

Plots.R

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```
knitr::opts_chunk$set(echo = TRUE)
knitr::opts_chunk$set(
  echo = TRUE,
  message = FALSE,
  warning = FALSE
)
library(tidyverse)

## -- Attaching packages ----- tidyverse 1.3.1 --

## v ggplot2 3.3.5      v purrr   0.3.4
## v tibble  3.1.6      v dplyr    1.0.8
## v tidyr   1.2.0      v stringr  1.4.0.9000
## v readr   2.1.2      vforcats  0.5.1

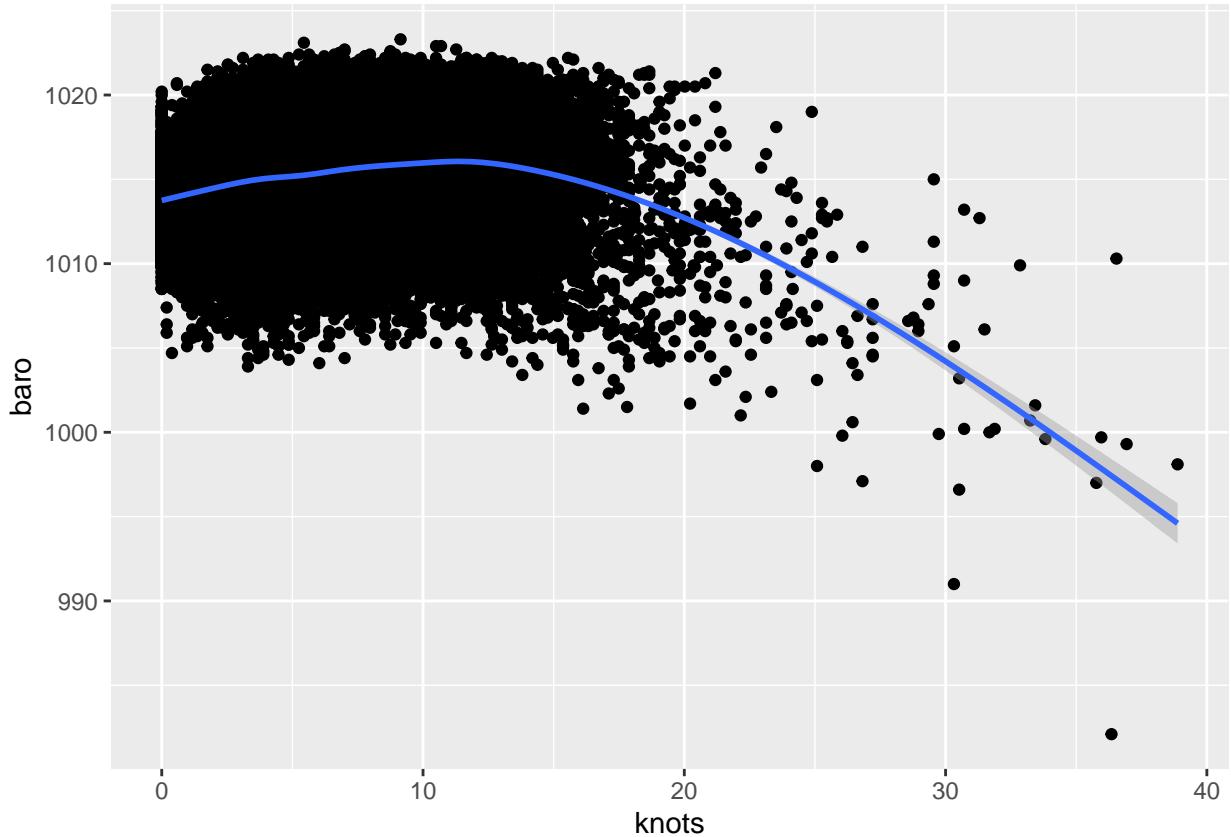
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()   masks stats::lag()

library(ggplot2)
setwd('D:/Repositories/CS251/SDRUS/scaling-guacamole/Data_Clean')
data<- read.csv('data_clean.csv', header = TRUE)
data <- na.omit(data)

par(mfrow = c(2,2))

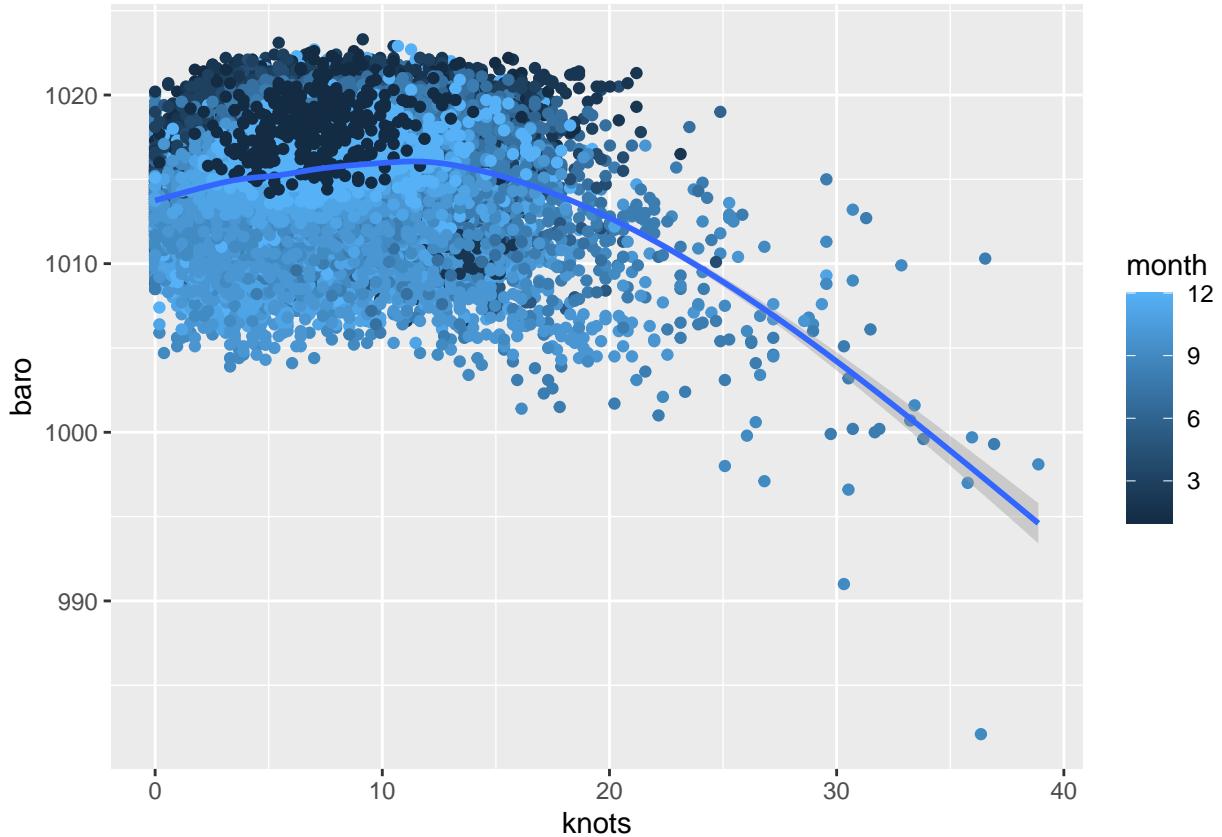
ggplot(data=data, mapping = aes(x = knots, y = baro)) +
  geom_point() +
  geom_smooth()

