DataCamp Project: Emotions in Music

**Data Set Description**

Dataset: <http://cvml.unige.ch/databases/DEAM/>

Overview:

This dataset contains annotations of valence and arousal of 2058 songs. There are three types of data: annotations, metadata, musical excerpts (MEMD\_audio), and features. The songs are separated in 3 set: 1 development set (744 songs) and 2 evaluation sets (1000 and 58 songs respectively)

Annotations:

* Annotations are either organized per song or per rater
* Per song
  + Annotations of valence and arousal on a continuous scale [-1;1], only starting after 15 seconds (because of instability of ratings at start)
  + Annotations are done per 500ms (2Hz) of each excerpt (*dynamic* folder): data organized as *song\_id, sample\_1500ms, sample\_15500ms, … , sample\_626500ms*
  + Average Ratings: averaged ratings (arousal an valence) values on a 9 pt scale [1,9]) of the whole song across raters (*song\_id, valence\_mean, valence\_std, arousal\_mean, arousal\_std*) in the *song\_level* folder
* Per rater
  + 10 raters per song
  + Rated general values of arousal and valence at song-level and at 2Hz

Metadata:

* Artist, song title, start and end time of the segment, genre

Audio files:

* 45 s excerpts (except for the 2015 evaluation set for which the full songs were annotated)
* 44100Hz of frequency sampling

Features:

* For each 45s execrpt, the acoustic properties for each 500ms segments are listed
  + There are about 261 properties for each 500ms segment
  + Not always clear what those features represent