Mam, I am taking the msleep data-set for visualization purpose

Description of the data-set

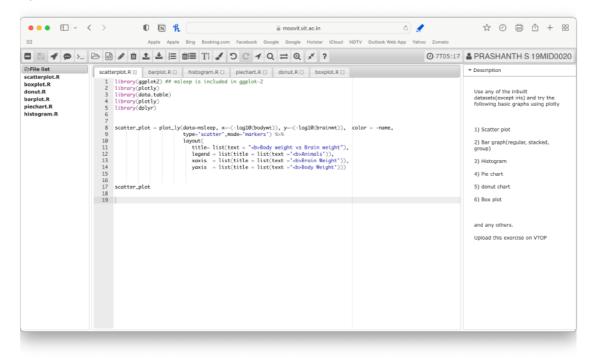
```
This is an updated and expanded version of the mammals sleep dataset. Updated sleep times and weights were taken from V. M. Savage and G. B. West. A quantitative, theoretical framework for understanding mammalian sleep Proceedings of the National Academy of Sciences, 104 (3):1051-1056, 2007.
Usage
msleep
Format
A data frame with 83 rows and 11 variables:
genus
vore
      carnivore, omnivore or herbivore?
      the conservation status of the animal
      total amount of sleep, in hours
      rem sleep, in hours
sleep cycle
      length of sleep cycle, in hours
       amount of time spent awake, in hours
      brain weight in kilograms
      body weight in kilograms
Details
```

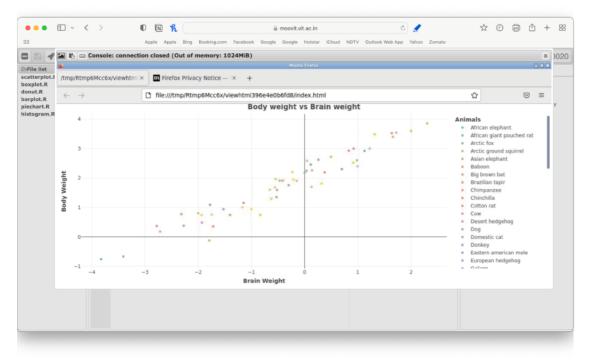
Loading the libraries and the data-set

Additional variables order, conservation status and vore were added from wikipedia.

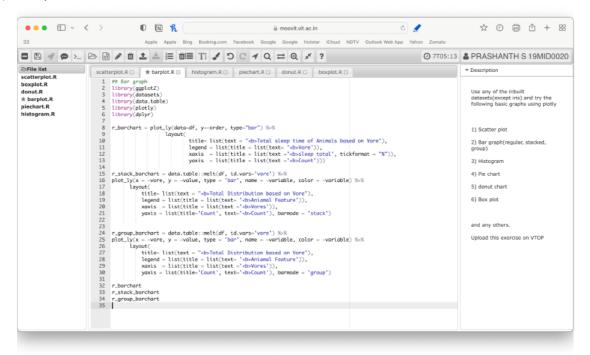
```
``{r}
                                                                                                           0 = 1
library(ggplot2) ## msleep is included in ggplot-2
library (plotly)
library (data.table)
···{r}
print(paste("Attributes of the data-set"))
colnames(df)
[1] "Attributes of the data-set"
                                                                    "conservation" "sleep_total"
                                     "vore"
                                                    "order"
 [11 "name"
                     "genus"
 [7] "sleep_rem" "sleep_cycle" "awake"
                                                    "brainwt"
                                                                    "bodywt"
```{r}
str (df)
tibble [83 × 11] (S3: tbl df/tbl/data.frame)
 $ name
 : chr [1:83] "Cheetah" "Owl monkey" "Mountain beaver" "Greater short-tailed shrew" ...
 : chr [1:83] "Acinonyx" "Aotus" "Aplodontia" "Blarina" ...
 $ genus
 : chr [1:83] "carni" "omni" "herbi" "omni" ...