## 'geom_smooth()' using method = 'gam' and formula 'y ~ s(x, bs = "cs")'
```

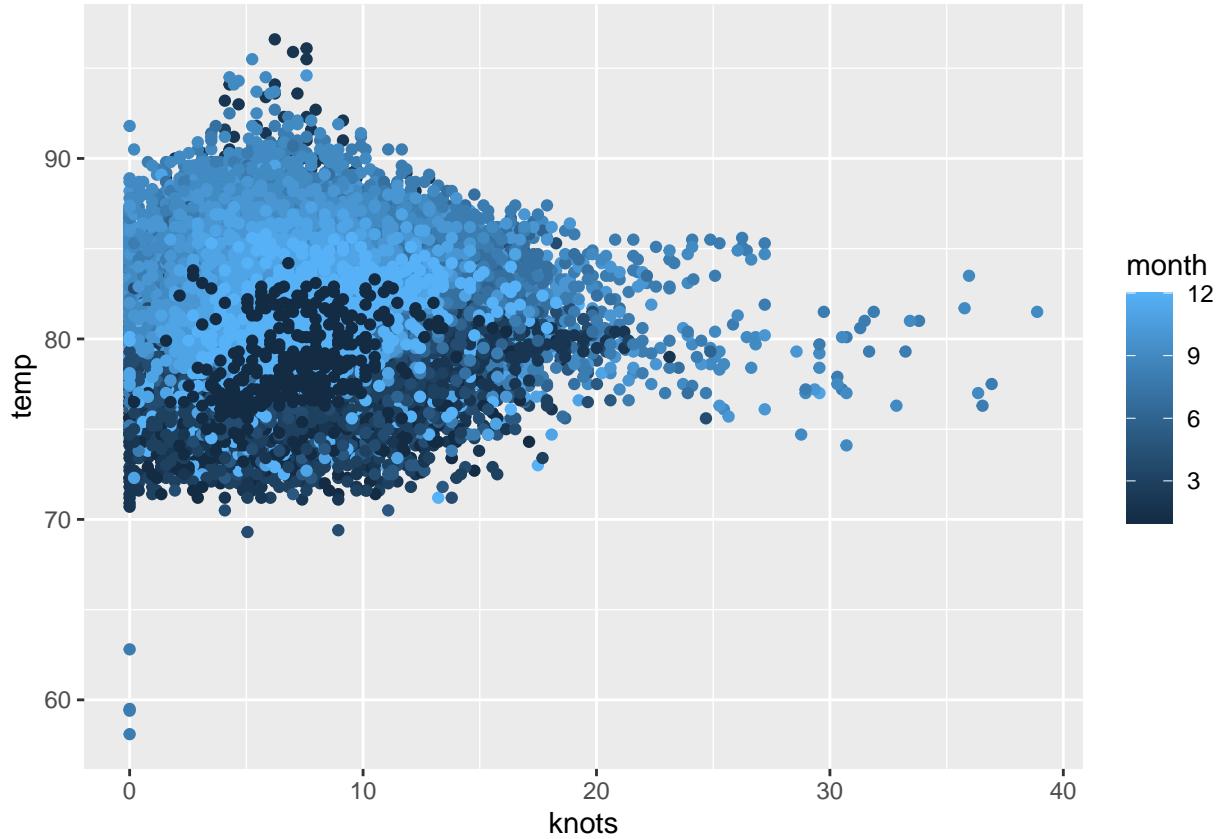


```
ggplot(data=data, mapping = aes(x = knots, y = baro)) +  
  geom_point(mapping = aes(color = month)) +  
  geom_smooth()
```

```
## 'geom_smooth()' using method = 'gam' and formula 'y ~ s(x, bs = "cs")'
```

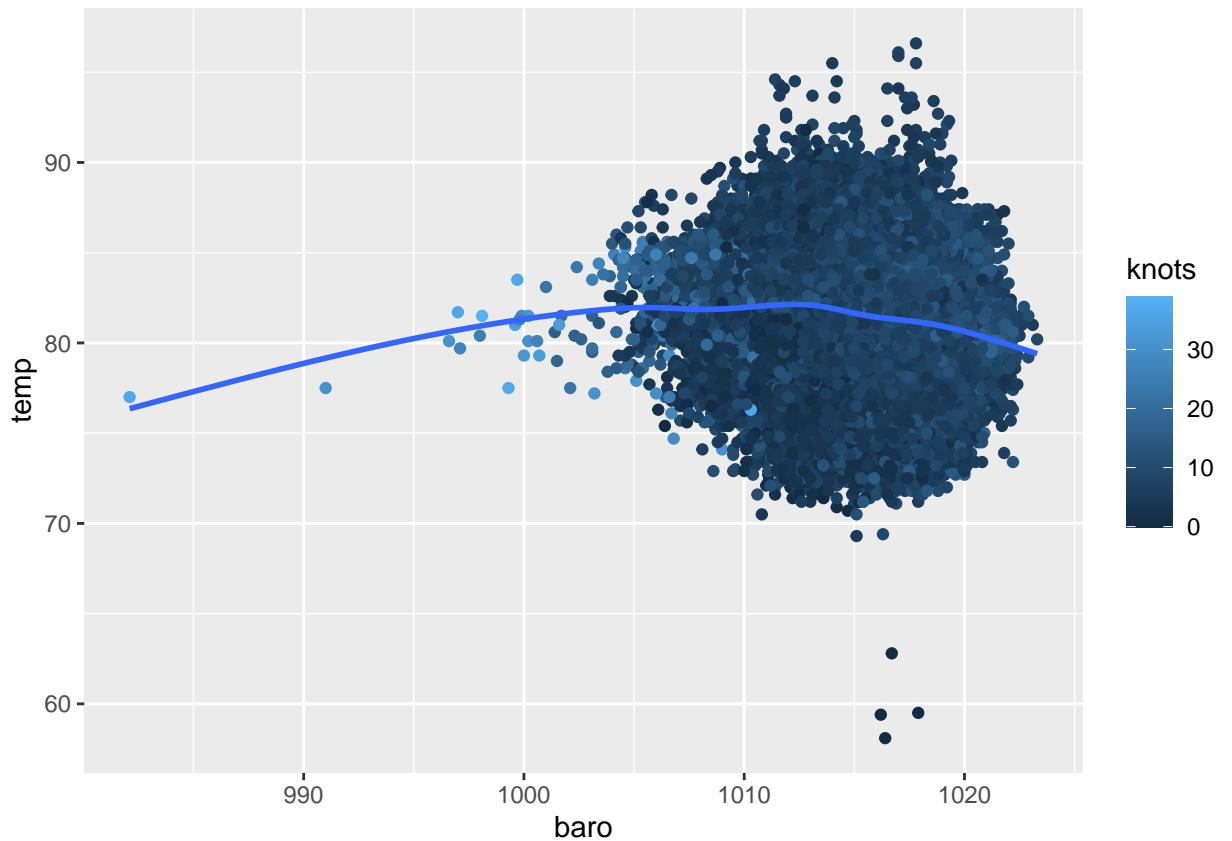


