

# 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 ellipses
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)  
)
```

```
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**

```
URL_sports_headlines <- "https://newsapi.org/v2/everything?q=Yankees&source=us&apiKey=e09f04c8-67d0-4e00-a000-000000000000"

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

```
#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 01:06:55"
$ times      : Named num [1:6] 0 1.19 1.22 1.25 1.5 ...
..- 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 | time      | Time                  |
| 24 | <NA>      | Forbes                |
| 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             |
| 41 | <NA>       | MLB Trade Rumors |
| 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       |
| 48 | <NA>       | MLB Trade Rumors |
| 49 | fox-sports | Fox Sports       |
| 50 | fox-sports | Fox Sports       |
| 51 | <NA>       | TMZ              |
| 52 | fox-sports | Fox Sports       |
| 53 | espn       | ESPN             |
| 54 | fox-sports | Fox Sports       |
| 55 | fox-sports | Fox Sports       |
| 56 | fox-sports | Fox Sports       |
| 57 | espn       | ESPN             |
| 58 | espn       | ESPN             |
| 59 | fox-sports | Fox Sports       |
| 60 | fox-sports | Fox Sports       |
| 61 | fox-sports | Fox Sports       |
| 62 | espn       | ESPN             |
| 63 | espn       | ESPN             |
| 64 | <NA>       | Deadline         |
| 65 | espn       | ESPN             |
| 66 | espn       | ESPN             |
| 67 | fox-sports | Fox Sports       |
| 68 | fox-sports | Fox Sports       |
| 69 | espn       | ESPN             |
| 70 | espn       | ESPN             |
| 71 | espn       | ESPN             |
| 72 | espn       | ESPN             |
| 73 | espn       | ESPN             |
| 74 | espn       | ESPN             |
| 75 | espn       | ESPN             |
| 76 | <NA>       | MLB Trade Rumors |
| 77 | espn       | ESPN             |
| 78 | fox-sports | Fox Sports       |

|    |            |                  |
|----|------------|------------------|
| 79 | fox-sports | Fox Sports       |
| 80 | espn       | ESPN             |
| 81 | <NA>       | Cracked.com      |
| 82 | <NA>       | MLB Trade Rumors |
| 83 | <NA>       | MLB Trade Rumors |
| 84 | <NA>       | MLB Trade Rumors |
| 85 | <NA>       | MLB Trade Rumors |
| 86 | <NA>       | Highsnobiety     |
| 87 | <NA>       | Highsnobiety     |
| 88 | fox-sports | Fox Sports       |
| 89 | fox-sports | Fox Sports       |
| 90 | espn       | ESPN             |
| 91 | espn       | ESPN             |
| 92 | espn       | ESPN             |
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Dobbins defends claim father played for Yanl  
Sources: Yankees closer Weaver out 4-6 w  
Aaron Judge and Shohei Ohtani both blast home runs in first inning of Yankees-Dodg  
Judge, 18 HRs, insists he's still 'work in progr  
This Nike Dunk Low Roots for the "New York Yank  
Jac jack: Royals' Caglianone belts first ML  
Apple TV+ Announces MLB Friday Night Baseball Schedule for J  
MLB reveals uniforms for 2025 All-Star Game, Home Run De  
Yankees vs. Dodgers: How to Watch the World Series Rema  
Feid Surprises His Fans With 'FERXXO VOL X: Sagra  
Cody Bellinger's Dad Says Yankees' Offseason Haul Better Than Keeping Juan S  
Gary Cooper's Genre-Defining Sports Movie With Babe Ruth Is Streaming For M  
88-  
Rockies' lows: 10th sweep; 3rd-fastest to 50  
Judge, Ohtani lapping field in All-Star vot

