

# Create and Format a Google Sheet Within R: Exercises



In this exercise set, we will practice using the Google Sheets package to create and manipulate a Google spreadsheet within R.

After completing this exercise set, you will be able to prepare a basic Google Sheets document using just R, leaving behind a reproducible R-script. Note that using Google Sheets is free of cost, but requires you have access to or create a Google account.

Solutions are available [here](#).

## Exercise 1

Install and load the Google Sheets package, along with its recommended pairing, dplyr. If you haven't already, take a look at [usage examples](#).

## Exercise 2

Authenticate your Google account and authorize Google Sheets to access your Google Drive.

## Exercise 3

Make a new empty sheet/spreadsheet called "iris\_r", containing a single worksheet called "test1."

## Exercise 4

Write the built-in Iris data.frame to the "test1" sheet using `gs_edit_cells()`.

## Exercise 5

Again, write the built-in Iris data.frame to a new worksheet "test2" directly with the function `gs_ws_new()`.

## Exercise 6

Now, write mtcars' first 5 rows to a new sheet called "test3", this time by using `gs_add_row()`. Note that it seems you first have to add a header and one row to the sheet, so you need to first use `gs_edit_cells()` to do that.

## Exercise 7

Create a new sheet called "My favorite R-ex" and add a hyperlink to any exercise set on R-exercises.com with the text "this."

## Exercise 8

Now, create a new sheet "test1b." Get the first four columns names from "test1" by linking to them. Then calculate their averages with Google Sheet formulas.

## Exercise 9

Use a Google Sheet function to extract the URL of your new document. This way, you can access it quickly in the future (or coworkers, once you have shared access.)

## Exercise 10

Turns out one of your coworkers doesn't want to create a Google account! Download the file as an Microsoft Excel document using R and the Google Sheet package.