# Homework 4: Writing Functions, Querying an API, and Tidy-Style Functions

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```
#|message=FALSE
#|warning=FALSE

# Load in necessary packages
suppressPackageStartupMessages(library(tidyverse))
suppressPackageStartupMessages(library(httr))
suppressPackageStartupMessages(library(jsonlite))
```

**Task 1: Conceptual Questions**

**1. What is the purpose of the `lapply()` function? What is the equivalent `purrr` function?**

```
t1_q1 <- "The `lapply()` function is used to apply functions to lists. For example,
if we used the function `mean()` within the `lapply()`, we could apply that function
to each list element. The equivalent function in the `purrr` package is `map()`,
which can be applied to 1 list. There is also `map2()` which can apply functions
to 2 lists and then `pmap()` can apply the function to any number of lists"
```

**2. Suppose we have a list called `my_list`. Each element of the list is a numeric data frame (all columns are numeric). We want to use `lapply()` to run the code `cor(numeric_matrix, method = "kendall")` on each element of the list. Write code to do this below!**

```
#make a numeric list

df_1 <- data.frame(a = 1:5, b = 11:15)
df_2 <- data.frame (c = rnorm(5), d = rnorm(5))
df_3 <- data.frame(e = rnorm(4), f = c(2, 5, 22, 23))

my_list <- list(df_1, df_2, df_3)

t1_q2 <- lapply(my_list, FUN = cor, method = "kendall")
```

**3. What are two advantages of using `purrr` functions instead of the `BaseR` apply family?**

```
t1_q3 <-"One advantage of `purrr` over the apply family is that it provides a
`tidyverse` alternative to the `apply()` family, allowing for consistent syntax
and the output is more predictable. Another advantage is that `purrr` allows you
shorthand to make anonymous functions."
```

**4. What is a side-effect function?**

```
t1_q4 <- "Side-effect functions are functions that produce something but do not
change the data. Some examples of side-effect functions include `print()`,
`write_csv()`, or `plot()`"
```

**5. Why can you name a variable `sd` in a function and not cause any issues with the `sd` function?**

```
t1_q5 <- "You can name a variable `sd` within a function and not cause any issues
with the `sd` function due to Lexical Scoping. When a function is called, the
environment that the function is performed in is temporary. Once the function is
complete, that variable created within the function is not saved. It only works
within the local function and not the `globalenv()`."
```

**Creating a list with the above question answers**

```
task1_answer_list <- list(t1_q1, t1_q2, t1_q3, t1_q4, t1_q5)
```

## Task 2: Writing R Functions

### Question 1: Create a function to calculate root mean square error

```
#function to getRMSE - first input will be response, 2nd will be predictions, and add
#elipses
getRMSE <- function(resp, pred, ...) {
#start by getting the squared error
  sq_error <- (resp - pred)^2
#take mean of squared error, then the square root
#add ... to allow for additional arguments
  rmse <- sqrt(mean(sq_error, ...))
#return the root mean square error
  return(rmse)
}
```

### Question 2: Testing our function to get the Root Mean Square Error

Let's create some response and predicted values

```
set.seed(10)
n <- 100
x <- runif(n)
resp <- 3 + 10*x + rnorm(n)
pred <- predict(lm(resp ~ x), data.frame(x))

getRMSE(resp, pred)
```

```
[1] 0.9581677
```

Now will replace 2 response values with missing

```
resp[c(5, 9)] <- NA_real_
```

Let's use my function without specifying how to handle missing values

```
getRMSE(resp, pred)
```

```
[1] NA
```

Let's retest the function specifying how to handle missing values

```
getRMSE(resp, pred, na.rm=T)
```

```
[1] 0.9627749
```

**Question 3: Now let's create a function to calculate the mean absolute deviation.**

```
#function to get the Mean absolute deviation - first input will be response,
#2nd will be predictions, and add elipses
getMAE <- function(resp, pred, ...) {
#take the mean of the absolute value of response minus predicted
  mean_abs_dev <- mean(abs((resp - pred)),...)

#return the mean absolute deviation
  return(mean_abs_dev)
}
```

**Question 4: Testing our function to get the Mean Absolute Deviation**

Let's create some response and predicted values

```
set.seed(10)
n <- 100
x <- runif(n)
resp <- 3 + 10*x + rnorm(n)
pred <- predict(lm(resp ~ x), data.frame(x))

getMAE(resp, pred)
```

```
[1] 0.8155776
```

Now will replace 2 response values with missing

```
resp[c(12, 33)] <- NA_real_
```

Let's use my function without specifying how to handle missing values

```
getMAE(resp, pred)
```

```
[1] NA
```

Let's retest the function specifying how to handle missing values

```
getMAE(resp, pred, na.rm=T)
```

```
[1] 0.8185156
```

**Question 5: Create a wrapper function to return both the Root Mean Square Error and Mean Absolute Deviation with a single call**

