

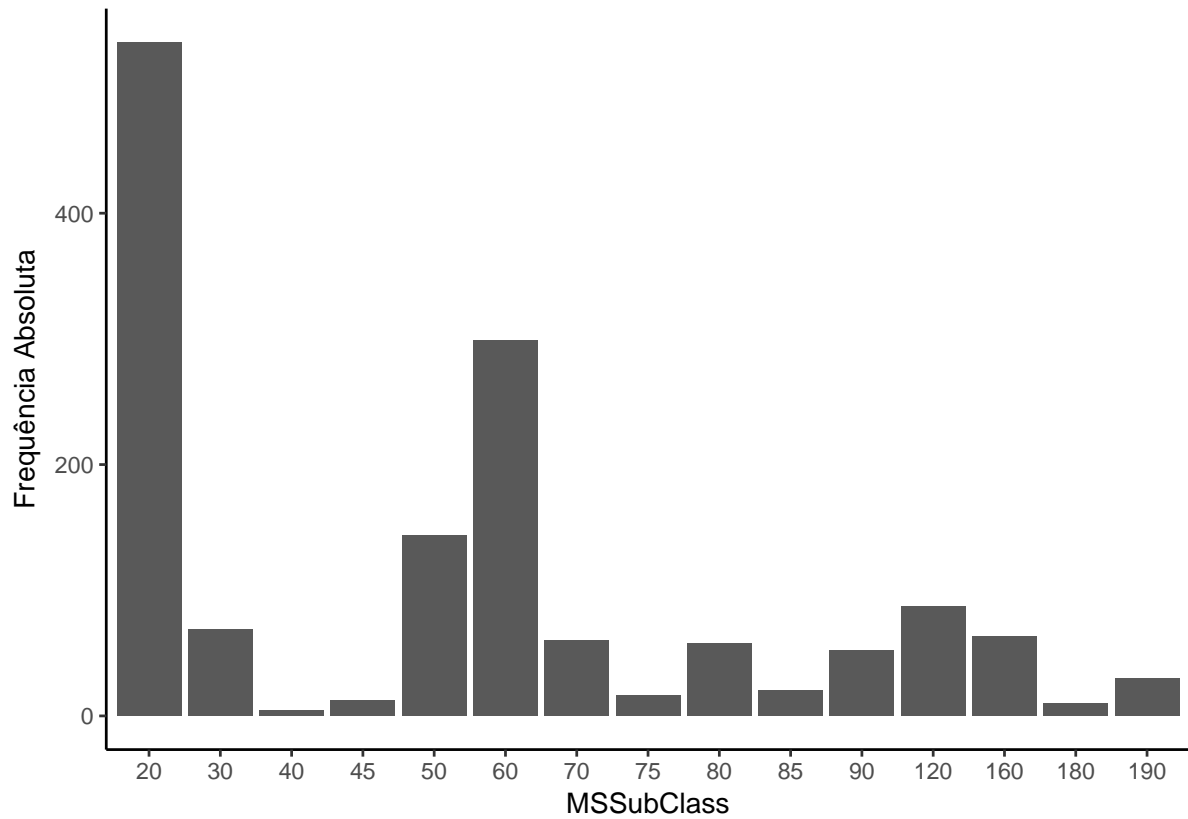
Análise Exploratória

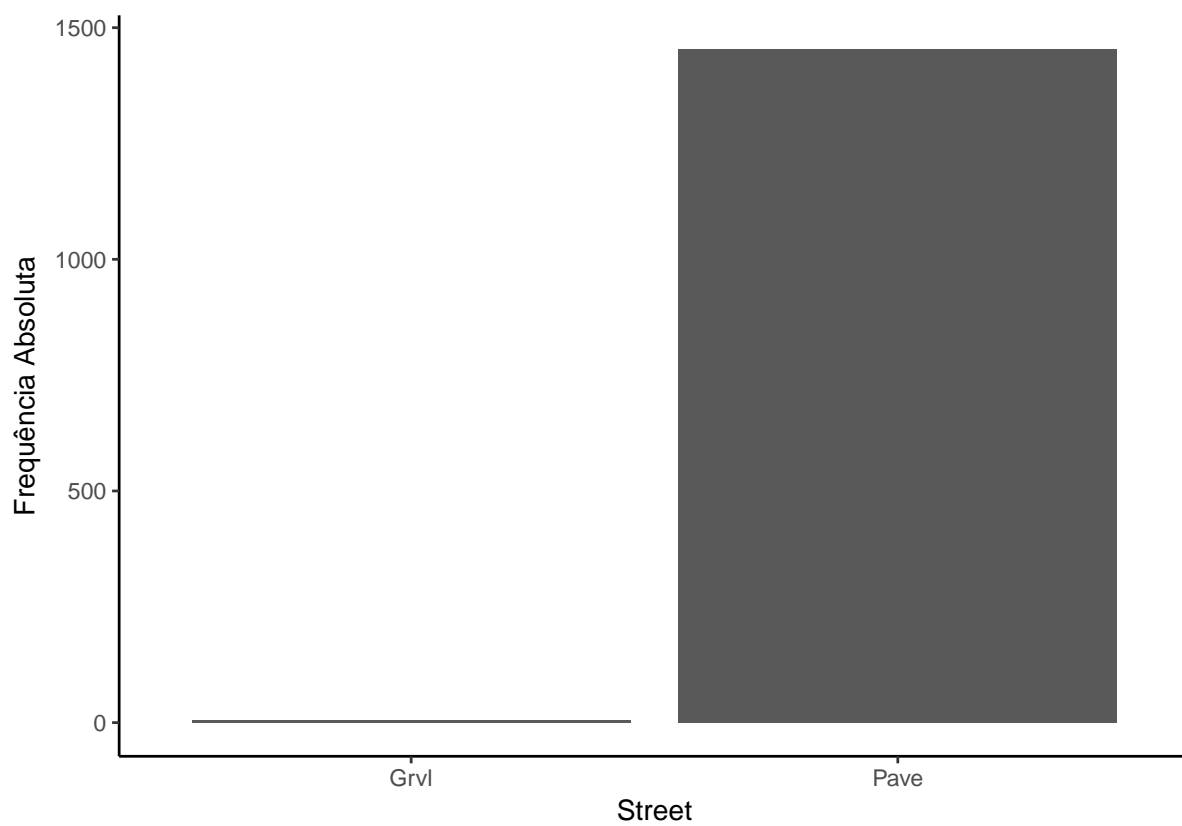
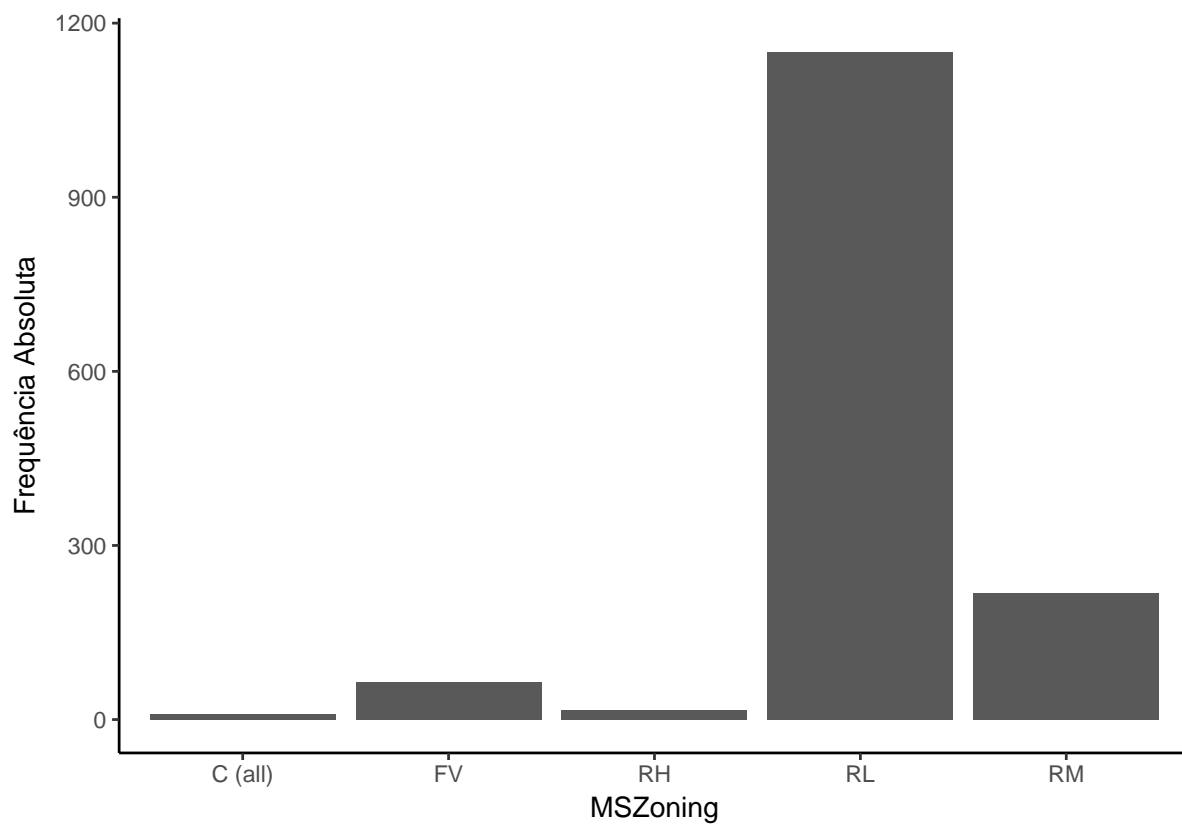
Ossada R. e Hamaguchi L.

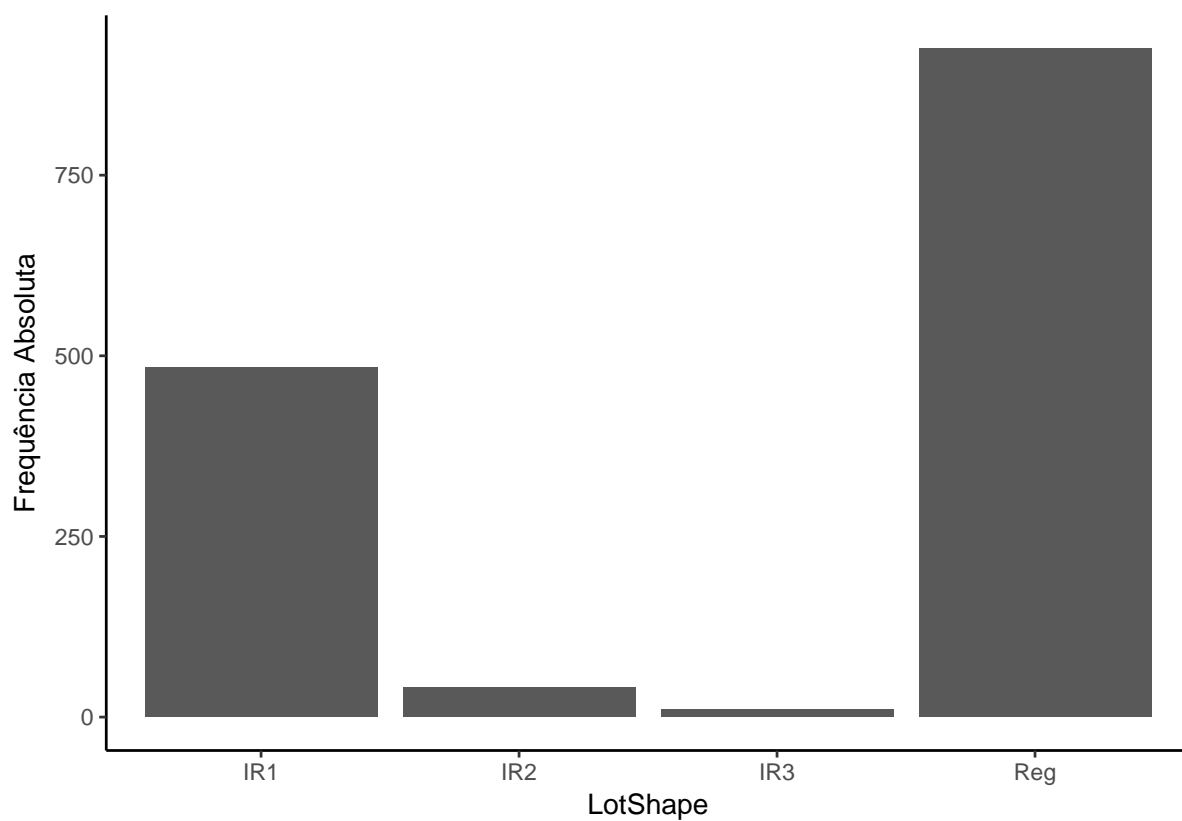
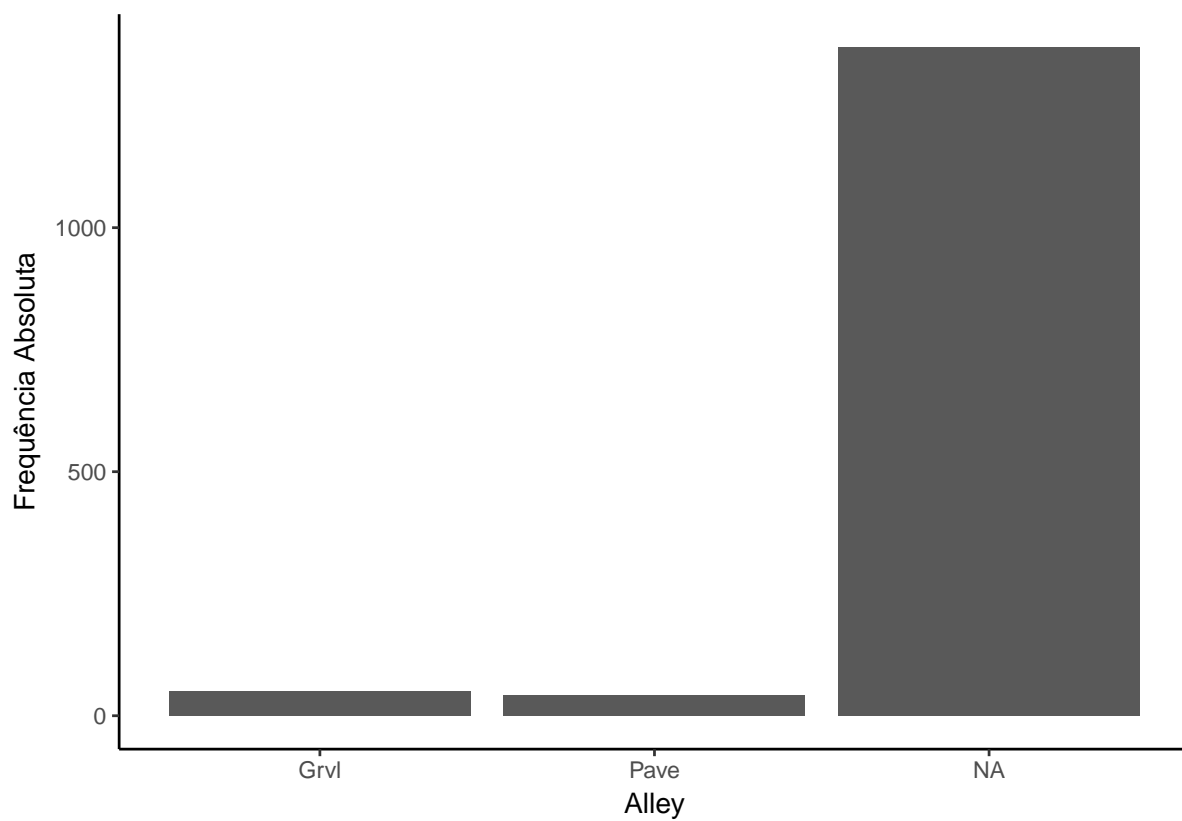
14 de julho de 2017

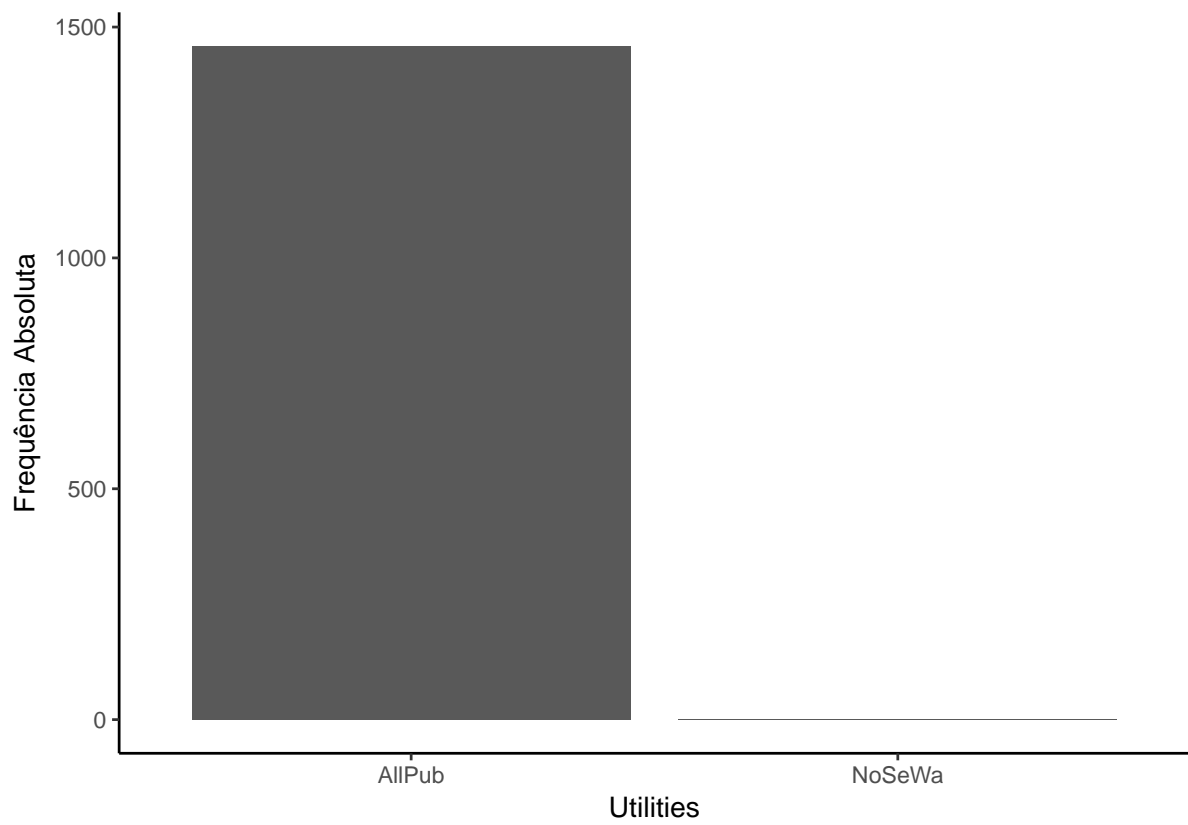
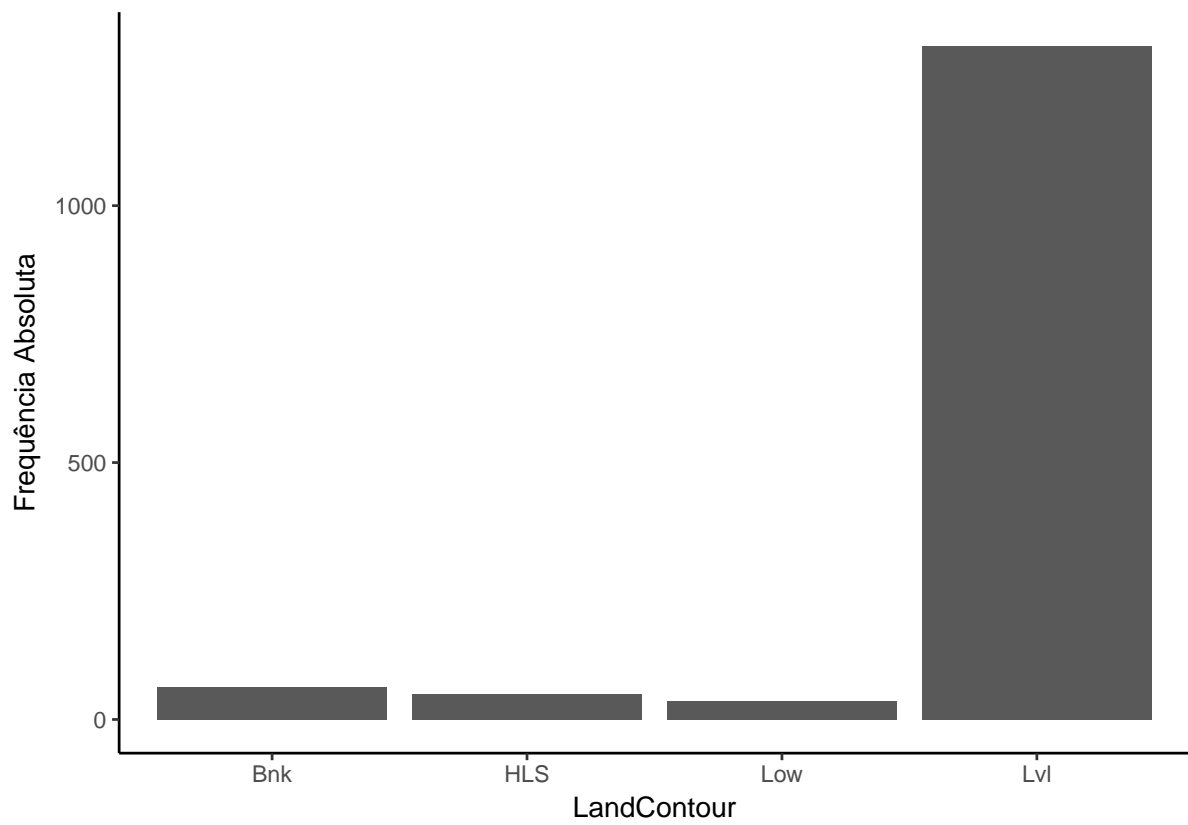
1 ANÁLISE EXPLORATÓRIA DOS DADOS

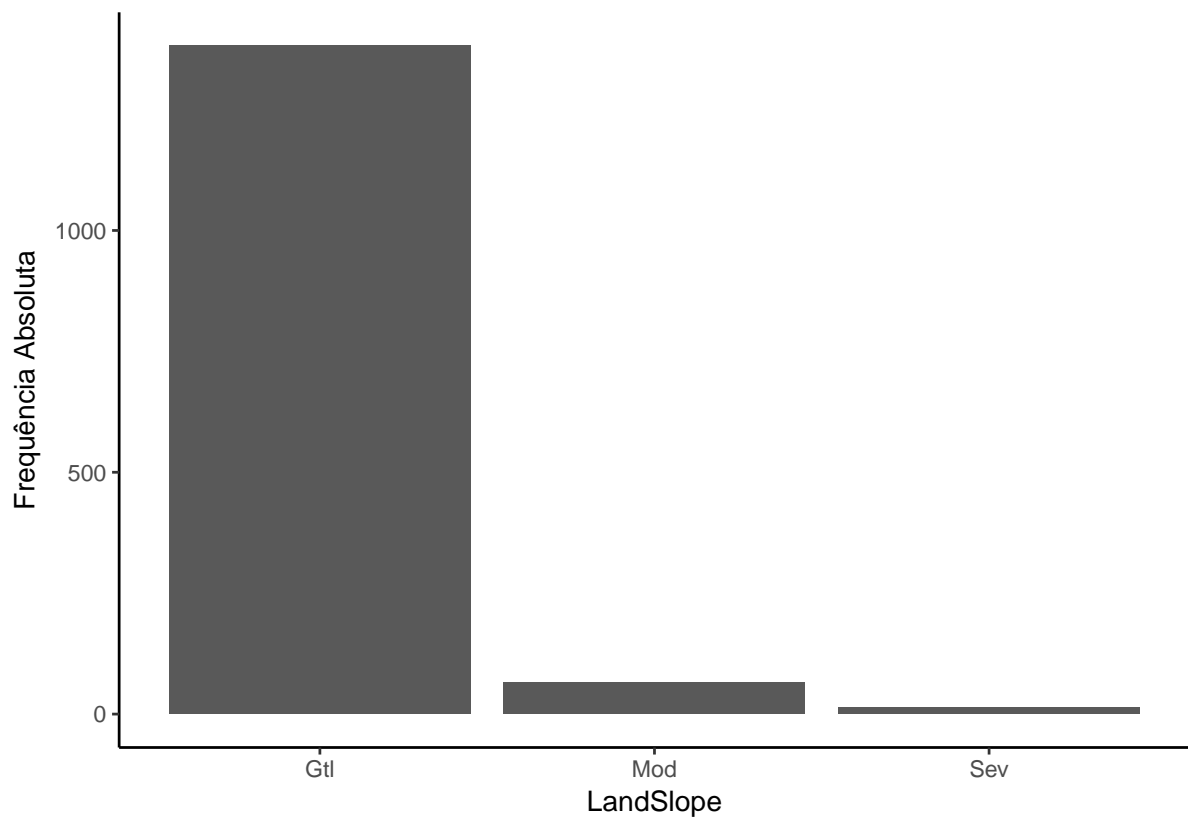
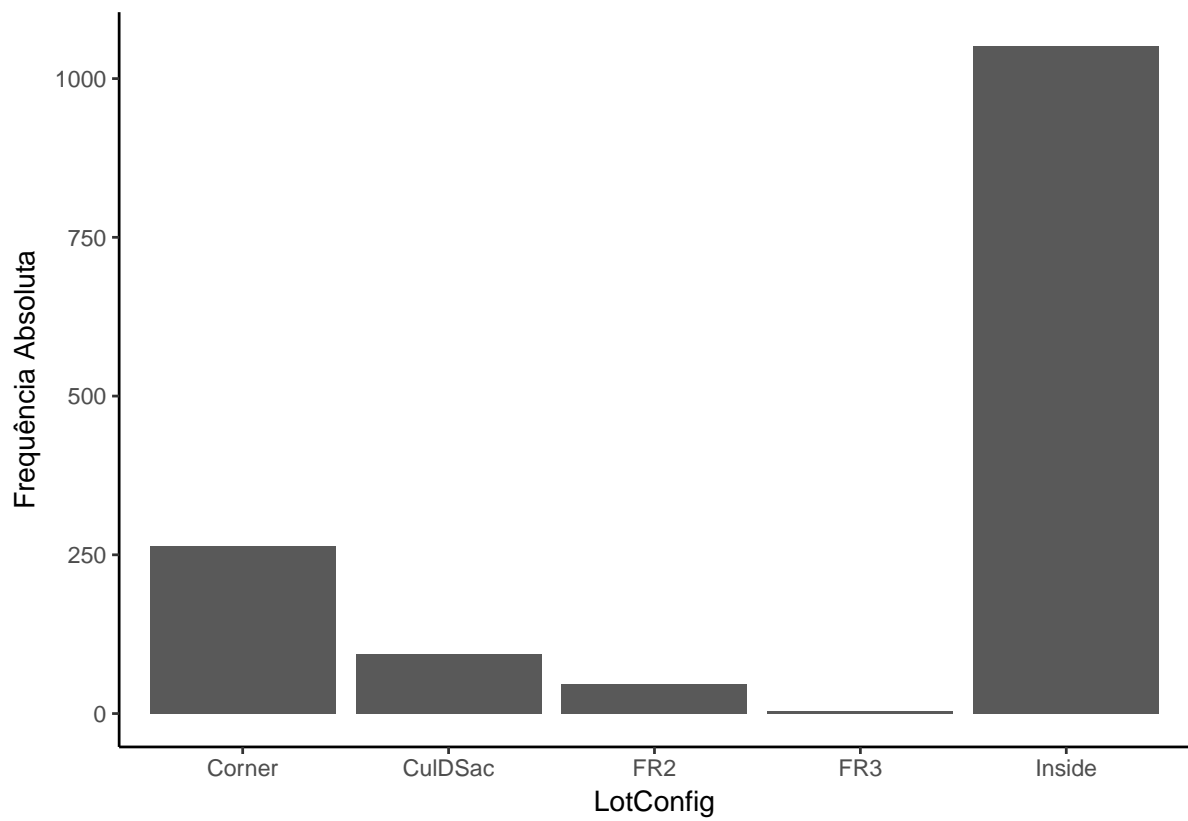
1.1 GRÁFICOS DAS VARIÁVEIS QUALITATIVAS

