ggplot 27102023

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#ggplot-Grammar and Graphics We have the following points: ##data ##geometricinterpretation ##mapping(aesthetics) ##statistics ##facet ##coordinatespace ##labels ##theme

```
library(dplyr)
```

```
##
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
##
##     filter, lag
```
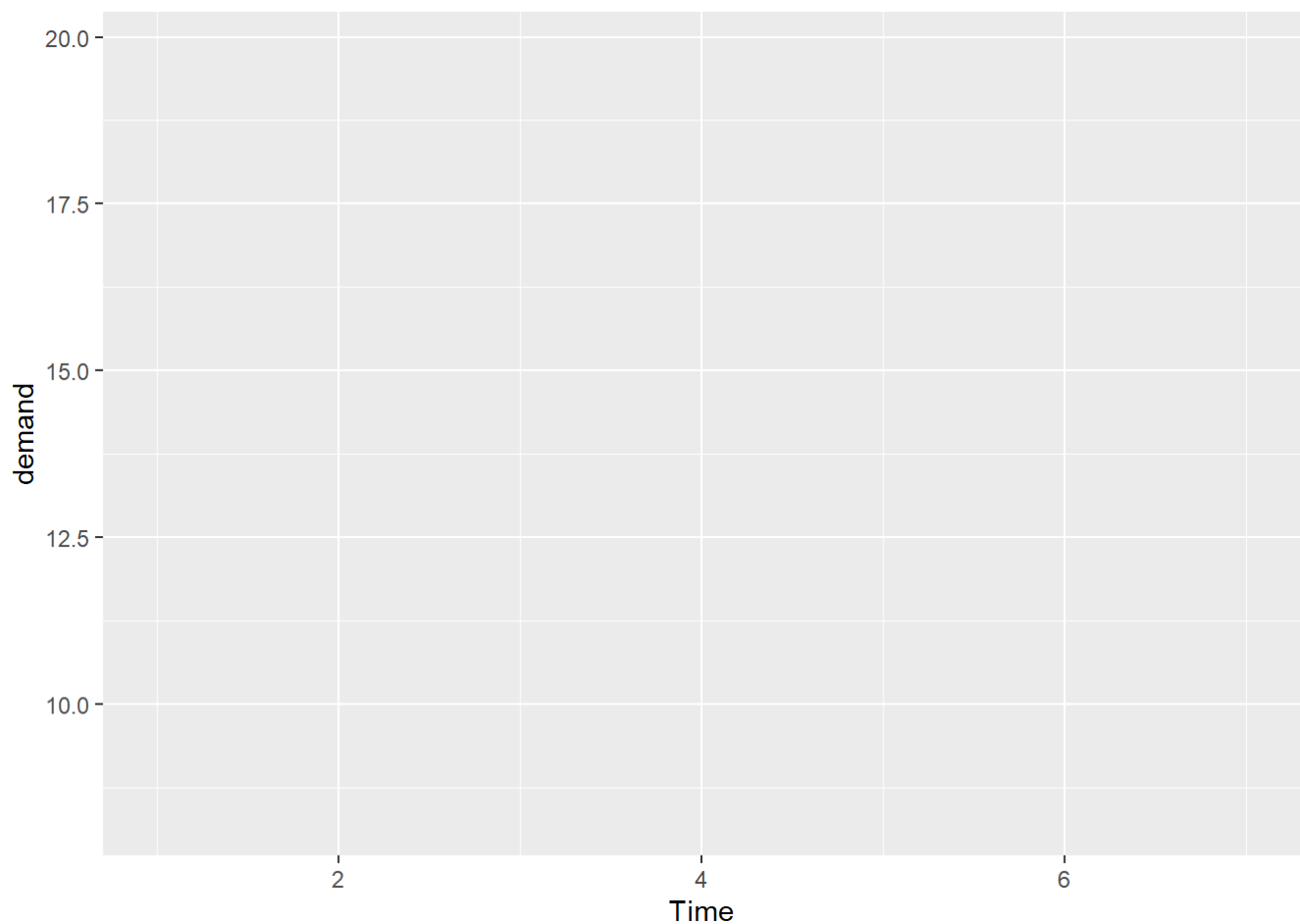
```
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
