

## Week 9 - Sentiment Analysis

```
>>> import nltk
>>> nltk.download()
>>> from nltk.sentiment.vader import
SentimentIntensityAnalyzer
```

This analyzer expects a list of text sentences.

```
>>> sentences = ['This was a really good book.', 'This
movie was so bad.', 'I like to hate Michael Bay films, but I
couldn't fault this one']
```

Create the sentiment analyzer and run it on each sentence, printing a result showing the amount of positive, negative, and neutral. It also gives a compound score, which should be the overall sentiment score, ranging from -1 (negative) to +1 (positive).

```
>>> sid = SentimentIntensityAnalyzer()
>>> for sentence in sentences:
...     print(sentence)
...     ss = sid.polarity_scores(sentence)
...     for k in sorted(ss):
...         print('{0}: {1}'.format(k, ss[k]), end="")
...     print()
```

This was a really good book.  
compound: 0.4927, neg: 0.0, neu: 0.556, pos: 0.444,  
This movie was so bad.

compound: -0.6696, neg: 0.529, neu: 0.471, pos: 0.0,  
I like to hate Michael Bay films, but I couldn't fault this  
one  
compound: 0.3153, neg: 0.157, neu: 0.534, pos: 0.309,

## **TextBlob**

<https://textblob.readthedocs.io/en/dev/>

This is a text processing package that also includes a sentiment analyzer. There is a very simple example on the main web page, and there are instructions for downloading with conda.