```
pred_wrapper <- function(resp, pred, metrics = c("rmse", "mae"), ...) {

#first, need to check if input is a vector, atomic, and numeric
#will do first for resp input, then for pred input

  if (!(is.vector(resp) && is.atomic(resp) && is.numeric(resp))) {
    message("Error: 'resp' input must be a numeric atomic vector")
    return(NULL)
  }

  if (!(is.vector(pred) && is.atomic(pred) && is.numeric(pred))) {
    message("Error: 'pred' input must be a numeric atomic vector")
    return(NULL)
  }
  #create a list to store the results

  results <- list()

  #Use root mean square function
  if ("rmse" %in% metrics) {
    results[["Root Mean Square Error"]] <- getRMSE(resp, pred, ...)
```

```
  }

  #use mean absolute deviation function
  if ("mae" %in% metrics){
    results[["Mean Absolute Deviation"]] <- getMAE(resp, pred, ...)
  }

  #return the list of results
  return(results)

}
```

**Question 6: Testing the Wrapper Function**

Let's create some response and predicted values

```
set.seed(10)
n <- 100
x <- runif(n)
resp <- 3 + 10*x + rnorm(n)
pred <- predict(lm(resp ~ x), data.frame(x))
```

Let's test the wrapper function first by calling each metric by themselves

First will be for Root Mean Square Error

```
pred_wrapper(resp,pred, metrics = "rmse")
```

```
$`Root Mean Square Error`
[1] 0.9581677
```

Next we will call for Mean Absolute Deviation

```
pred_wrapper(resp,pred, metrics = "mae")
```

```
$`Mean Absolute Deviation`
[1] 0.8155776
```

Now let's call both metrics

```
pred_wrapper(resp,pred, metrics = c("rmse", "mae"))
```

```
$`Root Mean Square Error`
[1] 0.9581677

$`Mean Absolute Deviation`
[1] 0.8155776
```

Now we are going to change 2 response values to missing

```
resp[c(1, 82)] <- NA_real_
```

We will test using the original function, followed by testing indicating to remove missing values

```
pred_wrapper(resp,pred, metrics = c("rmse", "mae"))
```

```
$`Root Mean Square Error`
[1] NA

$`Mean Absolute Deviation`
[1] NA
```

```
pred_wrapper(resp,pred, metrics = c("rmse", "mae"), na.rm=TRUE)
```

```
$`Root Mean Square Error`
[1] 0.9649399

$`Mean Absolute Deviation`
[1] 0.8214778
```

Now, let's create a data frame. We will then test what happens when that is input into the function

```
test_df <- data.frame(
  letters = 1:6,
  age = sample(18:45, 6)
)
```

```r
pred_wrapper(test_df,pred, metrics = c("rmse", "mae"))
```

```
Error: 'resp' input must be a numeric atomic vector
```

```
NULL
```

**Task 3: Querying an API and a Tidy-Style Function**

For this task we will connect to an API from News API.

**Question 1: Use the `GET()` function from the `httr` package to return an interesting topic. Let's get top headlines for recent sports events**

```r
URL_sports_headlines <- "https://newsapi.org/v2/everything?q=Yankees&source=us&apiKey=e09f04

id_sports_headlines <- httr::GET(URL_sports_headlines)
```

**Question 2: Now let's parse what was returned and find the data frame with article information**

```r
#Look at structure of data
str(id_sports_headlines, max.level = 1)
```

```
List of 10
 $ url        : chr "https://newsapi.org/v2/everything?q=Yankees&source=us&apiKey=e09f041046
 $ status_code: int 200
 $ headers    :List of 13
  ..- attr(*, "class")= chr [1:2] "insensitive" "list"
 $ all_headers:List of 1
 $ cookies    :'data.frame':    0 obs. of  7 variables:
 $ content    : raw [1:78897] 7b 22 73 74 ...
 $ date       : POSIXct[1:1], format: "2025-06-21 19:50:31"
 $ times      : Named num [1:6] 0 0.856 0.88 0.918 1.093 ...
  ..- attr(*, "names")= chr [1:6] "redirect" "namelookup" "connect" "pretransfer" ...
 $ request    :List of 7
  ..- attr(*, "class")= chr "request"
 $ handle     :Class 'curl_handle' <externalptr>
 - attr(*, "class")= chr "response"
```

Next, parse the data using `jsonlite` package