```
ggplot(data, mapping = aes(x = knots, y = temp)) +  
  geom_point(mapping = aes(color = month)) +  
  geom_smooth(data = filter(data, month == '7,8,9,10'), se = FALSE)
```

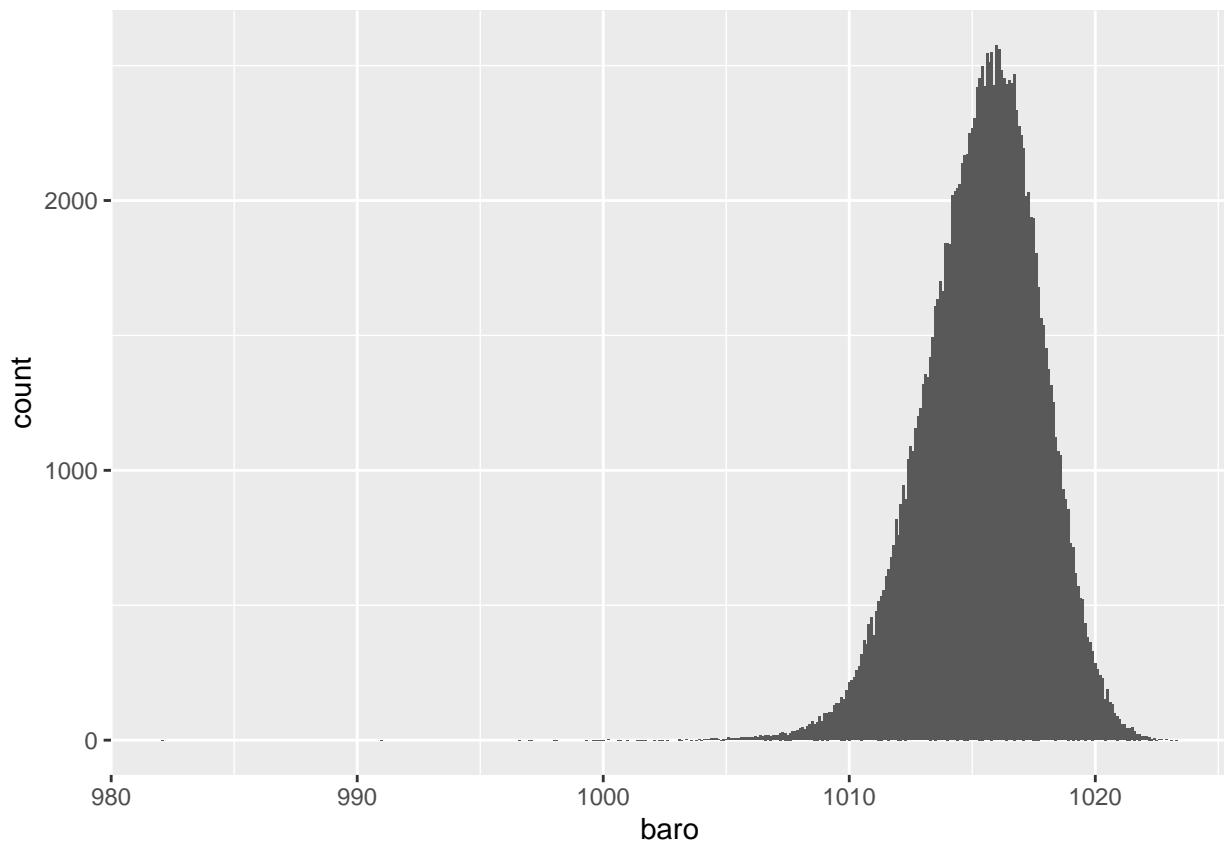