16 The Meatpacking District Packs I  
 17 Google I/O 2025: The Background Google Didn't Tell You via @sejournal, @MordyObers  
 18 The 7 MLB execs under the most pressure at the trade dead  
 19 New York Yankees, Boston Red Sox Renew Rivalry In Differing Spots In The AL  
 20 Madhappy Opens First New York City Flag  
 21 As New York Yankees Roll Into Dodger Stadium, They Are Getting Positive Injury  
 22 Yankees Experience Lost Weekend In Boston And Then See Rafael Devers Moved Out Of The AL  
 23 Kim Ng Made Baseball History. Now She's Taking On Soft  
 24 The Yankees Offense Has Completely Stopped Producing  
 25 Pitching Helps New York Yankees Complete One-Third Of Season In Good S  
 26 Yankees Select Jayvien Sandr  
 27 MLB Power Rankings: A brand-new team debuts at N  
 28 What all 30 MLB teams must do before the trade dead  
 29 Hunter Dobbins Enters Red Sox-Yankee Rivalry With Unique Pitching  
 30 Versatile Offense And Stingy Pitching Fuel Tampa Bay Rays' S  
 31 Jazz Chisholm Jr. Smiles His Way Through A Smooth Return For The New York Yan  
 32 Aaron Judge Living Up To Preferred 'Hitter' Label With .396 Avera  
 33 Carlos Carrasco rejoins the Yankees to bolster depleted bull  
 34 The gauntlet of the SEC baseball tournament and what to know going  
 35 The Opener: Burnes, Yankees, Black  
 36 The Red Sox Swindled The Yankees Out Of A Potential All-Star Cat  
 37 Yankees vs. Red Sox: Historic MLB rivalry by the num  
 38 Pride of the Yankees: Three days with Aaron Judge on the road to immorta  
 39 Yankees' Stanton to begin rehab assign  
 40 Stanton continues to progress as Yanks optimis  
 41 The Opener: Yankees, Nationals, Verlander, Shee  
 42 Yankees Notes: Weaver, Stanton, Rice, Stroman, V  
 43 Former Yankees Pitcher Sam Militello Has Had A 'Rewarding' 25 Years With The Tampa Spar  
 44 Yankees Place Carlos Carrasco On Outright Wai  
 45 Yankees place RHP de los Santos (elbow) on  
 46 Yankees To Select Carlos Carrasco; Jake Woodford Triggers Opt  
 47 Yankees' struggles, Dodgers' depth, and big homers: The World Series reunion had it  
 48 Yankees Reportedly Interested In Right-Handed Bat, Rotation  
 49 Who are the top 10 New York Yankees of all t  
 50 Yankees call players only meeting to address 3 straight scoreless lo  
 51 Diddy Trial Juror Dismissed by Judge Over Residency I  
 52 Yankees vs. Dodgers top questions: What's at stake in this star-studded ser  
 53 Passan's early MLB trade deadline preview: Latest intel on all 30 t  
 54 Dodgers' Mookie Betts is day-to-day after injuring his left toe in mi  
 55 2025 MLB odds: Back Yankees to win American Lea  
 56 Last Night in Baseball: Yankees give New York fans something to cheer ab  
 57 Preview: Top storylines, prospects and major leaguers for all t  
 58 Judge 1-for-12 as NY swept: Got to swing at str

59 Yankees having Billy Joel bobblehead giveaway on July 11 vs. C  
 60 Last Night in Baseball: Giancarlo Stanton is (Also) I  
 61 Last Night in Baseball: The Yankees Have Lost 6 in a Row (But Weren't Shut Ou  
 62 June MLB games on ESPN: Yankees-Red Sox, Mets-Phillies, m  
 63 L.A.'s Betts day-to-day after stubbing toe in mis  
 64 UTA Signs Director D.J. Can  
 65 Rangers catcher Heim exits early with hand in  
 66 Torre to be honorary AL coach for All-Star C  
 67 Dodgers, Yankees haven't 'skipped a beat' despite injur  
 68 2025 MLB power rankings: Tigers jump, Dodgers best Yankees ag  
 69 Yanks finally score, otherwise sputter in latest I  
 70 Yanks' bats 'in a little rut,' blanked in 3rd stra  
 71 Guardians put Hedges on IL after 5th concuss  
 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 backsv  
 76 Dominic Smith Opts Out Of Minor League Deal With Yanl  
 77 NYC native Moore posts 1st MLB hit vs. Yanl  
 78 Dodgers rout: LA scores most runs ever in a game against New Y  
 79 Yankees avoid getting swept by Dodgers despite hitless night from Aaron Ju  
 80 Yankees place reliever Cruz on IL due to shoul  
 81 20 Times 'SNL' Was Hosted by Two or More Peo  
 82 Yankees Planning To Place Luke Weaver On Injured I  
 83 Cooper Hummel Triggers Release Clause In Deal With Yanl  
 84 Yankees Considering Starts For Ben Rice At Cat  
 85 Yankees' Jake Cousins Dealing With Potential UCL Inj  
 86 Madhappy In the City (EXCLUS  
 87 It's a Polo Shirt Kind of Sur  
 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 hamstr  
 92 Death of Gardner's son still under investigat  
 93 Dodgers' Betts (toe) progressing, eyes quick re  
 94 Yanks' Chisholm likely to play 3B as return ne  
 95 Hard tag reignites Chisholm's feud with Gar

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 5 Name: Nike Dunk Low "New York Yankees"SKU: IM2222-101Colorway: White/Midnight Navy-I

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

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10 SummaryThe Colombian star revealed several tracks on Twitch last week.The album features

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 Ohtani.

16 As the marlin is released, the Yankees are looking for a new closer.

17 Baseball meets AI in Google I/O.

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

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

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29 Hunter Dobbin.

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

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

42 Yankees manager Aaron Boone provided the media (including the New York Post's Greg Gumbel) with a

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44 The Yankees have placed right-hander Carlos Carrasco on outright waivers, reports Jon Heyman.

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

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48 The Yankees are "aggressively" searching for a right-handed bat to add to their lineup.



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Diddy's federal jury in NYC is bringing in an alternate ... beca

EXCLUSIVE: UTA has signed filmmaker D.J. Caruso for representation in all areas. Car

Dominic Smith has become a free agent after triggering the opt-out clause in his mi  
Los Angeles Angels second baseman Christian Moore, 22, a New York Ci

Ryan Yarbrough 1.  
New York Yankees reliever M

The Yankees expect to place closer Luke Weaver on the 15-day injured list, reports .  
Utility player Cooper Hummel has triggered a release clause in his minor league dea  
The Yankees are set to welcome Giancarlo Stanton back from the injured list in the m  
Yankees reliever Jake Cousins has yet to pitch in the majors this season due to a f

Aaron Judge hit one of his two home runs Sunday night off Red Sox rookie  
Yankees closer Luke Weaver, who is out four to six w

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More than 1  
Dodgers shortstop

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[https://www.espn.com/mlb/story/\\_/id/4543957/aaron-judge-slams-dodgers-shortstop](https://www.espn.com/mlb/story/_/id/4543957/aaron-judge-slams-dodgers-shortstop)  
[https://www.espn.com/mlb/story/\\_/id/4543957/aaron-judge-slams-dodgers-shortstop](https://www.espn.com/mlb/story/_/id/4543957/aaron-judge-slams-dodgers-shortstop)  
[https://www.espn.com/mlb/story/\\_/id/45399577/aaron-judge-slams-dodgers-shortstop](https://www.espn.com/mlb/story/_/id/45399577/aaron-judge-slams-dodgers-shortstop)  
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| 3  | 2025-05-31T03:36:18Z |
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| 5  | 2025-05-28T04:21:59Z |
| 6  | 2025-06-19T20:07:07Z |
| 7  | 2025-06-06T17:24:59Z |
| 8  | 2025-06-16T21:20:44Z |
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74 2025-05-20T23:51:54Z  
75 2025-05-27T05:35:41Z  
76 2025-06-01T21:34:24Z  
77 2025-06-17T05:37:20Z  
78 2025-06-01T04:08:44Z  
79 2025-06-02T04:06:43Z  
80 2025-05-22T16:38:29Z  
81 2025-06-18T14:00:00Z  
82 2025-06-03T03:04:51Z  
83 2025-05-23T00:49:31Z  
84 2025-06-12T03:01:43Z  
85 2025-06-12T14:39:07Z  
86 2025-06-03T15:49:08Z  
87 2025-05-31T16:48:18Z  
88 2025-05-29T22:24:42Z  
89 2025-06-04T03:05:58Z  
90 2025-06-09T04:39:28Z  
91 2025-06-06T22:25:49Z  
92 2025-06-12T21:37:38Z  
93 2025-06-01T22:36:56Z  
94 2025-05-31T02:26:03Z  
95 2025-06-11T05:07:41Z

1 Jun 11, 2025, 07:48 PM ET\r\nBOSTON -- Red Sox rookie Hunter Dobbins made some headlines  
2 In a significant blow to the first-place New York Yankees, closer Luke Weaver is expected  
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 attention  
5 Name: Nike Dunk Low "New York Yankees"SKU: IM2222-101Colorway: White/Midnight Navy-Ph  
6 Jun 19, 2025, 03:59 PM ET\r\nARLINGTON, Texas -- Jac Caglianone has his first career home run  
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, inspi



