How Melbournians walk during COVID-19

Panagiotis Stylianos

2020-07-28

Introduction In this document we examine the walking frequency of Melburnians during the July lockdown.
The data are provided in the **rwalkr** package.

Plot of Total Steps per Day

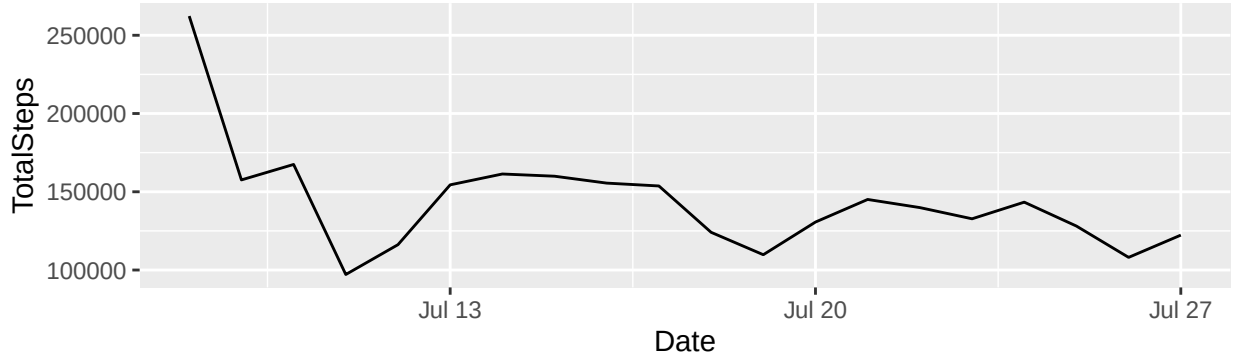

Table of five most active sensors

```
## # A tibble: 5 x 3
##   Sensor                                TotalSteps Proportion
##   <chr>                                      <int>      <dbl>
## 1 Flinders St-Elizabeth St (East)           228584       7.97
## 2 380 Elizabeth St                          165729       5.78
## 3 Flinders La-Swanston St (West)            160331       5.59
## 4 Town Hall (West)                          119530       4.17
## 5 Melbourne Central-Elizabeth St (East)     118594       4.13
```

Formula for proportion $y_i = x_i / \sum_{i=1}^{30240} x_i$

where x_i is the total steps monitored by this sensor, $sum_{i=1}^{30240} x_i$ is the total steps monitored by all sensors. and y_i is the proportion that each sensor contributed to the dataset.

Table of Packages and functions used in the report

Library	Functions
base	as.Date(), Sys.Date(), sum()
dplyr	group_by(), summarise(), mutate(), arrange()
ggplot2	ggplot(), aes(), geom_line()
rwalkr	melb_walk()