

## Flaounas et al. 2013

Note: Here we use some advanced functions. We separate those from external libraries by using code blocks that look like

example command

### Data collection

This has not been reported in the paper, but on a paper they cite.



### Topic classification

Not extensively reported on the paper, but the overall idea is that they develop a *classification model* based on *classified data* and then use that classification model to *unclassified data*.

Do not get too much stuck on this; as they do not explain it in the paper we should not cover too much of this. (We have following papers which go deeper into data analysis.)

## Calculation of writing style and subjectivity

```
for each article in articles :  
  set wordcount as number of words in article  
  set sentence`count as number of sentences in article  
  set syllable`count as number of syllables in article  
  set reading`level as  $206.835 - 1.105 \cdot \frac{\text{wordcount}}{\text{sentence`count}} - 84.6 \cdot \frac{\text{syllable`count}}{\text{wordcount}}$   
  write to file article , reading`level
```

```
for each article in articles :  
  set sentimental`count as 0  
  set adjective`count as 0  
  set adjectives as all adjectives in article  
  for each adjective in adjectives :  
    set sentiment`value as Senti-Wordnet value of adjective  
    if sentiment`value > 0.25:  
      set sentimental`count as sentimental`count + 1  
      set adjective`count as adjective`count + 1  
  write to file article , sentimental`count , adjective`count
```