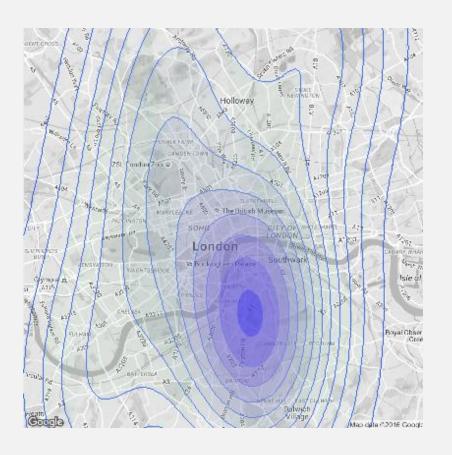


Testing the Classifier

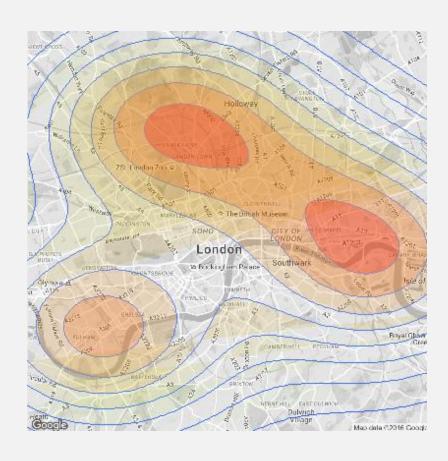


Who is getting good/bad reviews?

'Good' restaurants



'Bad' restaurants



Thank you