library(ggplot2)
library(hflights)
```

```
BOD #to check the data
```
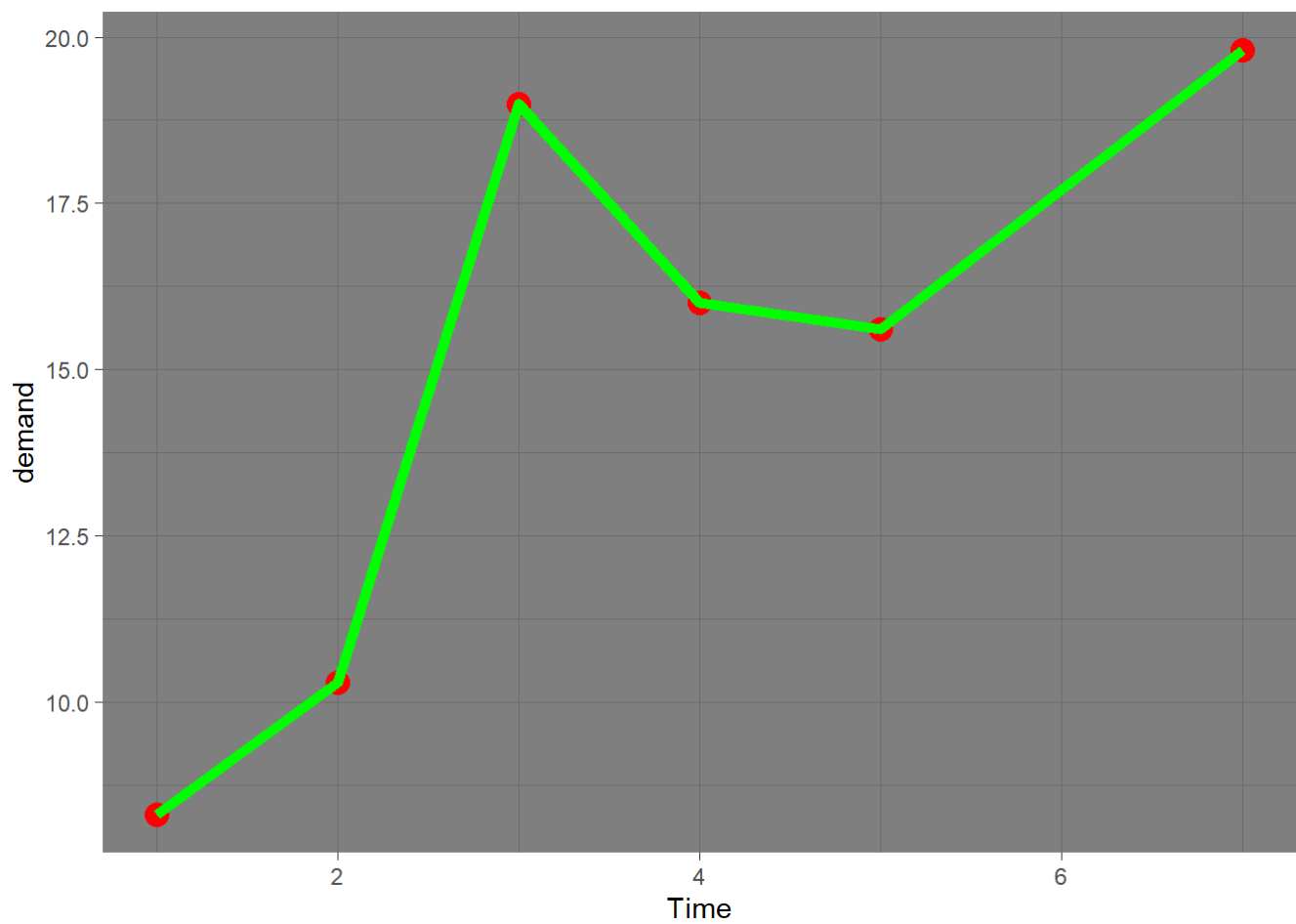
```
##   Time demand
## 1    1    8.3
## 2    2   10.3
## 3    3   19.0
## 4    4   16.0
## 5    5   15.6
## 6    7   19.8
```

```
#to create space for the graph
ggplot(BOD,aes(Time,demand))
```

```
#or
BOD%>%
  ggplot(aes(Time,demand))+
    geom_point(size=4,color="red") +
    geom_line(size=2,color="green")+
    theme_dark()
```