 $ vore
 : chr [1:83] "Carnivora" "Primates" "Rodentia" "Soricomorpha" ...
 $ conservation: chr [1:83] "lc" NA "nt" "lc" ...
 $ sleep_total : num [1:83] 12.1 17 14.4 14.9 4 14.4 8.7 7 10.1 3 ...
 $ sleep_rem : num [1:83] NA 1.8 2.4 2.3 0.7 2.2 1.4 NA 2.9 NA ...
 $ sleep_cycle : num [1:83] NA NA NA 0.133 0.667 ...
 : num [1:83] 11.9 7 9.6 9.1 20 9.6 15.3 17 13.9 21 ...
 $ awake
 : num [1:83] NA 0.0155 NA 0.00029 0.423 NA NA NA 0.07 0.0982 ...
: num [1:83] 50 0.48 1.35 0.019 600 ...
 $ brainwt
 $ bodywt
```

### 1) Scatter Plot

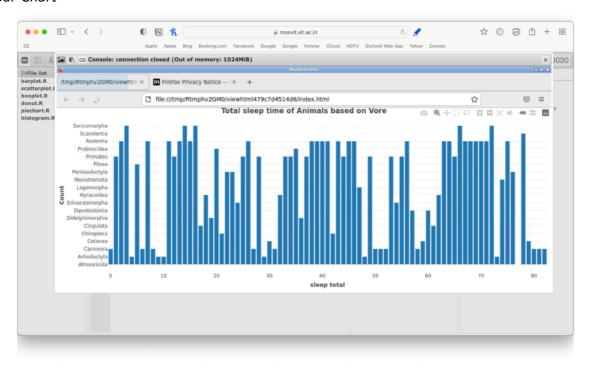




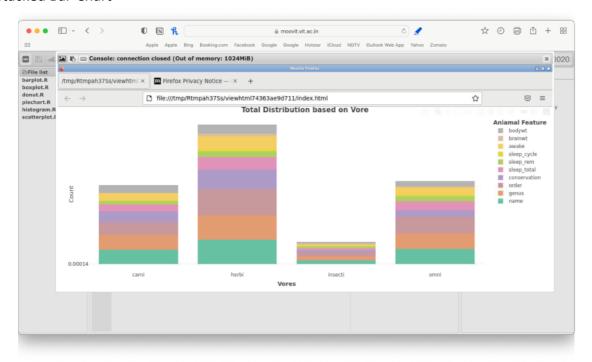
### 1) Bar plot



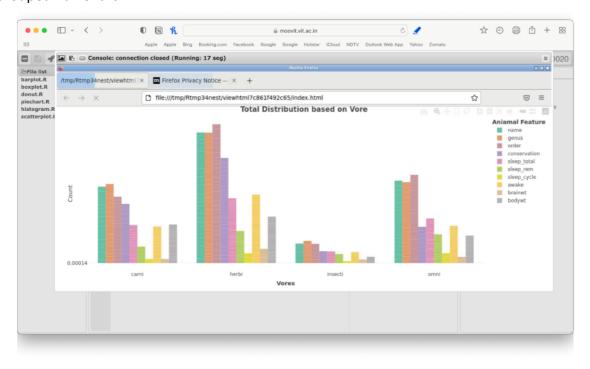
# Executing the code one-by-one plots Bar-Chart



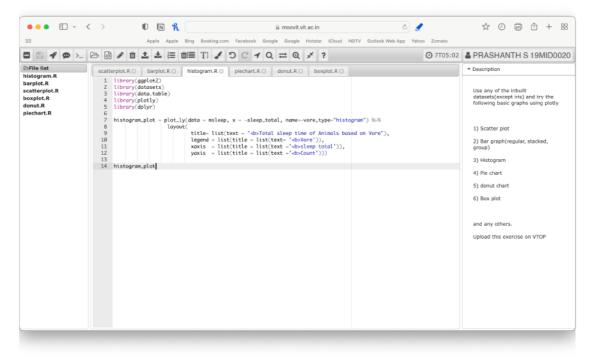
### Stacked Bar-Chart

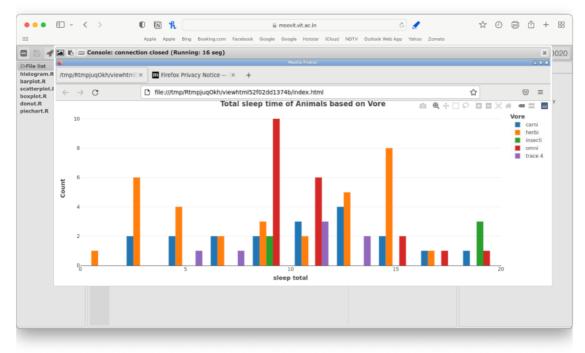


## **Grouped Bar-Chart**

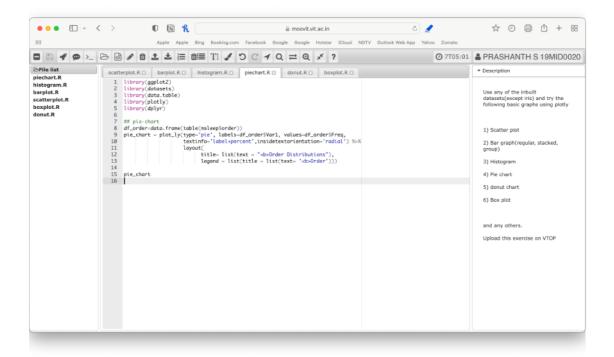


