```
library(readr)
 start_time <- Sys.time()</pre>
 unzip('flights.zip')
 ## Warning in unzip("flights.zip"): erro 1 na extração a partir de arquivo zip
 dadosreadr<- read_csv('flights.csv.zip')</pre>
 ## Rows: 5819079 Columns: 31
 ## — Column specification -
 ## Delimiter: ","
 ## chr (11): AIRLINE, TAIL_NUMBER, ORIGIN_AIRPORT, DESTINATION_AIRPORT, SCHEDUL...
 ## dbl (20): YEAR, MONTH, DAY, DAY_OF_WEEK, FLIGHT_NUMBER, DEPARTURE_DELAY, TAX...
 ## i Use `spec()` to retrieve the full column specification for this data.
 ## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
 end_time <- Sys.time()</pre>
 tempo_carregamento <- end_time - start_time</pre>
 print(tempo_carregamento)
 ## Time difference of 38.09677 secs
 head(dadosreadr)
 ## # A tibble: 6 × 31
    YEAR MONTH DAY DAY_OF_WEEK AIRLINE FLIGHT_NUMBER TAIL_NUMBER ORIGIN_AIRPORT
    <dbl> <dbl> <dbl> <dbl> <chr> <dbl> <chr> </pr>
                                                                   <chr>
                                       98 N407AS
 ## 1 2015 1 1
                                4 AS
                                                                    ANC
 ## 2 2015 1 1 4 AA 2336 N3KUAA LAX
                                4 US
                                                    840 N171US
 ## 3 2015
                                                   258 N3HYAA
 ## 4 2015
             1 1 4 AA
                                                    135 N527AS
 ## 5 2015
                                4 AS
                                                                    SEA
              1 1
 ## 6 2015
                                4 DL
                                                    806 N3730B
                                                                    SF0
 ## # i 23 more variables: DESTINATION_AIRPORT <chr>, SCHEDULED_DEPARTURE <chr>,
 ## # DEPARTURE_TIME <chr>, DEPARTURE_DELAY <dbl>, TAXI_OUT <dbl>,
      WHEELS_OFF <chr>, SCHEDULED_TIME <dbl>, ELAPSED_TIME <dbl>, AIR_TIME <dbl>,
       DISTANCE <dbl>, WHEELS_ON <chr>, TAXI_IN <dbl>, SCHEDULED_ARRIVAL <chr>,
       ARRIVAL_TIME <chr>, ARRIVAL_DELAY <dbl>, DIVERTED <dbl>, CANCELLED <dbl>,
       CANCELLATION_REASON <chr>, AIR_SYSTEM_DELAY <dbl>, SECURITY_DELAY <dbl>,
 ## # AIRLINE_DELAY <dbl>, LATE_AIRCRAFT_DELAY <dbl>, WEATHER_DELAY <dbl>
Time difference of 19.12769 secs
 start_time <- Sys.time()</pre>
 unzip('flights.zip')
 ## Warning in unzip("flights.zip"): erro 1 na extração a partir de arquivo zip
 dadosbase <- read.csv('flights.csv.zip')</pre>
 ## Warning in read.table(file = file, header = header, sep = sep, quote = quote, :
 ## line 1 appears to contain embedded nulls
 ## Warning in read.table(file = file, header = header, sep = sep, quote = quote, :
 ## linha final incompleta encontrada por readTableHeader em 'flights.csv.zip'
 end_time <- Sys.time()</pre>
 tempo_carregamento <- end_time - start_time</pre>
 print(tempo_carregamento)
 ## Time difference of 0.010252 secs
 head(dadosbase)
 ## [1] PK...
 ## <0 linhas> (ou row.names de comprimento 0)
Time difference of 57.79526 secs
 import time
 import pandas as pd
 ini = time.time()
 dados = pd.read_csv("flights.csv.zip", compression="zip", header=0, sep=",", low_memory=False)
 fim = time.time()
 fim - ini
```

## 65.40469217300415