```
ggplot(data, mapping = aes(x = baro, y = temp, color = knots)) +  
  geom_point() +  
  geom_smooth(se = FALSE)
```

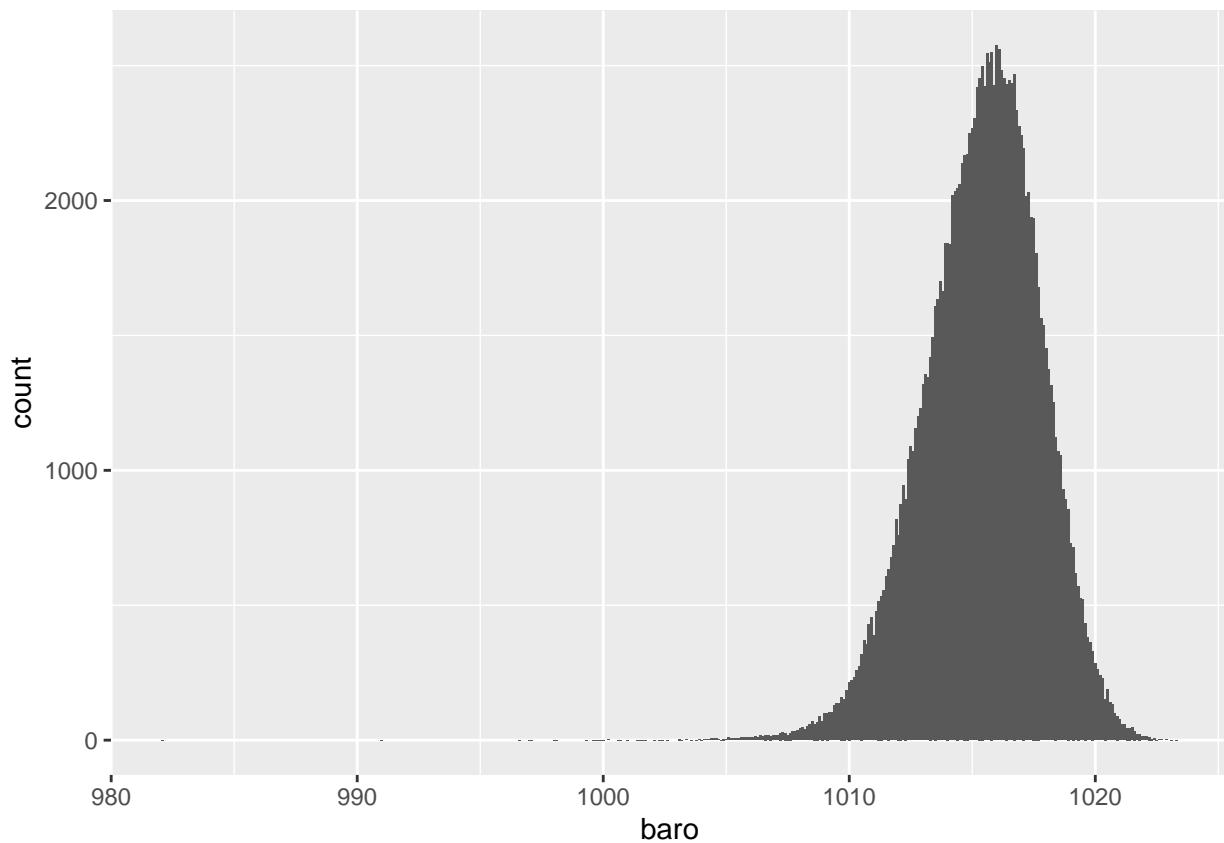
```
## 'geom_smooth()' using method = 'gam' and formula 'y ~ s(x, bs = "cs")'
```



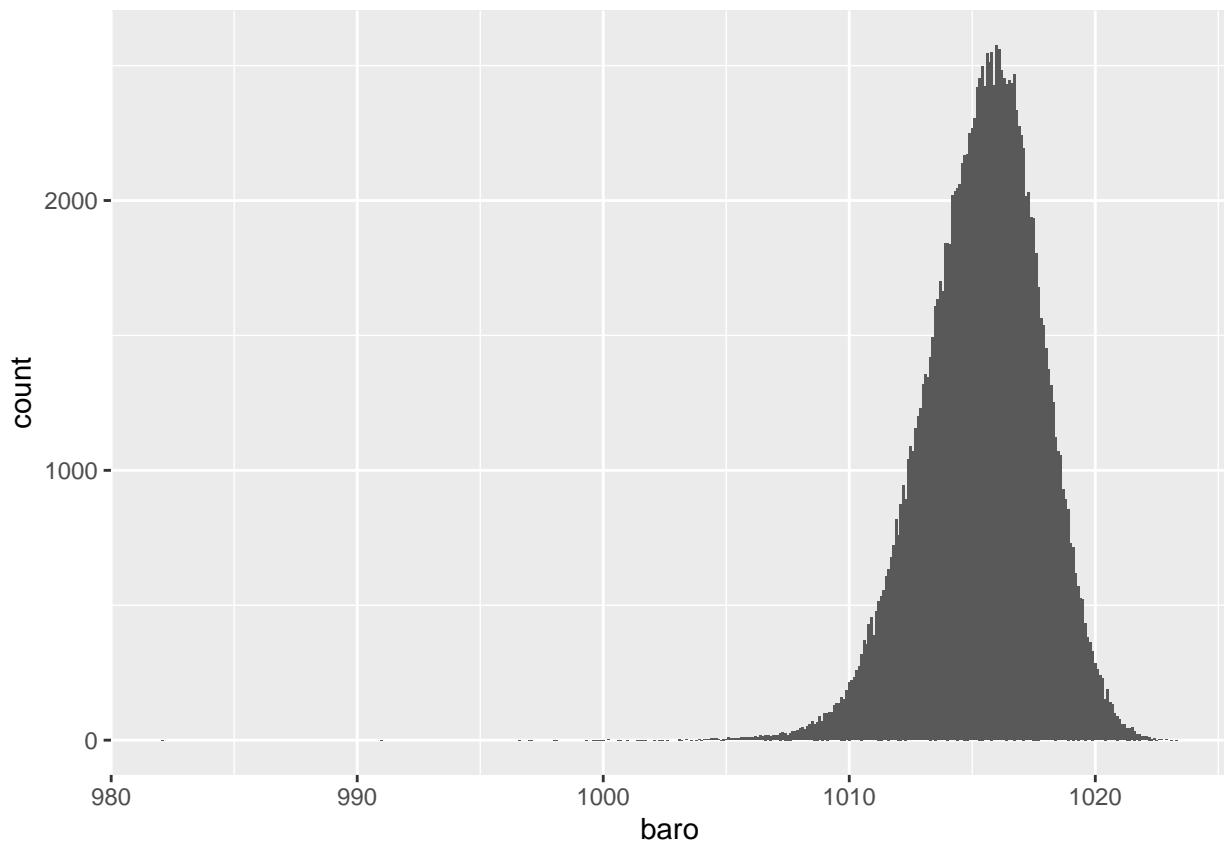
```
ggplot(data=data) +  
  geom_bar(mapping = aes(x = baro, colour = temp))
```



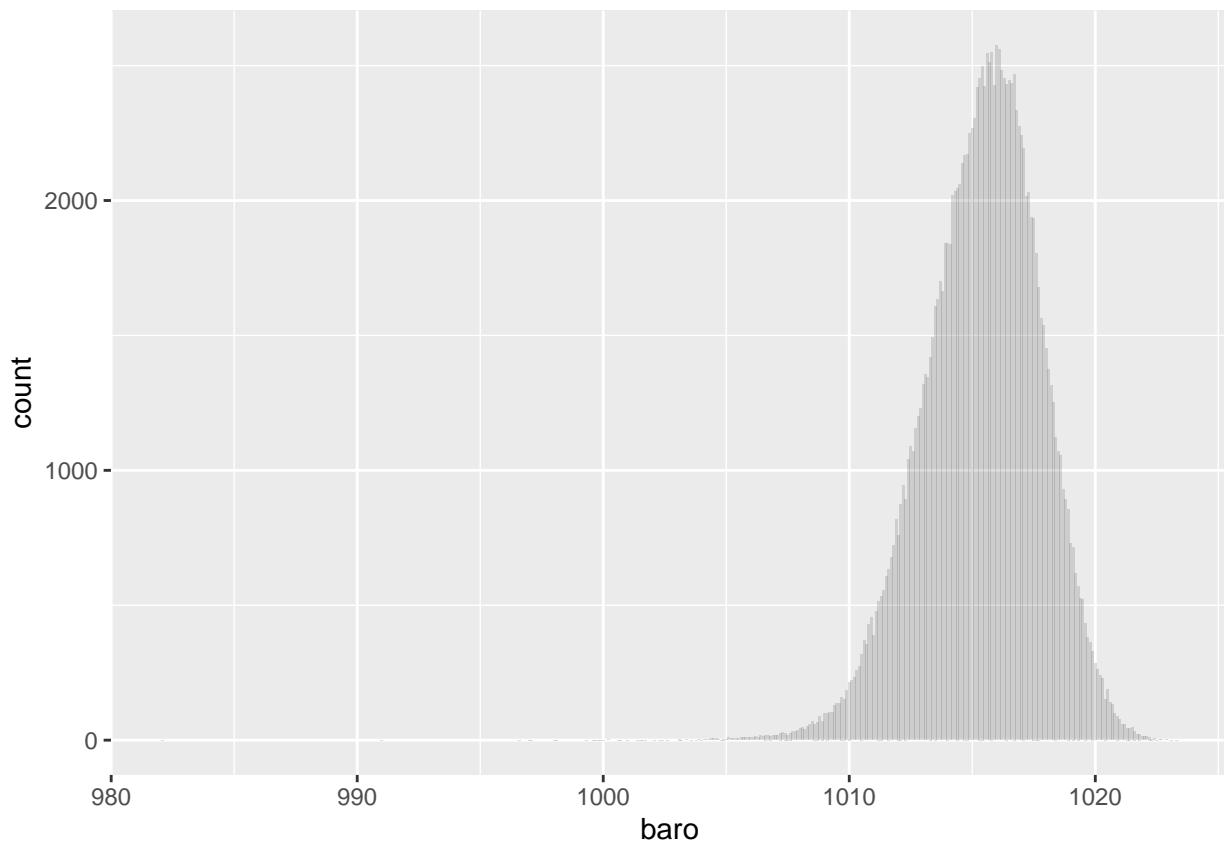
```
ggplot(data=data) +  
  geom_bar(mapping = aes(x = baro, fill = knots.gust))
```



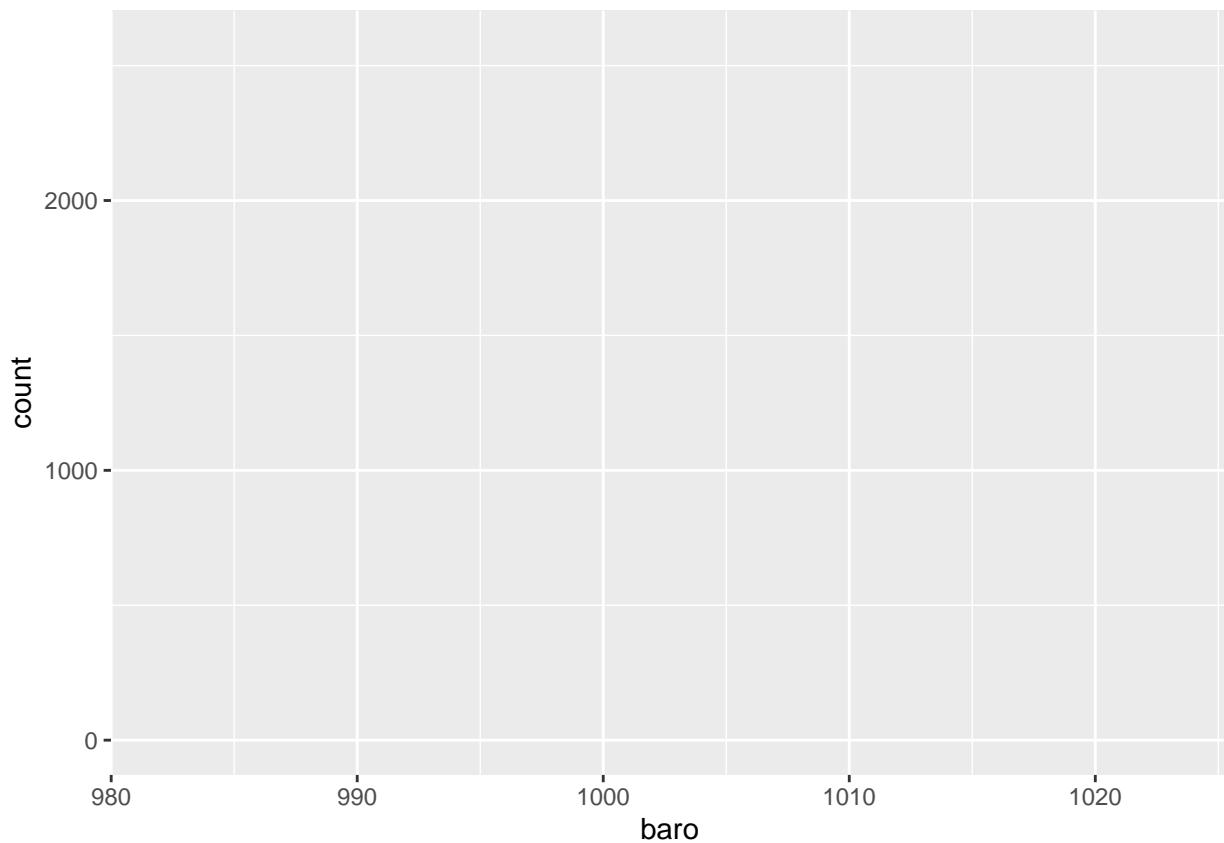
```
ggplot(data=data) +  
  geom_bar(mapping = aes(x = baro, fill = knots))