```
parsed_sports_headlines <- fromJSON(rawToChar(id_sports_headlines$content))
sports_headlines <- as_tibble(parsed_sports_headlines)
sports_headlines$articles
```

|    | source.id | source.name           |
|----|-----------|-----------------------|
| 1  | espn      | ESPN                  |
| 2  | espn      | ESPN                  |
| 3  | espn      | ESPN                  |
| 4  | espn      | ESPN                  |
| 5  | <NA>      | HYPEBEAST             |
| 6  | espn      | ESPN                  |
| 7  | <NA>      | MacRumors             |
| 8  | espn      | ESPN                  |
| 9  | <NA>      | Rolling Stone         |
| 10 | <NA>      | HYPEBEAST             |
| 11 | <NA>      | TMZ                   |
| 12 | <NA>      | /FILM                 |
| 13 | lenta     | Lenta                 |
| 14 | espn      | ESPN                  |
| 15 | espn      | ESPN                  |
| 16 | <NA>      | The New Yorker        |
| 17 | <NA>      | Search Engine Journal |
| 18 | espn      | ESPN                  |
| 19 | <NA>      | Forbes                |
| 20 | <NA>      | HYPEBEAST             |
| 21 | <NA>      | Forbes                |
| 22 | <NA>      | Forbes                |
| 23 | <NA>      | Forbes                |
| 24 | time      | Time                  |
| 25 | <NA>      | Forbes                |
| 26 | <NA>      | MLB Trade Rumors      |
| 27 | espn      | ESPN                  |
| 28 | espn      | ESPN                  |
| 29 | <NA>      | Forbes                |
| 30 | <NA>      | Forbes                |
| 31 | <NA>      | Forbes                |
| 32 | <NA>      | Forbes                |
| 33 | <NA>      | Biztoc.com            |
| 34 | espn      | ESPN                  |
| 35 | <NA>      | MLB Trade Rumors      |

```
36      <NA>                  Forbes
37 fox-sports          Fox Sports
38      espn                   ESPN
39      espn                   ESPN
40      espn                   ESPN
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42      <NA>      MLB Trade Rumors
43      <NA>                  Forbes
44      <NA>      MLB Trade Rumors
45      espn                   ESPN
46      <NA>      MLB Trade Rumors
47 fox-sports          Fox Sports
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49      <NA>      MLB Trade Rumors
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76      <NA>      MLB Trade Rumors
77      espn                   ESPN
78 fox-sports          Fox Sports
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79 fox-sports          Fox Sports
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83     <NA>           Cracked.com
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31            Larry Fleisher, Contributor, \n Larry Fleisher, Contributor\n https://www.forbe
32  John Perrotto, Senior Contributor, \n John Perrotto, Senior Contributor\n https://www.forb
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3            Aaron Judge and Shohei Ohtani both blast home runs in first inning of Yankees-Dodg
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6                                             Jac jack: Royals' Caglianone belts first ML
7                                  Apple TV+ Announces MLB Friday Night Baseball Schedule for .
8                                        MLB reveals uniforms for 2025 All-Star Game, Home Run De
9                                     Yankees vs. Dodgers: How to Watch the World Series Rema
10                                           Feid Surprises His Fans With 'FERXXO VOL X: Sagra
11               Cody Bellinger's Dad Says Yankees' Offseason Haul Better Than Keeping Juan S
12                 Gary Cooper's Genre-Defining Sports Movie With Babe Ruth Is Streaming For
13                                                       88-
14                                           Rockies' lows: 10th sweep; 3rd-fastest to 5
15                                              Judge, Ohtani lapping field in All-Star vo

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|---|---|
| 59 | June MLB games on ESPN: Yankees-Red Sox, Mets-Phillies, |
| 60 | L.A.'s Betts day-to-day after stubbing toe in mis |
| 61 | Yankees having Billy Joel bobblehead giveaway on July 11 vs. |
| 62 | Last Night in Baseball: Giancarlo Stanton is (Also) |
| 63 | Last Night in Baseball: The Yankees Have Lost 6 in a Row (But Weren't Shut Ou |
| 64 | UTA Signs Director D.J. Ca |
| 65 | Rangers catcher Heim exits early with hand inj |
| 66 | Torre to be honorary AL coach for All-Star |
| 67 | Dodgers, Yankees haven't 'skipped a beat' despite inju |
| 68 | 2025 MLB power rankings: Tigers jump, Dodgers best Yankees a |
| 69 | Yanks finally score, otherwise sputter in latest |
| 70 | Yanks' bats 'in a little rut,' blanked in 3rd stra |
| 71 | Guardians put Hedges on IL after 5th concus |
| 72 | In need of depth, Yanks call up vet RHP Carr |
| 73 | Yanks' Cabrera cites 'small possibility' he'll re |
| 74 | Aaron, Bret renew Boone Bowl in Yanks-Ran |
| 75 | Angels catcher O'Hoppe hit in head by backsw |
| 76 | Dominic Smith Opts Out Of Minor League Deal With Yan |
| 77 | NYC native Moore posts 1st MLB hit vs. Yan |
| 78 | Dodgers rout: LA scores most runs ever in a game against New |
| 79 | Yankees avoid getting swept by Dodgers despite hitless night from Aaron J |
| 80 | Yankees place reliever Cruz on IL due to shou |
| 81 | Yankees Planning To Place Luke Weaver On Injured |
| 82 | Cooper Hummel Triggers Release Clause In Deal With Yan |
| 83 | 20 Times 'SNL' Was Hosted by Two or More Pe |
| 84 | Yankees Considering Starts For Ben Rice At Cat |
| 85 | Yankees' Jake Cousins Dealing With Potential UCL In |
| 86 | Madhappy In the City (EXCLUS |
| 87 | It's a Polo Shirt Kind of Su |
| 88 | Dodgers vs. Yankees: Which team has the edge at each position? Here's our pi |
| 89 | Jazz is back! Chisholm Jr. hits a solo shot in injury return to help Yankees |
| 90 | Judge homers off Red Sox rookie after jab at Y |
| 91 | Yanks' Weaver gets PRP injection in hamst |
| 92 | Death of Gardner's son still under investiga |
| 93 | Dodgers' Betts (toe) progressing, eyes quick re |
| 94 | Yanks' Chisholm likely to play 3B as return n |
| 95 | Hard tag reignites Chisholm's feud with Ga |
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| 5 | Name: Nike Dunk Low "New York Yankees"SKU: IM2222-101Colorway: White/Midnight Navy- |