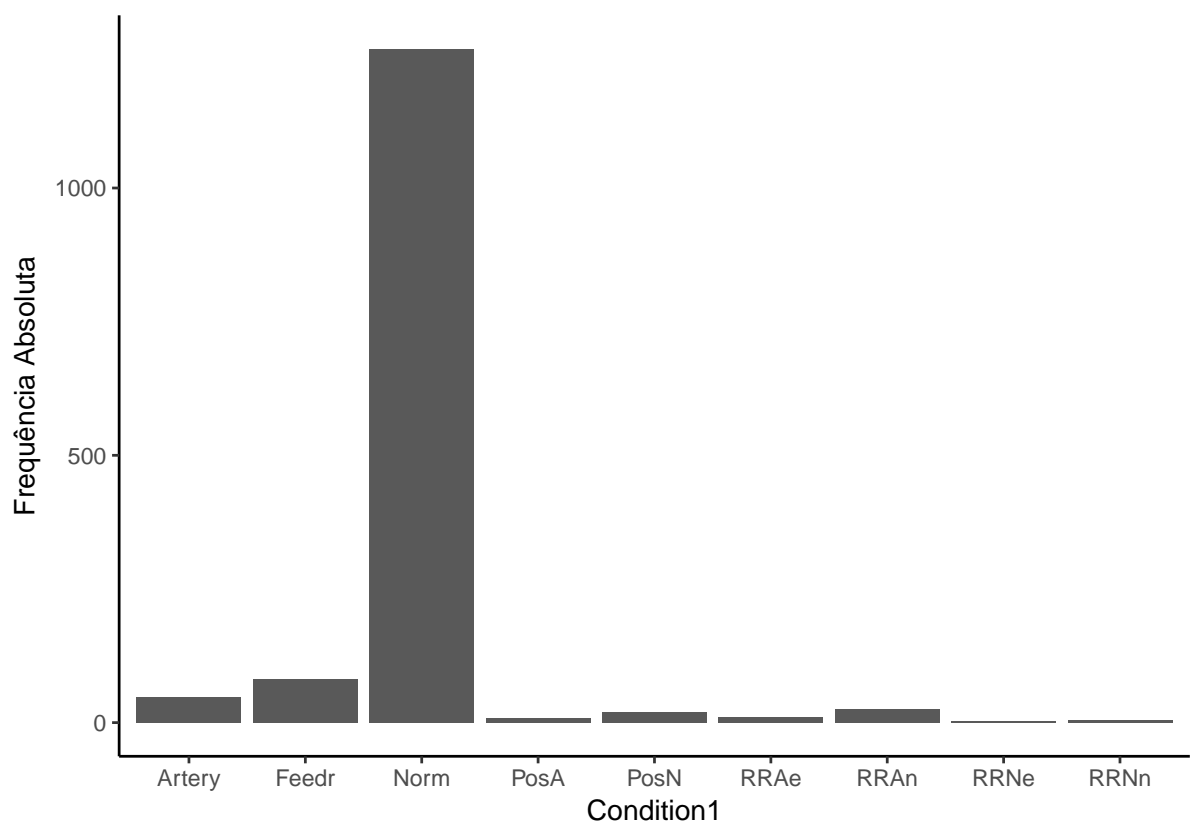
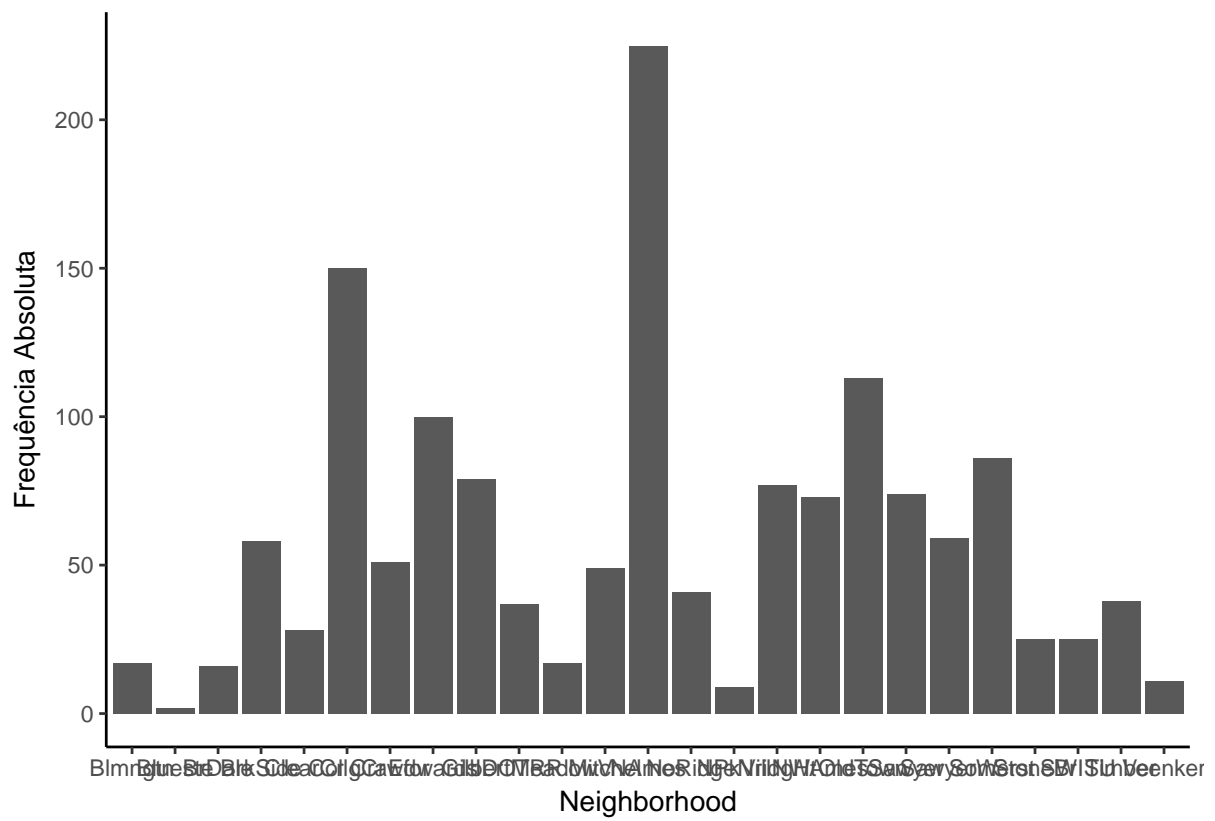


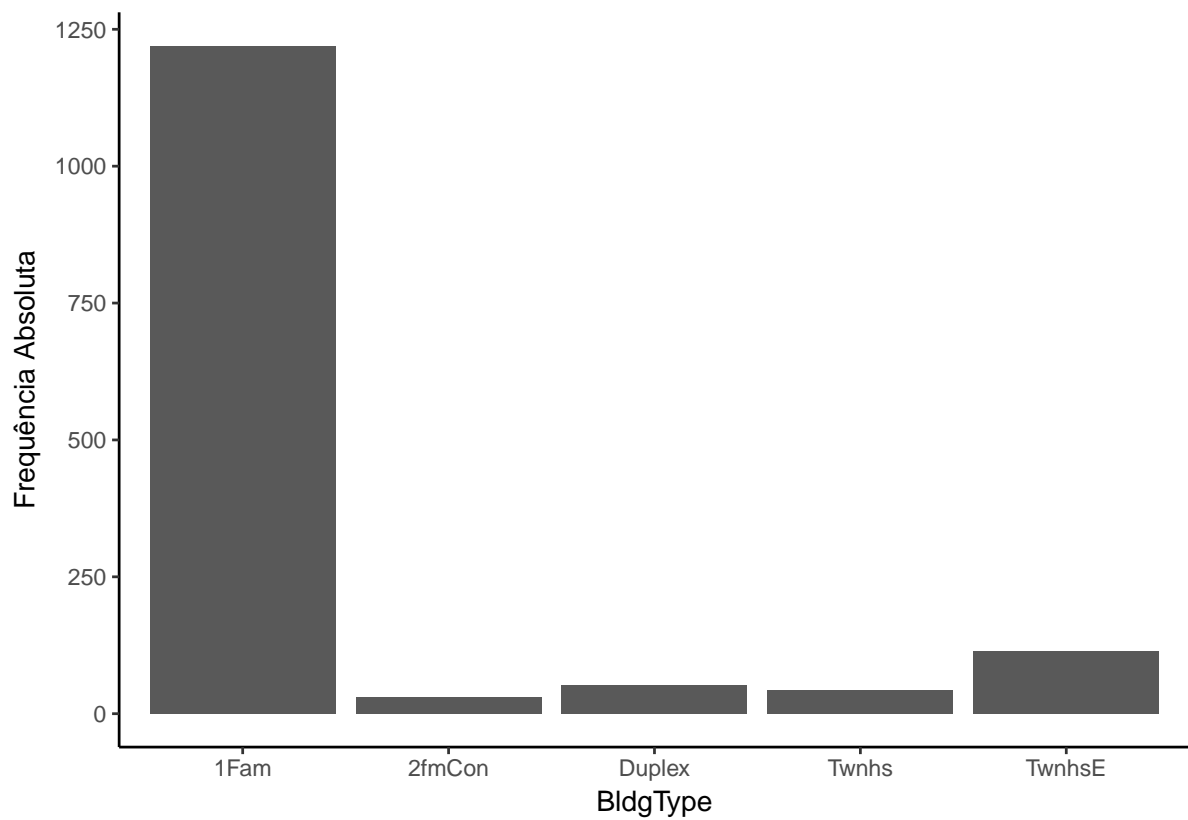
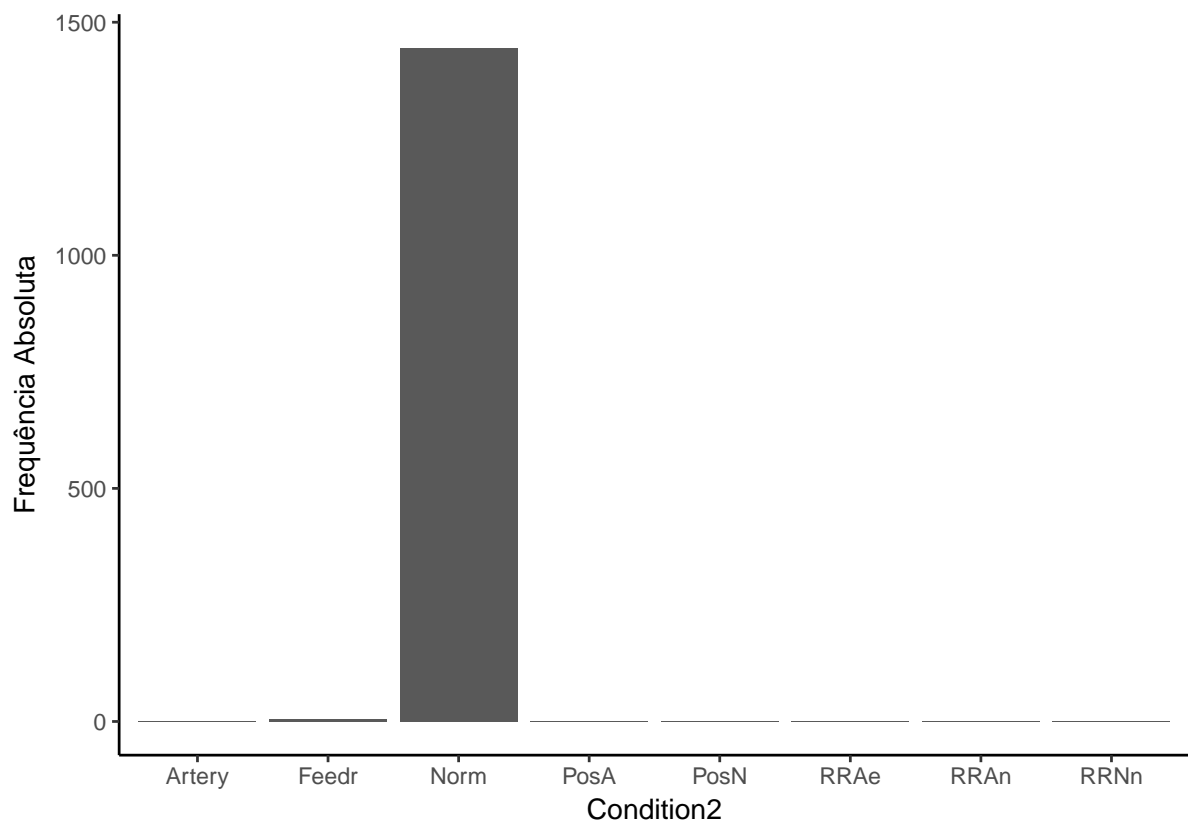


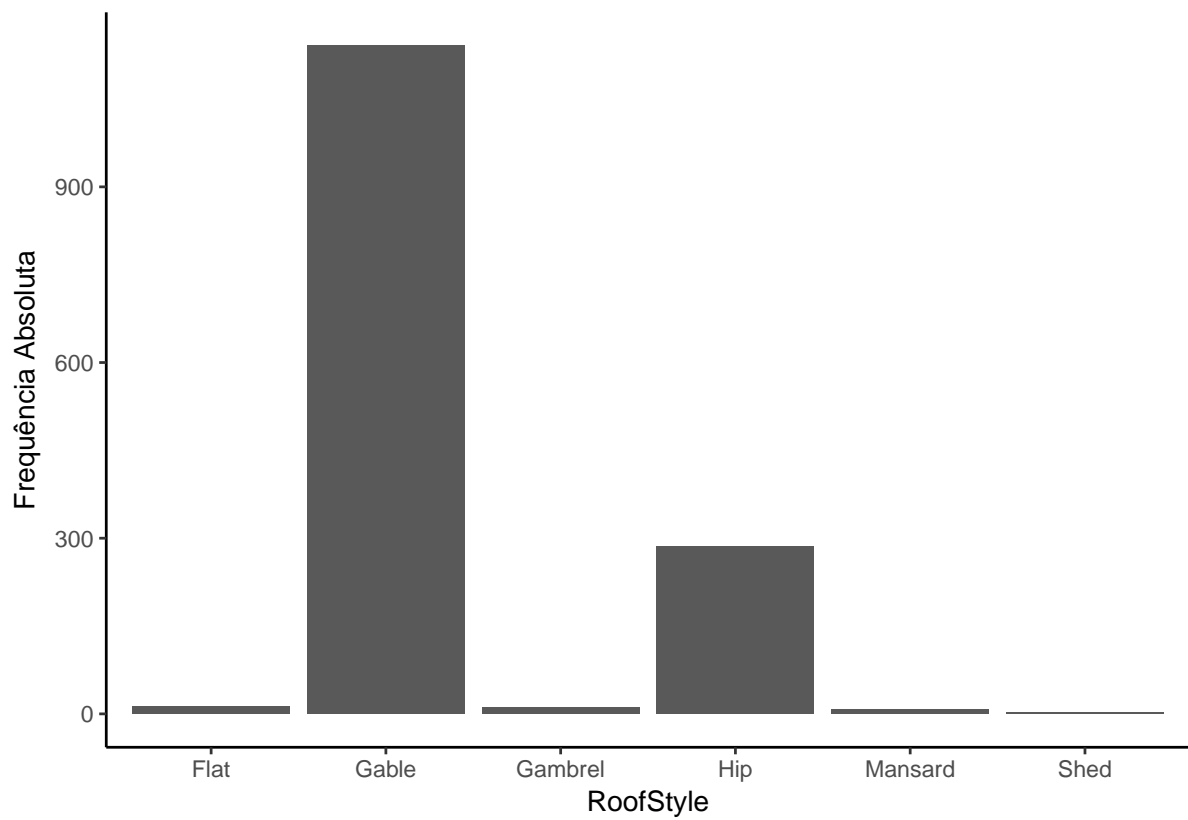
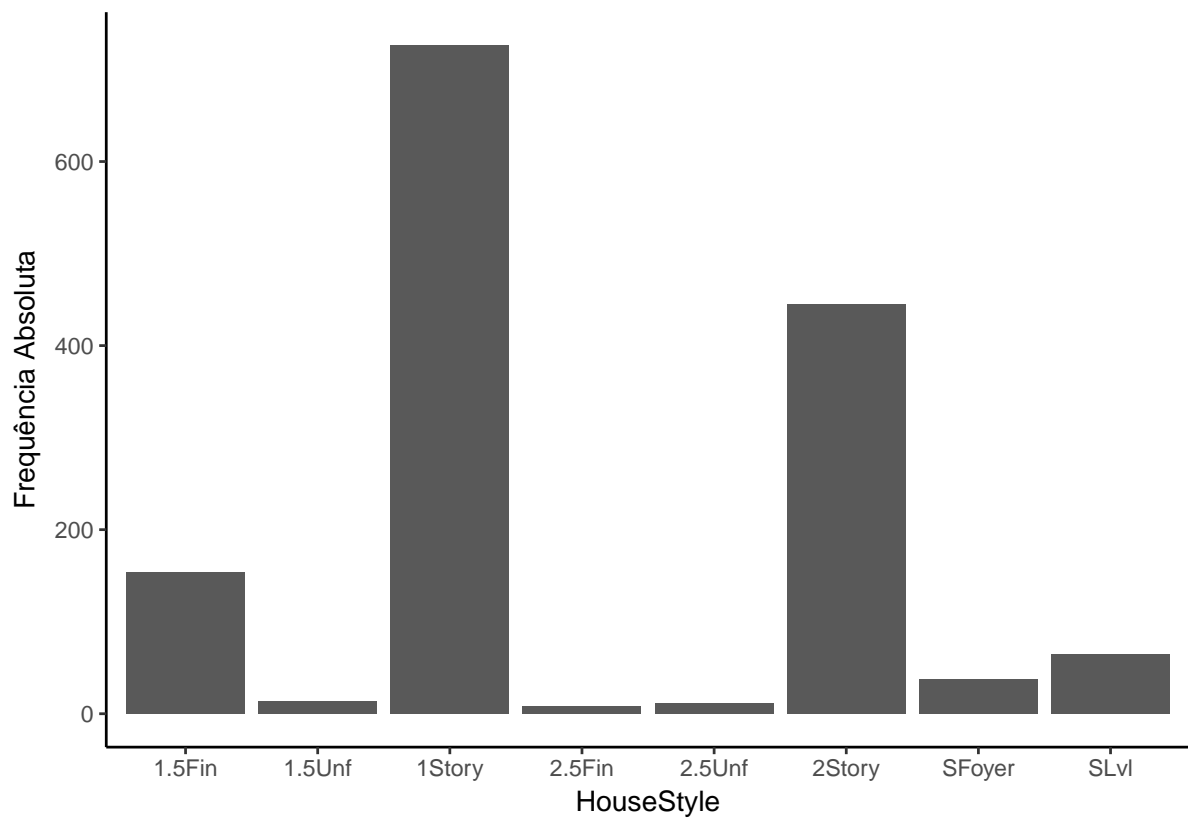


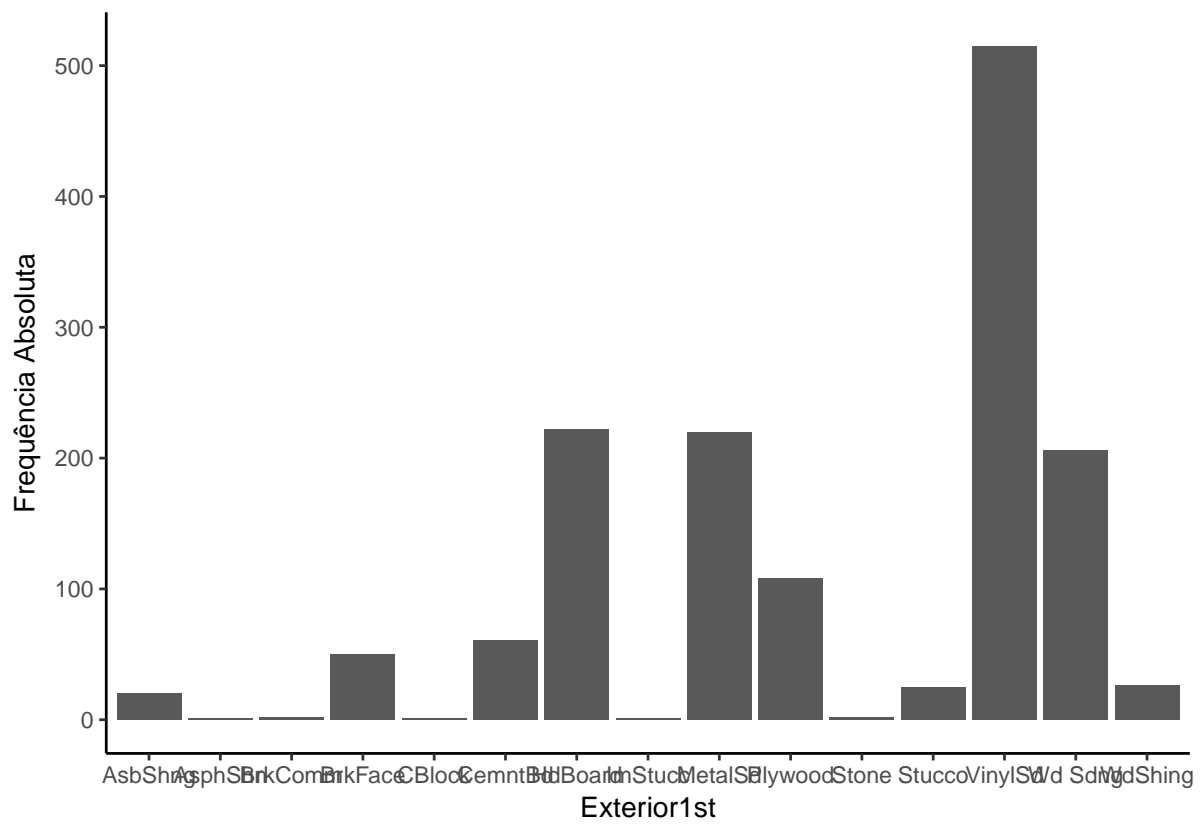
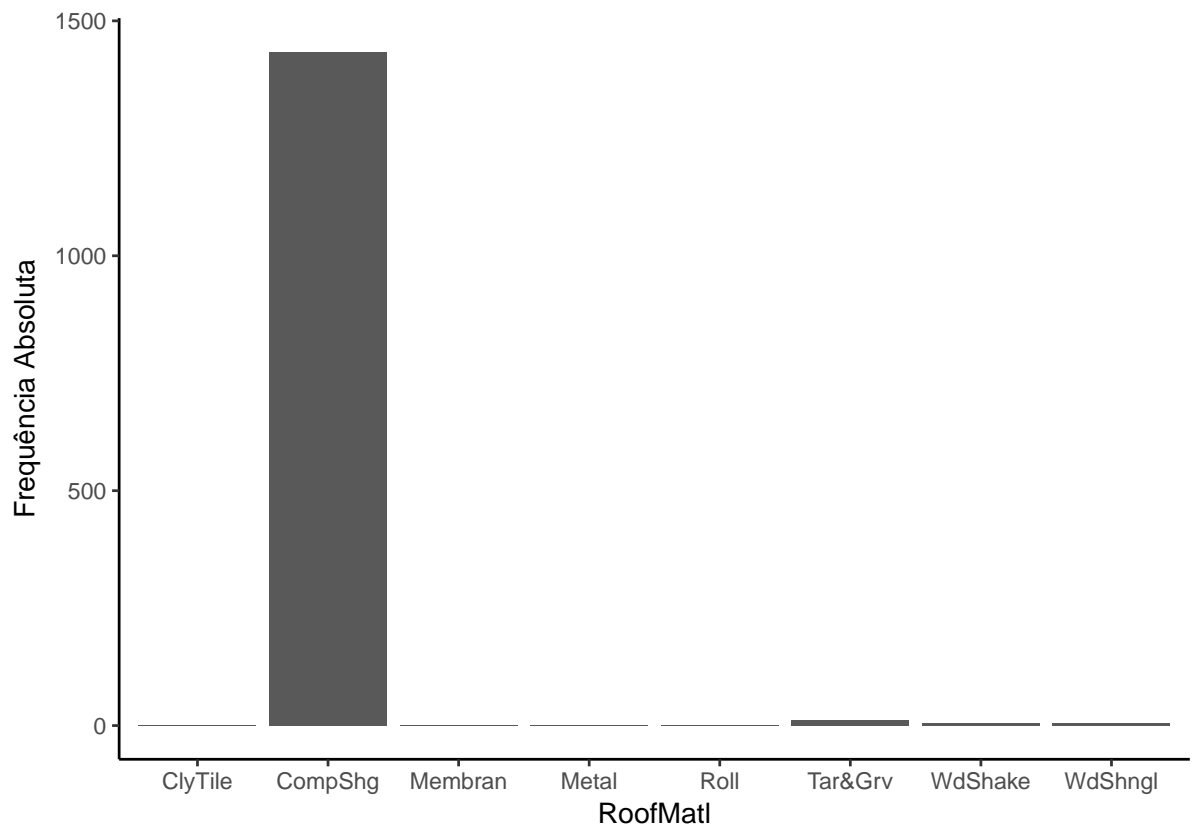


