>one-liners

 # 3 Packages to Boost Productivity

 # SatRday JHB 2019-04-06

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<5min

*Thanks !

Installation

```
> install.packages("beepr")

> install.packages("DataExplorer") #note Caps

> install.packages("tidylog")
```

Beepr

```
> beep(1)
> beep(4)
```

Sound plays!

Great to include @ end of long-running scripts

```
Console ~/  ➤

R version 3.5.1 (2018-07-02) -- "Feather Spray"
Copyright (C) 2018 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

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'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> library(beepr)
>
```
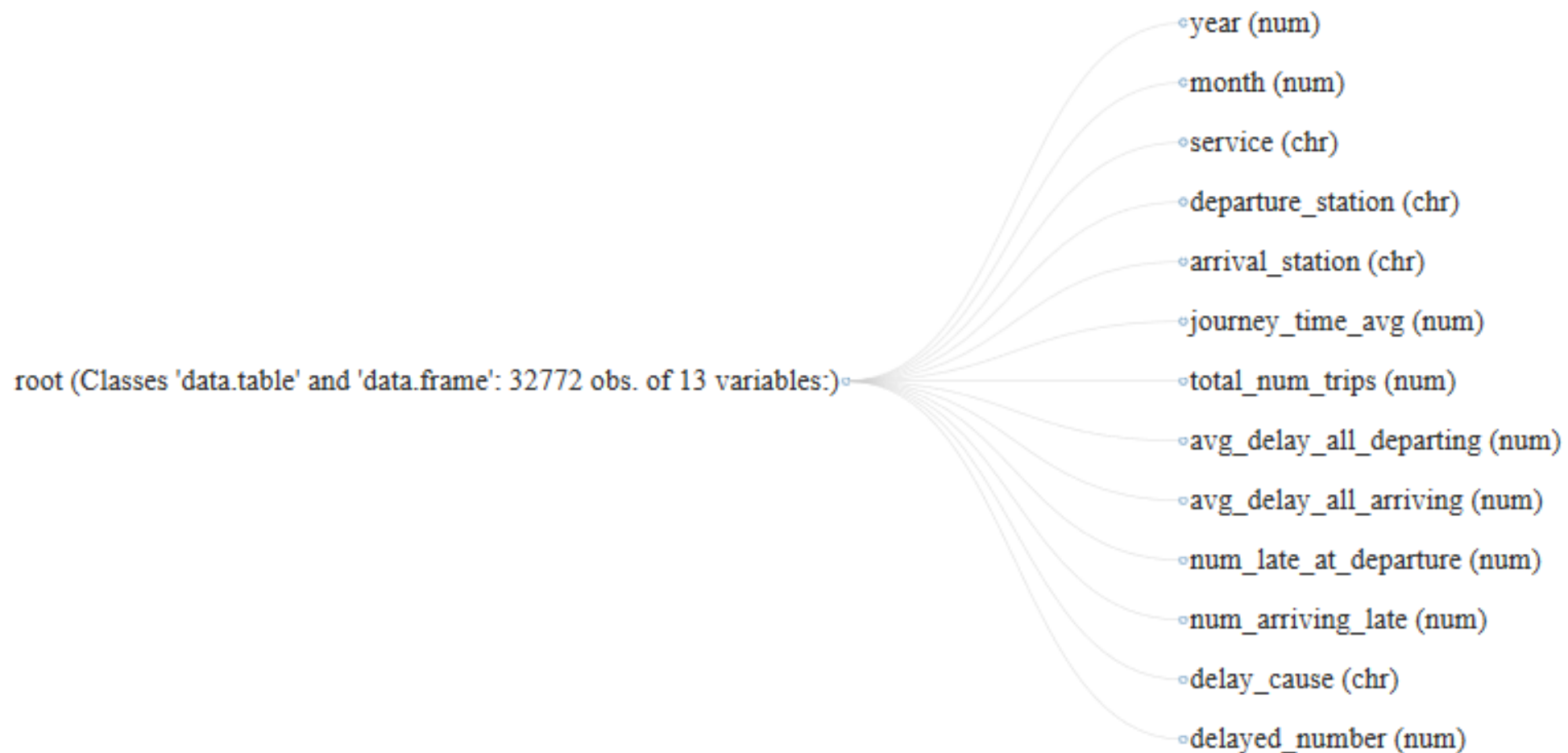
DataExplorer

```
> create_report(french_train_delays)
```

Basic Statistics

Raw Counts

Name	Value
Rows	32,772
Columns	13
Discrete columns	4
Continuous columns	9
All missing columns	0
Missing observations	9,654
Complete Rows	23,610
Total observations	426,036
Memory allocation	3.3 Mb

root (Classes 'data.table' and 'data.frame': 32772 obs. of 13 variables:)