9 If you purchase an independently reviewed product or service through a link on our web  
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 al  
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 t  
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 t  
22 New York Yankees' Aaron Judge reacts after striking out in the third inning of a baseba  
23 Kim Ng, who became the first female GM in the history of major North American mens pro  
24 New York Yankees' Aaron Judge walks to the dugout during the sixth inning of a basebal  
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\nWi  
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 de  
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 assignm  
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 ch  
44 The Yankees have placed right-hander Carlos Carrasco on outright waivers, reports Joe  
45 Jun 19, 2025, 11:19 AM ET\r\nThe New York Yankees placed reliever Yerry de los Santos on  
46 Right-hander Jake Woodford has opted out of his minor league deal with the Yankees a  
47 In the end, this was just another regular season series with brighter lights. But mar  
48 The Yankees are "aggressively" searching for a right-handed bat to add to their liner  
49 The New York Yankees are the most successful professional franchise in the history of  
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 b

52 The New York Yankees had seven months to think about their fifth-inning collapse in G  
 53 The calls began in recent days, cursory in nature but loaded with meaning. MLB trade o  
 54 Mookie Betts was out of the Los Angeles Dodgers lineup against the New York Yankees on  
 55 It was a nightmare offseason for the defending American League champion Yankees. \r\nI  
 56 There is always baseball happening almost too much baseball for one person to handle th  
 57 The opening weekend of the NCAA baseball tournament is in the books, and it was an entir  
 58 BOSTON -- Aaron Judge blamed himself for swinging at pitches outside the strike zone as  
 59 "The Piano Man" will be commemorated at Yankee Stadium this summer, as the New York Y  
 60 There is always baseball happening almost too much baseball for one person to handle th  
 61 There is always baseball happening almost too much baseball for one person to handle th  
 62 ESPN's "Sunday Night Baseball" presented by Capital One heats up during the month of Ju  
 63 May 30, 2025, 08:17 PM ET\r\nLOS ANGELES -- Mookie Betts is out of the Los Angeles Dodg  
 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 Sat  
 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 offens  
 71 CLEVELAND -- Guardians catcher Austin Hedges has been placed on the seven-day concussi  
 72 LOS ANGELES -- The New York Yankees, in need of a fresh arm after Saturday's blowout l  
 73 NEW YORK -- Less than a month after undergoing surgery on a fractured left ankle, Oswa  
 74 NEW YORK -- For the first time in two decades, the Boone brothers will be in opposite o  
 75 May 27, 2025, 01:17 AM ET\r\nANAHEIM, Calif. -- Angels catcher Logan O'Hoppe left Monday  
 76 Dominic Smith has become a free agent after triggering the opt-out clause in his min  
 77 Jun 17, 2025, 01:25 AM ET\r\nNEW YORK -- Christian Moore's first visit to Yankee Stadi  
 78 Max Muncy hit two three-run homers and tied his career high with seven RBIs, helping th  
 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 p  
 81 Technically its 21, because the Smothers Brothers did it twice. Sue us.\r\nThe 11th ep  
 82 The Yankees expect to place closer Luke Weaver on the 15-day injured list, reports J  
 83 Utility player Cooper Hummel has triggered a release clause in his minor league deal  
 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 fl  
 86 Madhappy, the sunny-go-lucky Californian clothing label, is finally heading back east  
 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 h  
 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 ye  
 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, th  
 93 LOS ANGELES -- Sunday marked the first time Los Angeles Dodgers shortstop Mookie Bet  
 94 NEW YORK -- Yankees infielder Jazz Chisholm Jr. could be reinstated from the injured

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

```

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

  #checking date format is correct - just make a simple 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")
  }
  if (!is_valid_date(end_date)){
    stop("end_date must be in 'yyyy-mm-dd' format")
  }

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

  return(url)
}

```

```

build_newsapi_url("sports", "2025-06-12", "2025-06-15", "e09f041046584e7c85072592a8add194")

```

```

[1] "https://newsapi.org/v2/everything?q=sports&from=2025-06-12&to=2025-06-15&apikey=e09f041046584e7c85072592a8add194"

```

```

url

```

```

function (description, open = "", blocking = TRUE, encoding = getOption("encoding"),
  method = getOption("url.method", "default"), headers = NULL)
{
  method <- match.arg(method, c("default", "internal", "libcurl",

```

```

      "wininet"))
if (!is.null(headers)) {
  nh <- names(headers)
  if (length(nh) != length(headers) || any(nh == "") ||
      anyNA(headers) || anyNA(nh))
    stop("'headers' must have names and must not be NA")
  headers <- paste0(nh, ": ", headers)
  headers <- list(headers, paste0(headers, "\r\n", collapse = ""))
}
.Internal(url(description, open, blocking, encoding, method,
  headers))
}
<bytecode: 0x11e4a3708>
<environment: namespace:base>

```