Study of n-grams in illness related tweets

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1 Description

An study of illness related n-grams in Twitter

We will study the distribution of n-grams (contiguous sequences of n-words) in the illness related tweets.

A broad outline of the study will be:

- 1. Study and visualization of the distribution of the n-grams¹ of the whole distribution of tweets.
- 2. Study and visualization of the distribution of n-grams of each group of diseases. Search for the n-grams characteristics of each group (n-grams with a high frecuency relative to the distribution of the whole tweets.
- 3. Study and visualization of the distribution of n-grams of each individual disease. Search for the n-grams characteristics of each group (n-grams with a high frequency relative to the distribution of the group of diseases tweets).

By isolating these n-grams with a higher frequency I expect to identify issues unique to each of the diseases (as symptoms, or social consequences.)

2 Tools

We will use Python to analyze the tweets, probably with the NLTK libraries.

¹It's still to decide if we will study the n-grams to a given n as a unique set, or as a different n sets. We will take this desicion after reading more bibliography and some experimenting.