Using APIs to exchange data

BK

Wednesday, December 30, 2015

In this demo,  
\* the twitter REST API is accessed using the GET method  
\* 5 of the most recent tweets of a specified user (One R Tip a [Day@rlangtip](mailto:Day@rlangtip)) are extracted in JSON format  
\* only the text of the tweets are filtered out and displayed

A prerequisite is the creation of an application (BalaTwitterAPI) at <https://dev.twitter.com> and this is not covered here.

This is the version of the code with the keys masked

library(httr)  
library(rjson)  
  
myapp <- oauth\_app("BalaTwitterAPI", key = "xxxxxxxxxxx", secret = "xxxxxxxxxxx")  
sig <- sign\_oauth1.0(myapp, token = "xxxxxxxxxxx", token\_secret = "xxxxxxxxxxx")  
recent <- GET("https://api.twitter.com/1.1/statuses/user\_timeline.json?screen\_name=rlangtip&count=5",sig)  
  
json1 <- content(recent)  
json2 <- jsonlite::fromJSON(toJSON(json1))  
json2[1:5,4]

These are the 5 latest tweets published by "One R Tip a [Day@rlangtip](mailto:Day@rlangtip)"

## [1] "Learn or teach integration with area() {MASS} e.g. area(sin,0,pi) to integrate sin over [0,pi] https://t.co/pPkXM3tOcT #rstats"   
## [2] "To convert dates/times from one timezone to another, use format() on a POSIXct object. Details: https://t.co/nGyeFEZvZ9 #rstats"   
## [3] "Happy Holidays and demo('Xmas\") {animation} https://t.co/W48N8N7LKI #rstats"   
## [4] "SANTA will help you quantify the association between a gene and a molecular network https://t.co/iG4GAVo1eI #rstats #bioconductor"  
## [5] "Use library() to see all packages installed, search() to see all packages loaded #rstats https://t.co/IuZIa5IqMS"