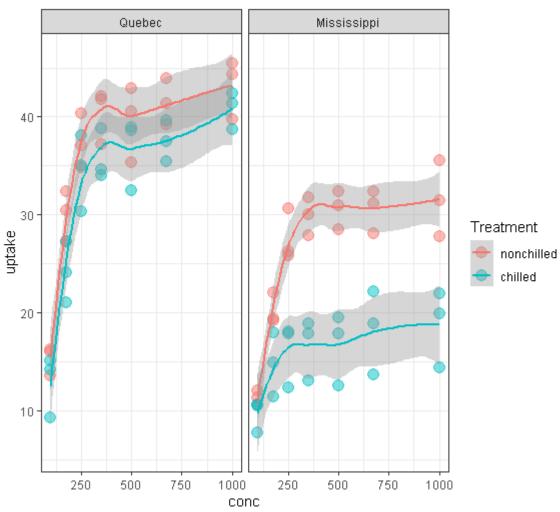
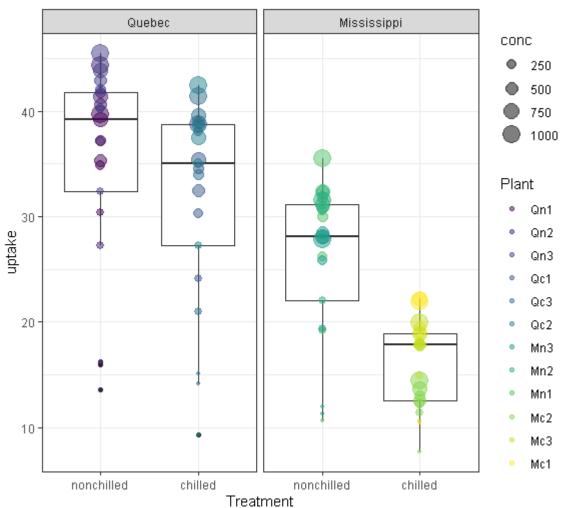
```
rm(PART5)
rm(PART5_IR)
data()
BOD
library(tidyverse)
library(ggplot2)
ggplot(data = BOD,
   mapping = aes(x = Time,
           y = demand)) + geom_point(size = 5) +
geom_line(colour = "red")
data()
CO2
#Graph 1:
ggplot(CO2, aes(conc, uptake, colour = Treatment))+
geom_point(size = 4, alpha = 0.5)+
geom_smooth()+ facet_wrap(~Type)+
  labs(title = "concentration of Co2")+
  theme_bw()
```

concentration of Co2

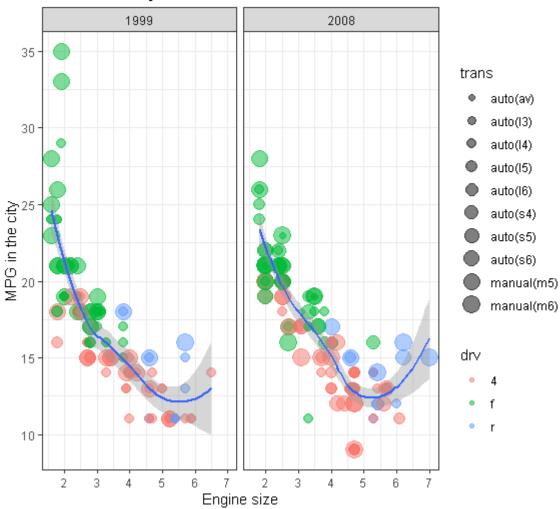


#Graph 2: CO2%>% ggplot(aes(Treatment, uptake))+ geom_boxplot()+ geom_point(alpha = 0.5, aes(size = conc, colour = Plant))+ facet_wrap(~Type)+ theme_bw()+ labs(title = "chilled vs Non-chilled")

chilled vs Non-chilled



Fuel efficiency



#Graph 4: view(msleep)

```
msleep%>%

drop_na(vore)%>%

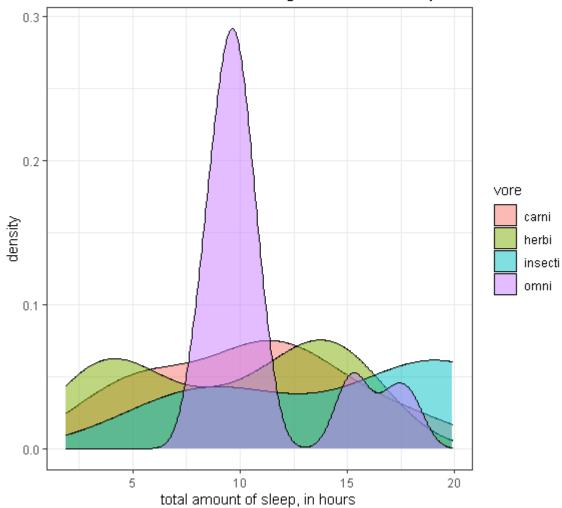
ggplot(aes(sleep_total, fill = vore))+

geom_density(alpha= 0.5)+

theme_bw()+ labs(x = "total amount of sleep, in hours",

title = " A framework for understanding mammalian sleep")
```