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7 Apple and Major League Baseball this week announced the July schedule for Friday Night Ba

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10 SummaryThe Colombian star revealed several tracks on Twitch last week.The album feat
11 Any Yankees fans still shedding tears over Juan Soto's Pinstripes

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15 Aaron Judge, the slugger who leads the majors in batting average, and Shohei
16 As the marl
17 Baseball meets AI in Google I,

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20 SummaryMadhappy has opened its doors to the brand's first-ever New York City flagsh

26 The Yankees announced today that they have selected the contract of left-hander Jay

29 Hunter Dobbi

35 On the heels of an early morning trade, here are three things we'll be keeping an e

41 Here are four things we'll be keeping an eye on around the baseball world throughou
42 Yankees manager Aaron Boone provided the media (including the New York Post's Greg

44 The Yankees have placed right-hander Carlos Carrasco on outright waivers, reports J

46 Right-hander Jake Woodford has opted out of his minor league deal with the Yankees

49    The Yankees are "aggressively" searching for a right-handed bat to add to their line
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51                          Diddy's federal jury in NYC is bringing in an alternate ... beca
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64    EXCLUSIVE: UTA has signed filmmaker D.J. Caruso for representation in all areas. Ca
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76    Dominic Smith has become a free agent after triggering the opt-out clause in his mi
77                          Los Angeles Angels second baseman Christian Moore, 22, a New York Cit
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79                                                        Ryan Yarbrough l
80                                            New York Yankees reliever
81    The Yankees expect to place closer Luke Weaver on the 15-day injured list, reports
82    Utility player Cooper Hummel has triggered a release clause in his minor league dea
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84    The Yankees are set to welcome Giancarlo Stanton back from the injured list in the
85    Yankees reliever Jake Cousins has yet to pitch in the majors this season due to a f
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90                          Aaron Judge hit one of his two home runs Sunday night off Red Sox rooki
91                                          Yankees closer Luke Weaver, who is out four to six

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| 1 | https://www.espn.com/mlb/story/_/id/4 |
| 2 | https://www.espn.com/mlb/story/_/id/45439 |
| 3 | https://www.espn.com/mlb/story/_/id/45399577/aaron-judge-s |
| 4 | https://www.espn.com/ |
| 5 | https://hypebea |
| 6 | https://www.espn.com/mlb/story/_/id/45545360, |
| 7 | https://www.macrumor |
| 8 | https://www.espn.com/mlb/story/_/id/45525302/major- |
| 9 | http://www.rollingstone.com/product-recommendations/ |
| 10 | https://hypebea |
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| 12 | https://www.slashfilm.com/1861749/gary-cooper- |
| 13 | https://lenta.ru/news/2025/06/16/v-seti-voshitil |
| 14 | https://www.espn.com/mlb/story/_/id/454 |
| 15 | https://www.espn.com/mlb/story/_/id/45526 |
| 16 | https://www.newyorker.c |
| 17 | https://www.searchenginejournal.com/g |
| 18 | https://www.espn.com/mlb/story/_/id/45517924/mlb-2025- |
| 19 | https://www.forbes.com/sites/larryfleisher/2025/06/06/new-york-yankees-bost |
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| 21 | https://www.forbes.com/sites/larryfleisher/2025/05/30/as-new-york-yankees-roll- |
| 22 | https://www.forbes.com/sites/larryfleisher/2025/06/15/yankees-experience-lost-weekend-in- |
| 23 | https://www.forbes.com/sites/danepstein/2025/06/18, |
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| 25 | https://www.forbes.com/sites/larryfleisher/2025/05/28/pitching-helps-n |
| 26 | https://www.mlbtra |
| 27 | https://www.espn.com/mlb/story/_/id/45241838/mlb-2025- |
| 28 | https://www.espn.com/mlb/story/_/id/45479935/2025-mlb-trade-dead |
| 29 | https://www.forbes.com/sites/larryfleisher/2025/06/09/hunter-dobbi |
| 30 | https://www.forbes.com/sites/tomlayberger/2025/06/18/versatile-o |
| 31 | https://www.forbes.com/sites/larryfleisher/2025/06/04/jazz-chisholm-jr-smiles |
| 32 | https://www.forbes.com/sites/johnperrotto/2025/05/23/aaron- |
| 33 | |
| 34 | https://www.espn.com/college-sports/story/_/id/45224328, |
| 35 | https://www.mlbtrade |
| 36 | https://www.forbes.com/sites/danepstein/2025/05/24/the-red-so |
| 37 | https://www.foxsports.com/ |
| 38 | https://www.espn.com/mlb/story/_/id/4 |

