Vader Basics

Valence Aware Dictionary and sEntiment Reasoner

If you want to read articles

<http://t-redactyl.io/blog/2017/04/using-vader-to-handle-sentiment-analysis-with-social-media-text.html>

<https://medium.com/analytics-vidhya/simplifying-social-media-sentiment-analysis-using-vader-in-python-f9e6ec6fc52f>

Or Vader project page

<https://pypi.org/project/vader-sentiment/>

IMPORTANT

Citation Information

If you use either the dataset or any of the VADER sentiment analysis tools (VADER sentiment lexicon or Python code for rule-based sentiment analysis engine) in your research, please cite the above paper. For example:

**Hutto, C.J. & Gilbert, E.E. (2014). VADER: A Parsimonious Rule-based Model for Sentiment Analysis of Social Media Text. Eighth International Conference on Weblogs and Social Media (ICWSM-14). Ann Arbor, MI, June 2014.**

**TLDR**

**From the medium article**

It works exceedingly well on social media type text, yet readily generalizes to multiple domains

* Itdoesn’t require any training data but is constructed from a generalizable, valence-based, human-curated gold standard sentiment lexicon
* It is fast enough to be used online with streaming data, and
* It does not severely suffer from a speed-performance tradeoff. **(It worked really slowly for me)**

**From my experience**

It does some cool things that ours didn’t it handles sentiment laden acronyms, it handles emojis, it cleans URL’s, it can handle compound sentences like “The food is GREAT!! But the service was terrible!”

In that example it gives greater weight to the but part of the sentence. Exclamation points add weight to sentiment words. Capitalization adds weight to sentiment words. As such it fills some lexical gaps that many analyzers would have in social media analysis.

On the flip side it does very poorly with figures of speech and analogies. For example I tested "This place makes my taste buds want to pack up and move to a different country!"

To us it is an obviously negative sentiment but it returned {'neg': 0.0, 'neu': 0.904, 'pos': 0.096, 'compound': 0.1511}

Because it can’t understand that wanting to pack up and move to a different country is a bad sentiment.

Or "Self-driving cars? Say Hasta La Vista, Baby!"

It can’t get the Terminator 2 reference {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0} completely neutral statement