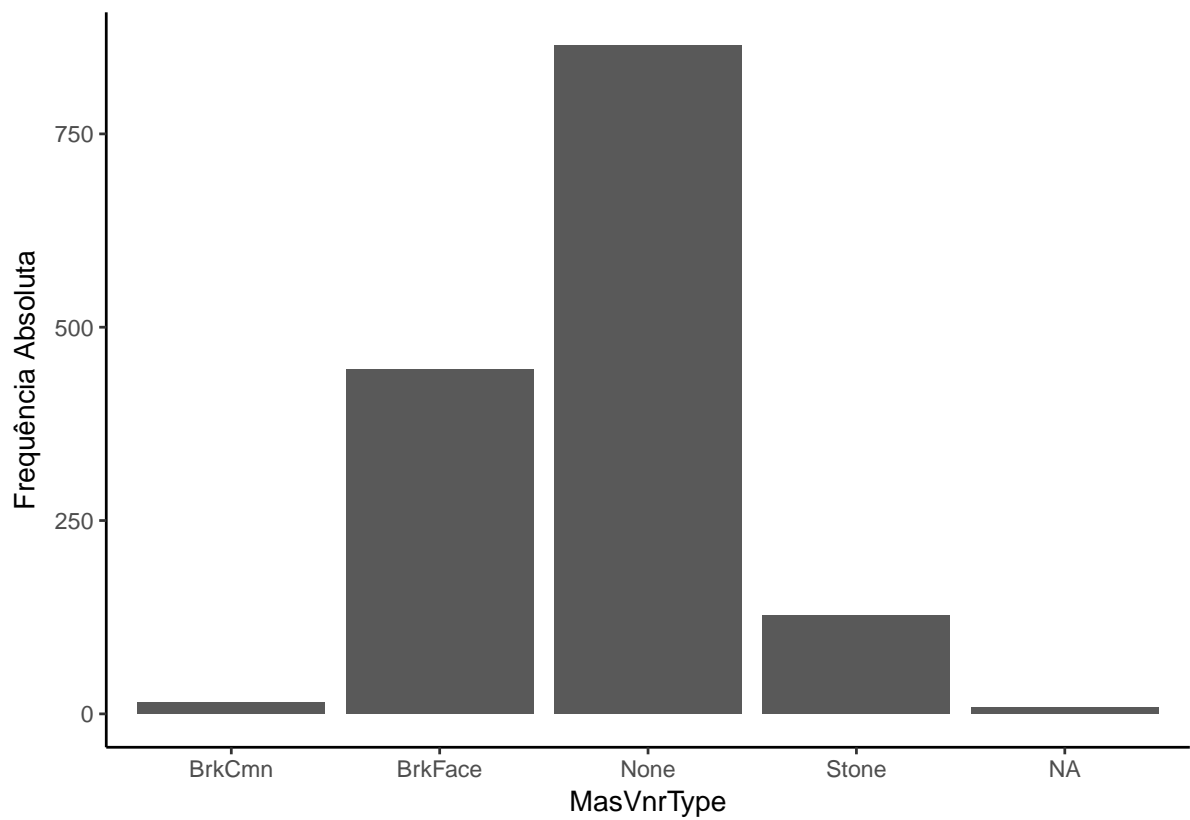
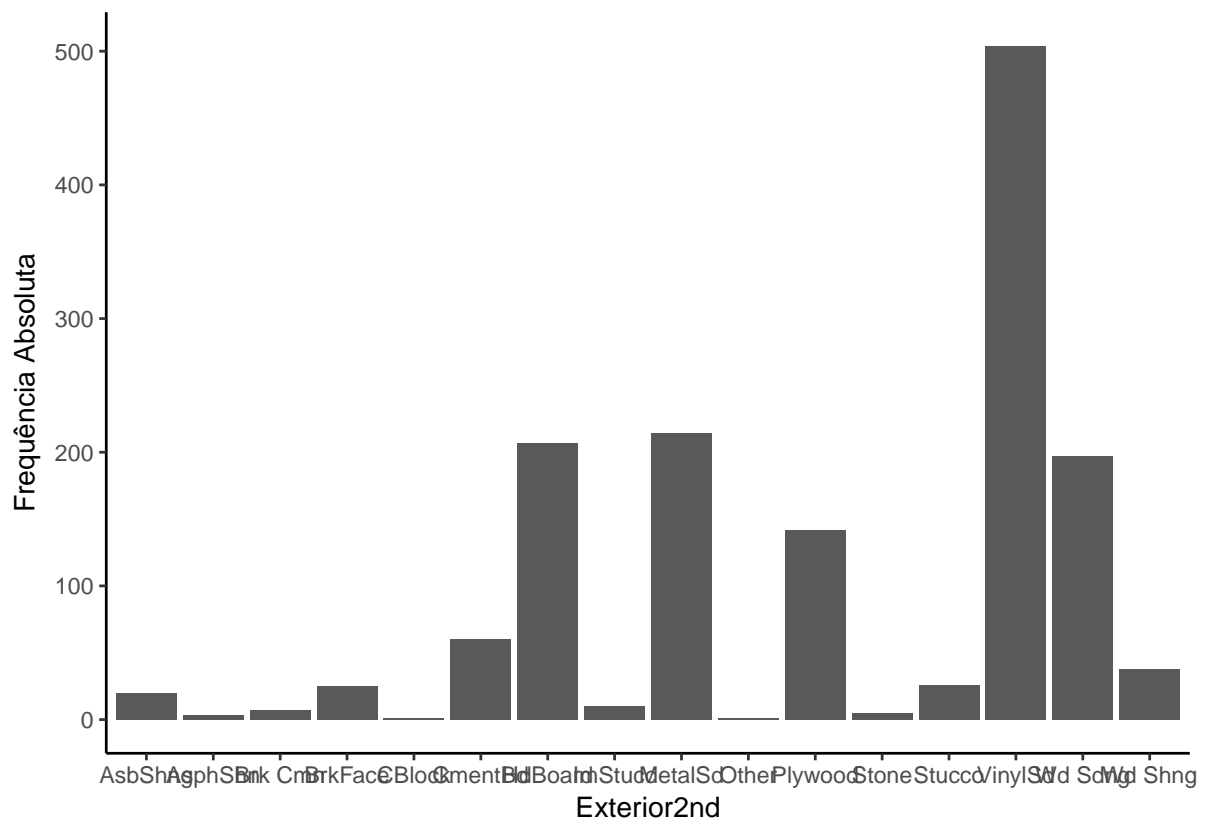


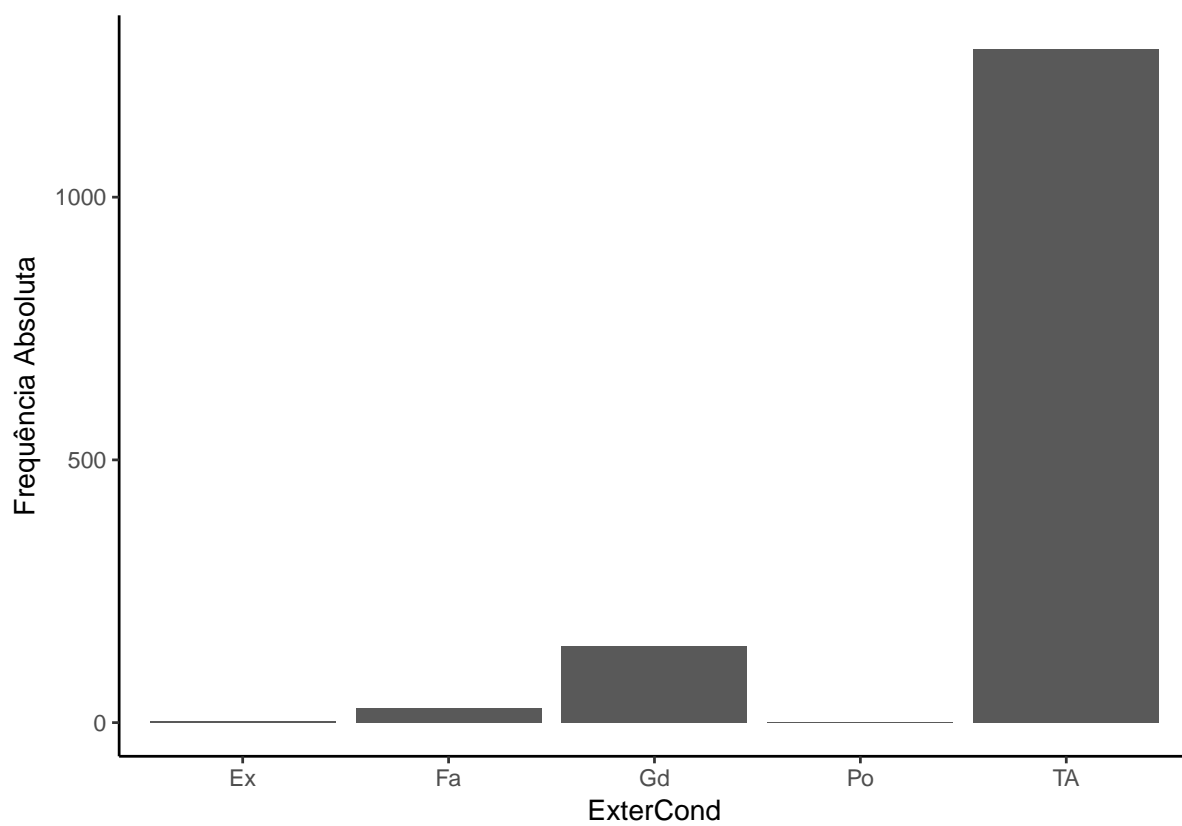
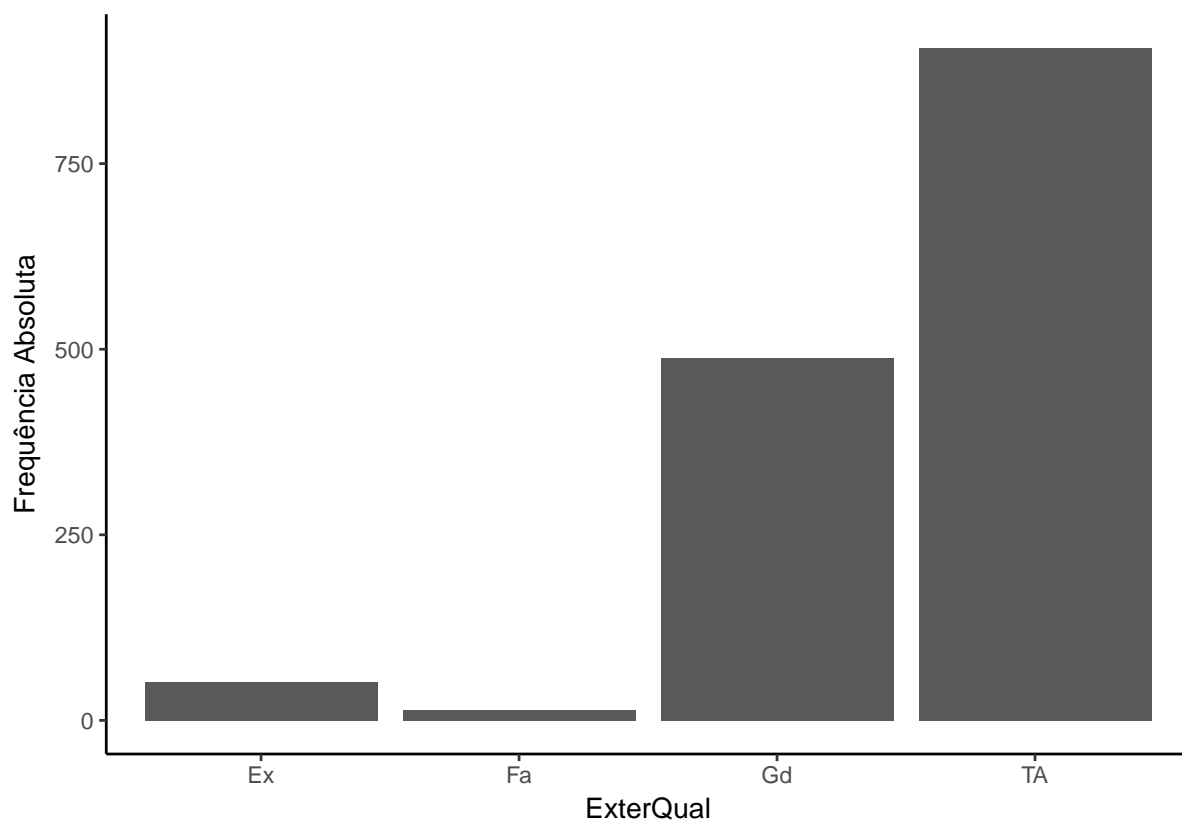


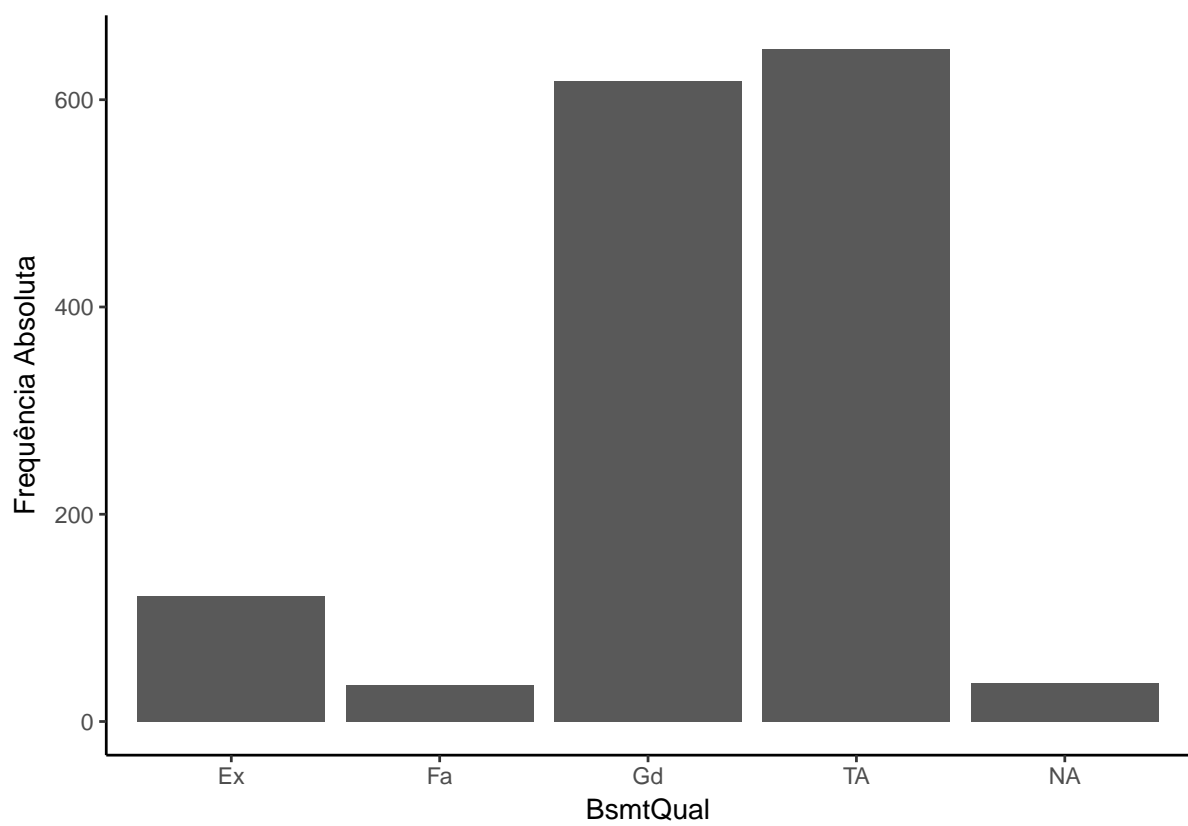
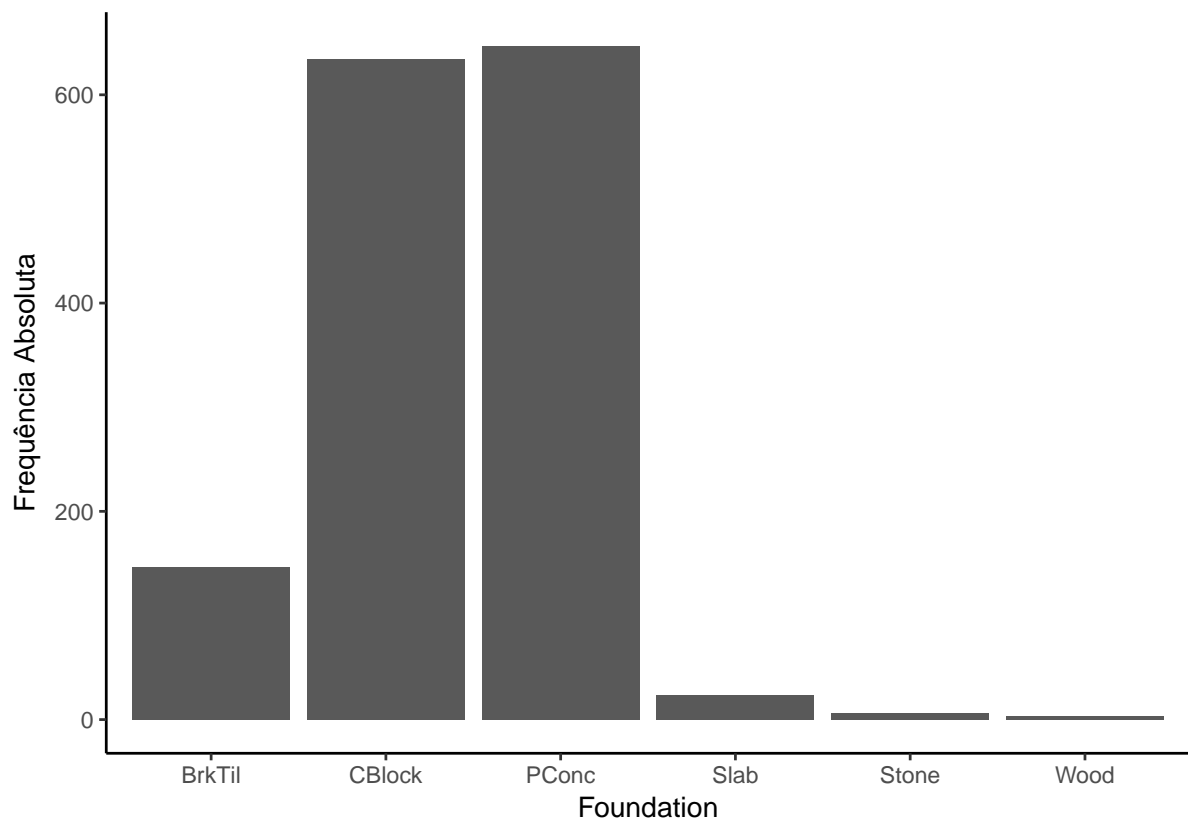


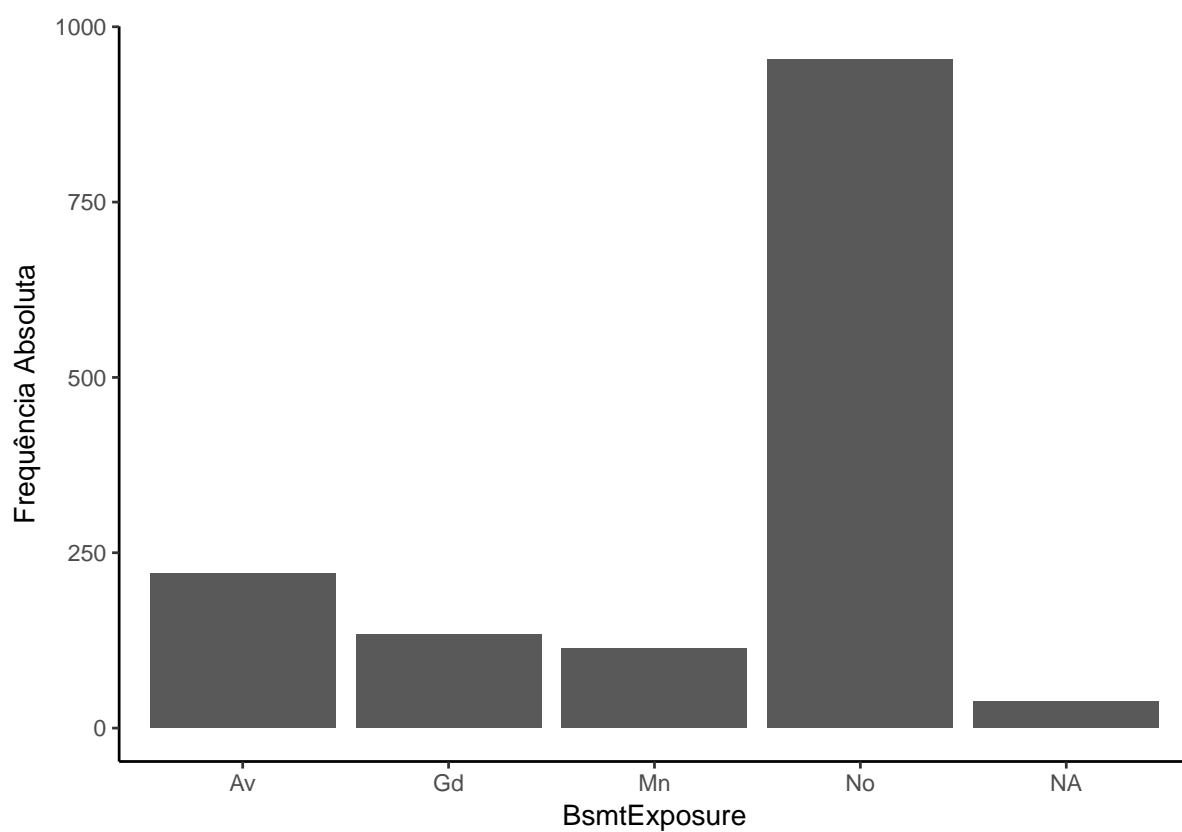
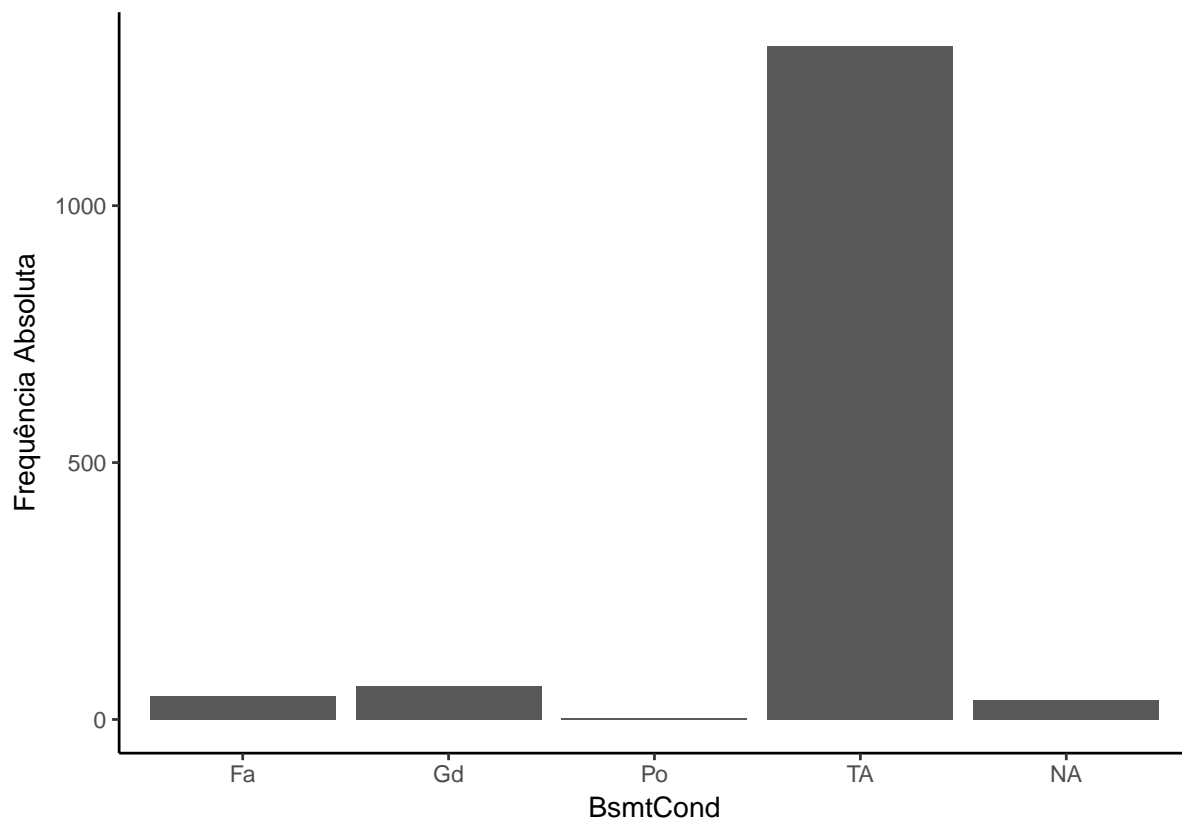