```
## 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.
```
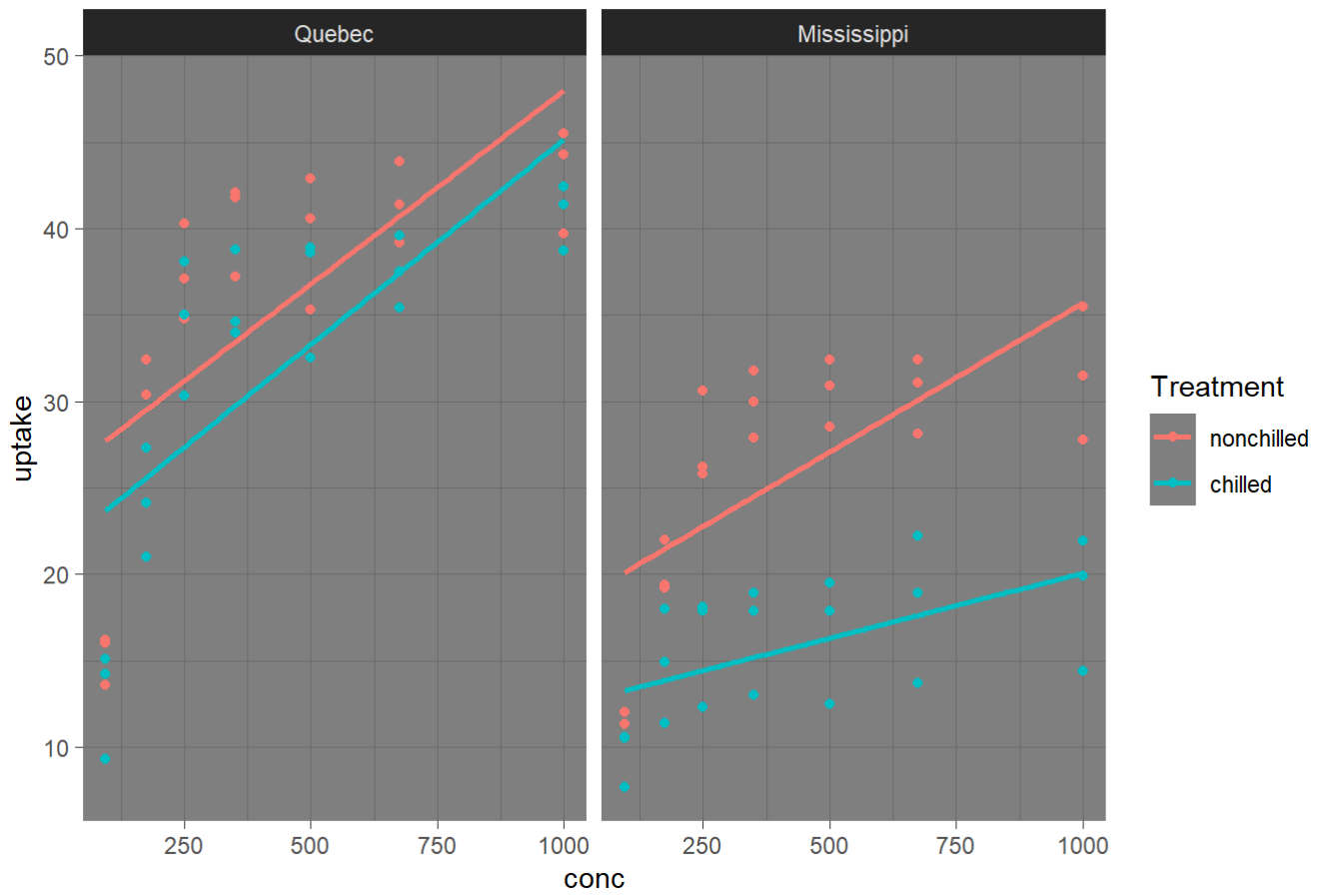
exampleofco2

```
CO2%>% ggplot(aes(conc,uptake,color=Treatment))+
    geom_point()+
    geom_smooth(method=lm,se=F)+
    facet_wrap(~Type)+
    labs(title="Conc of CO2")+
    theme_dark()
```

```
## `geom_smooth()` using formula = 'y ~ x'
```

Conc of CO2

#se represents standard error
#lm means linear model