```



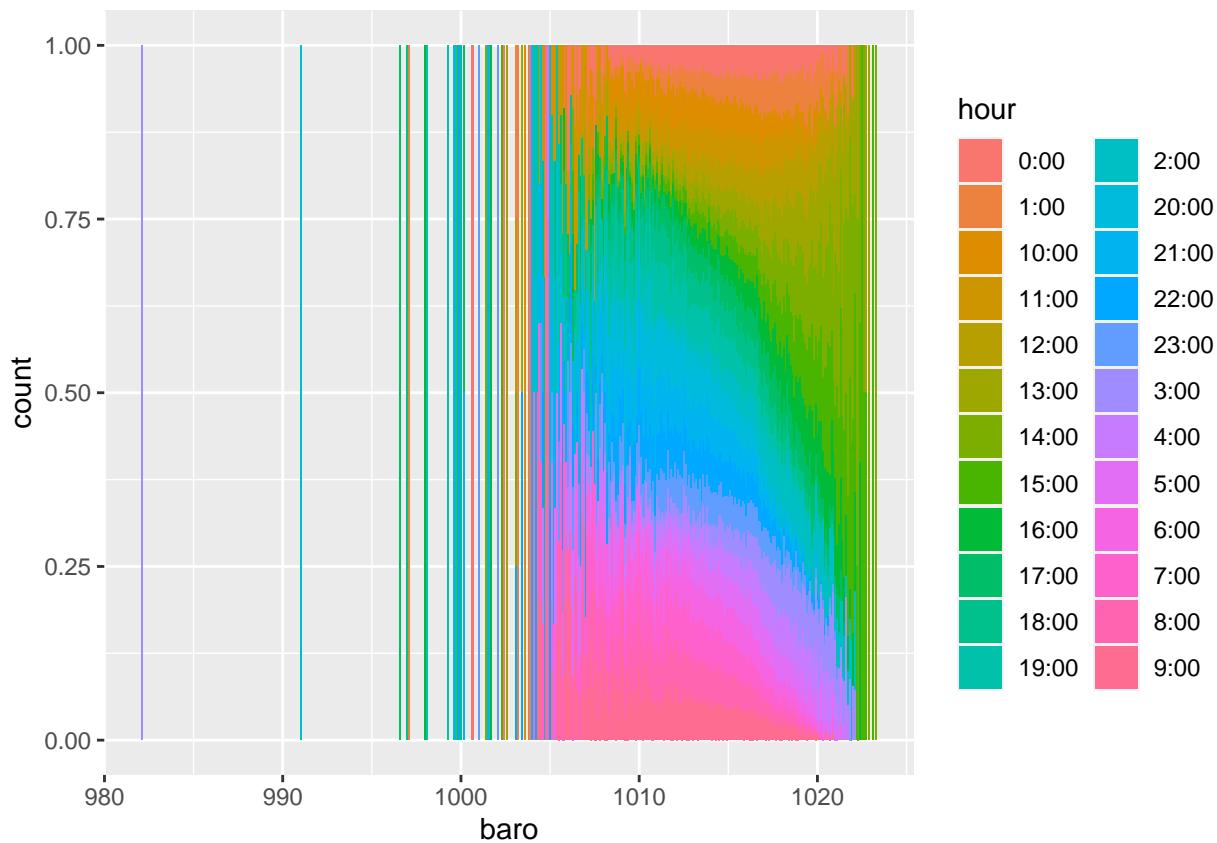
```
ggplot(data=data, mapping = aes(x = baro, fill = temp.w)) +  
  geom_bar(alpha = 1/5, position = "identity")
```



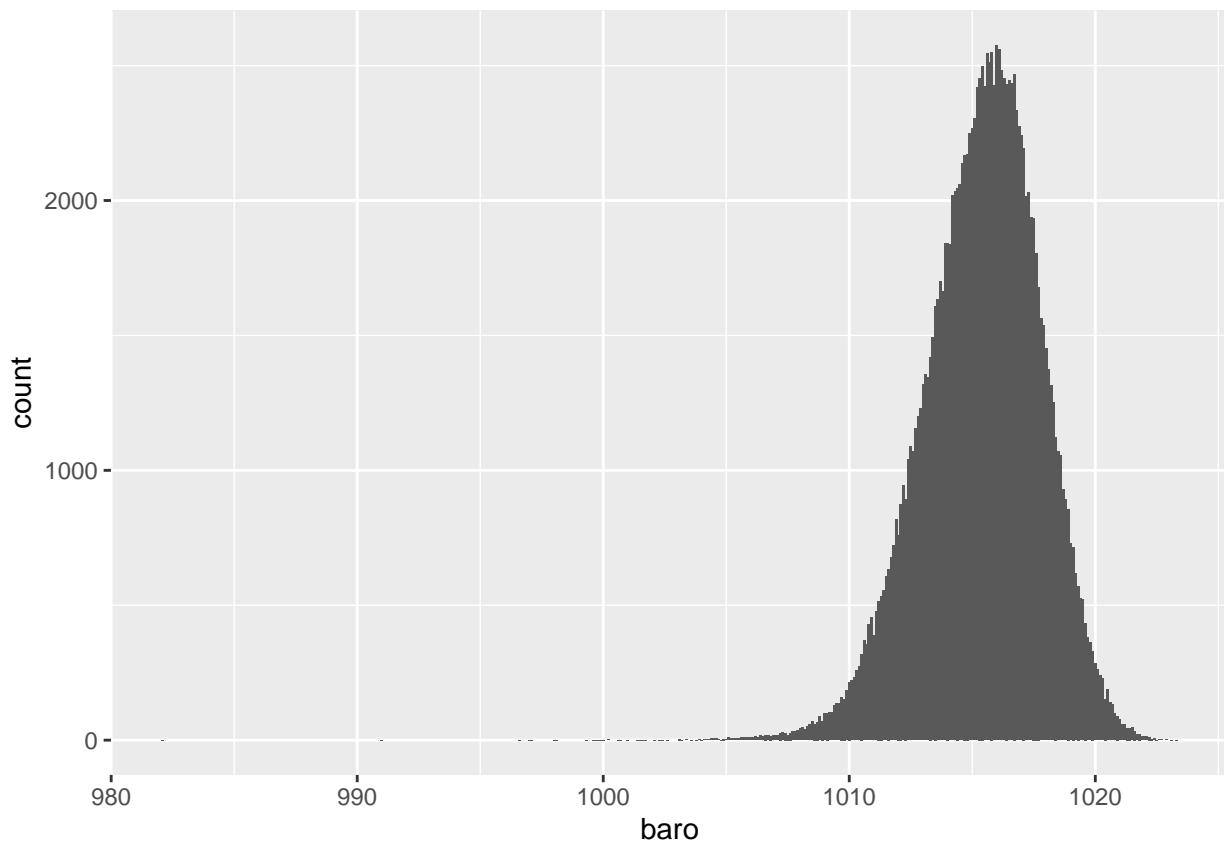
```
ggplot(data=data, mapping = aes(x = baro, colour = month)) +  
  geom_bar(fill = NA, position = "identity")
```



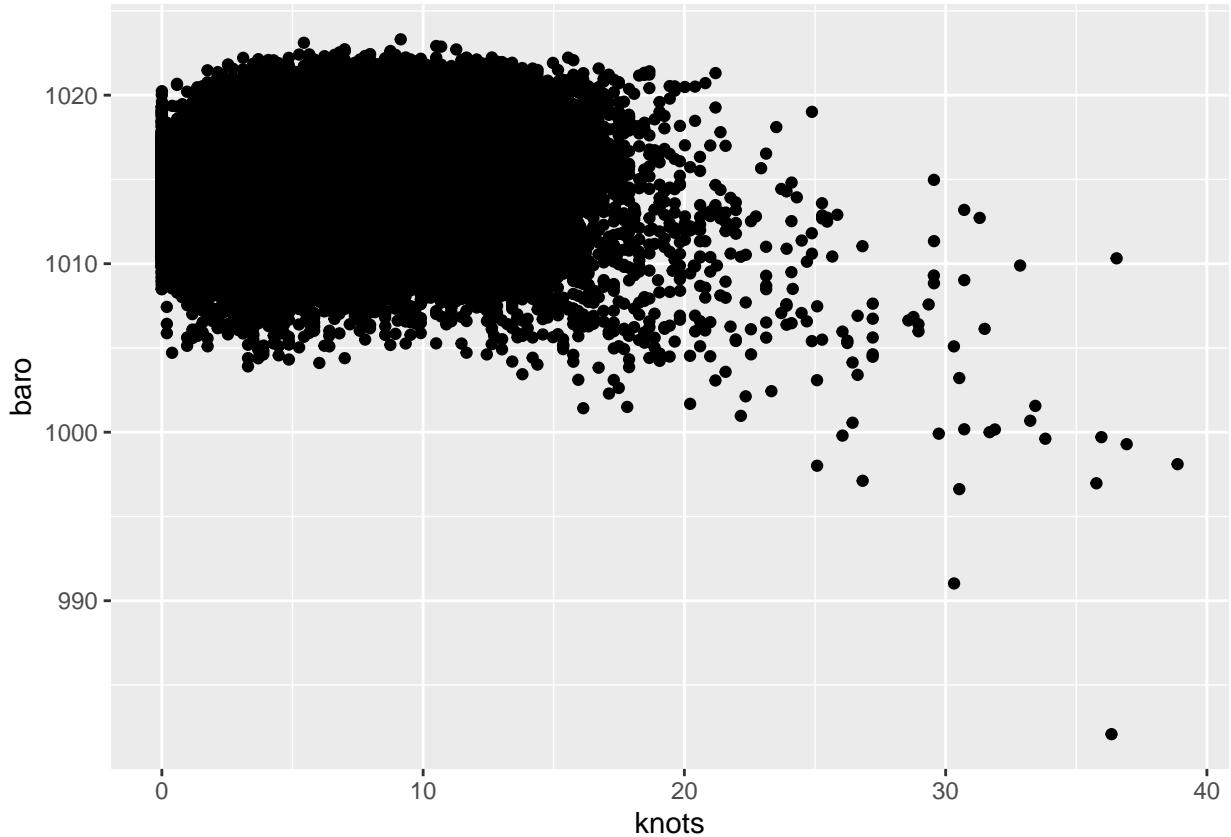
```
ggplot(data=data) +  
  geom_bar(mapping = aes(x = baro, fill = hour), position = "fill")
```



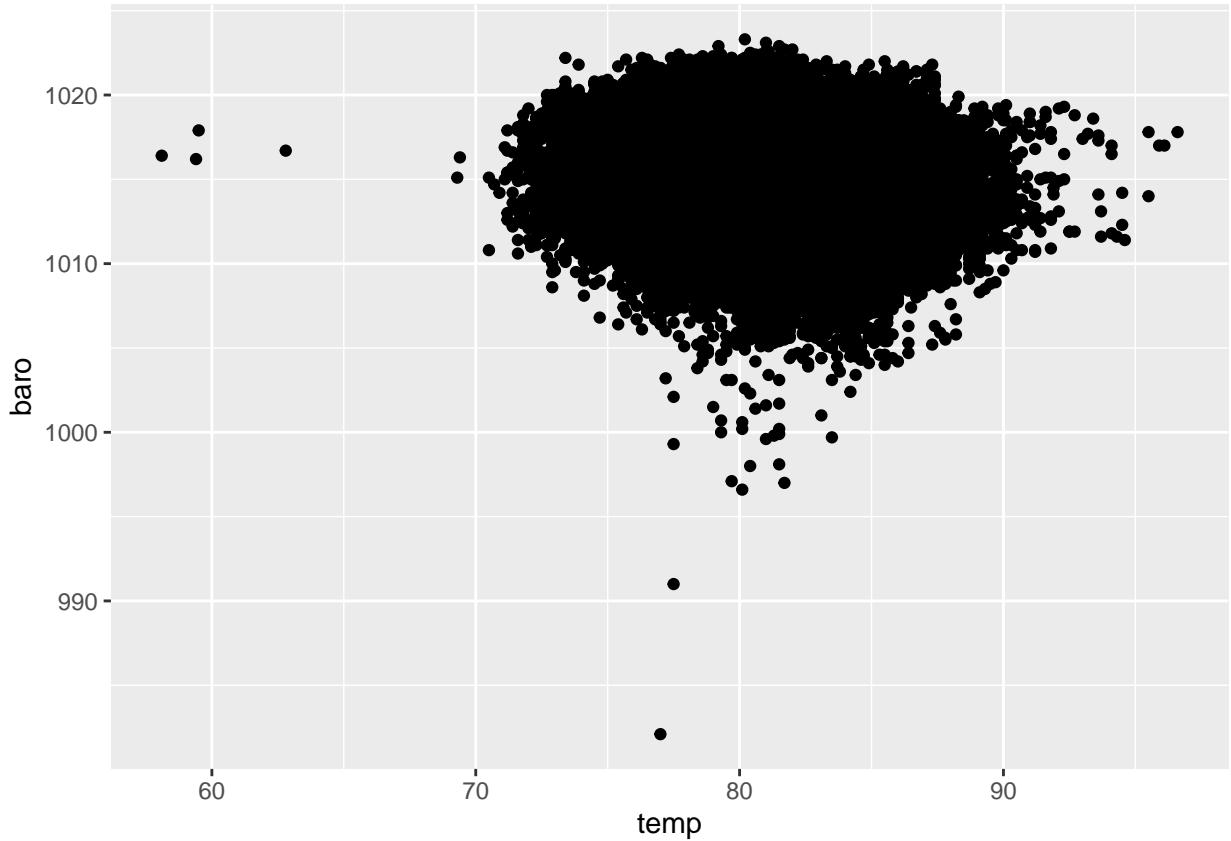
```
ggplot(data=data) +  
  geom_bar(mapping = aes(x = baro, fill = month), position = "dodge")
```



