```r
library(dplyr)
library(ggplot2)
movements <- rio::import(file = "categories.xls")

library(lubridate)
movements %>%
  mutate(date_new = as.Date(movements$Date, origin = "1899-12-30")) %>%
  mutate(day_of_week = wday(date_new)) %>%
  mutate(month = month(date_new)) -> movements_clean

movements_clean %>%
  group_by(month) %>%
  summarise(number_of_movements = n(),
            sum_of_entries = sum (Income, na.rm = TRUE),
            sum_of_expenses = sum (Expenditure, na.rm = TRUE)) ->
monthly_summary


monthly_summary %>%
  ggplot(aes(x = month ,y = number_of_movements)) +
  geom_bar(stat = 'identity') +
  coord_flip()


monthly_summary %>%
  ggplot(aes(x = month ,y = sum_of_expenses)) +
  geom_bar(stat = 'identity') +
  coord_flip()
```

```r
monthly_summary %>%
  ggplot(aes(x = month ,y = sum_of_entries)) +
  geom_bar(stat = 'identity') +
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```

R Code .R

```r
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  mutate(day_of_week = wday(date_new)) %>%
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movements_clean %>%
  group_by(month) %>%
  summarise(number_of_movements = n(),
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            sum_of_expenses = sum (Expenditure, na.rm = TRUE)) -> monthly_summary




monthly_summary %>%
  ggplot(aes(x = month ,y = number_of_movements)) +
  geom_bar(stat = 'identity') +
  coord_flip()
```

Environment — Data

monthly_summary	3 obs. of 4 variables
movements	13 obs. of 3 variables
movements_clean	13 obs. of 6 variables

Console — R 4.1.2

```
> library(ggplot2)

> movements <- rio::import(file = "categories.xls")

> library(lubridate)

> movements %>%
+   mutate(date_new = as.Date(movements$Date, origin = "1899-12-30")) %>%
+   mutate(day_of_week = wday(date_new)) %>%
+   mutate(mont .... [TRUNCATED]

> movements_clean %>%
+   group_by(month) %>%
+   summarise(number_of_movements = n(),
+             sum_of_entries = sum (Income, na.rm = TRUE),
+     .... [TRUNCATED]

> monthly_summary %>%
+   ggplot(aes(x = month ,y = number_of_movements)) +
+   geom_bar(stat = 'identity') +
+   coord_flip()
```

Second window:

```r
library(dplyr)
library(ggplot2)
movements <- rio::import(file = "categories.xls")

library(lubridate)
movements %>%
  mutate(date_new = as.Date(movements$Date, origin = "1899-12-30")) %>%
  mutate(day_of_week = wday(date_new)) %>%
  mutate(month = month(date_new)) -> movements_clean

movements_clean %>%
  group_by(month) %>%
  summarise(number_of_movements = n(),
            sum_of_entries = sum (Income, na.rm = TRUE),
            sum_of_expenses = sum (Expenditure, na.rm = TRUE)) -> monthly_summary




monthly_summary %>%
  ggplot(aes(x = month ,y = number_of_movements)) +
  geom_bar(stat = 'identity') +
  coord_flip()


monthly_summary %>%
  ggplot(aes(x = month ,y = sum_of_expenses)) +
  geom_bar(stat = 'identity') +
  coord_flip()
```

Environment — Data

monthly_summary	3 obs. of 4 variables
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Console — R 4.1.2

```
> movements %>%
+   mutate(date_new = as.Date(movements$Date, origin = "1899-12-30")) %>%
+   mutate(day_of_week = wday(date_new)) %>%
+   mutate(mont .... [TRUNCATED]

> movements_clean %>%
+   group_by(month) %>%
+   summarise(number_of_movements = n(),
+             sum_of_entries = sum (Income, na.rm = TRUE),
+     .... [TRUNCATED]

> monthly_summary %>%
+   ggplot(aes(x = month ,y = number_of_movements)) +
+   geom_bar(stat = 'identity') +
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> monthly_summary %>%
+   ggplot(aes(x = month ,y = sum_of_expenses)) +
+   geom_bar(stat = 'identity') +
+   coord_flip()
```

File   Edit   Code   View   Plots   Session   Build   Debug   Profile   Tools   Help

Project: (None)

R Code .R

```
 6   movements %>%
 7     mutate(date_new = as.date(movements$Date, origin = "1899-12-30")) %>%
 8     mutate(day_of_week = wday(date_new)) %>%
 9     mutate(month = month(date_new)) -> movements_clean
10
11   movements_clean %>%
12     group_by(month) %>%
13     summarise(number_of_movements = n(),
14               sum_of_entries = sum (Income, na.rm = TRUE),
15               sum_of_expenses = sum (Expenditure, na.rm = TRUE)) -> monthly_summary
16
17
18
19
20
21   monthly_summary %>%
22     ggplot(aes(x = month ,y = number_of_movements)) +
23     geom_bar(stat = 'identity') +
24     coord_flip()
25
26
27   monthly_summary %>%
28     ggplot(aes(x = month ,y = sum_of_expenses)) +
29     geom_bar(stat = 'identity') +
30     coord_flip()
31
32
33   monthly_summary %>%
34     ggplot(aes(x = month ,y = sum_of_entries)) +
35     geom_bar(stat = 'identity') +
36     coord_flip()
37
```

21:20   (Top Level)   R Script

Environment   History   Connections   Tutorial

Import Dataset   275 MiB   List

R   Global Environment

Data

monthly_summary	3 obs. of 4 variables
movements	13 obs. of 3 variables
movements_clean	13 obs. of 6 variables

Console   Terminal   Jobs

R 4.1.2 · ~/

```
> movements_clean %>%
+   group_by(month) %>%
+   summarise(number_of_movements = n(),
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+   .... [TRUNCATED]

> monthly_summary %>%
+   ggplot(aes(x = month ,y = number_of_movements)) +
+   geom_bar(stat = 'identity') +
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> monthly_summary %>%
+   ggplot(aes(x = month ,y = sum_of_expenses)) +
+   geom_bar(stat = 'identity') +
+   coord_flip()

> monthly_summary %>%
+   ggplot(aes(x = month ,y = sum_of_entries)) +
+   geom_bar(stat = 'identity') +
+   coord_flip()
> |
```

Files   **Plots**   Packages   Help   Viewer

Zoom   Export   Publish