39                                                          https://www.espn.com/mlb/story/_/id

40   https://www.espn.com/mlb/story/_/id/45

41   https://www.mlbtraderumors.com/2

42   https://www.mlbtraderumors.com/20

43   https://www.forbes.com/sites/tomlayberger/2025/06/16/former-yankees-pitcher-sam-milit

44   https://www.mlbtraderumors.com/2025

45   https://www.espn.com/mlb/story/_/id/45544164

46   https://www.mlbtraderumors.com/2025/06/yankees-to-

47   https://www.foxsports.com/stories/mlb/tal

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52   https://www.foxsports.com/stories/mlb

53   https://www.espn.com/mlb/story/_/id/45434376/mlb-2025-early-trade-deadlin

54   https://www.foxsports.com/stories/mlb/dodgers-

55   https://www.espn.com/college-sports/story/_/id/45450537/college-baseball-sup

56   https://www.foxsports.com/stories/m

57   https://www.foxsports.com/stories/mlb/last-nigh

58   https://www.espn.com/mlb/story/_/id/45519614/aaron-judge

59   https://www.espn.com/mlb/story/_/id/45464

60   https://www.espn.com/mlb/story/_/

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63   https://www.foxsports.com/stories/mlb/last-

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65   https://www.espn.com/mlb/story/_/id/45260568/rangers

66   https://www.espn.com/mlb/story/_/id/

67   https://www.foxsports.com/storie

68   https://www.foxsports.com/stories/mlb/2025-mlb-power-rankings-tigers-rise-

69   https://www.espn.com/mlb/s

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78   https://www.foxsports.com/stories/mlb/d

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81   https://www.mlbtraderumors.com/2025/06/