```
ggplot(data=data) +  
  geom_point(mapping = aes(x = knots, y = baro), position = "jitter")
```

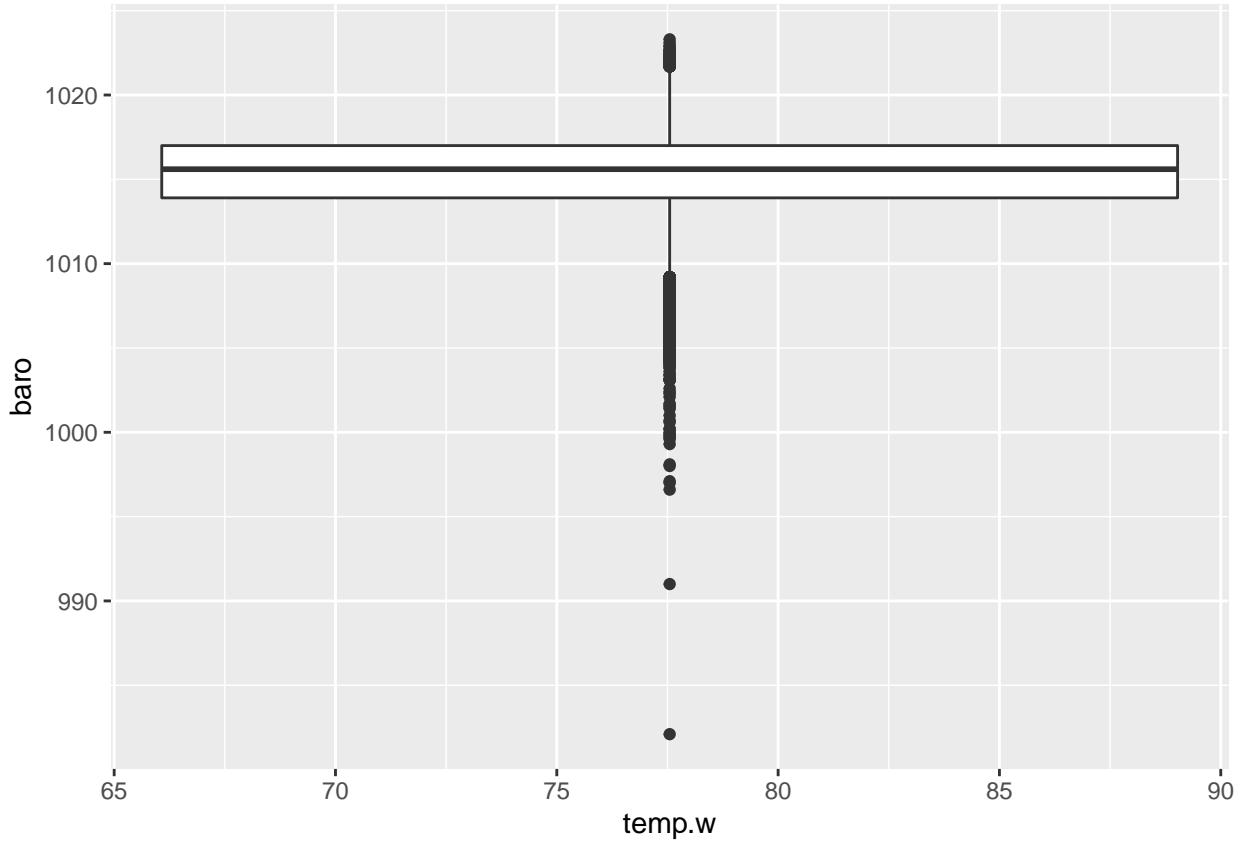


