

TRACK-CENTRIC SOCIAL-NETWORK AND PEER-TO-PEER ANALYTICS AT THE SCALE OF THE WEB

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ABSTRACT

In this demonstration, we will show how both social and peer-to-peer network analytics are aligned by track across large datasets. We present this data as track specific time-series from various domains and communities. These streams of timeseries data describe behaviour of fans for a track (or the artist that produced the track) in various ways include: friend transitions (follow/unfollow), demographics, and (peer-to-peer) downloader location (by region) and activity level. This data is aligned via common identifiers to the tracks making up the Million Song Dataset (MSD) [1]. As this data is also easily available via the Musicmetrics Web API¹, this trend data provides an alternative source of data above and beyond the content-based features provided for each track making up the core of the MSD.

We will demonstrate prototypical usage of this contextual data live against the tracks of the MSD. These calls will be exploratory and modifiable during the demonstration, allowing the audience to interact with our data and understand how it might be used in their research.

1. REFERENCES

- [1] T. Bertin-Mahieux, D.P.W. Ellis, B. Whitman and P. Lamere: "The Million Song Dataset," *Proceedings of the International Symposium on Music Information Retrieval*, 2011.

¹<http://developer.musicmetric.com>

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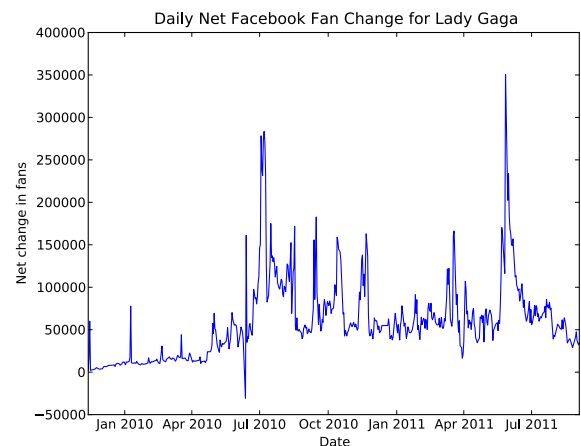


Figure 1. The daily net change in fans for Lady Gaga on Facebook for the last two years. Retrieved on 5 September 2011 from <http://apib2.semetric.com/artist/musicmetric:496744/fans/facebook>.