

# How to Easily Read ZIP Files into R DataFrames

Authored by  
**stats writer**

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## RECOMMENDED CITATION

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Reading zip files in R can be done easily using the `read_zip()` function from the `readr` package. To illustrate, the following code reads a zip file containing a `.csv` file and stores the data in the dataframe `df`: `df <- read_zip("my_zip_file.zip") %>% read_csv()`

You can use the following basic syntax to read a ZIP file into R:

### **library(readr)**

```
#import data1.csv located within my_data.zip
df <- read_csv(unzip("my_data.zip", "data1.csv"))
```

The following example shows how to use this syntax in practice.

## **Example: How to Read Zip Files in R**

Suppose I have a ZIP file called **my\_data.zip** that contains the following three CSV files:

```
data1.csv
data2.csv
data3.csv
```

Assuming `my` contains this ZIP file, I can use the following syntax to display all files located within **my\_data.zip**:

```
#display all files in my_data.zip
unzip("my_data.zip", list = TRUE)
```

```
Name Length Date
1 data1.csv 37 2022-03-10 09:48:00
2 data2.csv 36 2022-03-10 09:49:00
3 data3.csv 34 2022-03-10 10:54:00
```

We can see the names of each file located within **my\_data.zip** along with their length and the date they were created.

Next, I can use the following syntax to import the dataset called **data1.csv** into a data frame in R:

### **library(readr)**

```
#read data1.csv into data frame
df1 <- read_csv(unzip("my_data.zip", "data1.csv"))
```

```
#view data frame
df1

# A tibble: 4 x 2
  team points
1 A 12
2 B 31
3 C 27
4 D 30
```

We can see that R successfully imported this CSV file into a data frame.

**Note:** You can find the complete documentation for the `read_csv()` function .

The following tutorials explain how to import other files in R: