

Project 4 Words for Music

-- Association mining for music and text

Project evaluation

- On 11/16, we will provide you with the **music features** of 100 songs in the same format as the training data.
- You will also be provided with a vocabulary ranking sheet for these 100 songs.
 - The vocabulary is the same as the training data.

	song1	song 2	...	song 100
word 1	5	321	...	112
word 2	2304	986	...	3
...	

- You will have 30 minuets to submit rankings of lyrics words with 1 being most likely and 5000 being least likely.
 - Let the dictionary be $\mathbf{D} = [d_1, \dots, d_K]$, where $K = 5000$.
 - For a song with words w_1, \dots, w_m and $w_i \in \mathbf{D}$, let your predictive ranks be r_1, \dots, r_K , and $\bar{r} = \frac{1}{K} \sum_{k=1}^K r_k$.
 - We will compute predictive rank sum as follows:

$$\frac{1}{m} \frac{1}{\bar{r}} \sum_{i=1}^m r_{w_i}.$$