A framework for understanding mammalian sleep



library(gapminder)

library(ggplot2)

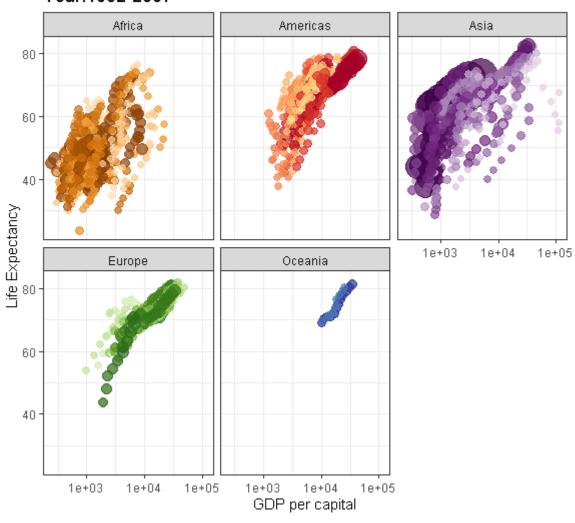
library(gganimate)

gapminder

```
P1 <- ggplot(gapminder, aes(gdpPercap, lifeExp, size = pop, colour = country))+
geom_point(alpha = 0.7, show.legend = FALSE)+
scale_colour_manual(values = country_colors)+
scale_size(range = c(2,12))+
scale_x_log10()+
facet_wrap(~continent)+
labs(title = "Year: Frame_time", x = "GDP per capital", y = "Life Expectancy")+
theme_bw()+
```

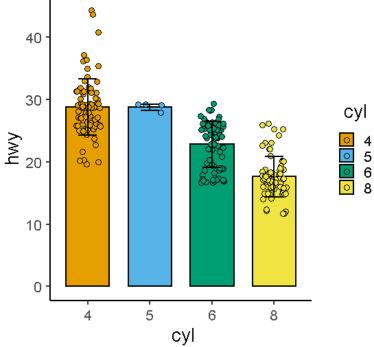
```
transition_time(year)+
ease_aes('linear')
animate(P1)
anim_save('plot_gdpPercap_lifeExp.gif')
```

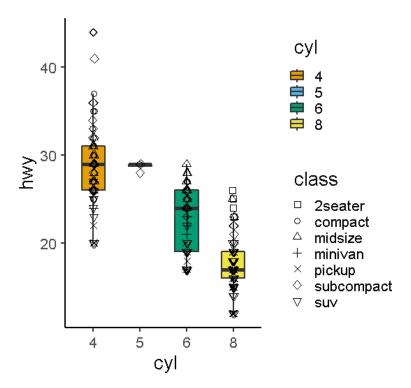
Year:1952-2007



```
# Graphs 6 & 7:
library(tidyverse)
library(grafify)
mpg
mpg%>%
plot_scatterbar_sd(cyl,hwy)
mpg%>%
plot_3d_scatterbox(cyl, hwy, class, s_aloha = 0)
```

```
mpg%>%
 plot_dotviolin(cyl, hwy, jitter = 0.2, s_aloha = 0.5)
mpg%>%
 plot_dotviolin(cyl, hwy, dotsize = 0.4, ColPal = "bright")
mpg%>%
 group_by(model, year) %>%
 ungroup() %>%
 plot_befafter_colors(year, mean_hwy,model)
library(ggplot2)
library(tidyr)
library(raster)
climate <- getData("worldcilm" , var= "bio", res=2.5)</pre>
climate <- crop(climate, extent(-82,-34,-60,15))</pre>
                     40
                     30
```