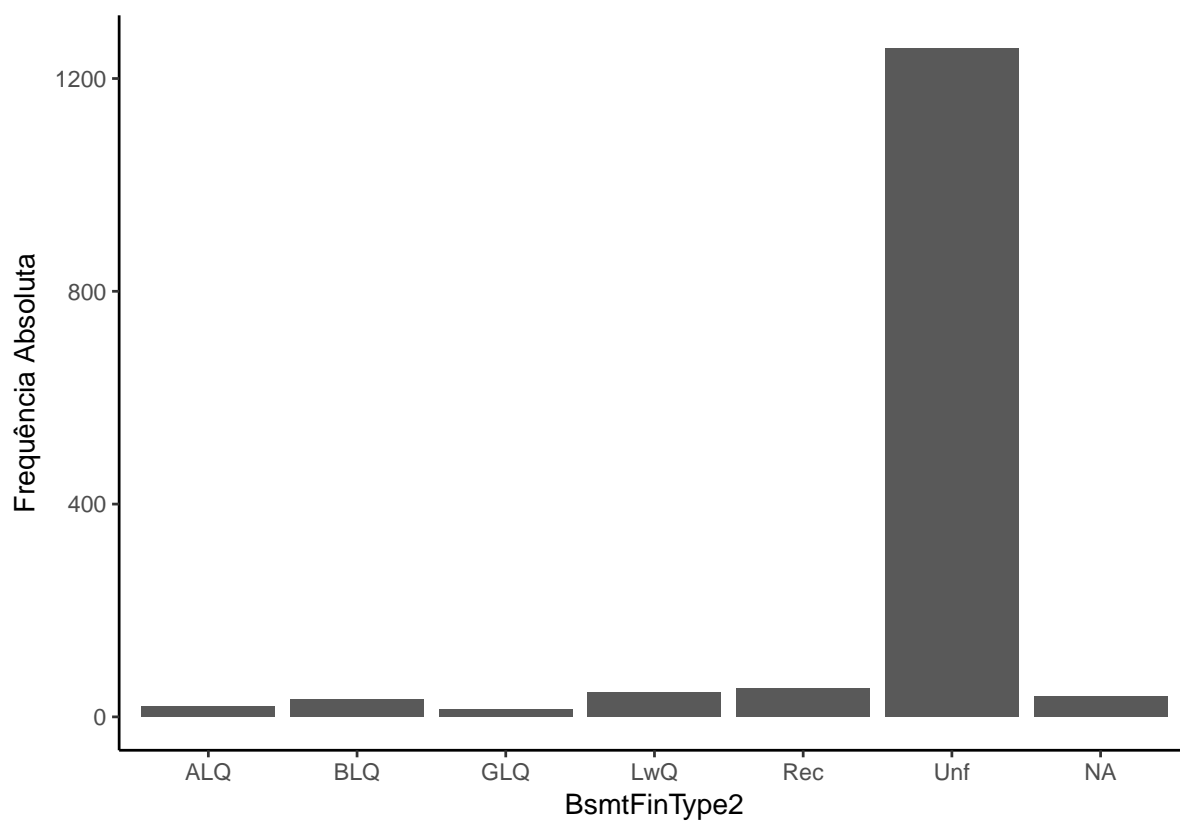
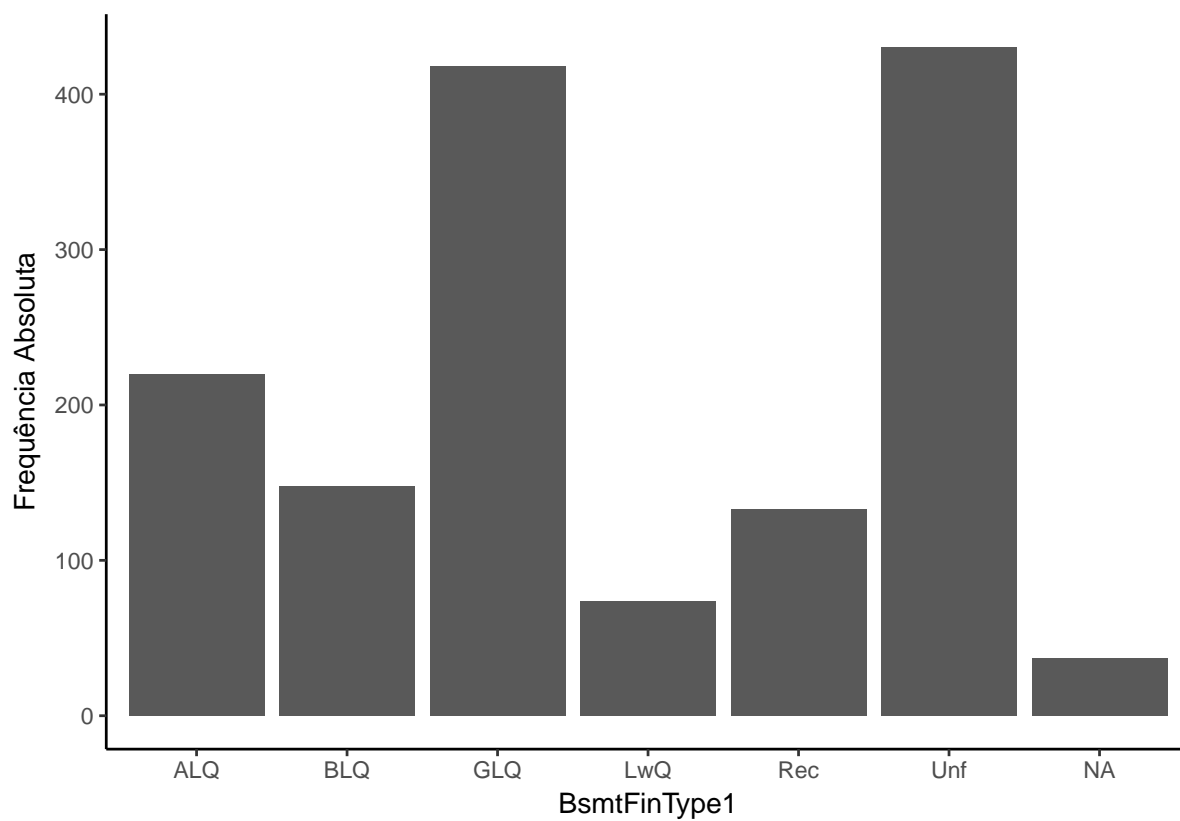


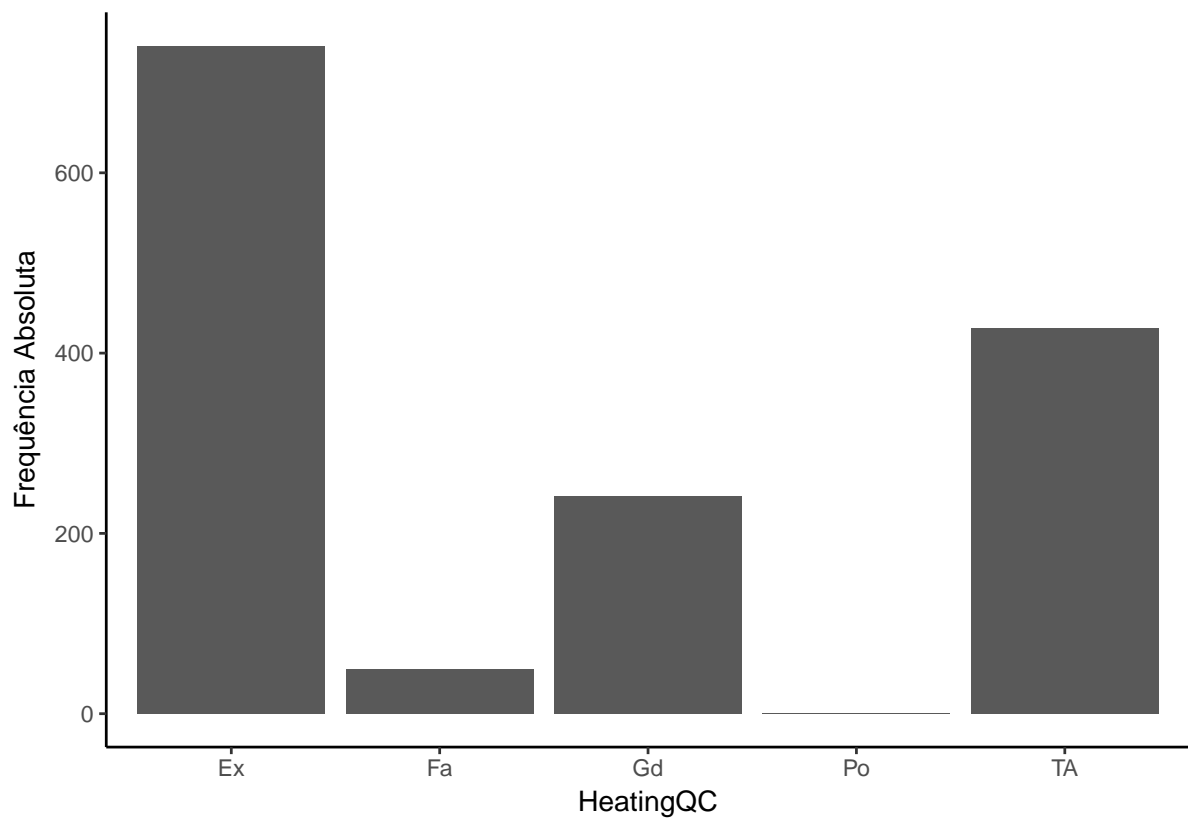
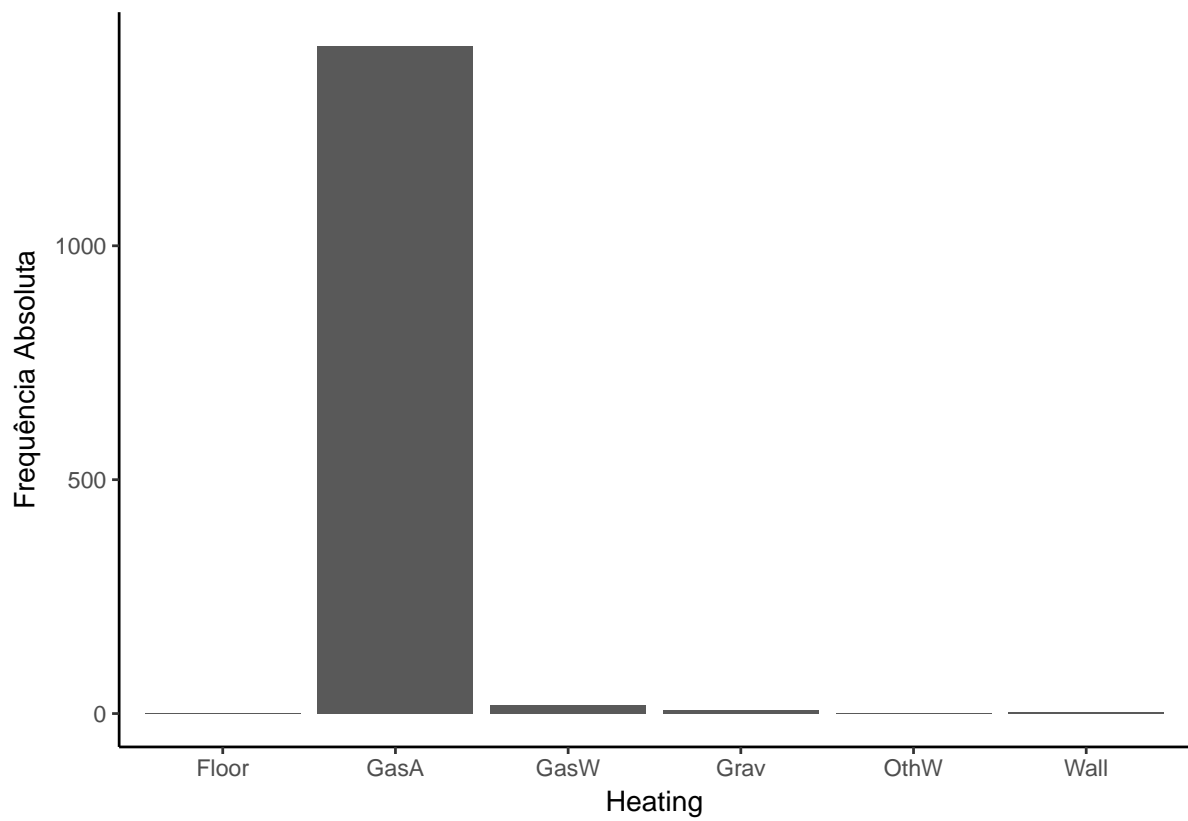


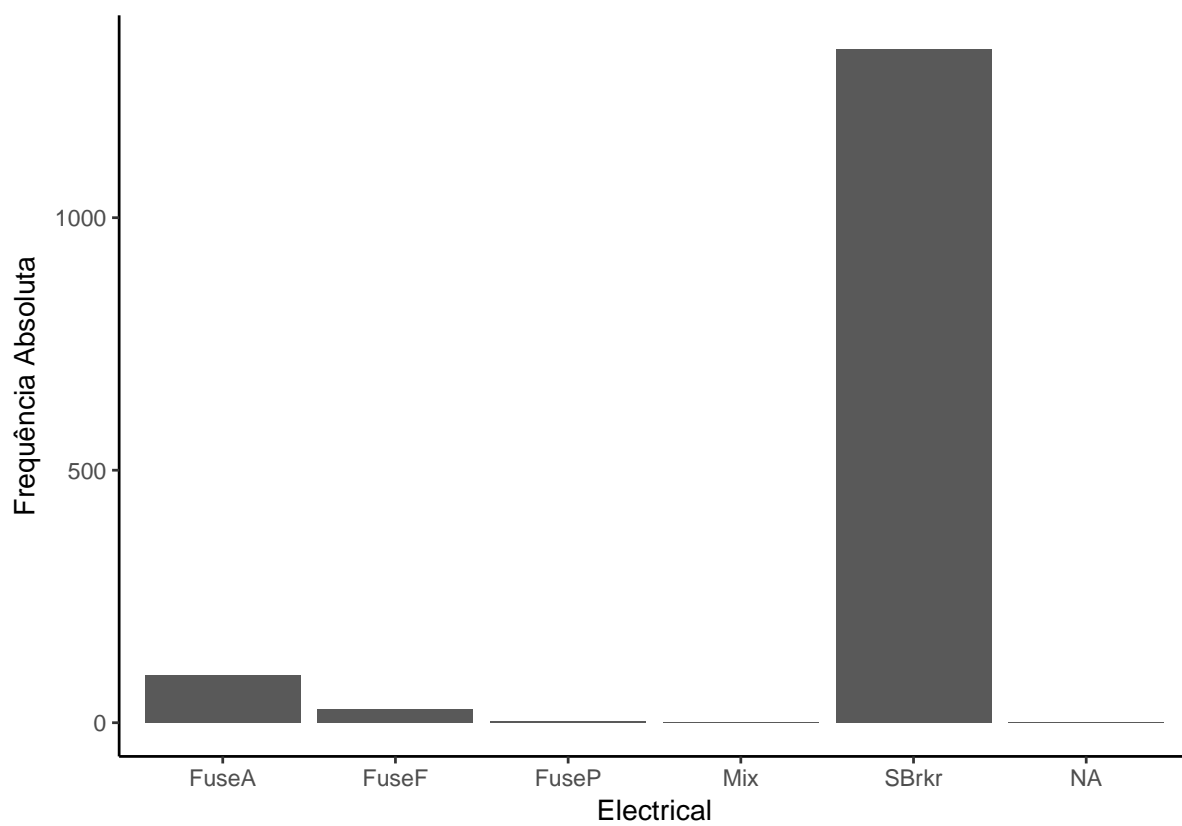
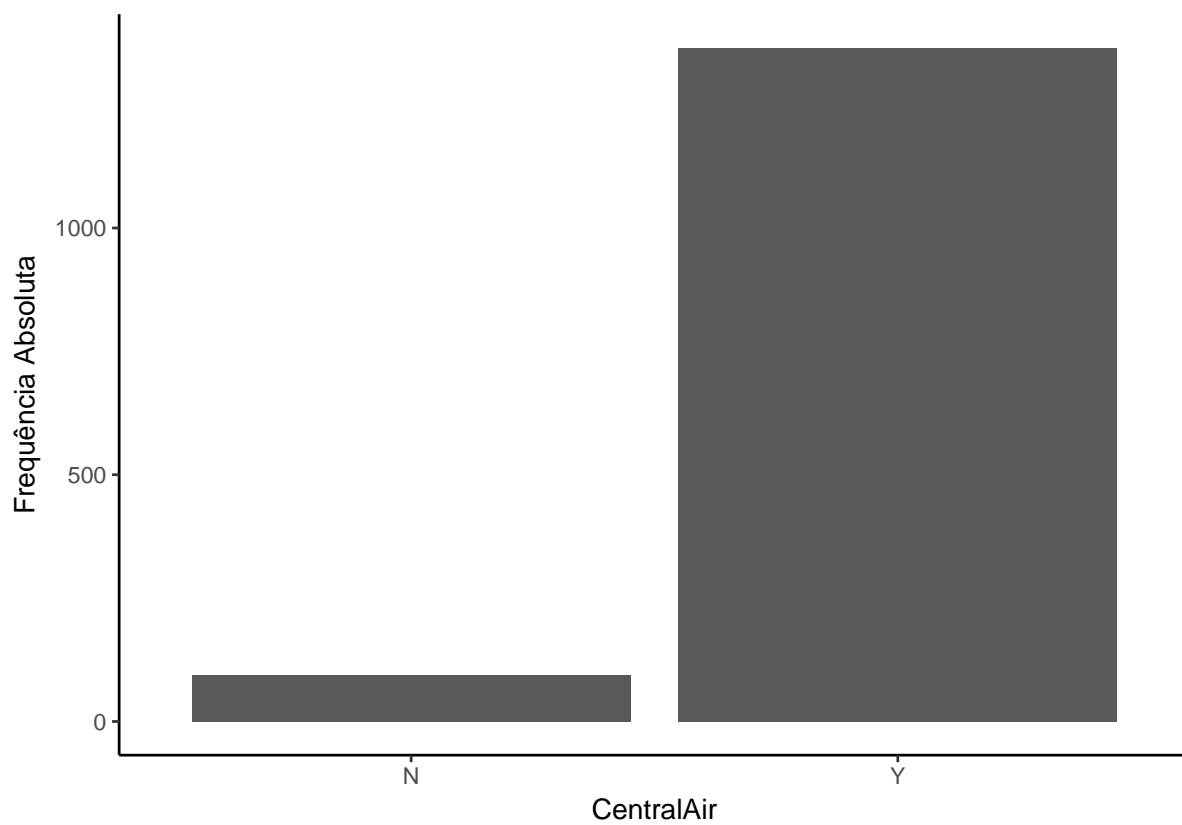


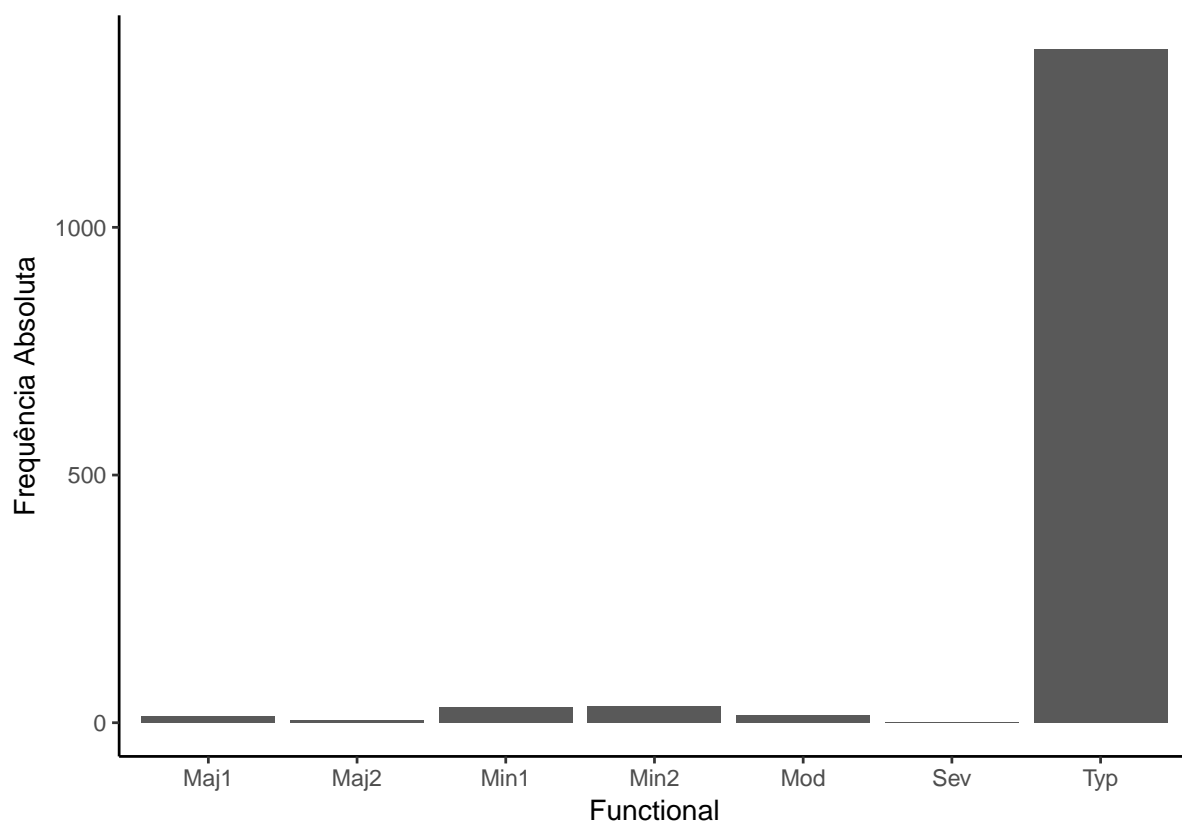
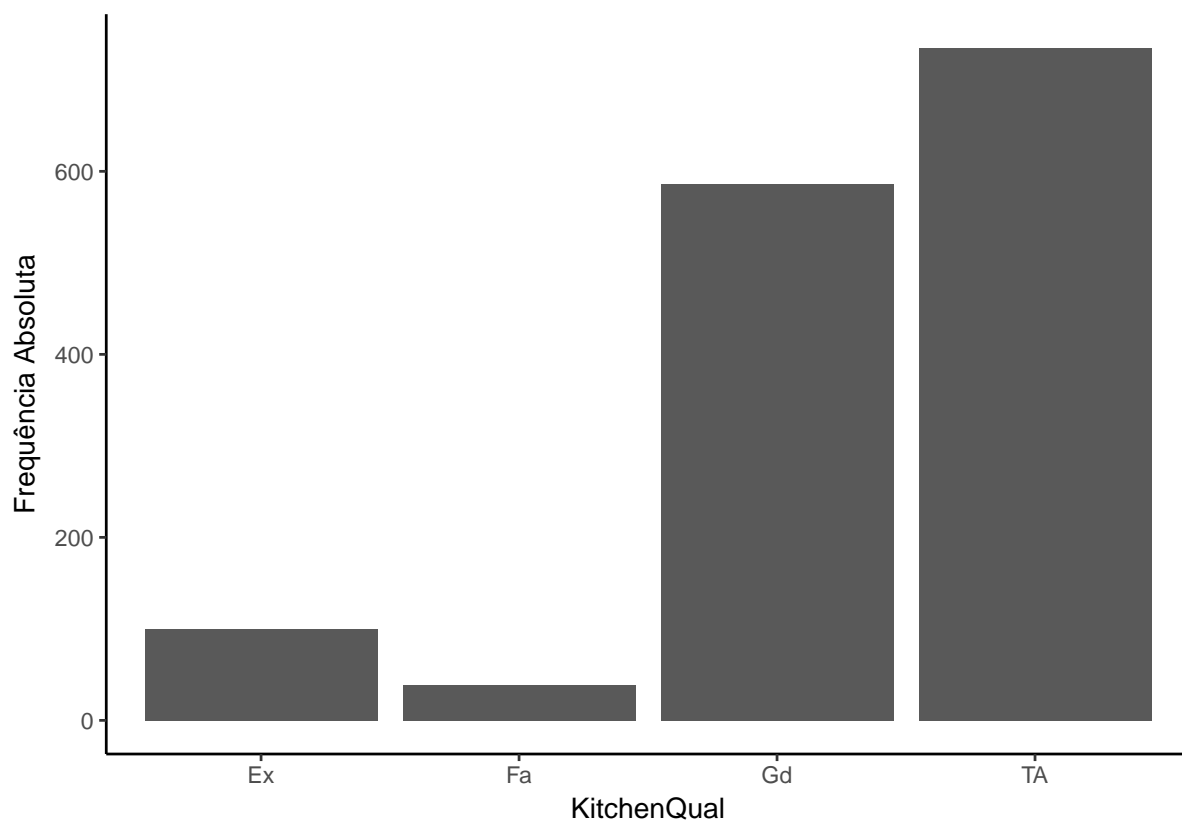


