lab2Markdown

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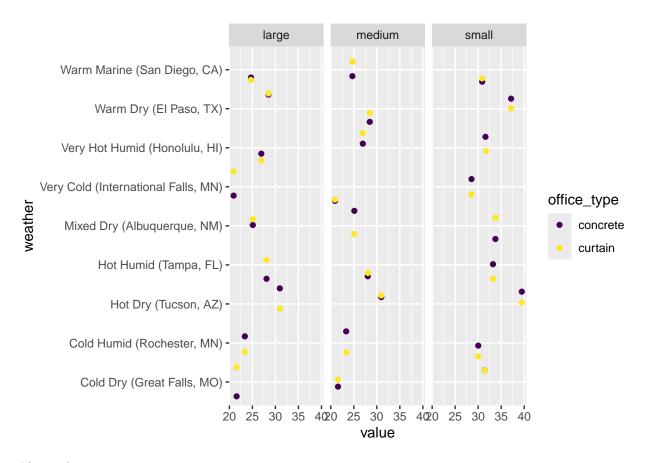
R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
##Lab02 Assignment
```

```
#tidy the dataset
source('./lab2ScriptR.R')
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr
              1.1.4
                        v readr
                                     2.1.5
## v forcats 1.0.0
                         v stringr
                                     1.5.1
## v ggplot2 3.5.0
                         v tibble
                                     3.2.1
## v lubridate 1.9.3
                         v tidyr
                                     1.3.1
## v purrr
               1.0.2
## -- Conflicts ----- tidyverse conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                    masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
df <- sort_data()</pre>
## New names:
## * `` -> `...1`
## * `` -> `...2`
## * `` -> `...3`
## * `` -> `...4`
## * `` -> `...5`
## * `` -> `...6`
## * `` -> `...7`
## * `` -> `...8`
#knitr::kable(head(df,20))
#qet dataset for TASK3_1
dfSmall <- df %>% filter( group=='sensible_cooling' & description=='Outdoor Temperature at Peak Load [C
#knitr::kable(dfSmall)
ggplot(dfSmall,aes(x=value,y=weather,colour=office_type))+geom_jitter()+scale_colour_viridis_d()+facet_
```

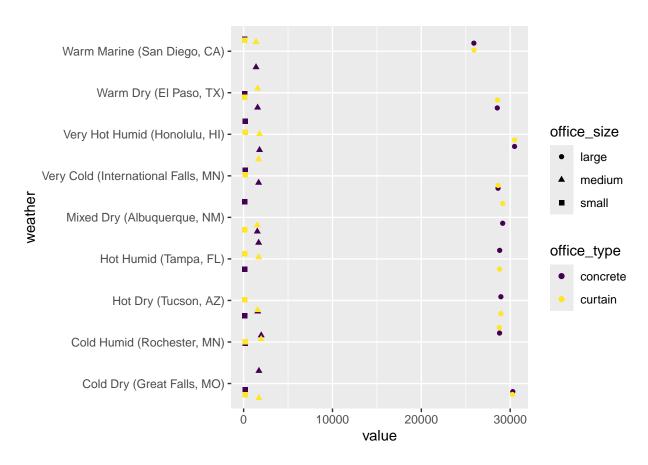


#for Task3_1

The peak load are differed by the weather with the relations showed in the plot.

The Pattern doesn't vary by office type.

df %>% filter(description=='Total Cosumption [GJ]') %>% ggplot(aes(x=value,y=weather,colour=office_type



#for Task3_2 The Office Size effects the total energy consumption.this is the most significant impact.

Including Plots

You can also embed plots, for example:



Note that the $\mbox{echo} = \mbox{FALSE}$ parameter was added to the code chunk to prevent printing of the R code that generated the plot.