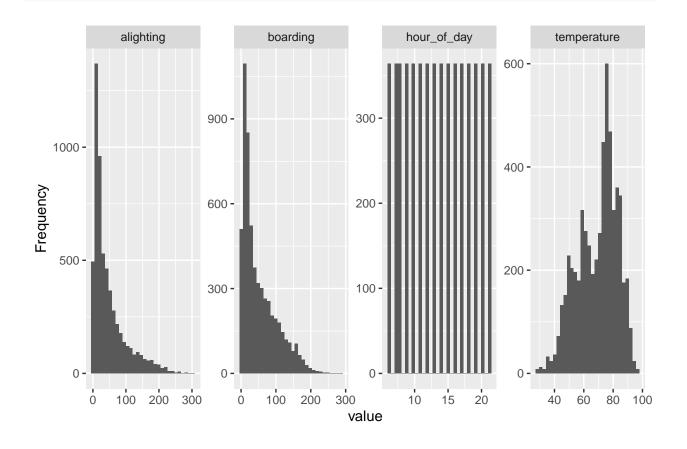
```
library(gridExtra)
library(ggplot2)
# library(dplyr)
library(tidyverse)
## -- Attaching packages
                                                        ----- tidyverse 1.3.2 --
## v tibble 3.1.7
                     v dplyr 1.0.9
## v tidyr
           1.2.0
                      v stringr 1.4.0
            2.1.2
                      v forcats 0.5.1
## v readr
            0.3.4
## v purrr
## -- Conflicts -----
                              ----- tidyverse_conflicts() --
## x dplyr::combine() masks gridExtra::combine()
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                     masks stats::lag()
library(DataExplorer)
#detach(package:plyr,unload=TRUE)
metro <- read.csv("capmetro_UT.csv")</pre>
# Looking at some distributions
ncols <- dplyr::select_if(metro, is.numeric)</pre>
```

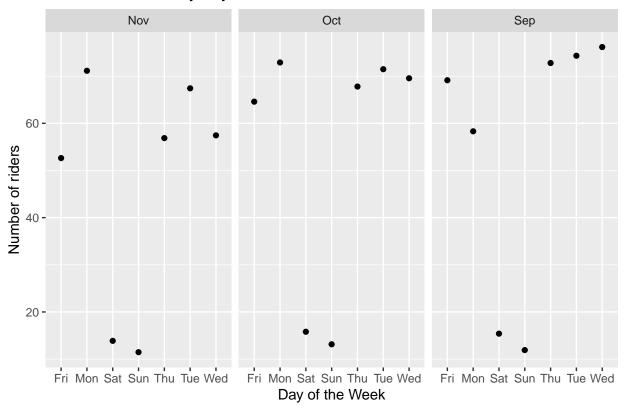
plot_histogram(ncols)



```
# Diving into riders analysis
library(tidyverse)
r1 = metro %>%
              group_by(hour_of_day) %>%
                summarize(riders = mean(boarding))
r2 = metro %>%
             group_by(hour_of_day) %>%
                summarize(riders = mean(alighting))
plot1 = ggplot(r1) + geom_line(aes(x=hour_of_day, y=riders)) +
                                  ggtitle("Number of people boarding")
plot2 = ggplot(r2) + geom_line(aes(x=hour_of_day, y=riders)) +
                                  ggtitle("Number of people alighting")
\# grid.arrange(r1, r2, nrow = 1)
r3 = metro %>%
            group_by(day_of_week,month) %>%
              summarize(riders = mean(boarding))
## 'summarise()' has grouped output by 'day_of_week'. You can override using the
## '.groups' argument.
```

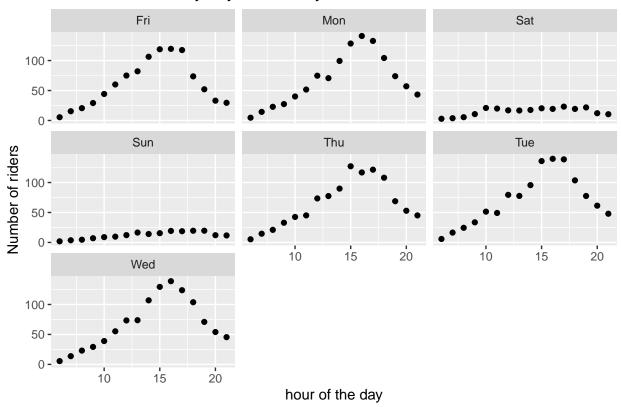
title="Number of riders by day across months")

Number of riders by day across months



'summarise()' has grouped output by 'hour_of_day'. You can override using the
'.groups' argument.

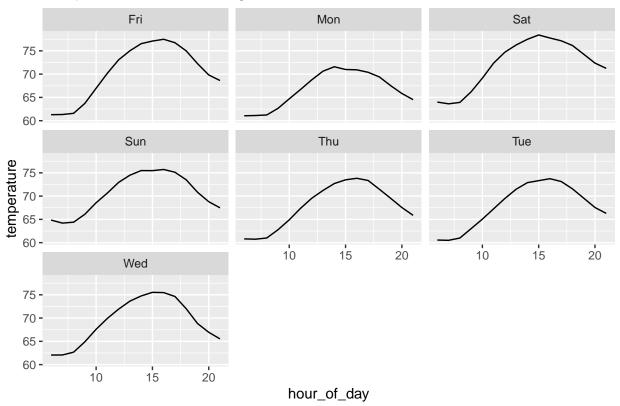
Number of riders by day across days of week



 $\mbox{\tt \#\#}$ 'summarise()' has grouped output by 'day_of_week'. You can override using the $\mbox{\tt \#\#}$ '.groups' argument.

```
ggplot(r5) + geom_line(aes(x=hour_of_day, y=temperature)) +
    ggtitle("Temperature trends throughout the week") + facet_wrap(~day_of_week)
```

Temperature trends throughout the week



'summarise()' has grouped output by 'day_of_week', 'hour_of_day'. You can
override using the '.groups' argument.

```
ggplot(r6) +
  geom_line(aes(x=day_of_week, y=temperature)) +
    ggtitle("Temperature range across months") +
    facet_wrap(~month)
```

Temperature range across months

