

Homework2.rmd

Fabian & Samuel

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Task 1

```
## # A tibble: 9 x 2
##   month cold_days
##   <int>     <int>
## 1     1         32
## 2     2         29
## 3     3         32
## 4     4         22
## 5     5         12
## 6     9          3
## 7    10         12
## 8    11         28
## 9    12         28
```

```
## # A tibble: 1 x 1
##   total_missing
##   <int>
## 1      8255
```

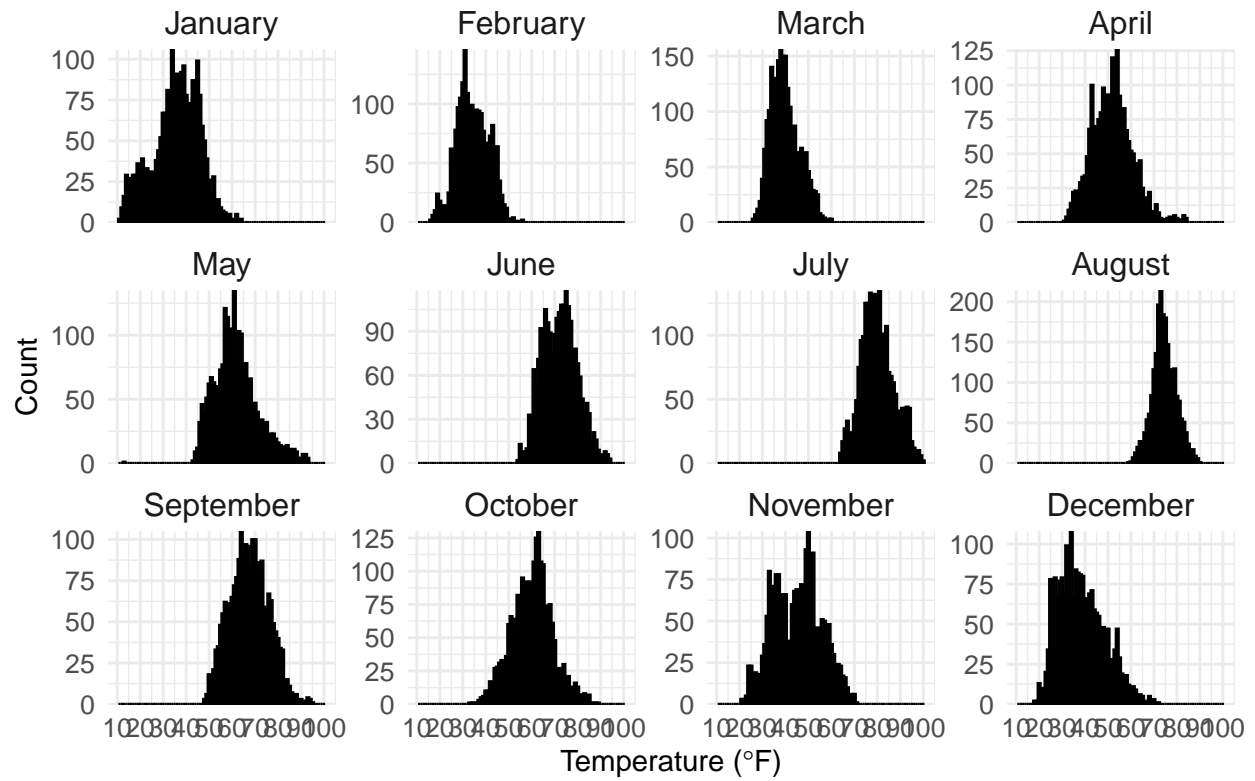
```
## # A tibble: 1 x 20
##   total_missing_dep_time year month   day dep_time sched_dep_time dep_delay
##   <int> <int> <int> <int> <int> <int> <int>
## 1           0     0     0     0     521           0       521
## # i 13 more variables: arr_time <int>, sched_arr_time <int>, arr_delay <int>,
## #   carrier <int>, flight <int>, tailnum <int>, origin <int>, dest <int>,
## #   air_time <int>, distance <int>, hour <int>, minute <int>, time_hour <int>
```

