Lab 05 – MATH 240 – Computational Statistics

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Abstract

In this lab, we took the data we extracted from last lab and interpreted it in terms of wether the data for *Allentown* was within range, outlying, or out of range of the data from each of the artists that contributed. In the end this will give us an idea of which artist contributed the most.

Keywords:

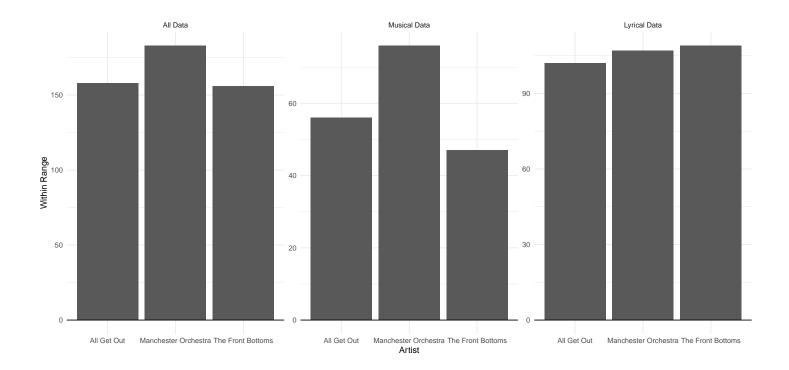
1 Introduction

The purpose of this lab, and the two leading up to it, was to determine which artist contributed the most on *Allentown* of the contributing artists. To do this, we had to take the data from the previous lab and interpret it in a meaningful way.

2 Methods

The data we used from this lab came from Essentia, Essentia Models, and LIWC. These programs help model data from a song's waveform and lyrics in a quantitative way.

3 Results



Comparison of All Data, Musical Data, and Lyrical Data

All Data

	Artist	Within Range	Outlying	Out of Range
1	All Get Out	158	17	22
2	Manchester Orchestra	183	11	3
3	The Front Bottoms	156	11	30

Range of all Features Similar to Allentown by Artist

Musical Data

	Artist	Within Range	Outlying	Out of Range
1	All Get Out	56	10	12
2	Manchester Orchestra	76	2	0
3	The Front Bottoms	47	5	26

Range of Musical Features Similar to Allentown by Artist

Lyrical Data

	Artist	Within Range	Outlying	Out of Range
1	All Get Out	102	7	10
2	Manchester Orchestra	107	9	3
3	The Front Bottoms	109	6	4

Range of Lyrical Features Similar to Allentown by Artist

4 Discussion