### Packages in R

**twitteR :** Provides an interface to the Twitter web API.

**ROAuth :** Provides an interface to the OAuth 1.0 specification allowing users to authenticate via OAuth to the server of their choice.

**Curl:** The curl() function provide highly configurable drop-in replacements for base url() with better performance, support for encryptiomn (https, ftps), gzip compression, authentication, and other 'libcurl' goodies. The core of thepackage implements a framework for performing fully customized requests where data can be processed either in memory, on disk, or streaming via the callback or connection interfaces. Some knowledge of 'libcurl' is recommended; for a more-user-friendly web client see the 'httr' package which builds on this package with http specific tools & logic.

**Syuzhet :** Extracts sentiment and plot arcs from text using a variety of sentiment dictionaries conveniently packaged for consumption by R users. Implemented dictionaries include "syuzhet" (default) developed in the Nebraska Literary Lab "afinn" developed by Finn {\AA}rup Nielsen, "bing" developed by Minqing Hu and Bing Liu, and "nrc" developed by Mohammad, Saif M.. Applicable references are available in README.md and in the document of the "get\_sentiment" function. The package also provides a hack for implementing Stanford's coreNLP sentiment parser. The package provides several methods for plot arc normalization.

**tm (Text mining) :**A framework for text mining applications within R.

**data.table :** Fast aggregation of large data (e.g. 100GB in RAM), fast ordered joins, fast add /modify/delete of columns by group using no copies at all, list columns, a fast friendly file read and parallel file writer. Offers a natural and flexible syntax, for faster development.

**ggplot2: Create Elegant Data Visualization’s Using the Grammar of Graphics**

A system for 'declaratively' creating graphics, based on "The Grammar of Graphics". You provide the data, tell 'ggplot2' how to map variables to aesthetics, what graphical primitives to use, and it takes care of the details.

**Word cloud :** Creates word clouds for the words in the text.