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1    Jun 11, 2025, 07:48 PM ET\r\nBOSTON -- Red Sox rookie Hunter Dobbins made some headline
2    In a significant blow to the first-place New York Yankees, closer Luke Weaver is expect
3  Baseball fans were treated to a major showdown Friday night, as the Los Angeles Dodgers a
4  May 24, 2025, 09:25 PM ET\r\nDENVER -- Aaron Judge insisted he doesn't pay too much atten
5    Name: Nike Dunk Low "New York Yankees"SKU: IM2222-101Colorway: White/Midnight Navy-Pho
6    Jun 19, 2025, 03:59 PM ET\r\nARLINGTON, Texas -- Jac Caglianone has his first career ho
7    Apple and Major League Baseball this week announced the July schedule for Friday Night
8  Major League Baseball unveiled its uniforms for the 2025 All-Star Weekend on Monday, insp
```

9      If you purchase an independently reviewed product or service through a link on our webs

10     Summary\r\n<ul><li>The Colombian star revealed several tracks on Twitch last week.</li

11       Any Yankees fans still shedding tears over Juan Soto's Pinstripes departure can go a

12       "The Pride of the Yankees" was nominated for 11 Academy Awards that year, including

13

14       Another series, another sweep as the Colorado Rockies continue to make history for a

15     Jun 16, 2025, 06:50 PM ET\r\nAaron Judge and Shohei Ohtani, who have combined to win f

16       You pronounce John T. Jobbagys last name with the accent on the first syllable: Joe-

17     On March 29, 2025, the New York Yankees hit a franchise record nine home runs in one g

18     The Boston Red Sox might be the best embodiment of the emotional swings that teams go

19       New York Yankees' Aaron Judge runs to second base for a double during the fourth inn

20     Summary\r\n<ul><li>Madhappy has opened its doors to the brand's first-ever New York Ci

21     New York Yankees' Jazz Chisholm Jr. runs to first base during a baseball game against

22     New York Yankees' Aaron Judge reacts after striking out in the third inning of a baseb

23     New York Yankees' Aaron Judge walks to the dugout during the sixth inning of a baseball

24      Kim Ng, who became the first female GM in the history of major North American mens pr

25     New York Yankees starting pitcher Max Fried (54) in the sixth inning of a baseball gam

26        The Yankees announced today that they have selected the contract of left-hander Jay

27 May 22, 2025, 07:00 AM ET\r\nThe Detroit Tigers have continued their meteoric rise up our

28   More than a week into June, it's now too late to be early in the 2025 MLB season.\r\nWit

29  Boston Red Sox pitcher Hunter Dobbins did not allow a walk or get a strikeout in his Yan

30      NEW YORK: José Caballero and Jonathan Aranda of the Tampa Bay Rays celebrate after d

31      New York Yankees' Jazz Chisholm Jr. follows through on a single during the fifth inn

32   New York Yankees' Aaron Judge during the first inning of a baseball game against the N

33       { window.open(this.href, '_blank'); }, 200); return false;"&gt;Why did airlines scr

34     There was the Siege of Constantinople in 717. There was the Philadelphia Election Riot

35  On the heels of an early morning trade, here are three things we'll be keeping an eye on

36      New York Mets' Luis Torrens, left, is tagged out by Boston Red Sox catcher Carlos Na

37      The New York Yankees and Boston Red Sox will square off for the first time in the 20

38     AARON JUDGE LAUGHED when I asked him about nap time. He's got a four-month-old daught

39 Jun 10, 2025, 11:34 AM ET\r\nYankees slugger Giancarlo Stanton will begin a rehab assign

40   Fingers seemingly crossed, New York Yankees manager Aaron Boone implied good news is r

41 Here are four things we'll be keeping an eye on around the baseball world throughout the

42      Yankees manager Aaron Boone provided the media (including the New York Post's Greg J

43 Sam Militello hugs a player after the University of Tampa won the Division-II national c

44      The Yankees have placed right-hander Carlos Carrasco on outright waivers, reports Jo

45   Jun 19, 2025, 11:19 AM ET\r\nThe New York Yankees placed reliever Yerry de los Santos o

46       Right-hander Jake Woodford has opted out of his minor league deal with the Yankees

47      In the end, this was just another regular season series with brighter lights. But ma

48   The New York Yankees are the most successful professional franchise in the history of

49      The Yankees are "aggressively" searching for a right-handed bat to add to their line

50     The New York Yankees' offense is drifting toward uncharted territory and not in a good