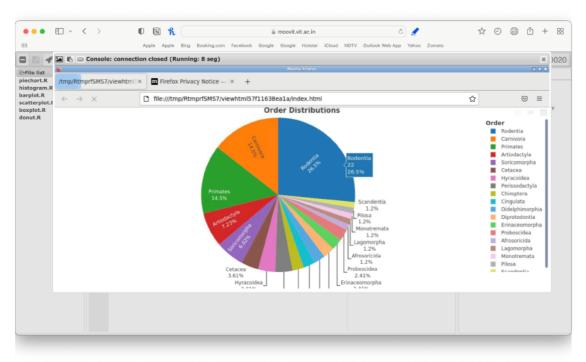
### 2) Histogram Plot



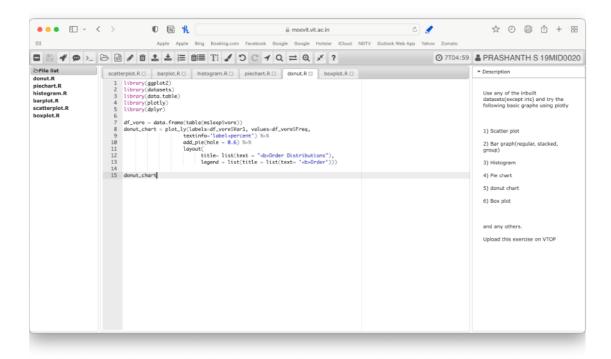


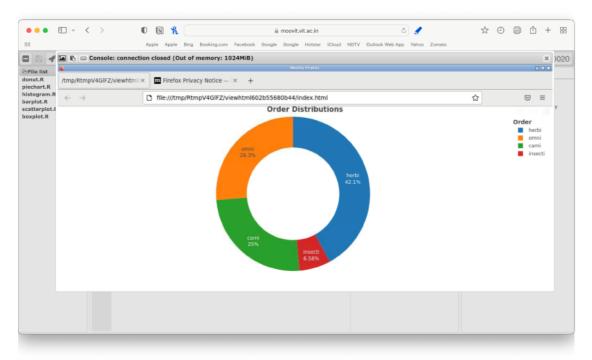
### 3) Pie-Chart



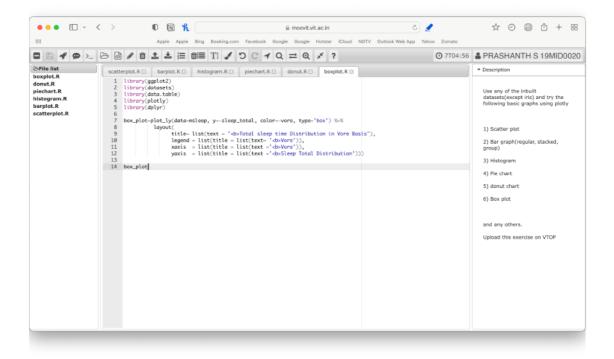


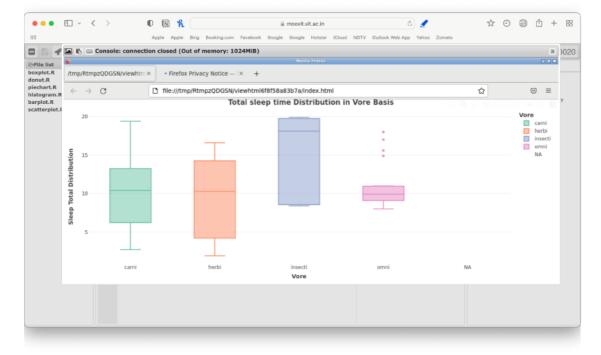
## 4) Donut chart

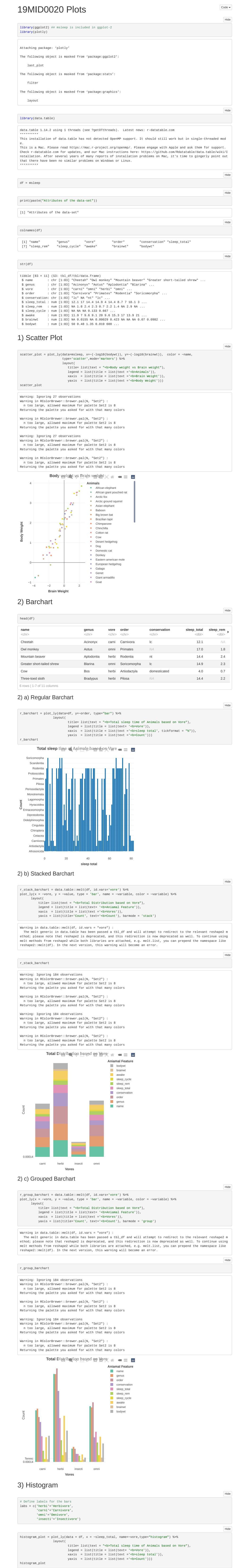


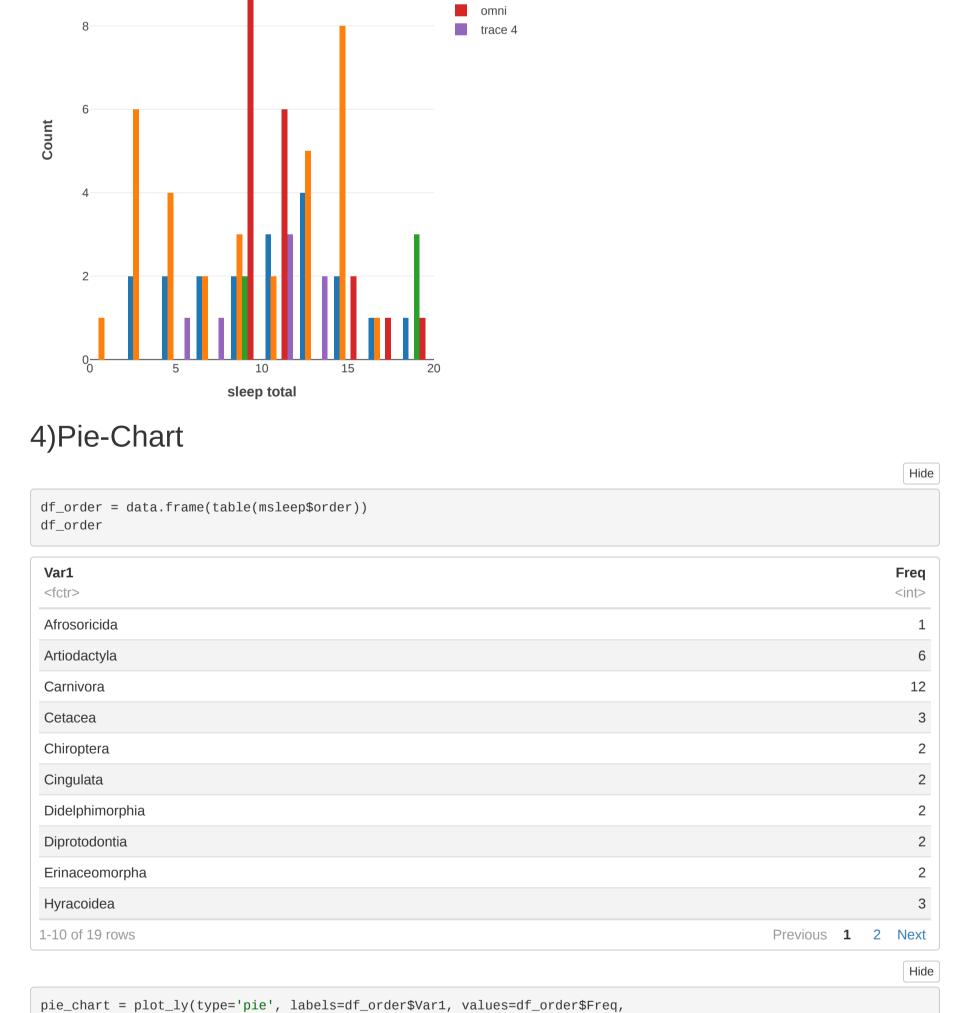


## 5) Box Plot









textinfo='label+percent',insidetextorientation='radial') %>%

