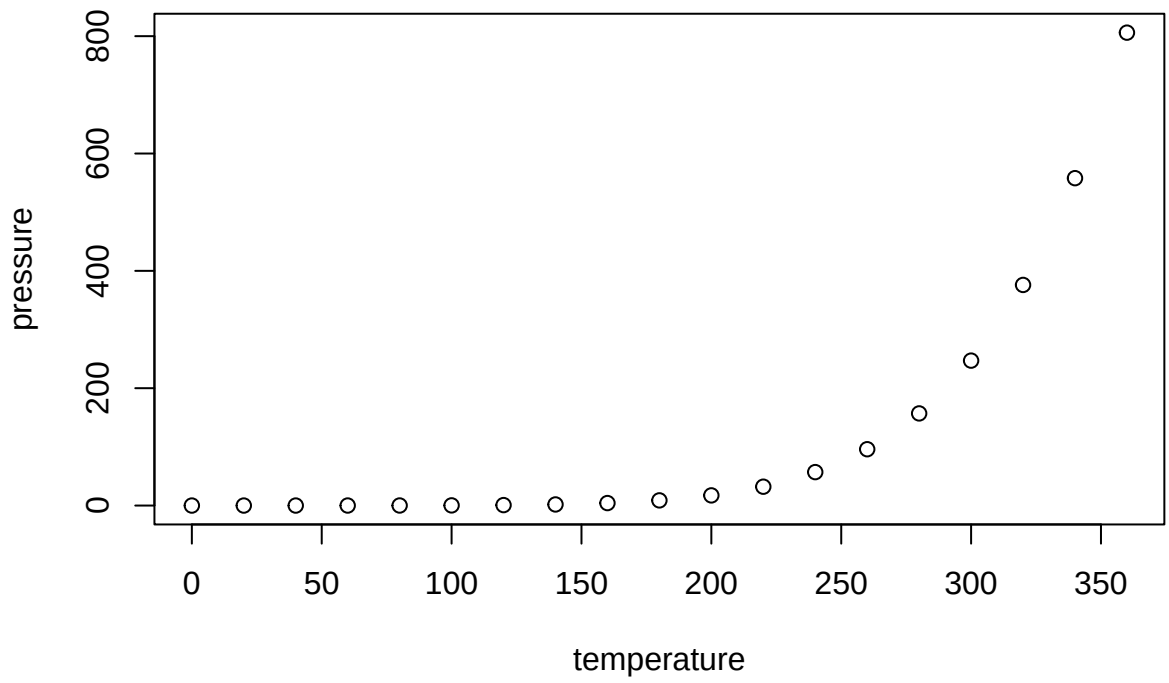
R packages

2024-09-08

R Markdown

```
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
```



This R environment comes with many helpful analytics packages installed.

```
library(tidyverse) # metapackage of all tidyverse packages
```

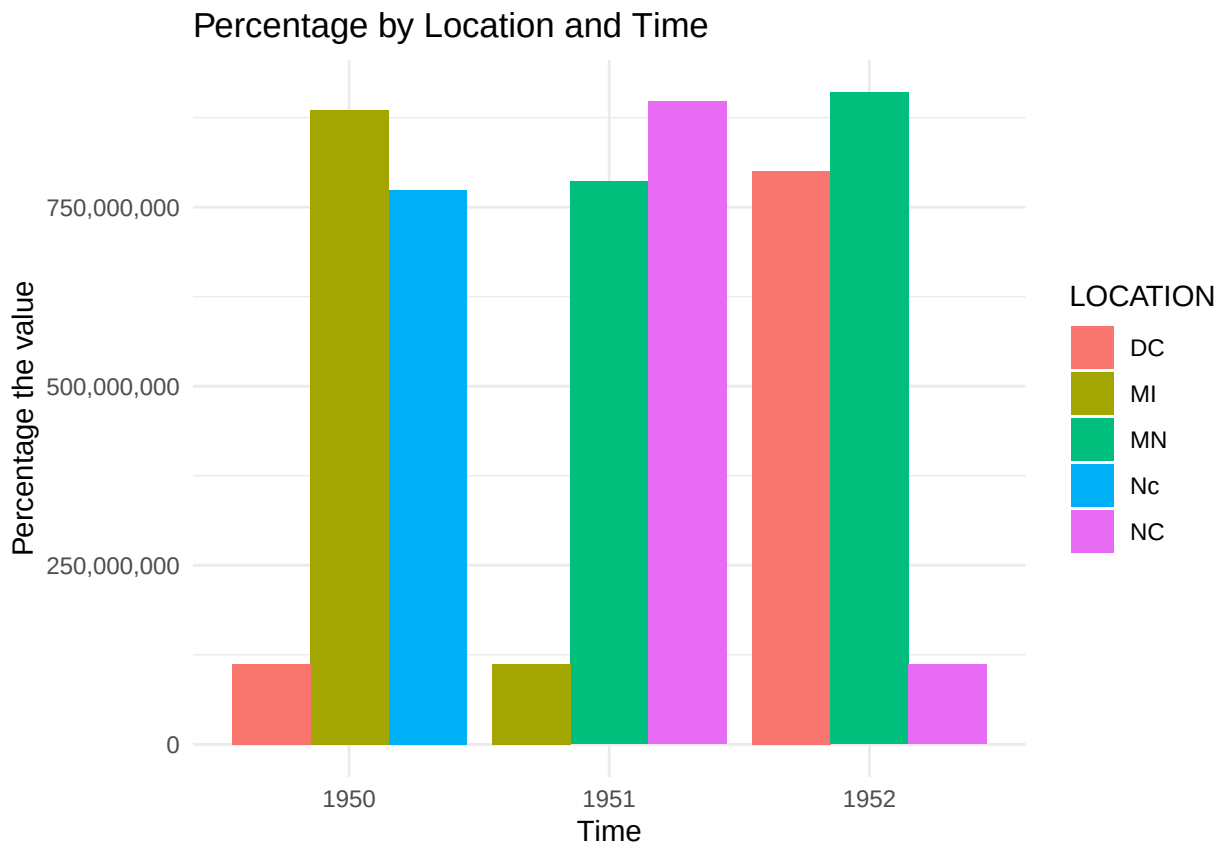
```
## -- Attaching core tidyverse packages ------------------------ tidyverse 2.0.0 --
## v dplyr     1.1.4     v readr     2.1.5
## v forcats   1.0.0     v stringr   1.5.1
## v ggplot2   3.5.1     v tibble    3.2.1
## v lubridate 1.9.3     v tidyr     1.3.1
## v purrr     1.0.2
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```
install.packages("ggplot2")
```