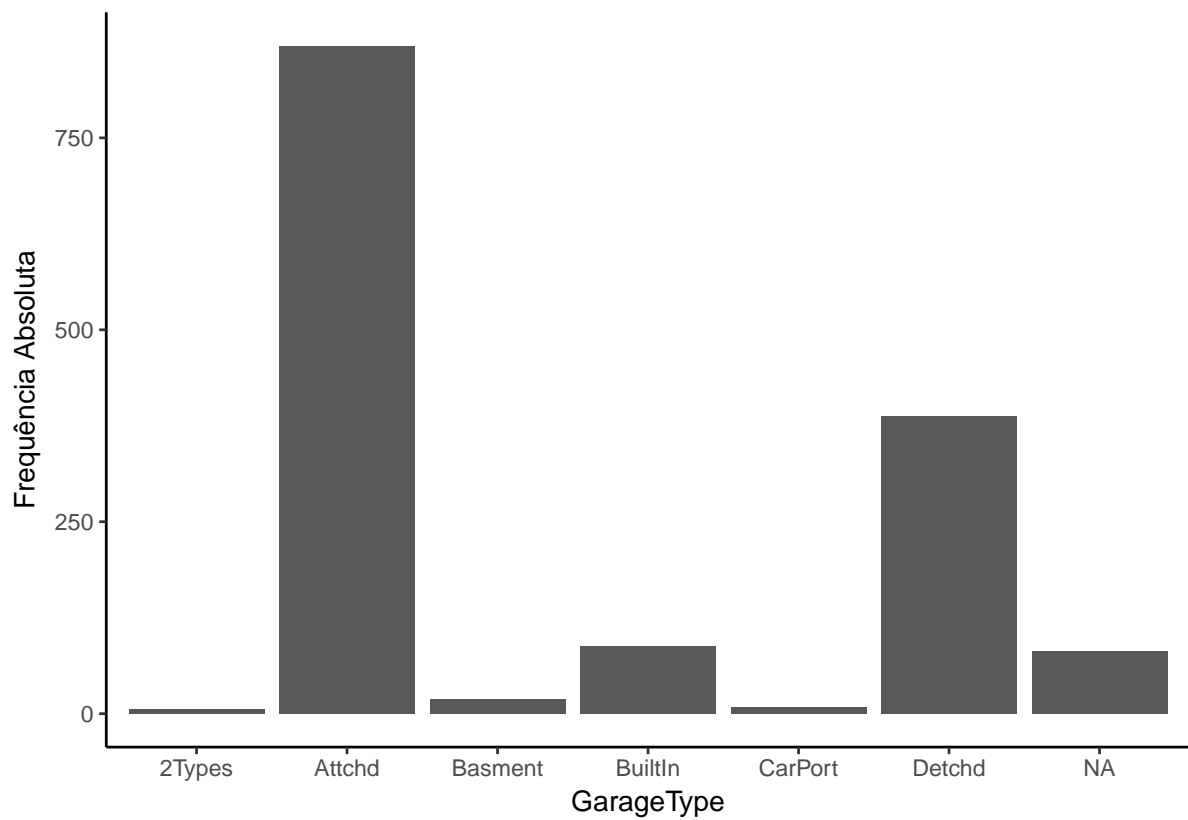
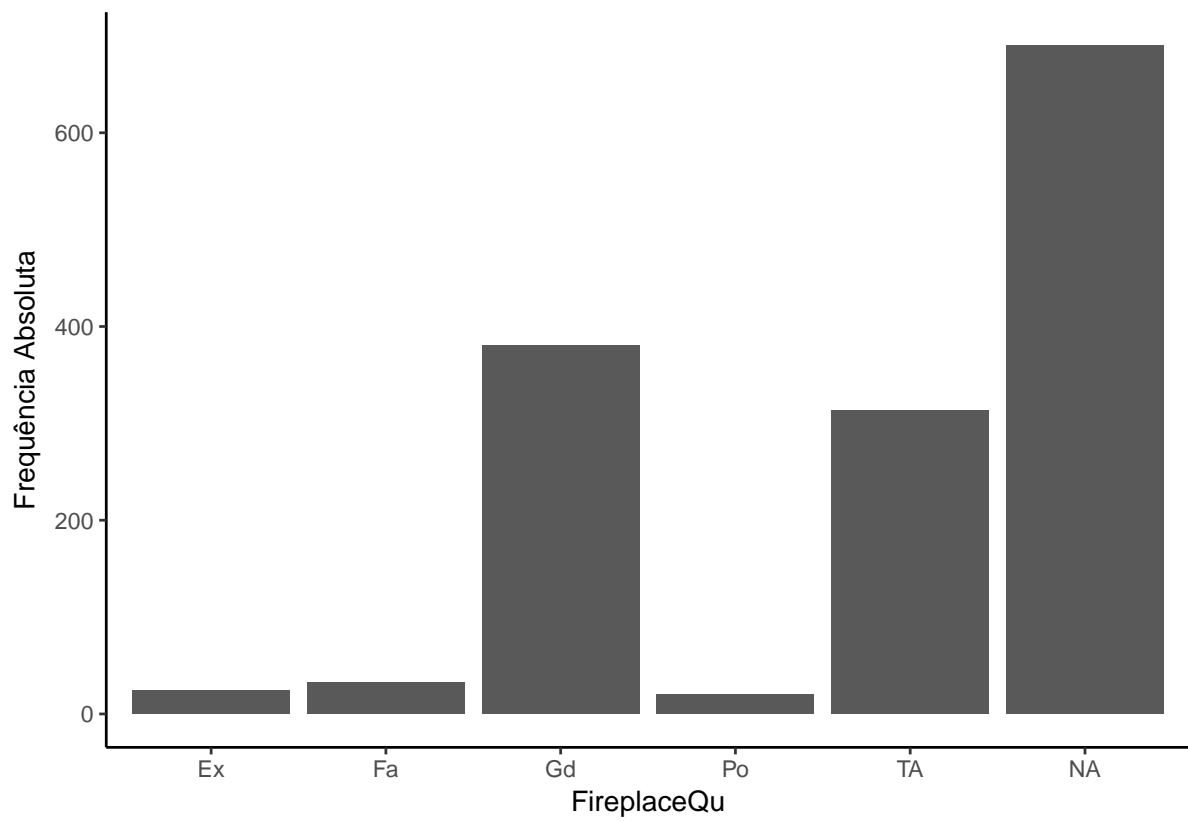


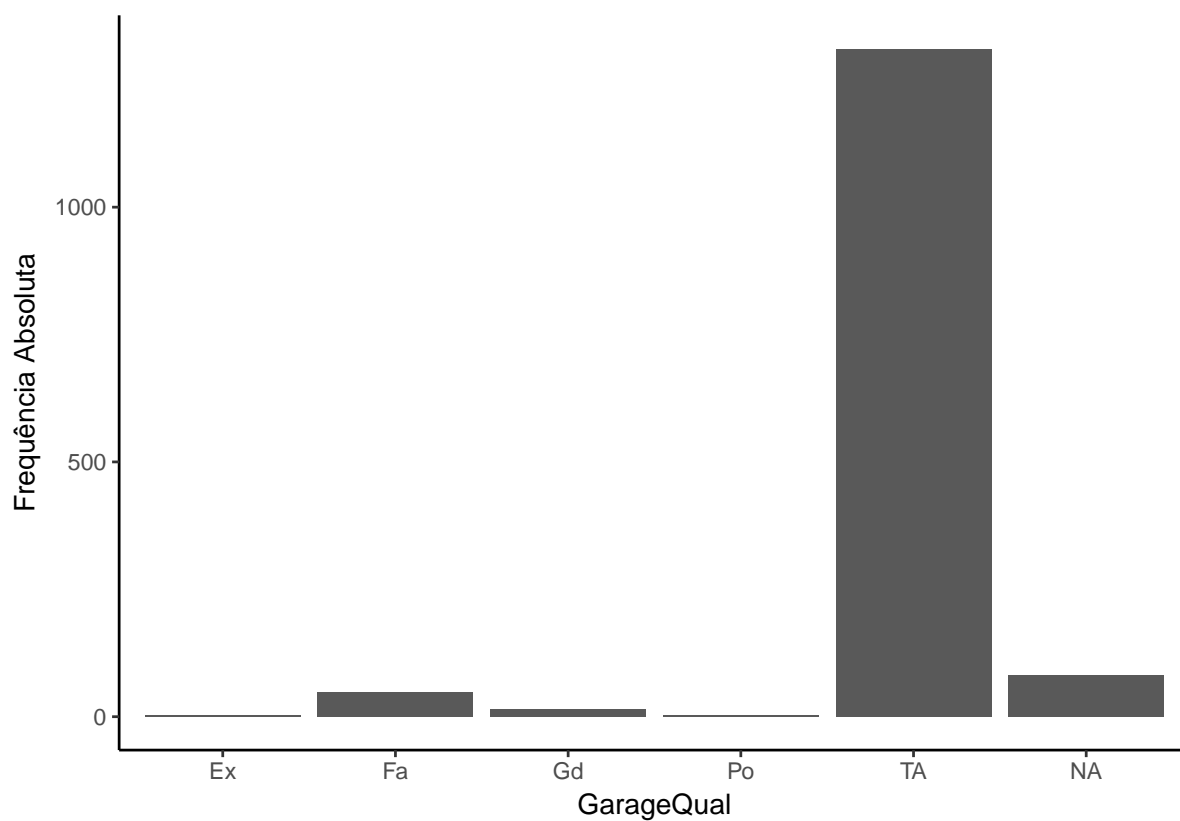
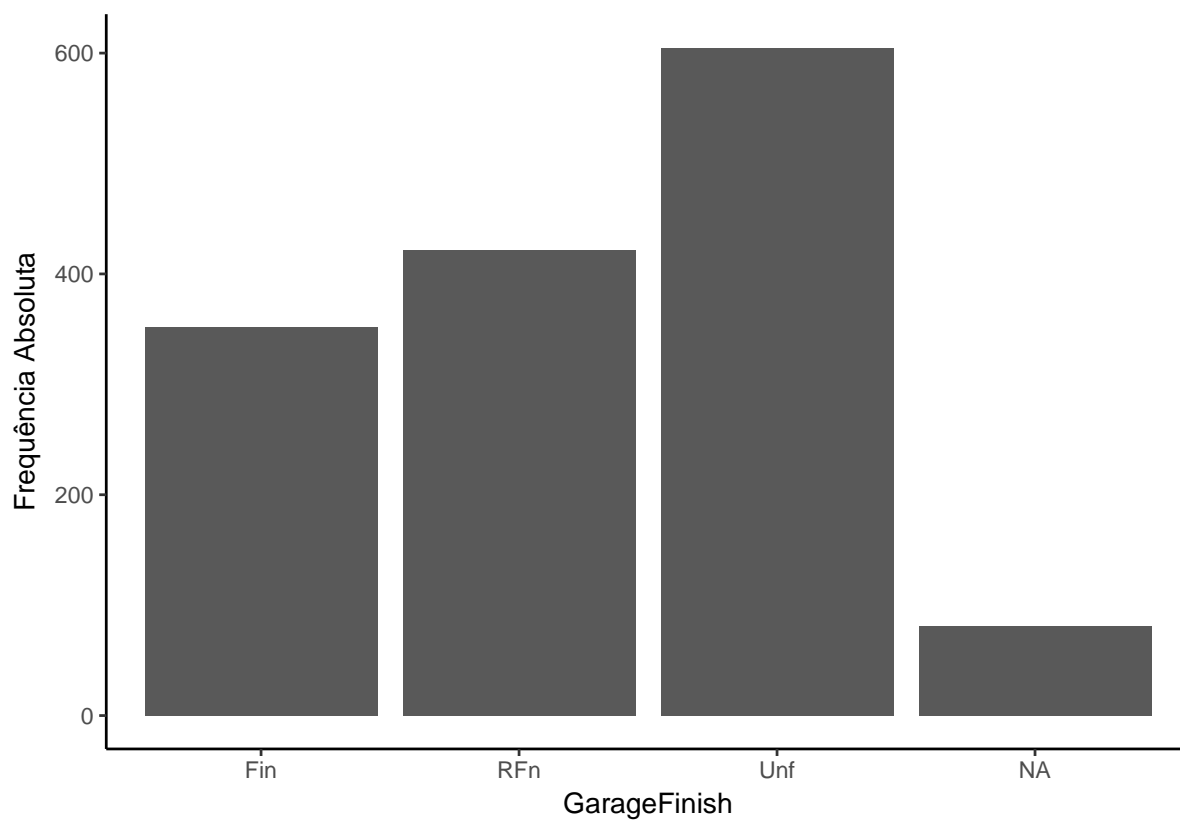


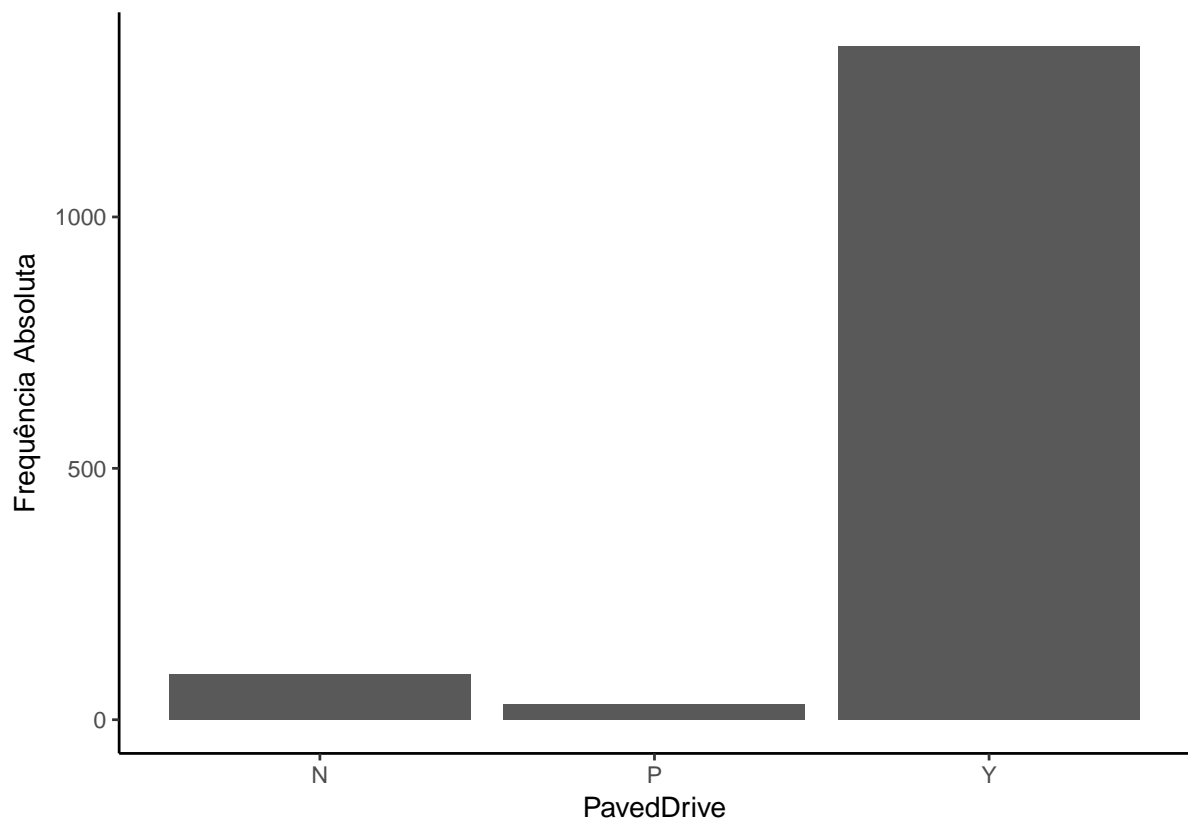
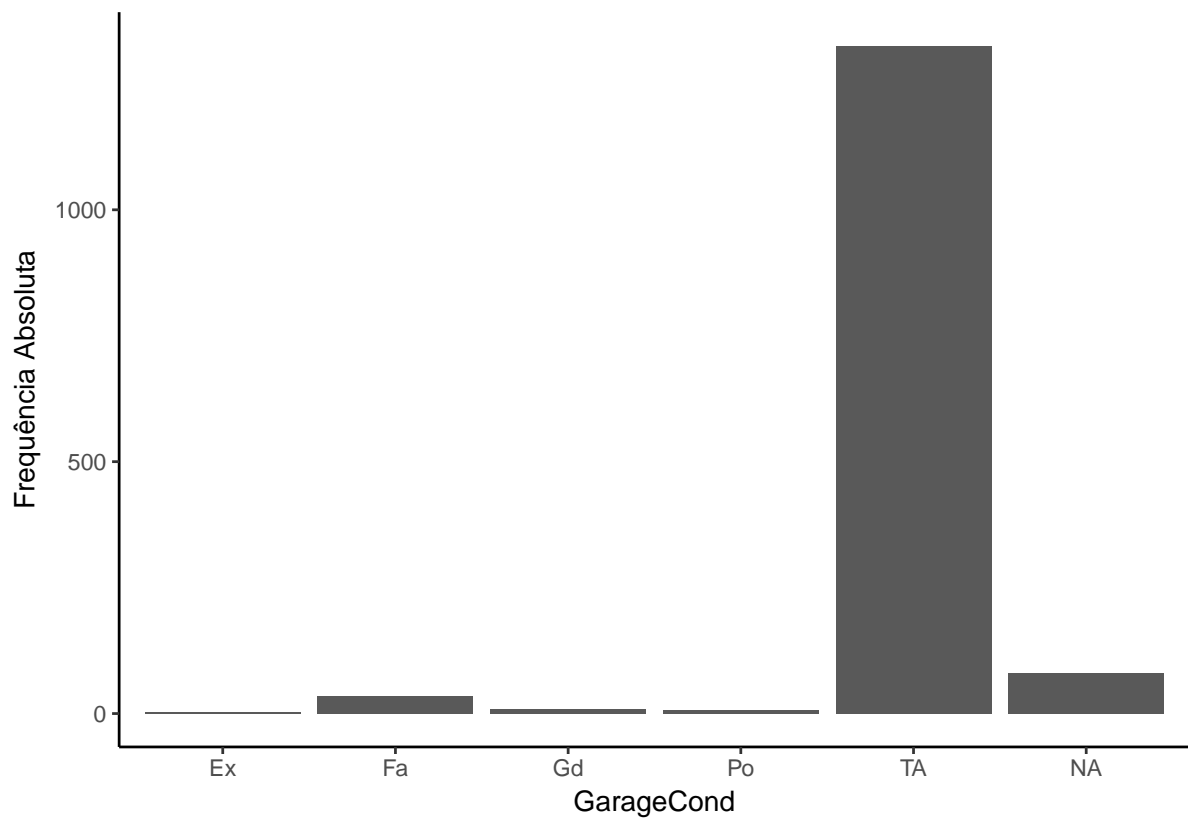


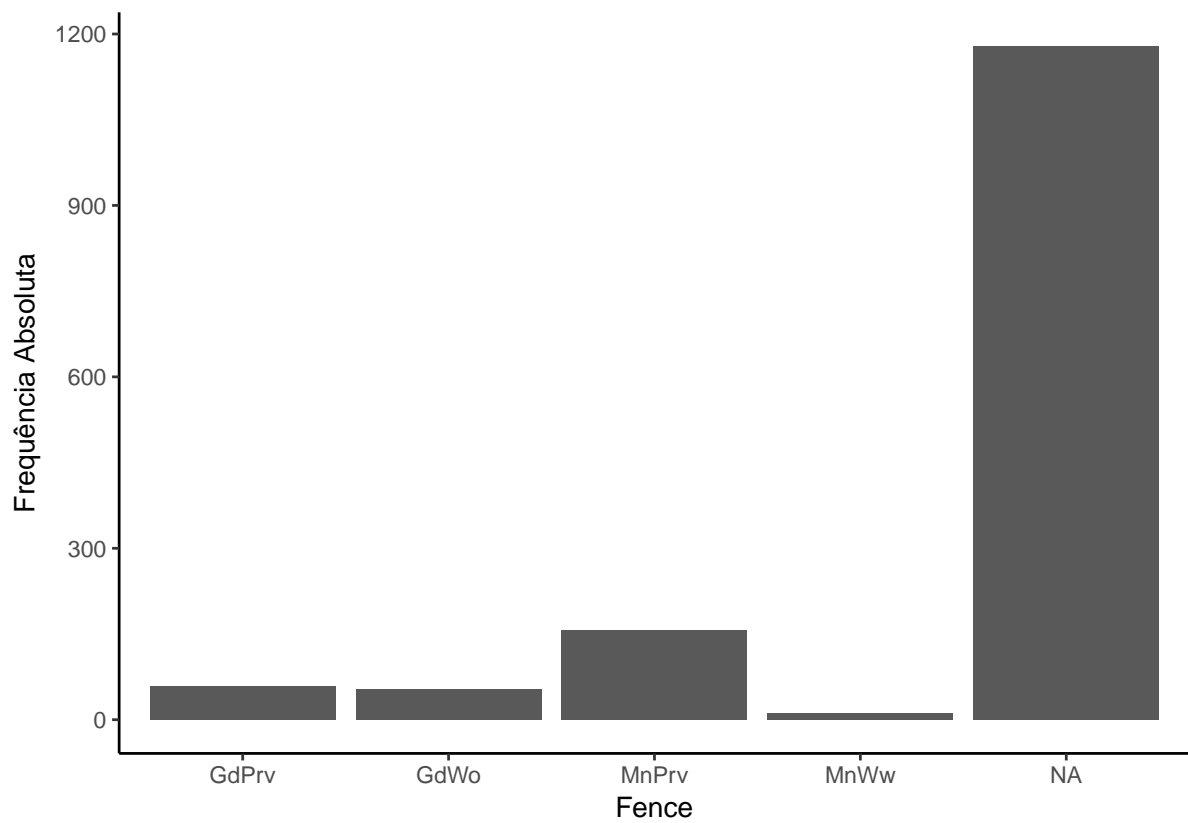
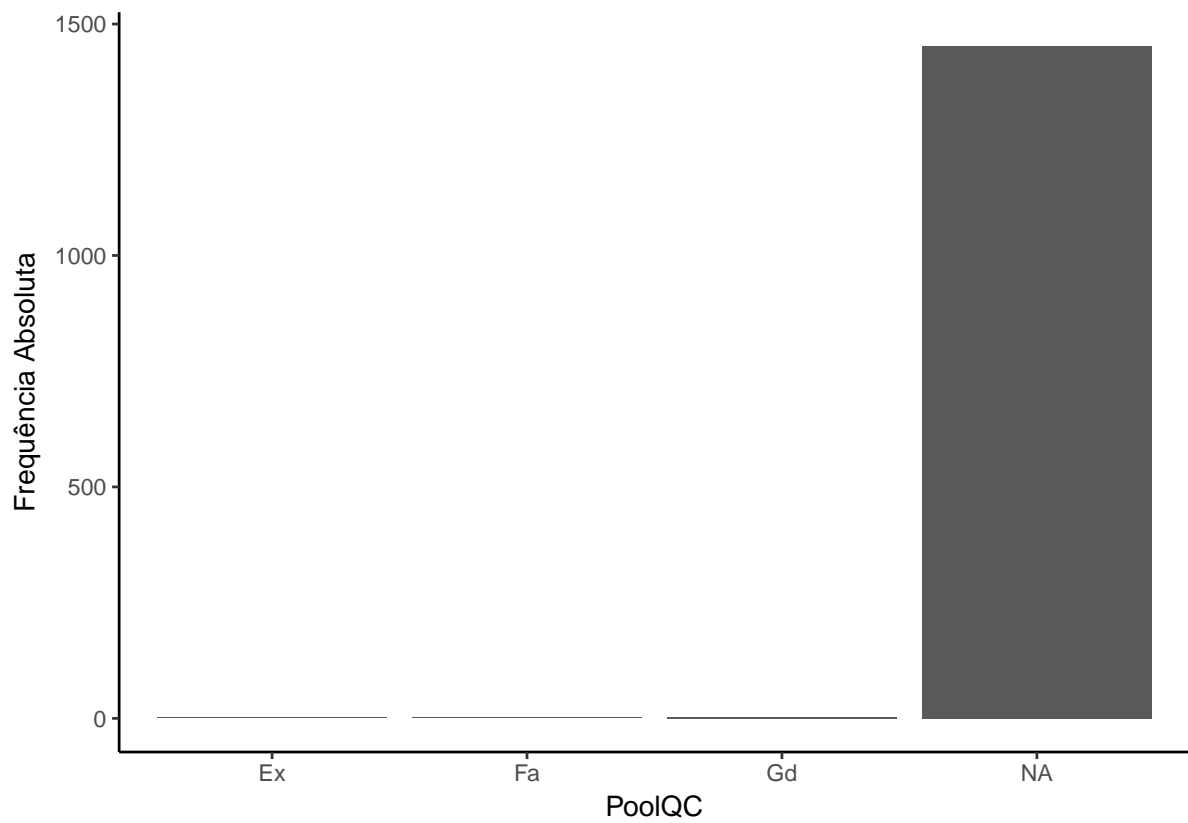