51     Diddy's federal jury in NYC is bringing in an alternate ... because a juror has just be

52    The New York Yankees had seven months to think about their fifth-inning collapse in Ga

53    The calls began in recent days, cursory in nature but loaded with meaning. MLB trade c

54    Mookie Betts was out of the Los Angeles Dodgers lineup against the New York Yankees on

55    The opening weekend of the NCAA baseball tournament is in the books, and it was an enti

56    It was a nightmare offseason for the defending American League champion Yankees. \r\nIr

57    There is always baseball happening almost too much baseball for one person to handle th

58    BOSTON -- Aaron Judge blamed himself for swinging at pitches outside the strike zone as

59    ESPN's "Sunday Night Baseball" presented by Capital One heats up during the month of Ju

60    May 30, 2025, 08:17 PM ET\r\nLOS ANGELES -- Mookie Betts is out of the Los Angeles Dodg

61    "The Piano Man" will be commemorated at Yankee Stadium this summer, as the New York

62    There is always baseball happening almost too much baseball for one person to handle th

63    There is always baseball happening almost too much baseball for one person to handle th

64    EXCLUSIVE:UTA has signed filmmaker D.J. Caruso for representation in all areas.\r\nCaru

65    May 21, 2025, 09:05 PM ET\r\nNEW YORK -- Texas Rangers catcher Jonah Heim left Wednes

66    Hall of Fame manager Joe Torre, who guided the New York Yankees to four World Series

67    The Los Angeles Dodgers and New York Yankees continue their three-game series this Satu

68    The Phillies vaulted into the top spot in our power rankings for the first time only to

69    NEW YORK -- The good news for the Yankees on Wednesday was they scored a run after 30 o

70    NEW YORK -- For nearly three months, the New York Yankees arguably had the best offense

71    CLEVELAND -- Guardians catcher Austin Hedges has been placed on the seven-day concussio

72    LOS ANGELES -- The New York Yankees, in need of a fresh arm after Saturday's blowout lo

73    NEW YORK -- Less than a month after undergoing surgery on a fractured left ankle, Oswal

74    NEW YORK -- For the first time in two decades, the Boone brothers will be in opposite d

75    May 27, 2025, 01:17 AM ET\r\nANAHEIM, Calif. -- Angels catcher Logan O'Hoppe left Monda

76    Dominic Smith has become a free agent after triggering the opt-out clause in his mino

77    Jun 17, 2025, 01:25 AM ET\r\nNEW YORK -- Christian Moore's first visit to Yankee Stadiu

78    Max Muncy hit two three-run homers and tied his career high with seven RBIs, helping t

79    Ryan Yarbrough limited baseballs best offense to four hits over six innings, Ben Ric

80    May 22, 2025, 12:16 PM ET\r\nNEW YORK -- New York Yankees reliever Fernando Cruz was pl

81    The Yankees expect to place closer Luke Weaver on the 15-day injured list, reports Je

82    Utility player Cooper Hummel has triggered a release clause in his minor league deal

83    Technically its 21, because the Smothers Brothers did it twice. Sue us.\r\nThe 11th epi

84    The Yankees are set to welcome Giancarlo Stanton back from the injured list in the re

85    Yankees reliever Jake Cousins has yet to pitch in the majors this season due to a fle

86    Madhappy, the sunny-go-lucky Californian clothing label, is finally heading back east t

87    Move over, tank tops. There's a new shirt of the summer in town, and it's surprisingly

88    Player by player, the New York Yankees and Los Angeles Dodgers feature two of the most hi

89    Jazz Chisholm Jr. hit a tiebreaking home run in his return from a month on the injure

90    NEW YORK -- The Yankees-Red Sox rivalry, a historic feud running on fumes in recent yea

91    NEW YORK -- Yankees closer Luke Weaver had a platelet rich plasma injection in his in

92    Jun 12, 2025, 05:27 PM ET\r\nMore than two months after the death of Miller Gardner, t

93    LOS ANGELES -- Sunday marked the first time Los Angeles Dodgers shortstop Mookie Bett

94    NEW YORK -- Yankees infielder Jazz Chisholm Jr. could be reinstated from the injured

**Question 3: Building a function to search the API**

This function will take some inputs in order to build the URL to search from the api on News API. The inputs will be the subject to search for, the date to search from (should be in YYYY-MM-DD format, will search to present), followed by the API key.

The function will then output a data frame with the article information.

We are going to test by searching for "gamestop" from May 19, 2025 to present.