title= list(text = "<b>Order Distributions"), legend = list(title = list(text= '<b>Order')))

Order

Rodentia Carnivora Primates Artiodactyla Soricomorpha Cetacea Hyracoidea Perissodactyla Chiroptera Cingulata

Didelphimorphia

Diprotodontia

layout(

**Order Distributions** 

pie\_chart

**Primates** 

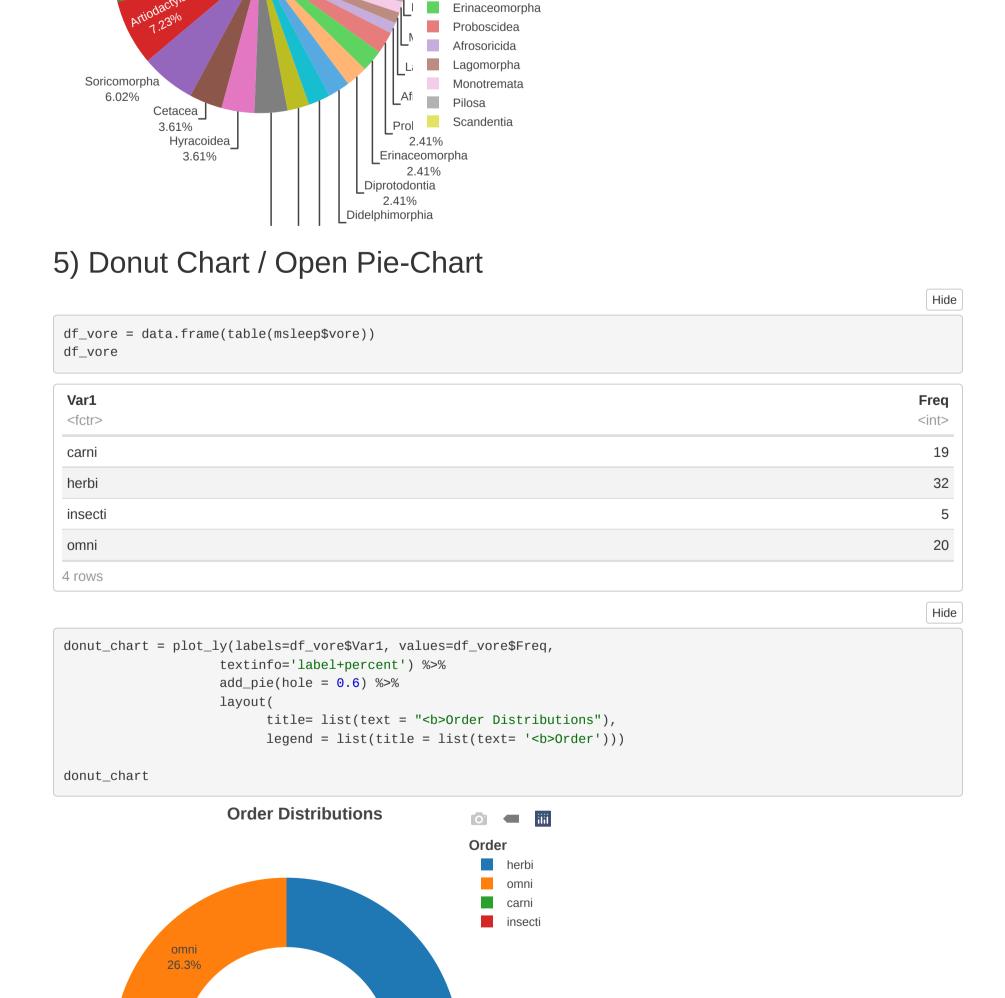
14.5%

Vore

carni herbi

Total sleep time of Animals based on Vore \_

10



herbi 42.1%

6.58%

box\_plot=plot\_ly(data=msleep, y=~sleep\_total, color=~vore, type='box') %>%