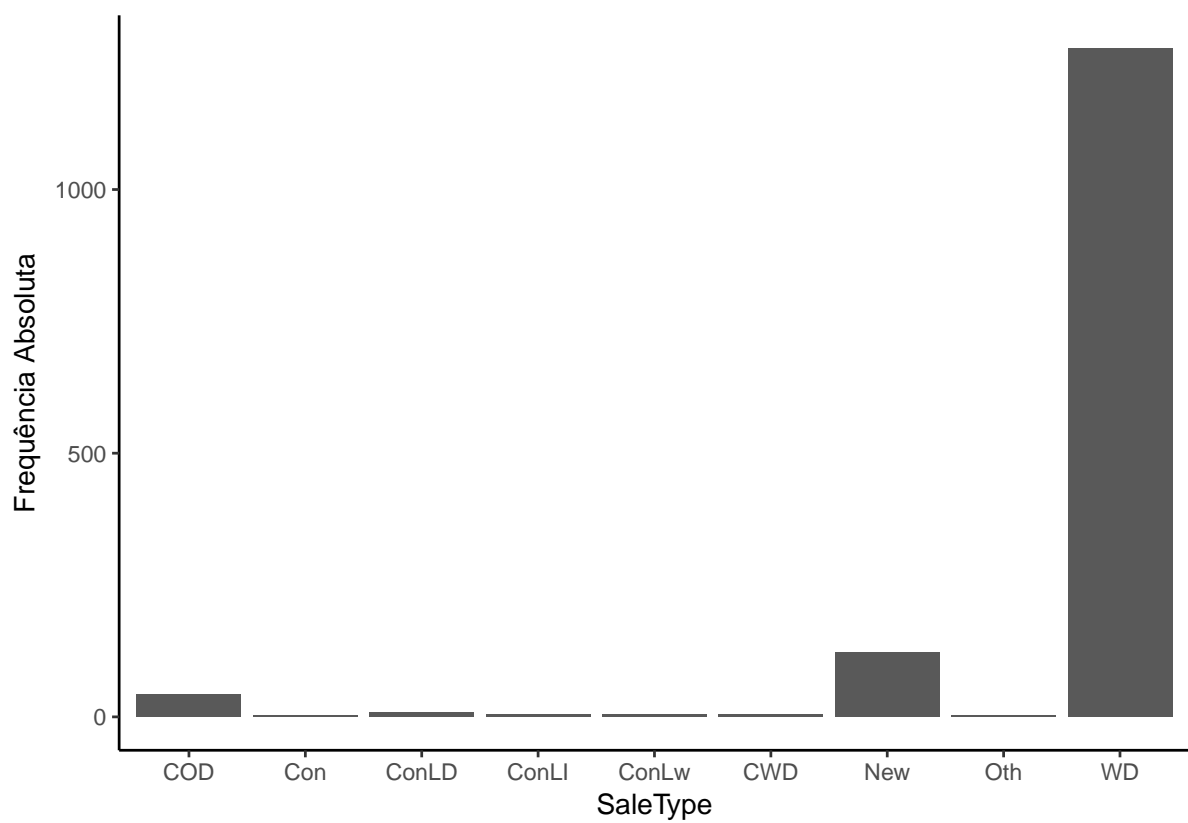
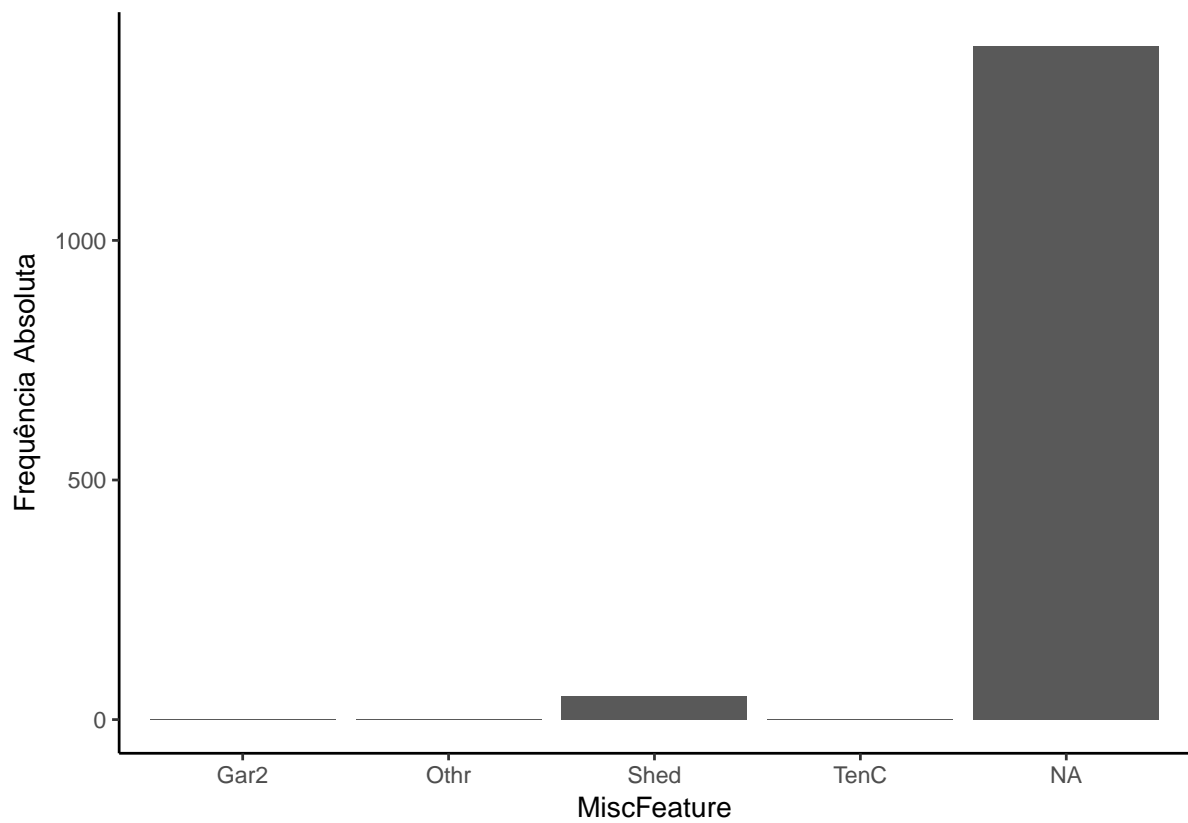


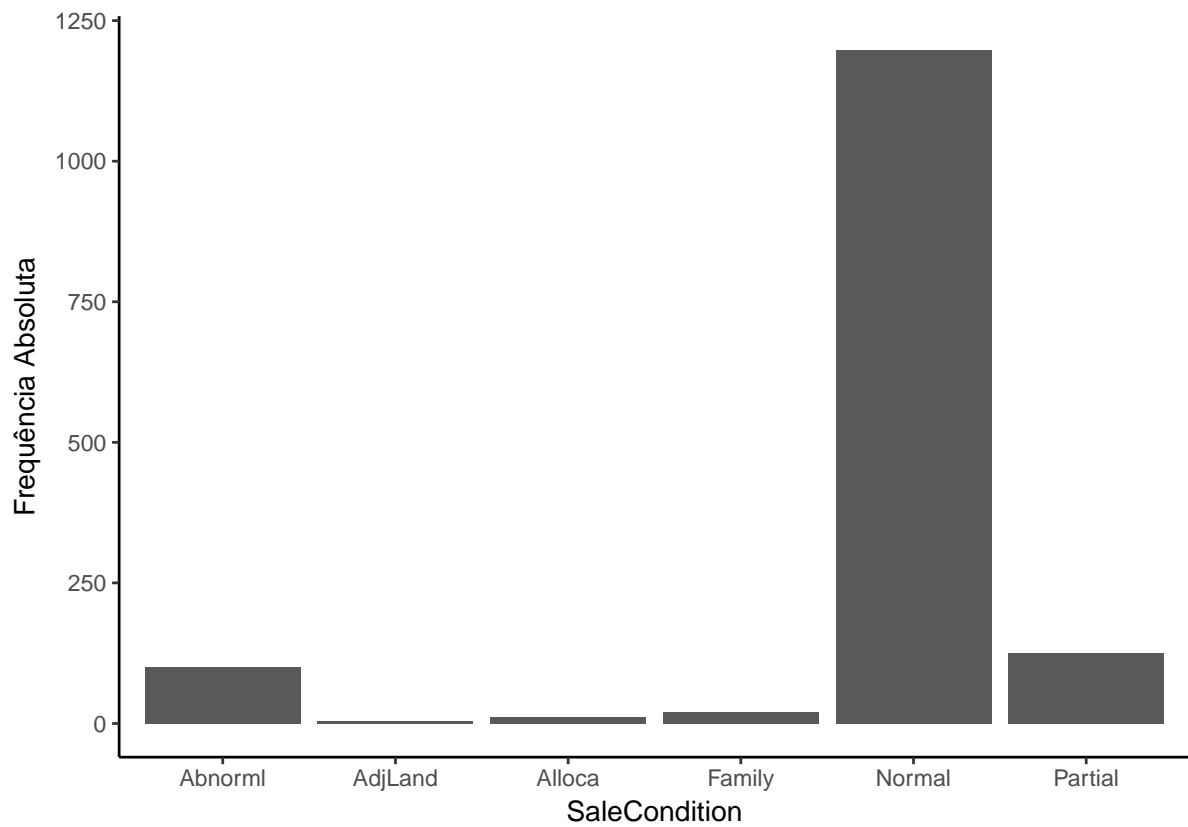






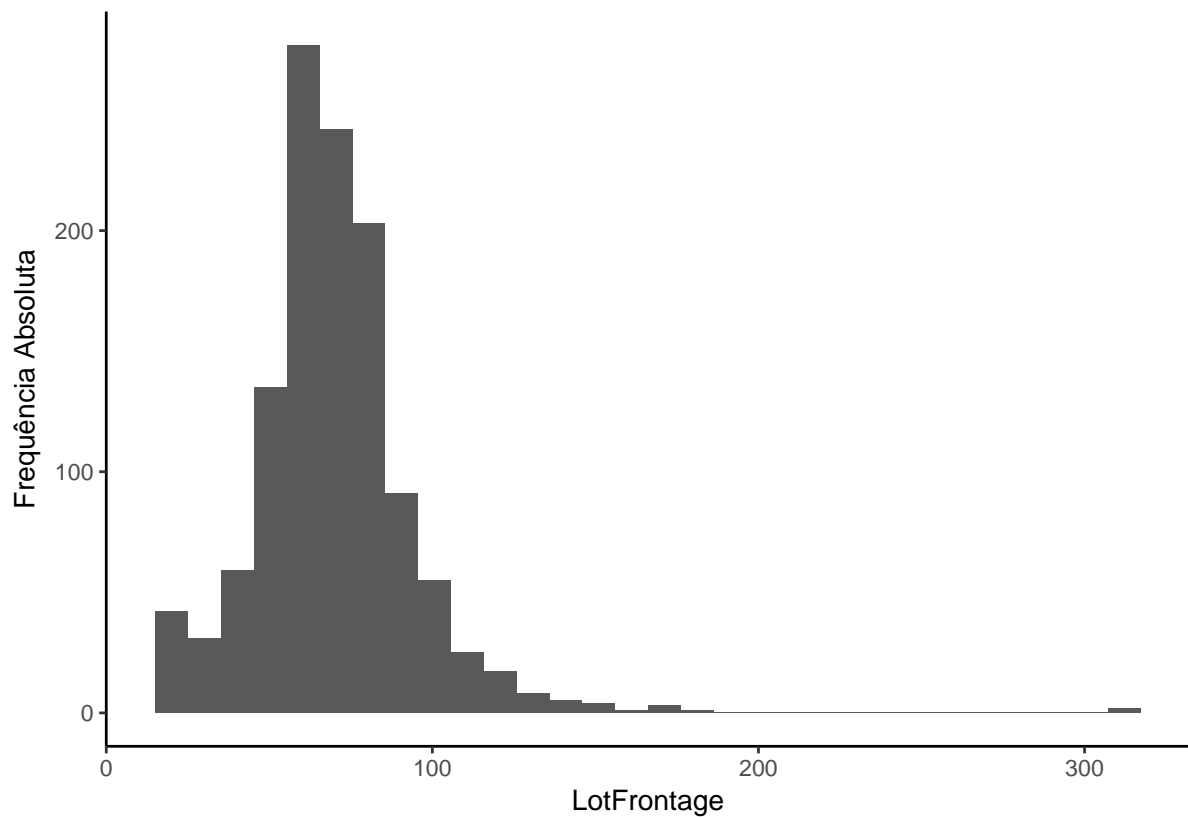




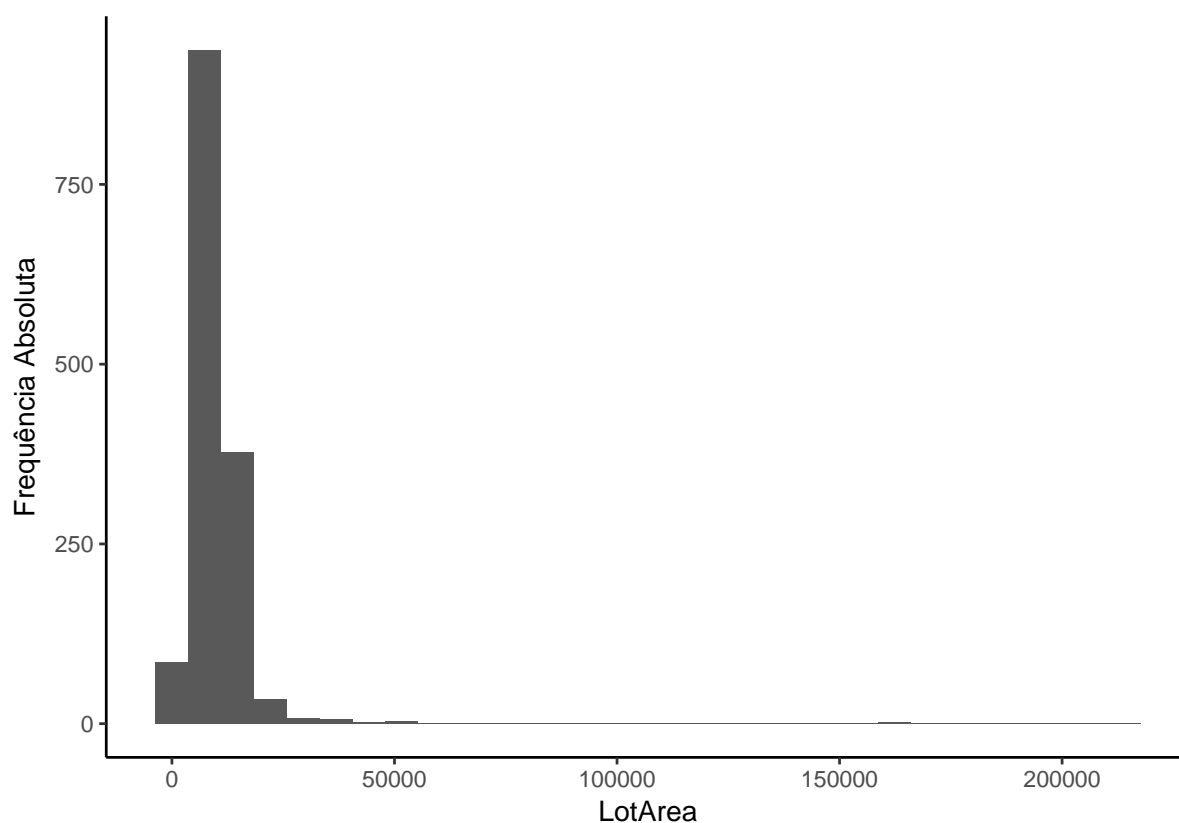


1.2 GRÁFICOS DAS VARIÁVEIS QUANTITATIVAS

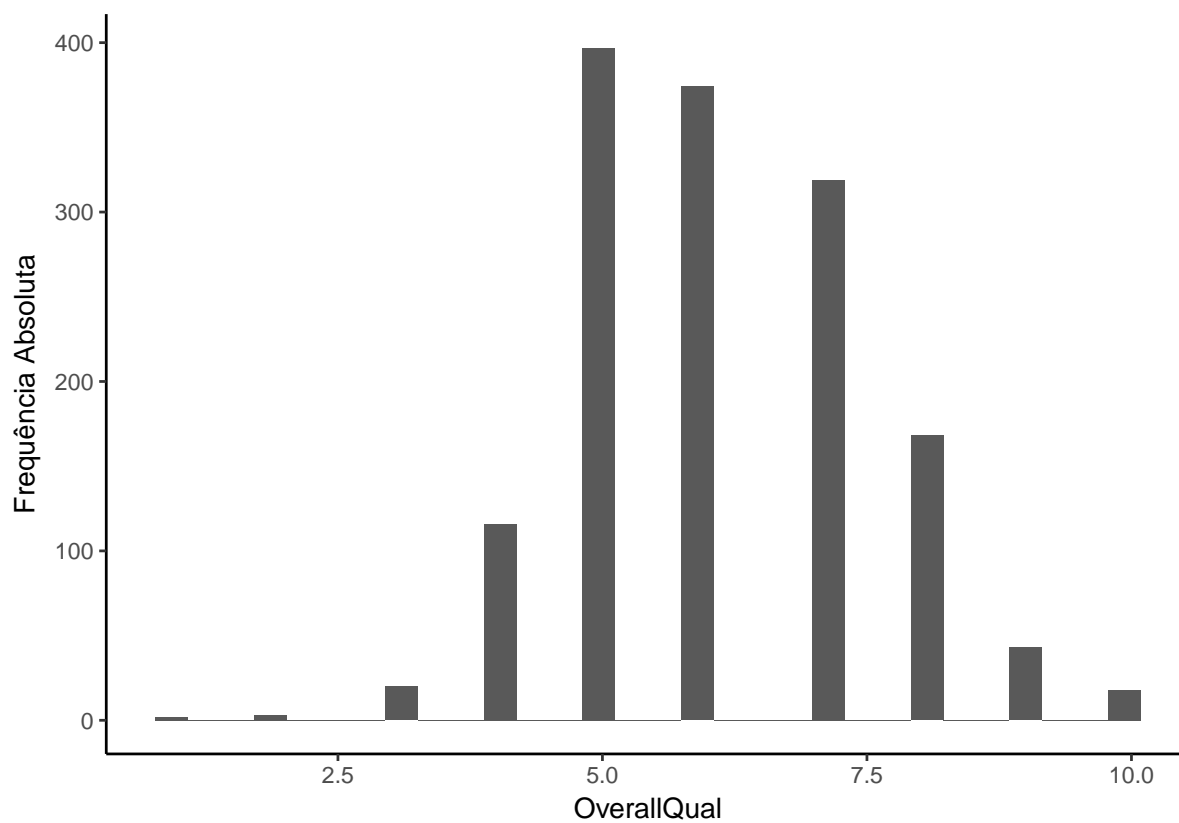
`## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.`



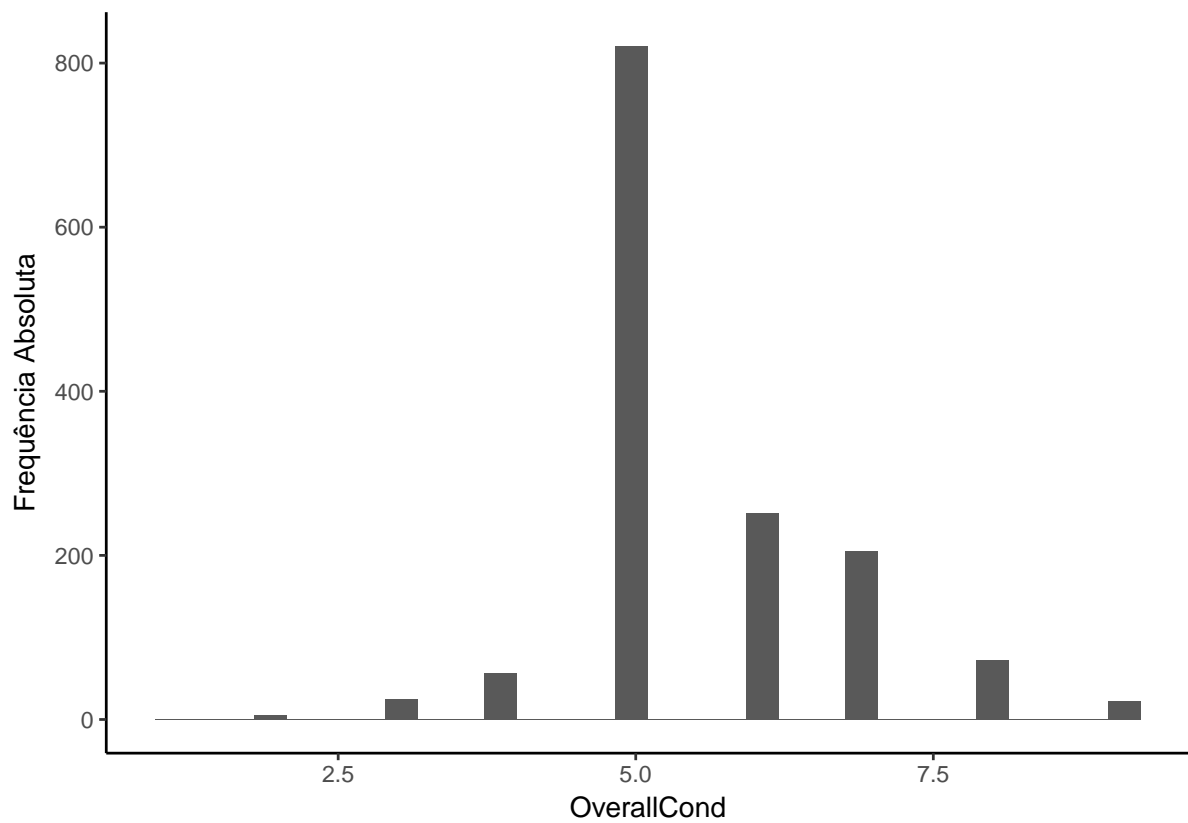
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



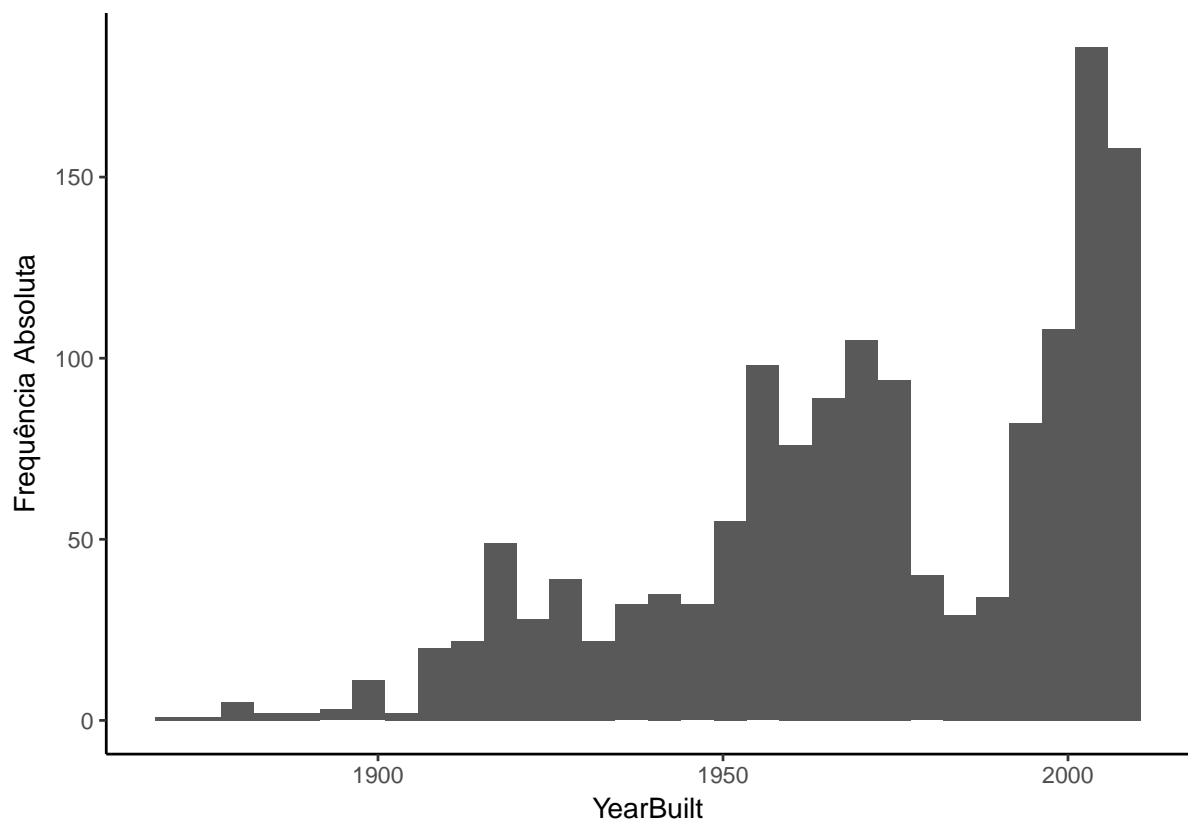
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