```
ggplot(data=data, mapping = aes(x = temp, y = baro)) +  
  geom_point()
```



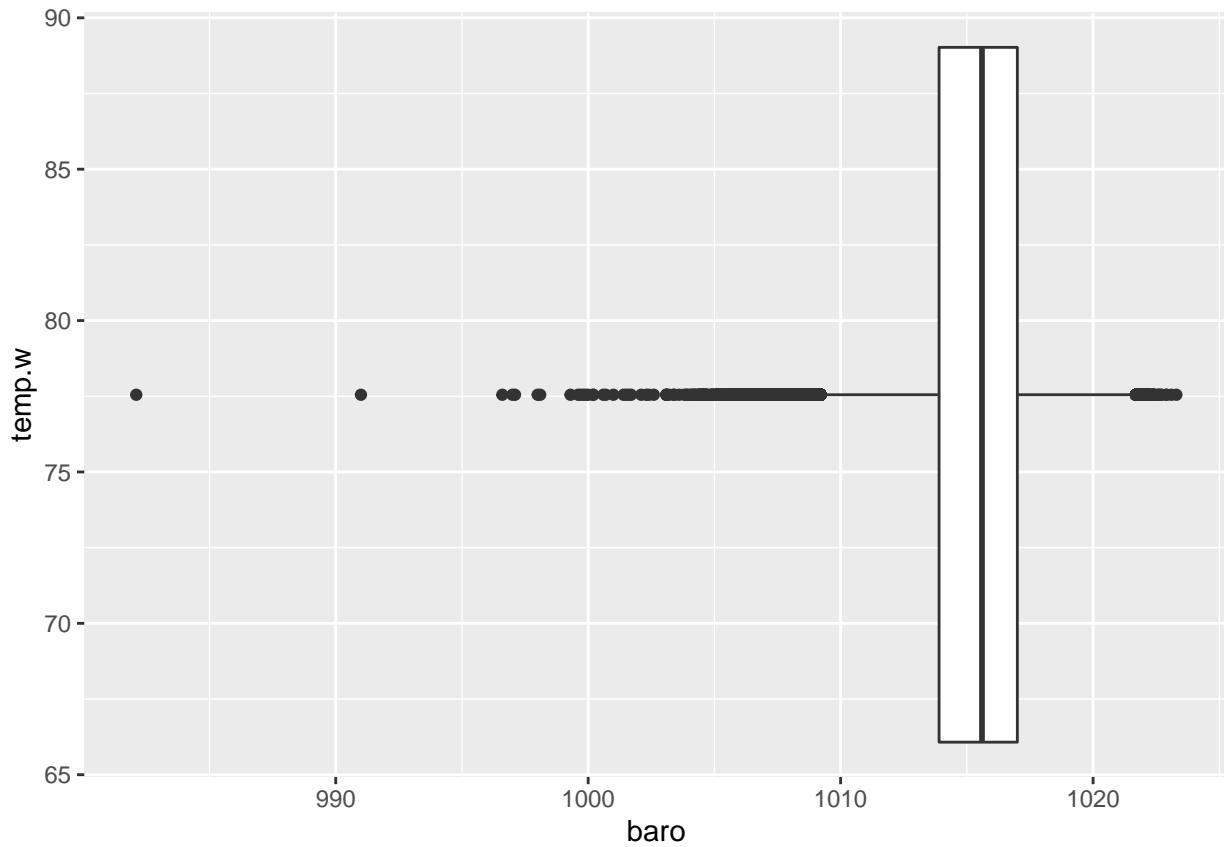
```
ggplot(data=data, mapping = aes(x = temp.w, y = baro)) +  
  geom_boxplot()
```