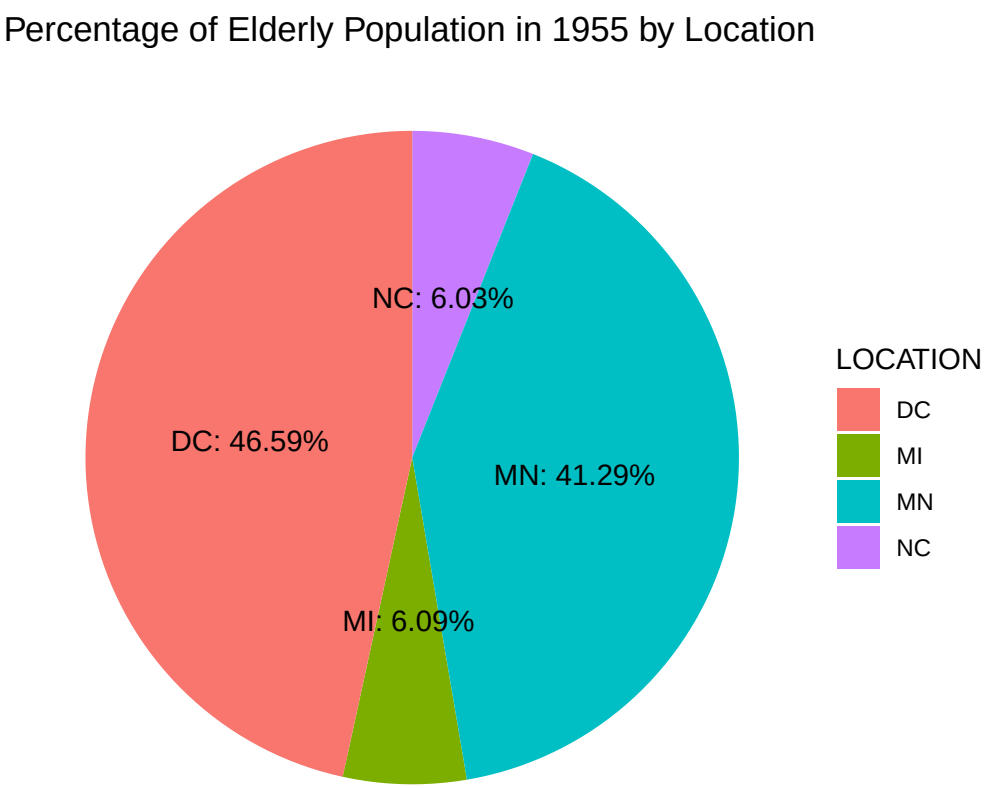
```
## Warning: package 'ggplot2' is in use and will not be installed
```

```
library("ggplot2")
```

```
data <- data.frame(
  LOCATION = c("Nc", "MI", "DC", "MN", "NC", "MI", "DC", "MN", "NC"),
  TIME = c(1950, 1950, 1950, 1951, 1951, 1951, 1952, 1952, 1952),
  Value = c(7.737607, 8.857827, 1.117701, 7.857343, 8.975379, 1.117735, 8.003917, 9.103601, 1.116546),
  Percentage = c(773760700, 885782700, 111770100, 785734300, 897537900, 111773500, 800391700, 910360100
)

ggplot(data, aes(x = as.factor(TIME), y = Percentage, fill = LOCATION)) +
  geom_bar(stat = "identity", position = "dodge") +
  labs(x = "Time", y = "Percentage the value", title = "Percentage by Location and Time") +
  scale_y_continuous(labels = scales::comma) + # Para formatar os números no eixo Y
  theme_minimal()
```




```r
library(ggplot2)
data_1955 <- data.frame(
  LOCATION = c("NC", "MI", "MN", "DC"),
  Percentage = c(114132700, 115317900, 781628200, 881843700)
)

data_1955$label <- paste0(data_1955$LOCATION, ": ", round(data_1955$Percentage/sum(data_1955$Percentage

ggplot(data_1955, aes(x = "", y = Percentage, fill = LOCATION)) +
  geom_bar(width = 1, stat = "identity") +
  coord_polar("y", start = 0) +
  geom_text(aes(label = label), position = position_stack(vjust = 0.5)) +
  labs(title = "Percentage of Elderly Population in 1955 by Location") +
  theme_void()
```


Percentage of Elderly Population in 1955 by Location
NC: 6.03%
DC: 46.59%
MN: 41.29%
MI: 6.09%
LOCATION
DC
MI
MN
NC