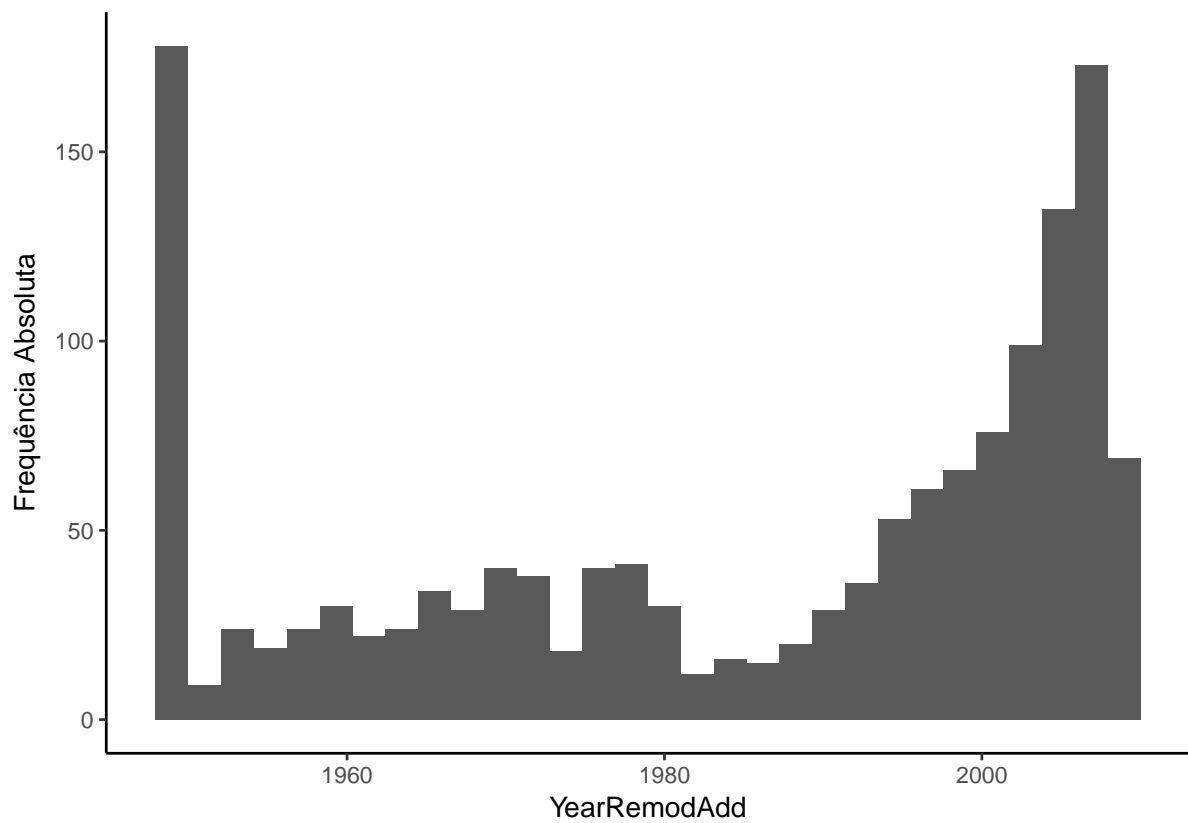
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

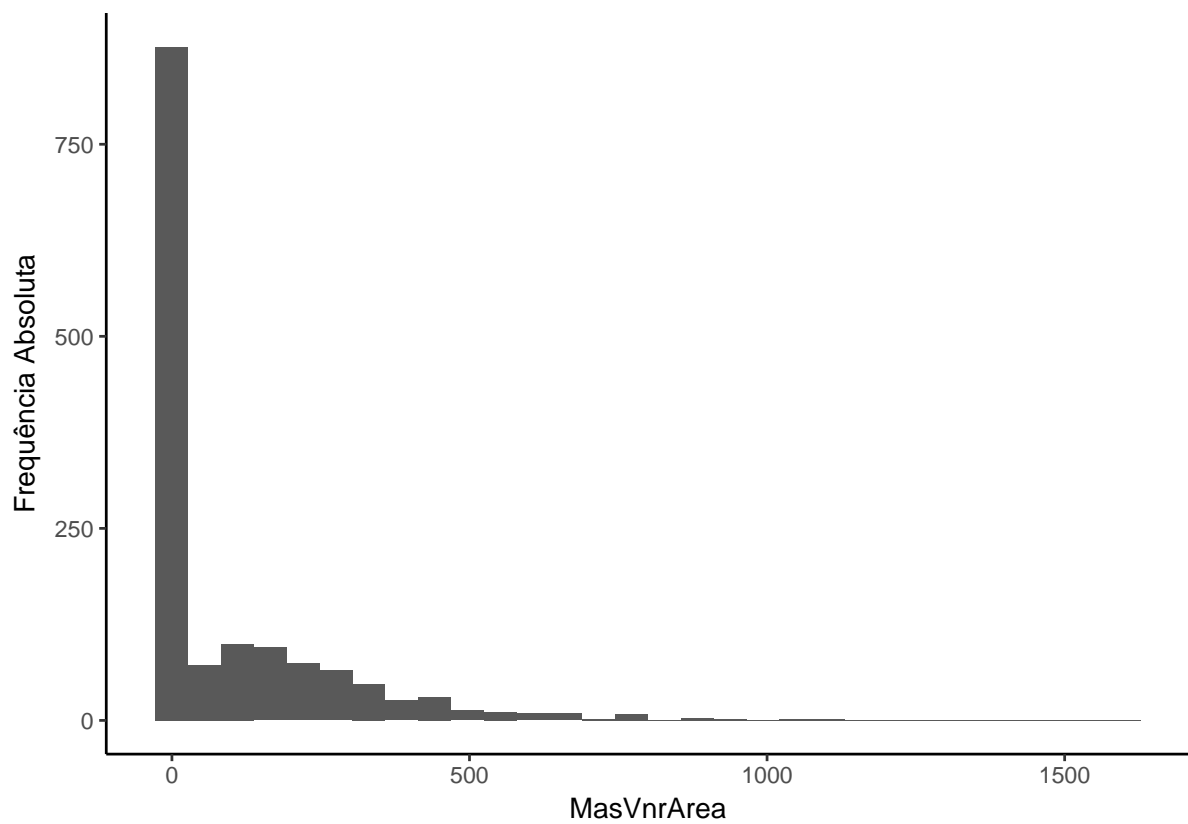
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



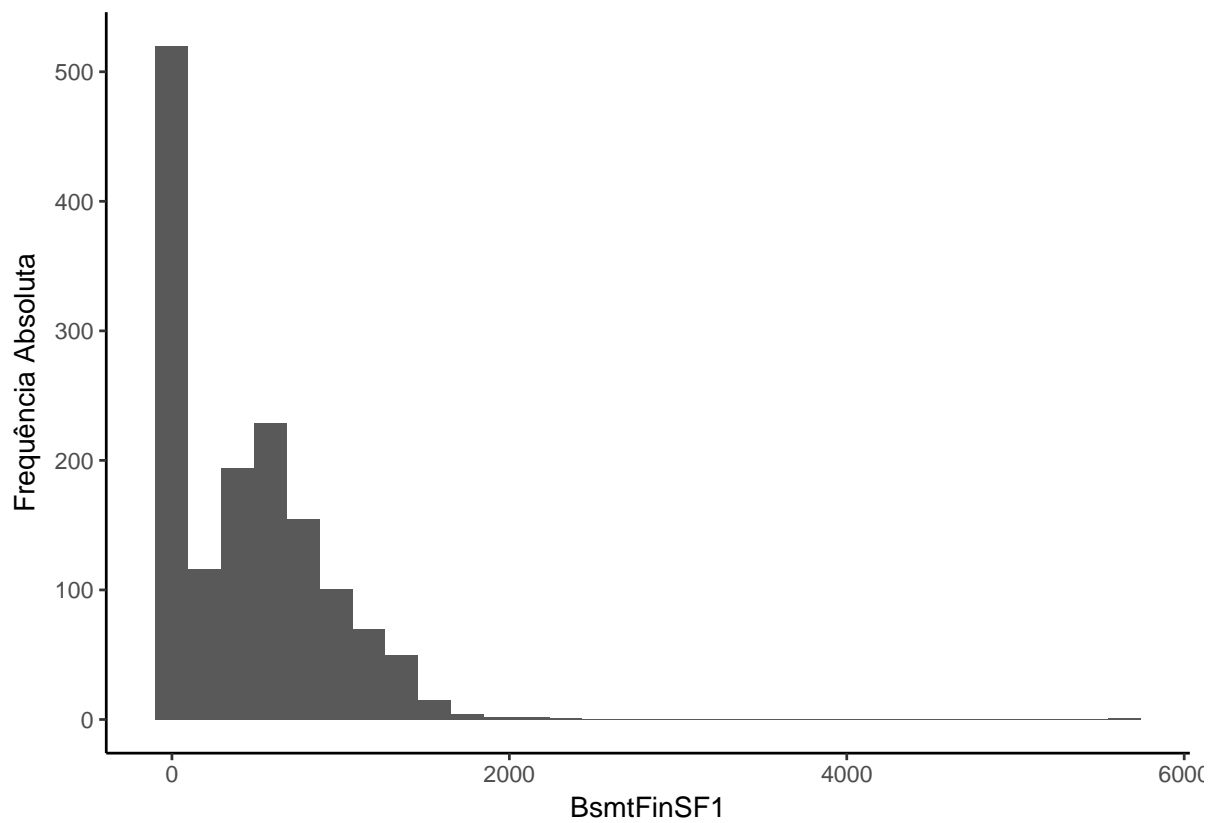
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



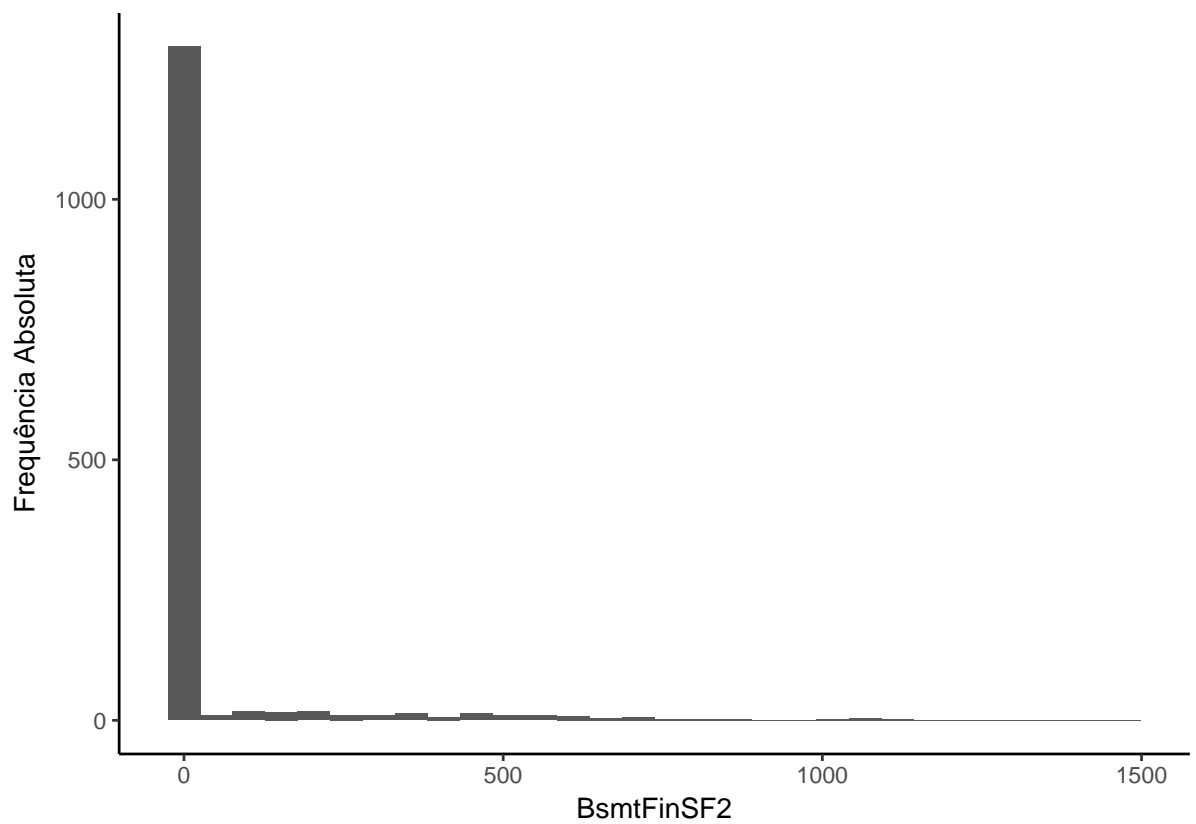
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



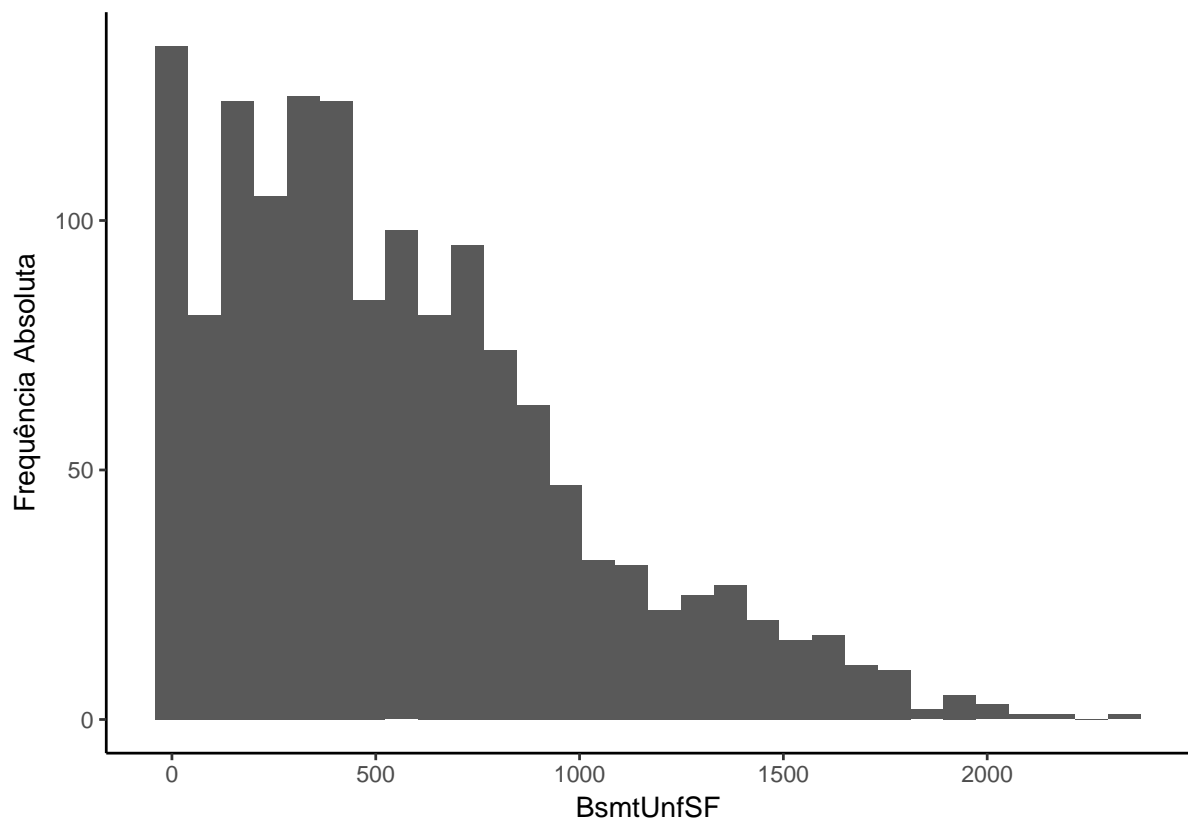
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



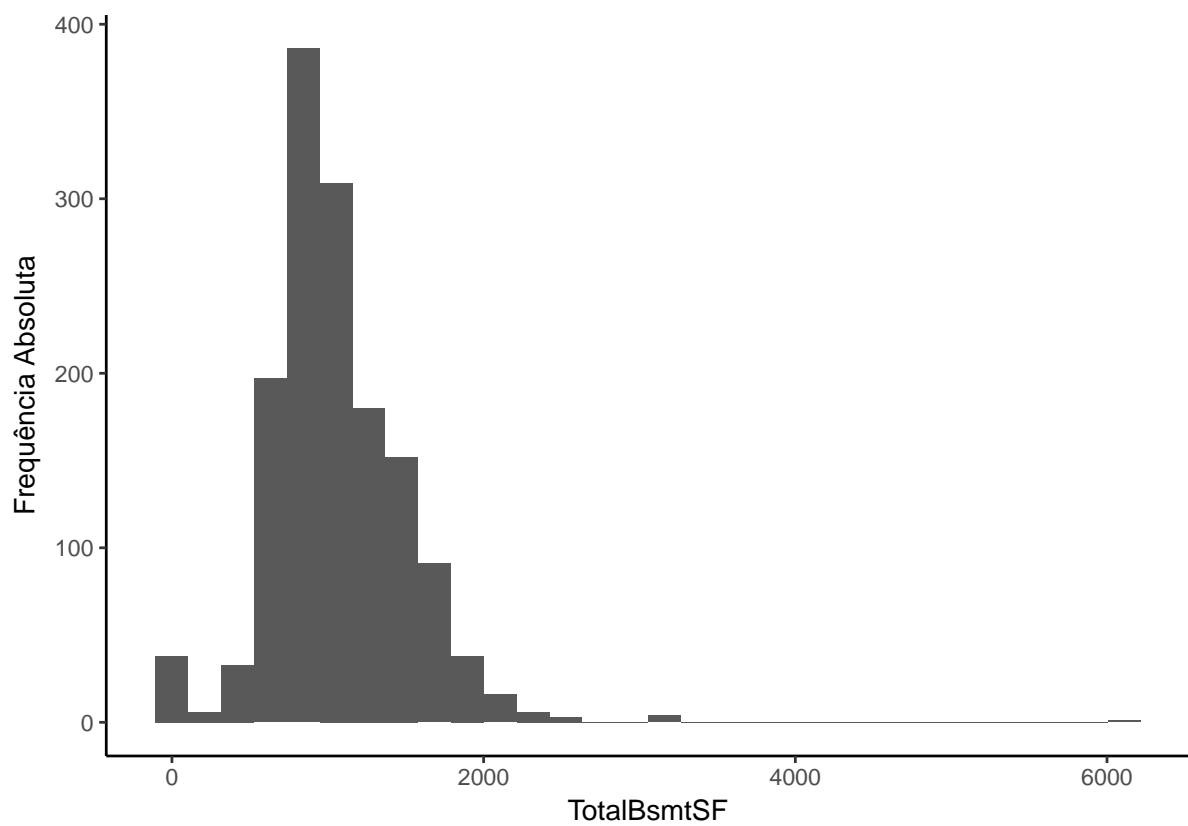
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



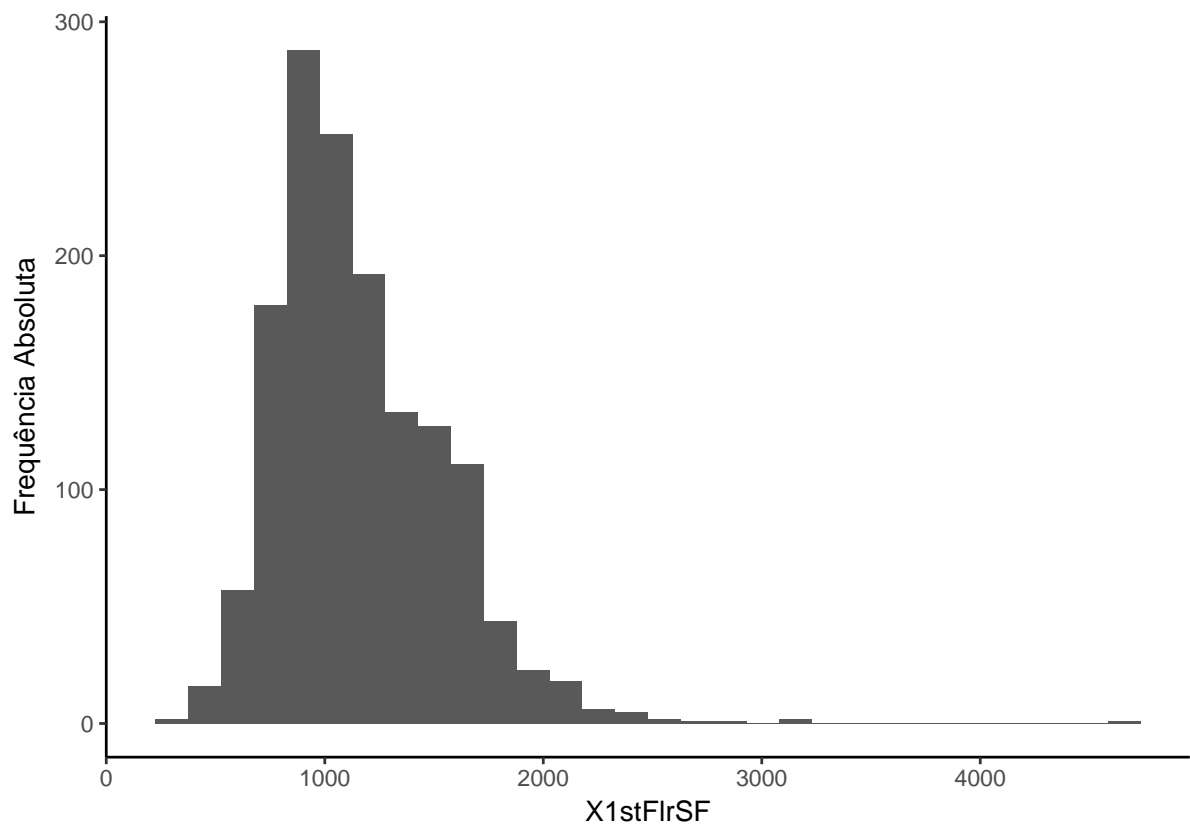
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



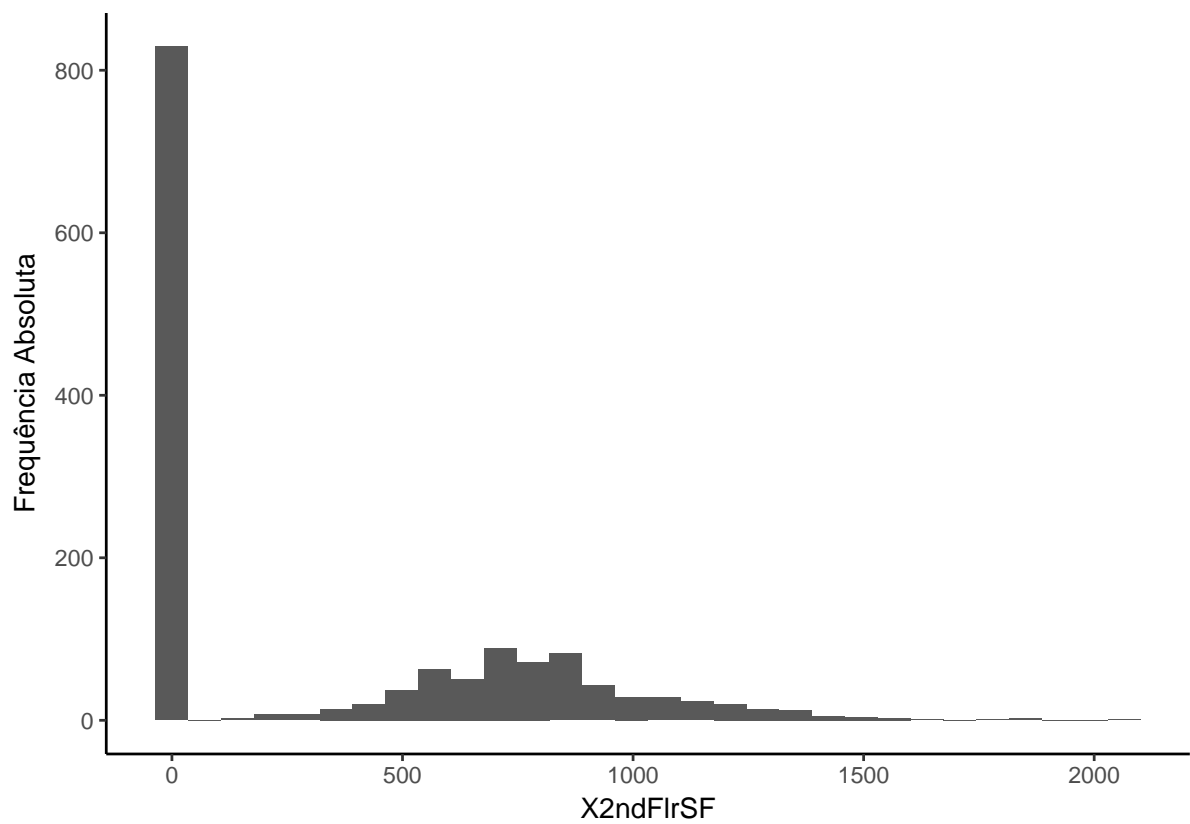
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