```
## Warning: Continuous x aesthetic -- did you forget aes(group=...)?
```

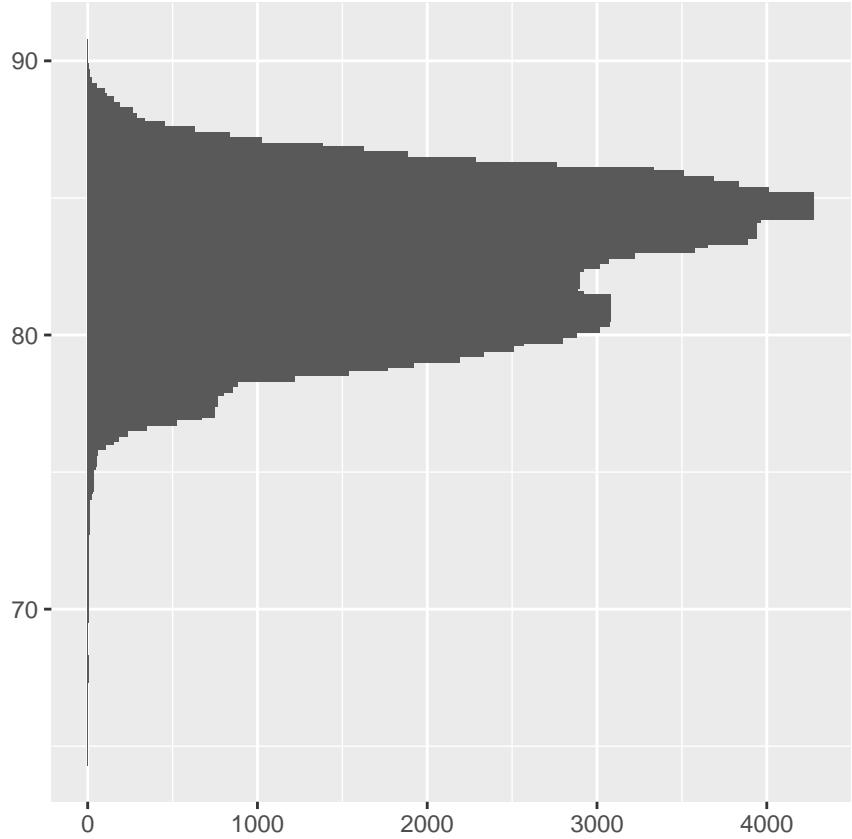


```
ggplot(data=data, mapping = aes(x = temp.w, y = baro)) +  
  geom_boxplot() +  
  coord_flip()
```

```
## Warning: Continuous x aesthetic -- did you forget aes(group=...)?
```



```
bar <- ggplot(data=data) +  
  geom_bar(  
    mapping = aes(x = temp.w, fill = temp),  
    show.legend = FALSE,  
    width = 1  
  ) +  
  theme(aspect.ratio = 1) +  
  labs(x = NULL, y = NULL)  
  
bar + coord_flip()  
  
## Warning: position_stack requires non-overlapping x intervals
```



```
bar + coord_polar()
```

```
## Warning: position_stack requires non-overlapping x intervals
```