Task 2

```
## # A tibble: 1 x 4
##   total_missing_dep_time missing_sched_dep_time missing_arr_time
##   <int> <int> <int>
## 1      521           0       521
## # i 1 more variable: missing_air_time <int>
```

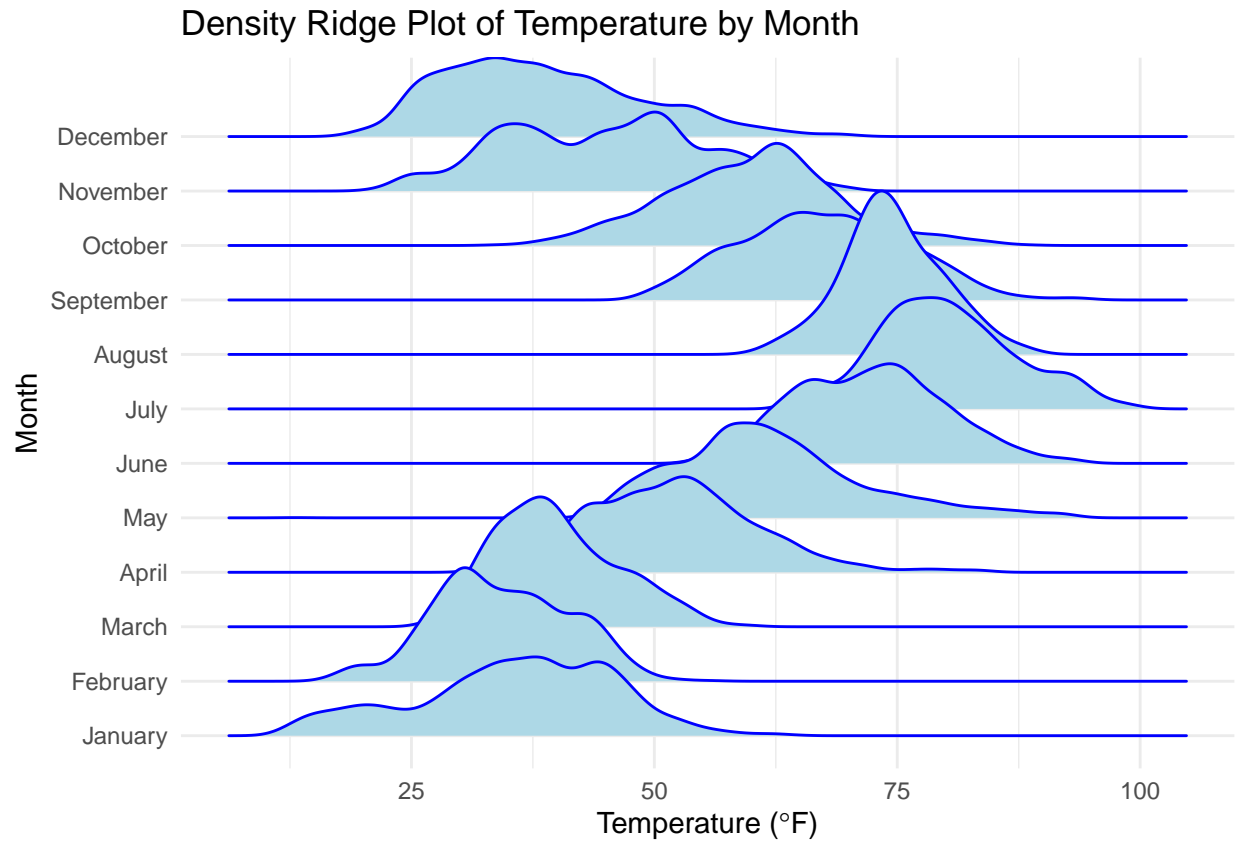
Task 3 - a

Temperature Distribution by Month



Task 3 - b

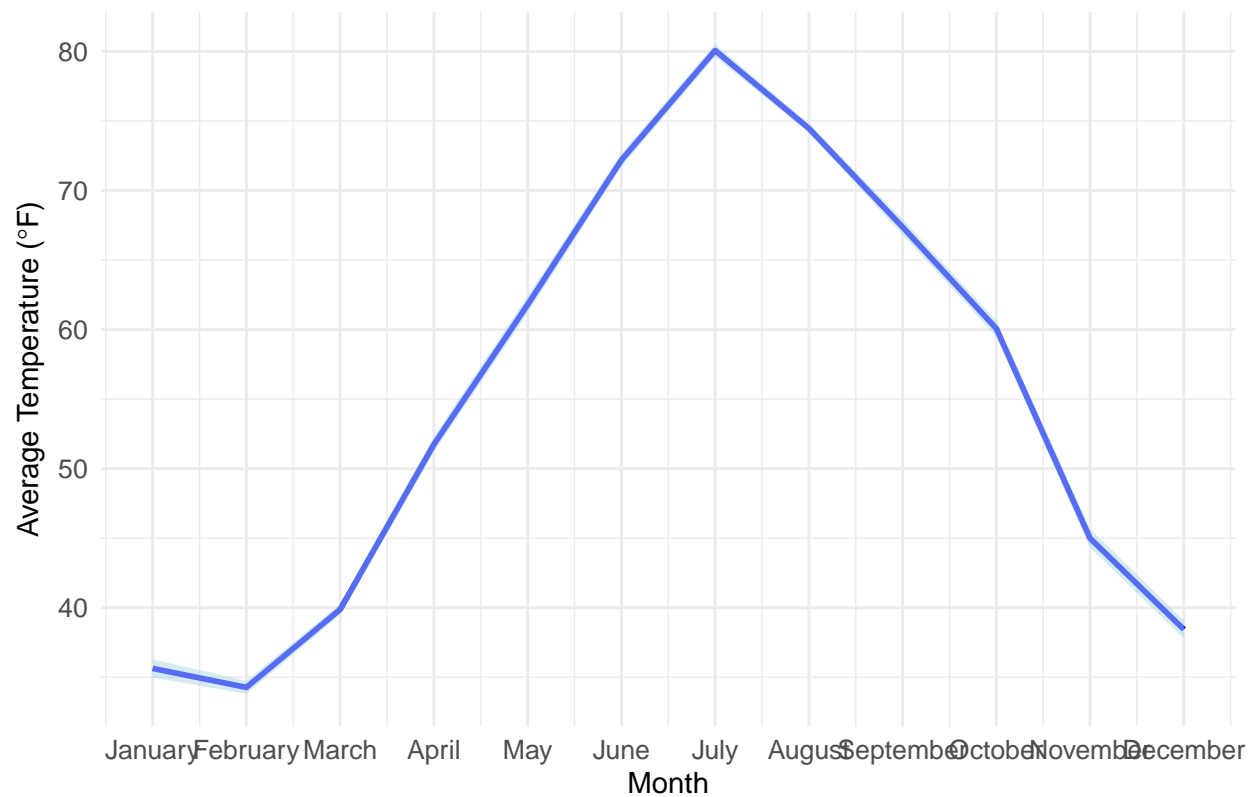
Picking joint bandwidth of 1.58



Task 3 - c

```
## Warning: Using 'size' aesthetic for lines was deprecated in ggplot2 3.4.0.  
## i Please use 'linewidth' instead.  
## This warning is displayed once every 8 hours.  
## Call 'lifecycle::last_lifecycle_warnings()' to see where this warning was  
## generated.
```

