Music Mood Classification Using Audio and Lyrics

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Introduction

- Objective: classify songs based on its mood.
- Music is one of the most popular media.
- People can select songs to listen according to their mood.

Feelings x Emotions

Feelings	Emotions
Feelings tell us " how to live ".	Emotions tell us what we "like" and "dislike".
Feelings are Low-key but Sustainable .	Emotions are Intense but Temporary.
Happiness: is a feeling.	Joy: is an emotion.
Worry : is a feeling.	Fear: is an emotion.
Contentment: is a feeling.	Enthusiasm: is an emotion.
Bitterness: is a feeling.	Anger: is an emotion.
Love : is a feeling.	Lust: is an emotion.
Depression : is a feeling.	Sadness: is an emotion.

Source: https://www.authentic-systems.com/featured-articles/difference-between-emotions-and-feelings/

Plutchik's Model of Emotions



Source: http://dinergicfit.com/wpcontent/uploads/2013/12/Plutchik-grafpequeno..png

ANEW

- The Affective Norms for English Words (ANEW) provides a set of emotional ratings for a large number of words in English.
- Focused in studies of emotion and attention.

Million Song Dataset (MSD)

Dataset of audio features and metadata for a million contemporary popular music tracks.

Reference: http://labrosa.ee.columbia.edu/millionsong/

The musiXmatch Dataset

- Official lyrics collection of the Million Song Dataset.
- ▶ 237,662 tracks
- It contains a list of top words and the number of times each word appears in each song.

The Last.fm Dataset

Official song tag and song similarity dataset of the Million Song Dataset.

It provides tags for some of the MSD songs.

Reference: http://labrosa.ee.columbia.edu/millionsong/lastfm

Research

Main focus: Portuguese songs

- MSD: acoustic atributes
- musiXmatch: lyrics
- Last.fm: tags

Research