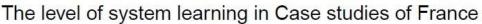


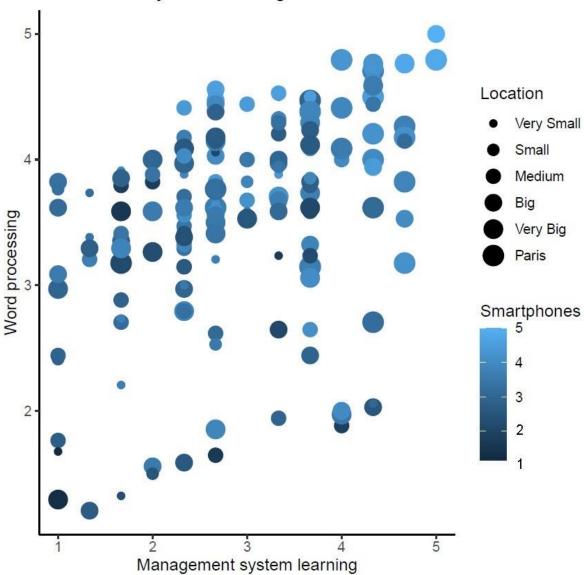
system learning

PART4

```
ggplot(PART4, mapping = aes(Management.system.learning, Word.processing1))+
geom_point(aes(color = Smartphones, size = Location))+
theme_classic()+
ggtitle("The level of system learning in Case studies of France")+
labs(x = "Management system learning", y = "Word processing") +
scale_size_discrete(range = c(5, 20))+
theme(legend.text = element_text(size = 16)) +
theme(legend.title = element_text(size = 20)) +
theme(axis.text.x = element_text(size = 15, color = "black")) +
theme(axis.text.y = element_text(size = 15, color = "black")) +
theme(axis.title = element_text(size = 25)) +
theme(plot.title = element_text(size = 30, hjust = 0.5)) +
theme(strip.text.x = element_text(size = 20)) +
theme(strip.text = element_text(color = "black"))
```

PART4





social media Multiple:

```
ggplot(PART4, aes_string(col)) + geom_bar( fill = "#1DC4CB") + coord_flip()})) +
 theme_classic()+
 theme(panel.grid.major = element_line("n")) +
 theme_light()
PART4
PART4
plot1 <- ggplot(PART4, aes(Facebook))+
 geom_bar(fill = "#1DC4CB") +
coord_flip()+
 labs(y = NULL)+
 theme_classic()+
 theme(axis.title = element_text(size = 25)) +
 theme(axis.text.y = element_text(size = 18, color = "black")) +
 theme(plot.title = element_text(size = 30, hjust = 0.5)) +
 theme(strip.text.x = element_text(size = 30)) +
 theme(strip.text = element_text(color = "black" ))
PART4
PART4
plot2 <-ggplot(PART4, aes(LinkedIn))+
 geom_bar(fill = "#3AF9F9") +
 coord_flip()+
 labs(y = NULL)+
 theme_classic()+
 theme(axis.title = element_text(size = 25)) +
 theme(axis.text.y = element text(size = 18, color = "black")) +
 theme(plot.title = element_text(size = 30, hjust = 0.5)) +
 theme(strip.text.x = element text(size = 30)) +
 theme(strip.text = element_text(color = "black"))
PART4
```

```
PART4
plot3 <-ggplot(PART4, aes(Twitter))+
 geom_bar(fill = "#96F9F9") +
 coord_flip()+
 labs(y = NULL)+
 theme_classic()+
 theme(axis.title = element text(size = 25)) +
 theme(axis.text.y = element_text(size = 18, color = "black")) +
 theme(plot.title = element_text(size = 30, hjust = 0.5)) +
 theme(strip.text.x = element_text(size = 30)) +
 theme(strip.text = element_text(color = "black" ))
PART4
PART4
plot4 <- ggplot(PART4, aes(ResearchGate))+
 geom_bar(fill = "#1D29CB") +
 coord_flip()+
 labs(y = NULL)+
 theme_classic()+
 theme(axis.title = element_text(size = 25)) +
 theme(axis.text.y = element_text(size = 18, color = "black")) +
 theme(plot.title = element_text(size = 30, hjust = 0.5)) +
 theme(strip.text.x = element_text(size = 30)) +
 theme(strip.text = element_text(color = "black"))
PART4
PART4
plot5 <-ggplot(PART4, aes(Instagram))+
 geom bar(fill = "#5164D7") +
 coord_flip()+
```

```
labs(y = NULL)+
 theme_classic()+
 theme(axis.title = element_text(size = 25)) +
 theme(axis.text.y = element_text(size = 18, color = "black")) +
 theme(plot.title = element_text(size = 30, hjust = 0.5)) +
 theme(strip.text.x = element_text(size = 30)) +
 theme(strip.text = element_text(color = "black" ))
PART4
PART4
plot6 <-ggplot(PART4, aes(Snapchat))+
 geom_bar(fill = "#798BF7") +
 coord_flip()+
 labs(y = NULL)+
 theme_classic()+
 theme(axis.title = element_text(size = 25)) +
 theme(axis.text.y = element_text(size = 18, color = "black")) +
 theme(plot.title = element_text(size = 30, hjust = 0.5)) +
 theme(strip.text.x = element_text(size = 30)) +
 theme(strip.text = element_text(color = "black" ))
PART4
scale_x_continuous(limits = c(1,5))+
coord_cartesian(xlim = c(1,6))+
 ggsave('point.m.PNG', height = 15, width = 25, dpi = 400)
library(patchwork)
plot1 + plot2 + plot3 + plot4 + plot5 + plot6
ggsave('M.SOCIAL.1.PNG', height = 12, width = 15, dpi = 1000)
```

PART4\$Facebook = haven::as_factor(PART4\$Facebook)

PART4\$LinkedIn = haven::as_factor(PART4\$LinkedIn)

PART4\$Twitter = haven::as_factor(PART4\$Twitter)

PART4\$ResearchGate = haven::as_factor(PART4\$ResearchGate)

PART4\$Instagram = haven::as_factor(PART4\$Instagram)

PART4\$Snapchat = haven::as_factor(PART4\$Snapchat)