- year (num)
- month (num)
- service (chr)
- departure_station (chr)
- arrival_station (chr)
- journey_time_avg (num)
- total_num_trips (num)
- avg_delay_all_departing (num)
- avg_delay_all_arriving (num)
- num_late_at_departure (num)
- num_arriving_late (num)
- delay_cause (chr)
- delayed_number (num)
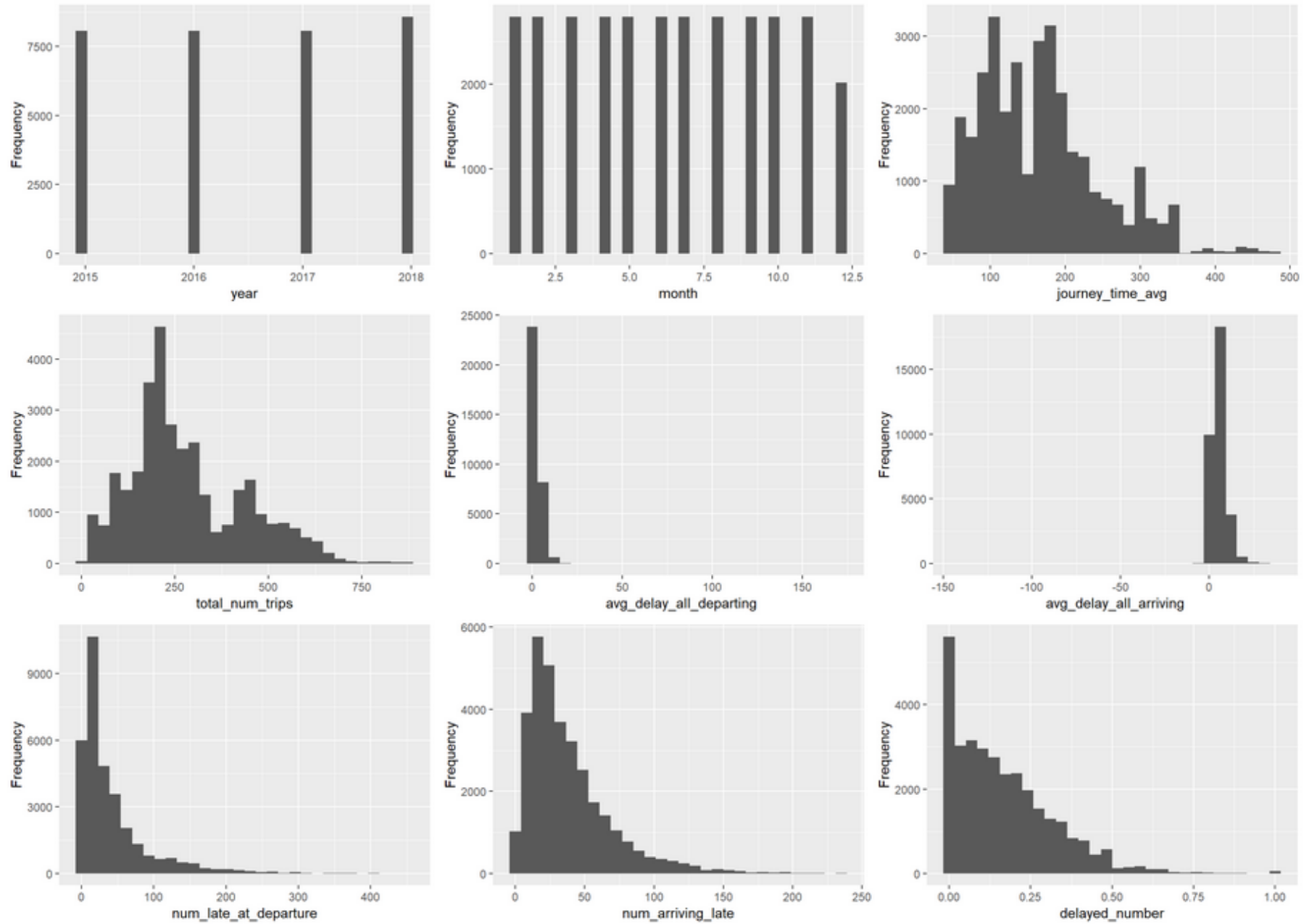
Missing Data Profile
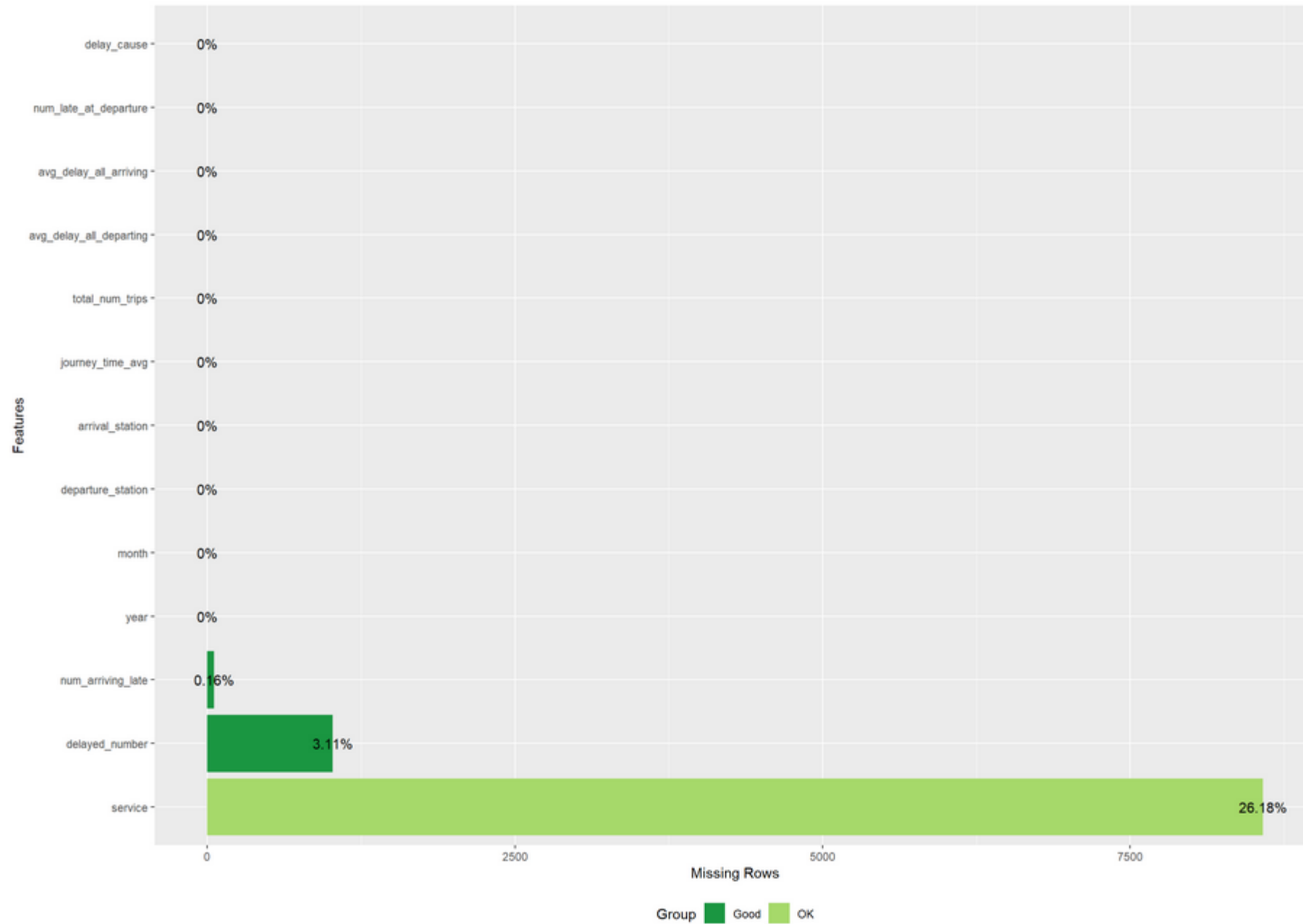
Univariate Distribution

Histogram

Tidylog 😍

```r
fam_games <- board_games %>%
    filter(min_age <= 5) %>%
    filter(max_playtime <= 30) %>%
    filter(users_rated >= 300)
```

filter: removed 9605 out of 10532 rows (91%)
filter: removed 342 out of 927 rows (37%)
filter: removed 486 out of 585 rows (83%)

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```

Other People's Rstats

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```
library(tidylog)
df %>% filter(a>10)
"filter: 15 rows removed (12%)"
```
4:07

City lights in 14
lines of R code
7:37

finding(Wilson)
A Twitter/RegEx
project in R
22:33

Shortcuts:

Run Code
#Un/comment
Switch to Script
Switch to Console
3:01

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```
read.csv(…) vs.
read_csv(…)

"_csv is MUCH faster!"
```
1:39

```
library(DataExplorer)
create_report(df)
```
8:37

```
library(beepr)
beep(4)

🔊 "work complete!"
```
5:10

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Thanks to EmojiOne for use of emoji :)