```
build_newsapi_url <- function(subject, start_date, api_key) {
  #base url from website
  base_url <- "https://newsapi.org/v2/everything?"

  #checking date format is correct - make a stop if incorrect format
 is_valid_date <- function (dates){
   grepl("^\\d{4}-\\d{2}-\\d{2}$", dates)
 }
  if (!is_valid_date(start_date)){
    stop("start_date must be in 'yyyy-mm-dd' format")
  }


  #construct the full url
  url <- paste0(base_url,
                "q=", subject,
                "&from=", start_date,
                "&apikey=", api_key)

  #now call the api
  topic_search <- httr::GET(url)

  #take the data using `fromJSON` to make readable
  parsed_topic_search <- fromJSON(rawToChar(topic_search$content))
  #make the results a tibble
  search_results <- as_tibble(parsed_topic_search)
  #call the article df from the previous tibble
  search_results$articles
}
```

```r
build_newsapi_url("gamestop", "2025-06-12", "e09f041046584e7c85072592a8add194")
```

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2       <NA>          Gizmodo.com
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20      <NA>           Technews.tw
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32      <NA>                Itc.ua
33      <NA>        Overclockers.ru
34      <NA>                Forbes
35      <NA>              PC Games
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48    <NA>           Cointelegraph
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53    <NA>               Ferra.ru
54    <NA>        Android Headlines
55    <NA>                    CNA
56    <NA>     Yahoo Entertainment
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59    <NA>       My Nintendo News
60    <NA>              Bitcoinist
61    <NA>     Yahoo Entertainment
62    <NA>     Yahoo Entertainment
63    <NA>               PC Games
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66    <NA>             Thefly.com
67    <NA>     Yahoo Entertainment
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82    <NA>                 Forbes
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16                                          $1.4 million worth of Switch 2 consoles stolen from semi-tr
2,800 consoles were en route from Nintendo of America HQ to a GameStop store in Texas
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36 Prediction: Down 66% From All-Time Highs, GameStop Could Be on the Verge of Going Paraboli
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56                                                                          GameStop shares plu

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65                                           GME Tumbles After GameStop

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konsoler värda miljoner borta

69                                                                     GameStop shares plu

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72                        Forget the $100 and $130 Deluxe editions, Borderlands 4 has a "

73                                                           GameStop Handing $4,500,000 To

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What's Next?

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88   Prediction: Down 66% From All-Time Highs, GameStop Could Be on the Verge of Going Parabol

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Get Free Report) traded up 3.5% during mid-day trading on Friday . The stock traded as high a
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Get Free Report)'s stock had its "underperform" rating reiterated by equities research analys
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Free Report) by 100.6% in the first quarter, HoldingsChannel.com reports. The institutional i
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Free Report) - Equities researchers at Wedbush increased their Q2 2026 earnings per share est
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Free Report) - Equities research analysts at Wedbush decreased their Q1 2027 EPS estimates fo
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93          NS2                      \r\n·       GameStop --       ns2
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but SharpLink Gaming's fall takes the cake on a busy week.

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16 https://www.tomshardware.com/video-games/nintendo/usd1-4-million-worth-of-switch-2-conso
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35                                    https://www.pcgames.de/Nintendo-Switch-2-
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38                                              https://www.bild.de/unterha
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72 https://www.gamesradar.com/games/borderlands/forget-the-usd100-and-usd130-deluxe-editions-
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1              Cohen has said that continuing to focus on trading cards, including the incredi
2           The Switch 2 is in pretty high demand. Like, so high that it's leading to cartoo
3           If you click 'Accept all', we and our partners, including 238 who are part of th
4        GameStop is leaning heavily to trading cards as part of it's future strategy, acco
5         <ul><li>In a high-stakes heist, thieves stole 2,810 units of the newly released
6           El robo más espectacular en lo que llevamos de junio ha tenido una víctima poco
7   GameStop\r\n is doubling-down on trading cards.\r\nIn its 2025 Annual Meeting\r\n, CEO
8           If you click 'Accept all', we and our partners, including 240 who are part of th
9         You wake up at 1 am to score a pre-order. You put yourself in manageable debt to
10        After the massive flop that was the Wii U, consumers had every reason to believe
11          { window.open(this.href, '_blank'); }, 200); return false;"&gt;Why did Metaplan
12          Its been a long eight years since The Legend of Zelda Collectors Edition Chess
13        What just happened? Thieves have made off with almost 3,000 Switch 2 consoles aft
14          If you click 'Accept all', we and our partners, including 240 who are part of t
15              Switch 2 2810 Switch 2 140 HK$1,092 \r\n 6 8 8 Bennett Switch 2 Redmond G
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59      A delivery truck driver had a nasty surprise earlier today in Colorado when he

60      GameStop has told investors it plans to raise $1.75 billion through convertible

61      US stocks pulled back on Thursday as more data showed milder inflation pressures,

62      US stocks edged higher on Thursday as more data showed milder inflation pressures,

63      Mit dem rasanten Fortschritt von Künstlicher Intelligenz geraten Arbeitsbedingung

64      So called crypto treasury companies, public firms that focus on acquiring digital

65      GameStop (GME) stocks are falling following the announcement of a proposal to pote

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67      NEW YORK (AP) U.S. stock indexes ticked higher on Thursday following another encou

68      Det var den 8 juni som Arapahoes poliskontor i Colorado, USA, larmades till en ra

69      GameStop shares plummet 20% as the video-game retailer announces new capital ra

70      GameStop stock tumbled Thursday on a $1.75 billion offering, potentially for bi

71      Nintendo Switch 2 stock is springing back into action this week, with planned re

72      Borderlands 4\r\n is going to have $70, $100, and $130 versions available, depending

73      GameStop is preparing to distribute millions of dollars to customers to settle all

74      How Bitcoin rose amid soaring US debt \r\nWhile Washington, DC printed trillions, Bit

75      At 9:36 am ET, the company's shares

76      In This Article:Key Points-CEO Ryan Cohen has helped stabilize GameStop's busine

77      In This Article:Key Points-GameStop's profits have improved, but sales continue

78      In This Article:Key Points-GameStop announced the company is raising more capit

79      GameStop Corp. (NYSE:GME - Get Free Report) traded up 3.5% during mid-day tradin

80      GameStop (NYSE:GME - Get Free Report)'s stock had its "underperform" rating reit

81      It's been 8 years since the original The Legend of Zelda chess set was released

82      Independence Day isnt until next month, but some of the best 4th of July sales a

83      UMB Bank n.a. grew its holdings in GameStop Corp. (NYSE:GME -
Free Report) by 100.6% in the first quarter, HoldingsChannel.com reports. The institutional

84      In brief\r\n<ul><li>GameStop upsized its latest offering of convertible senior note

85      In This Article:GameStop (GME) stock plummeted as much as 19% in early trading

86      Shares of GameStop Corp (NYSE:GME) are falling Thursday after the company annou

87      GameStop Corp. (NYSE:GME - Free Report) - Equities researchers at Wedbush increa

88      Prediction: Down 66% From All-Time Highs, GameStop Could Be on the Verge of Goi

89      A cryptocurrency named after GameStop Corp. (NYSE:GME) blasted to triple-digit g

90      Shares of GameStop, the video game retailer that recently pivoted to Bitcoin in

91      GameStop Corp. (NYSE:GME - Free Report) - Equities research analysts at Wedbush

92      GameStop (NYSE:GME) has outperformed the market over the past 5 years by 67.1%

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94      La cadena minorista de videojuegos y electrónica de consumo GameStop aumentó su

95      In This Article:We recently published a list of Investors Are Dumping These 10 S

96      GameStop says it plans to focus on the trading-card business moving forward. Th

97      La tendencia de establecer reservas estratégicas de Bitcoin a menudo beneficia a

98

99      In brief\r\n<ul><li>Circle's stock surged again Friday as signs of stablecoin inte