Monthly Average Temperature with 99% Confidence Interval

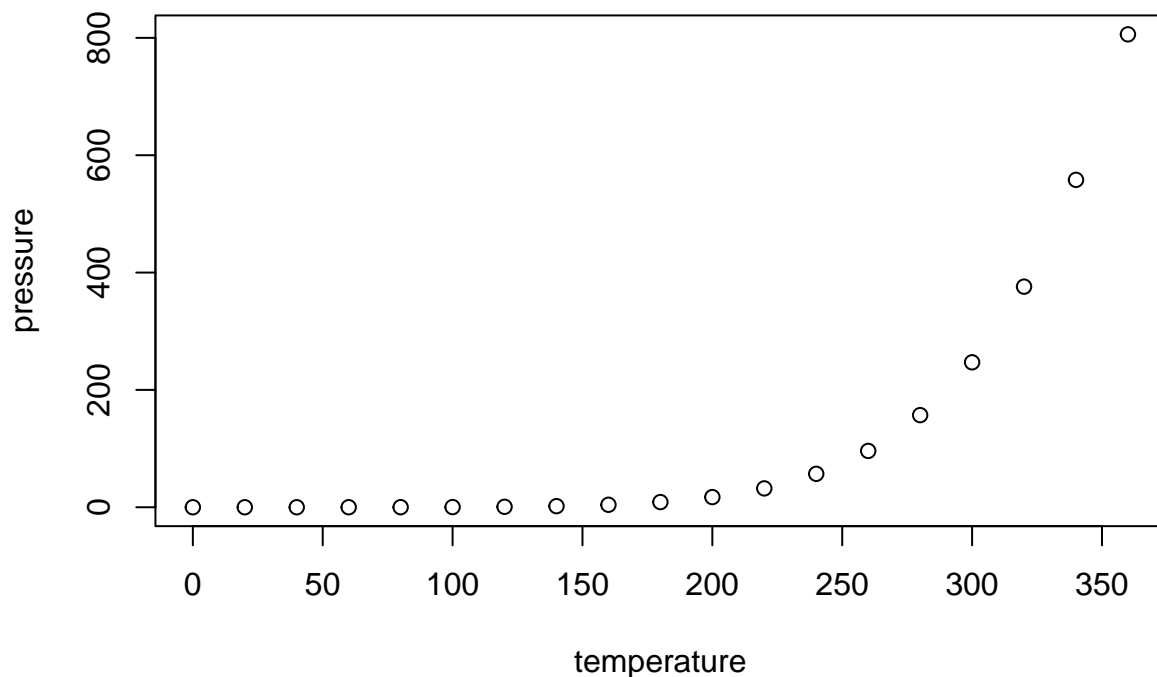


```
summary(cars)
```

```
##      speed      dist
##  Min.   : 4.0    Min.   : 2.00
##  1st Qu.:12.0    1st Qu.: 26.00
##  Median :15.0    Median : 36.00
##  Mean   :15.4    Mean   : 42.98
##  3rd Qu.:19.0    3rd Qu.: 56.00
##  Max.   :25.0    Max.   :120.00
```

Including Plots

You can also embed plots, for example:



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.

Workload

We sat down at the beginning and divided up the tasks. The first thing we did was set up a Git repository so that we could easily collaborate and continuously track each other's progress. We organized the tasks so that Samuel took on tasks 1, 2 and 3, while Fabian handled tasks 4 and 5. This clear division helped us focus and avoid overlapping efforts. After completing our initial assignments, we held a short meeting to discuss the status and share updates on our progress. This check-in proved beneficial, as it highlighted some areas that needed further refinement. Although a few items were still incomplete, we felt that we were moving in the right direction and understood what remained to be done. To ensure the quality of each other's work, we decided that Fabian would review and make corrections to Samuel's tasks, and vice versa. This mutual review process not only helped catch errors but also facilitated a better understanding of each other's approach. By the end of the session, we felt more confident about our progress and looked forward to wrapping up the remaining tasks.