

Assignment 1

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```
# You can hide the messages and warnings when installing a package.  
# This is important when installing a package to avoid unnecessary installation  
# messages and ensure that the document contains only the necessary information.  
  
install.packages("ggplot2") # to use ggplot visualization tools  
install.packages("dplyr") # to use the new pipe (%>) operator and perform data  
# manipulation operations  
install.packages("tidyverse")  
library(ggplot2)  
library(dplyr)  
library(tidyverse)
```

Dataset

The dataset `eskisehir` contains the total population for the top-5 crowded districts of Eskisehir in 2024.

```
eskisehir <- data.frame(  
  district = c("Odunpazari", "Tepebasi", "Sivrihisar", "Cifteler", "Seyitgazi"),  
  population = c(426581, 394734, 20258, 14814, 12878))
```

Drawing a barplot

1. Please draw a boxplot to visualize the population of districts (20 pts).
2. Please solve the problems in the plot to make it better (20 pts).
3. Then configure the plot to present it in a better way (40 pts). You can use the tricks that you learned in the lecture.
4. Interpret the plot (20 pts). It must be about the information of the district populations not the technical part of the plot.

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