# Using APIs to exchange data

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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) 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

```r
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=rlan
gtip&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"

```
## [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"
```