legend = list(title = list(text= '<b>Vore')), xaxis = list(title = list(text ='<b>Vore')),

Total sleep time Distribution in Vore Basis 🕳 🚍

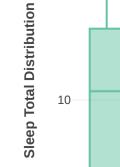
title= list(text = "<b>Total sleep time Distribution in Vore Basis"),

Vore

carni

herbi insecti omni NA

yaxis = list(title = list(text ='<b>Sleep Total Distribution')))

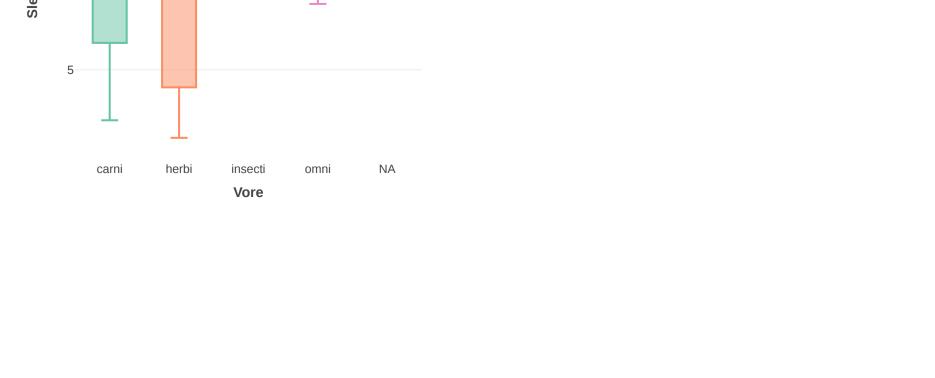


6) Box Plot

box\_plot

20

15



Hide