

DEVELOPING A WORD CLOUD

A FREQUENCY WORD CLOUD ILLUSTRATES THE MOST USED WORDS IN A TEXT DATASET

- A FREQUENCY WORD CLOUD illustrates the most used words in the review/feedback dataset – this is very simply displayed graphically with higher the word usage, the larger the word appears in the cloud.
- To demonstrate, in the “simplified” example, R Studio is used to analyse approximately 23,000 text only reviews obtained for a Women’s Ecommerce clothing company (data was sourced from Kaggle – a Machine Learning and Data Science Community website). The 23,000 reviews covered 20 product categories with multiple variations of each product – resulting in 1,206 discrete products.
- The first step in the analysis is looking at a high-level view of the approximately 23,000 reviews by creating a FREQUENCY WORD CLOUD. This is done by condensing each of the reviews into a string of text and counting the times a single word appears.

CLEANING THE DATA

- The Women’s Clothing Data Set – in a .csv file format, contained approximately 23,000 reviews covering 1,206 products.
- Before commencing the analysis, a review of the data set identifies a total number of reviews (23,000) across 6 departments (Bottoms, Dresses, Intimates, Jackets, Tops) with a total of 20 Product Categories within the departments and 1,206 Product sub-categories. Each of the 1,206 Products has their individual Stock Keeping Unit identifications or SKUs which provides specific information on the silhouette (style of the product) and/or colour.
- Note that the quantity of customer reviews has a direct correlation to the quantity of sales – i.e., you purchase the item then review it.

APPENDIX 1: FURTHER READING

- Part 1 - DEVELOPING A FREQUENCY WORD CLOUD
- [Part 2 – DEVELOPING A BIGRAM](#)
- [Part 3 – Text Analytics – Sentiment Analysis](#)
- [Part 4 - Text Analytics – Emotional Classification](#)
- [Part 5 – Full case Study – Text Analysis on written reviews from a Women’s Online fashion company using RStudio](#)

APPENDIX 2 – R PACKAGES

While performing the analysis using R, the analyst can call on specialised packages to perform detailed analysis of the data.

Packages used to perform detailed analysis.

```
library(tidyverse)
```

```
library("tm")
```

```
library("SnowballC")
```

```
library("wordcloud")
```



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