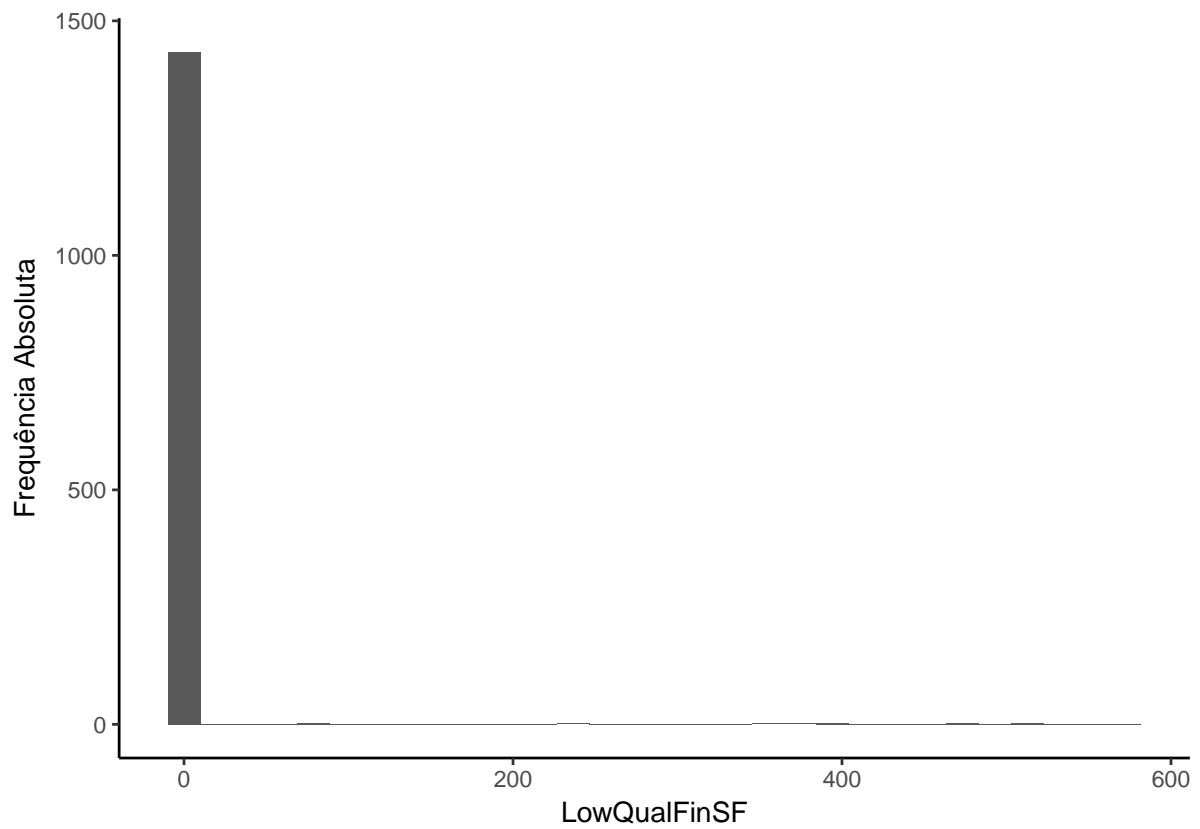
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



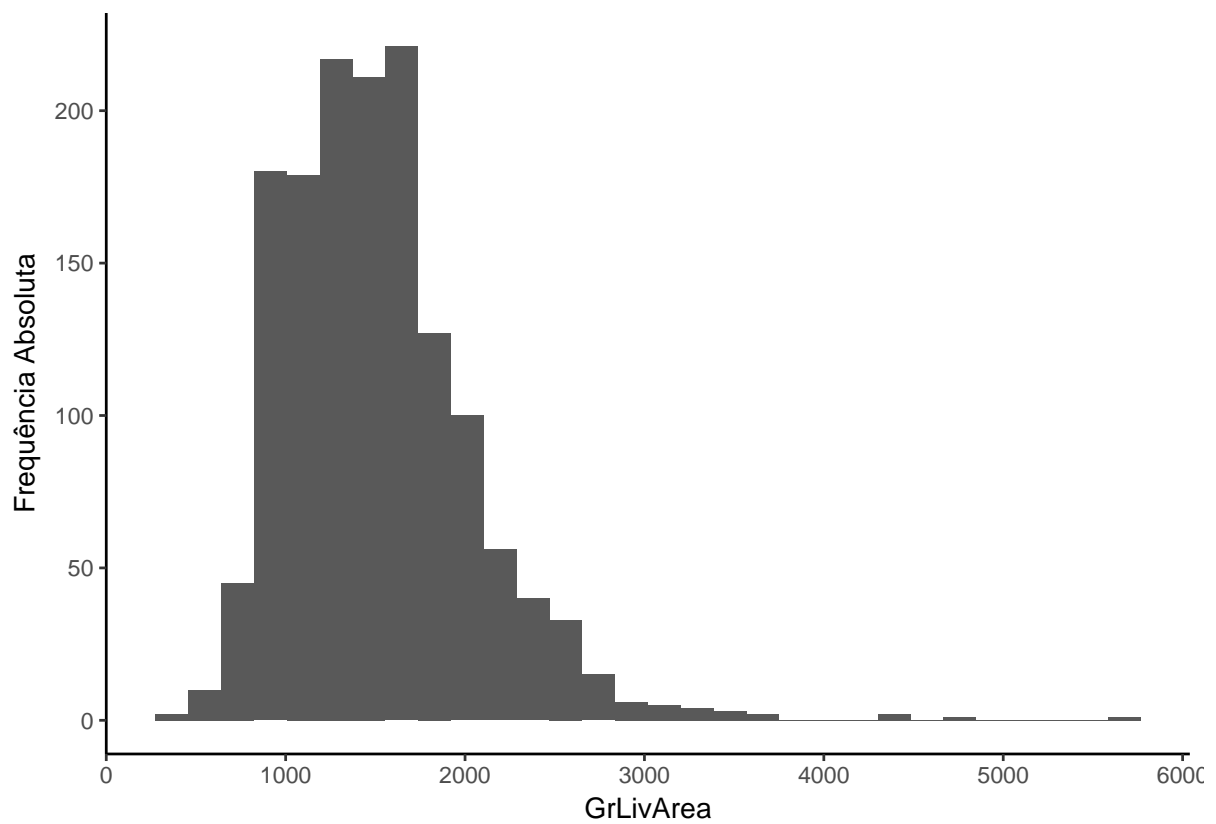
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



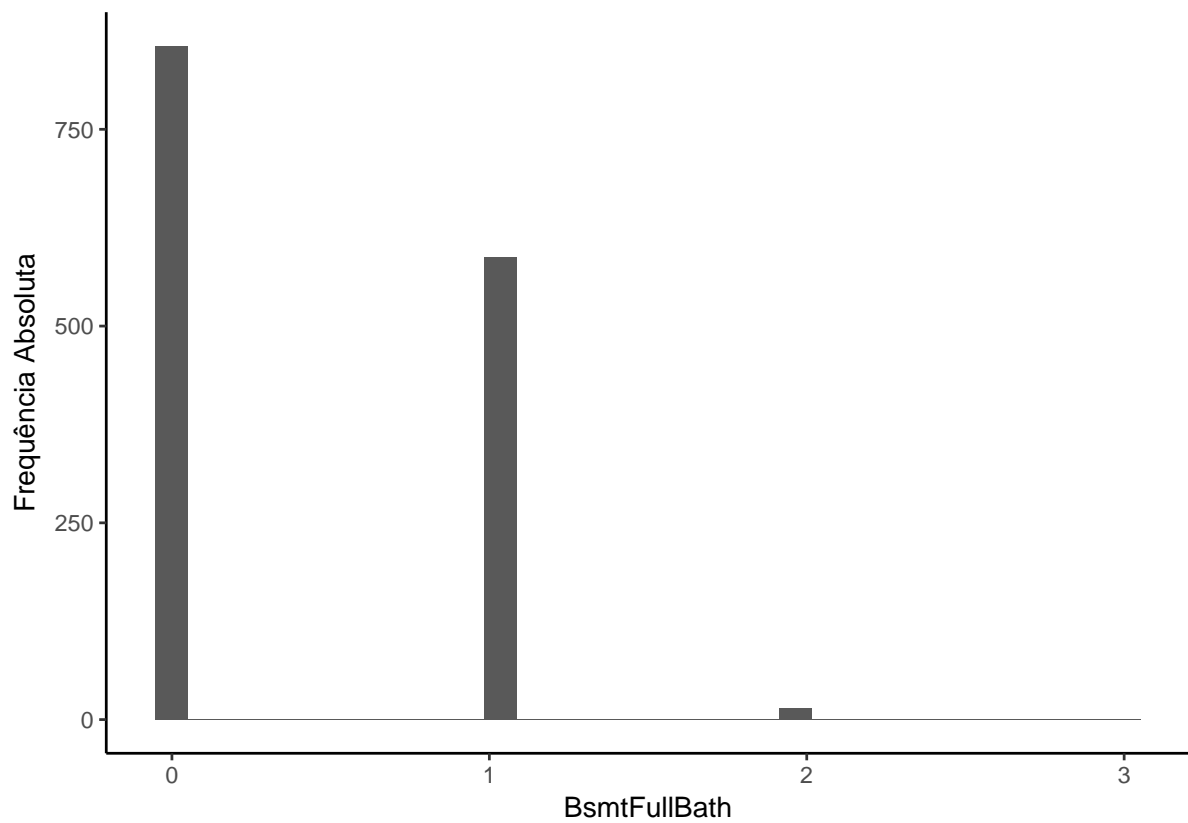
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



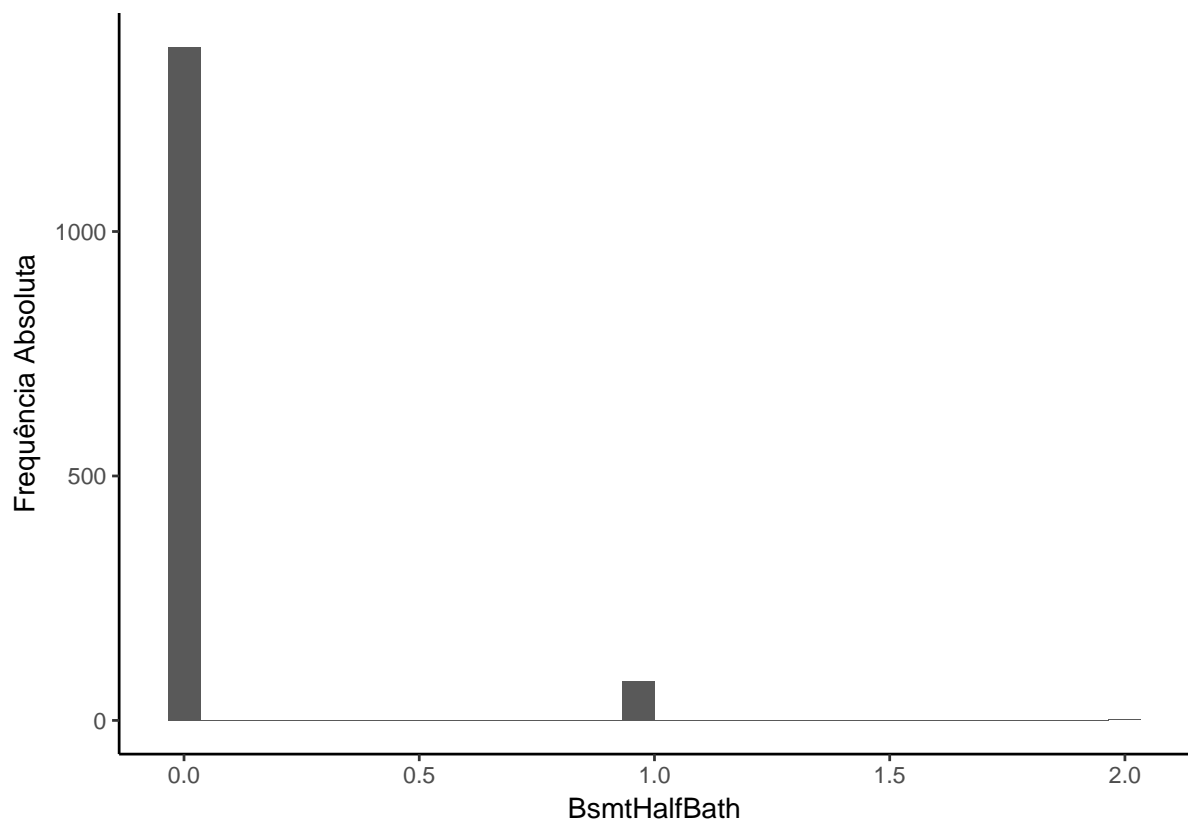
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



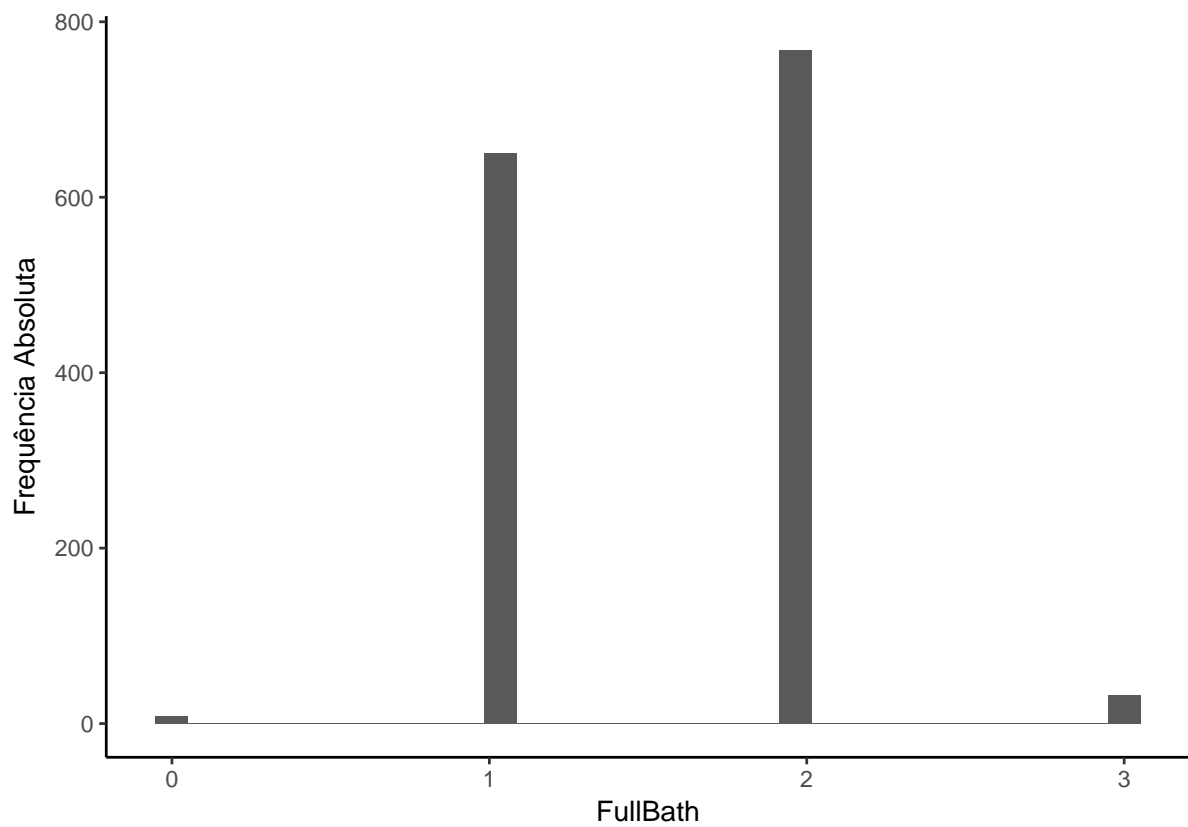
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



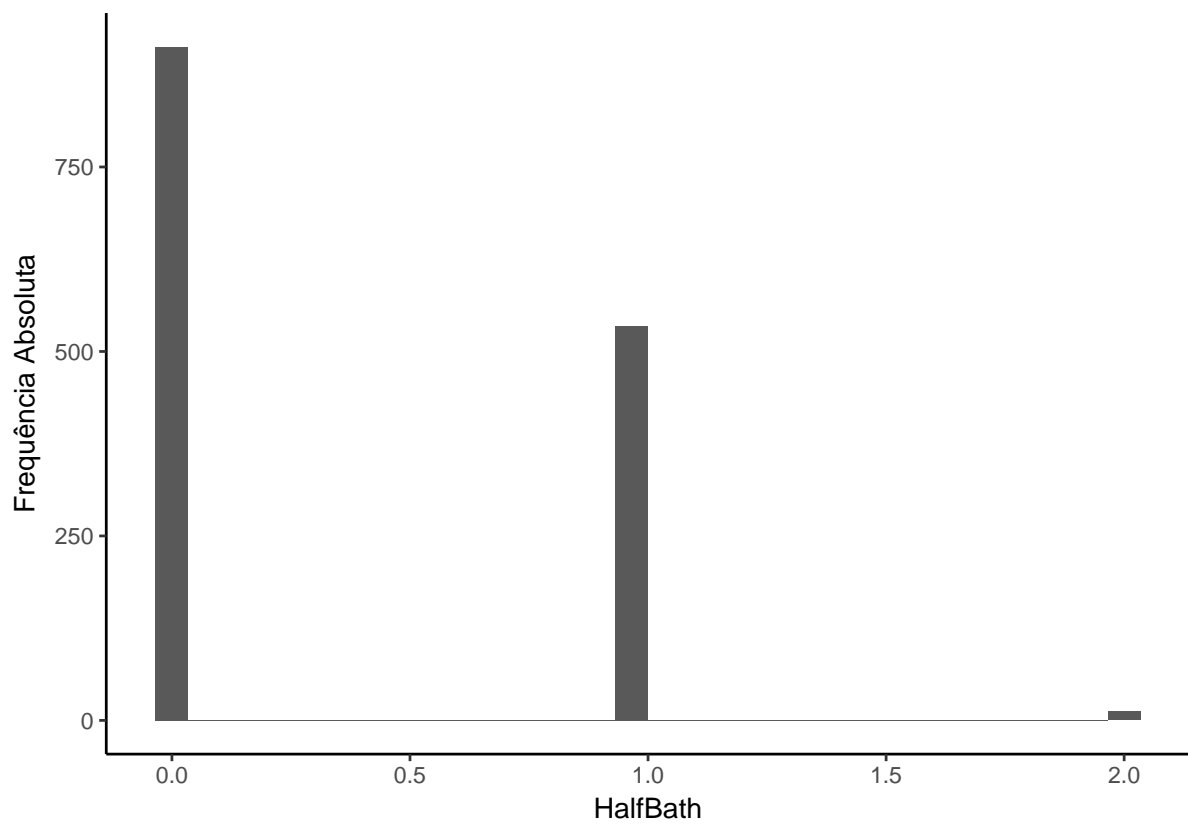
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



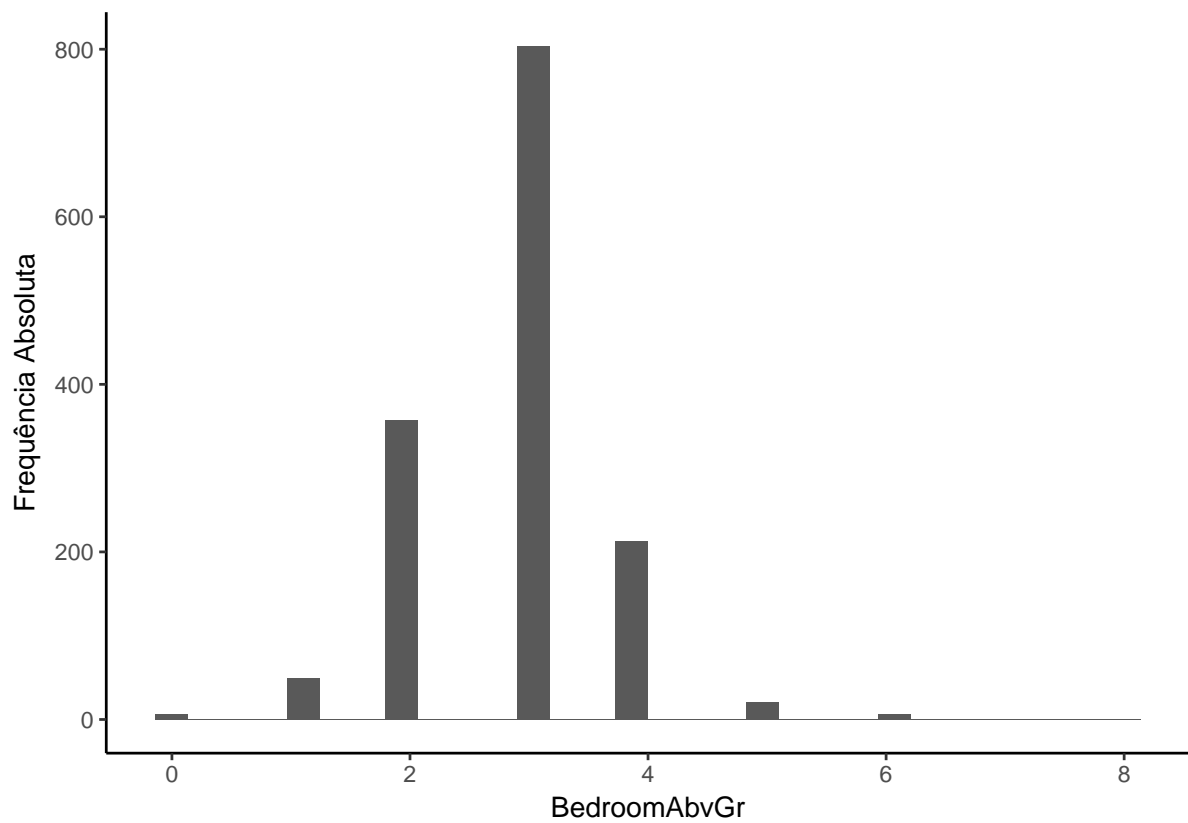
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



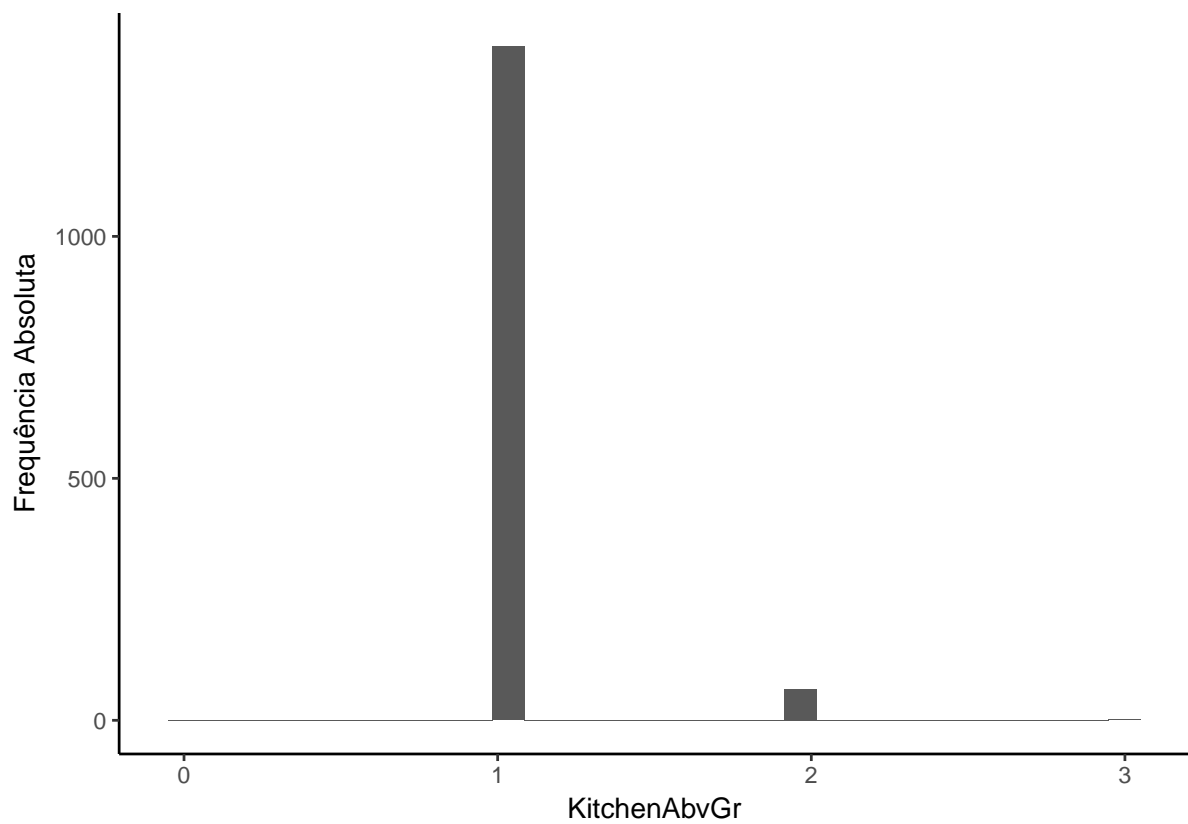
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



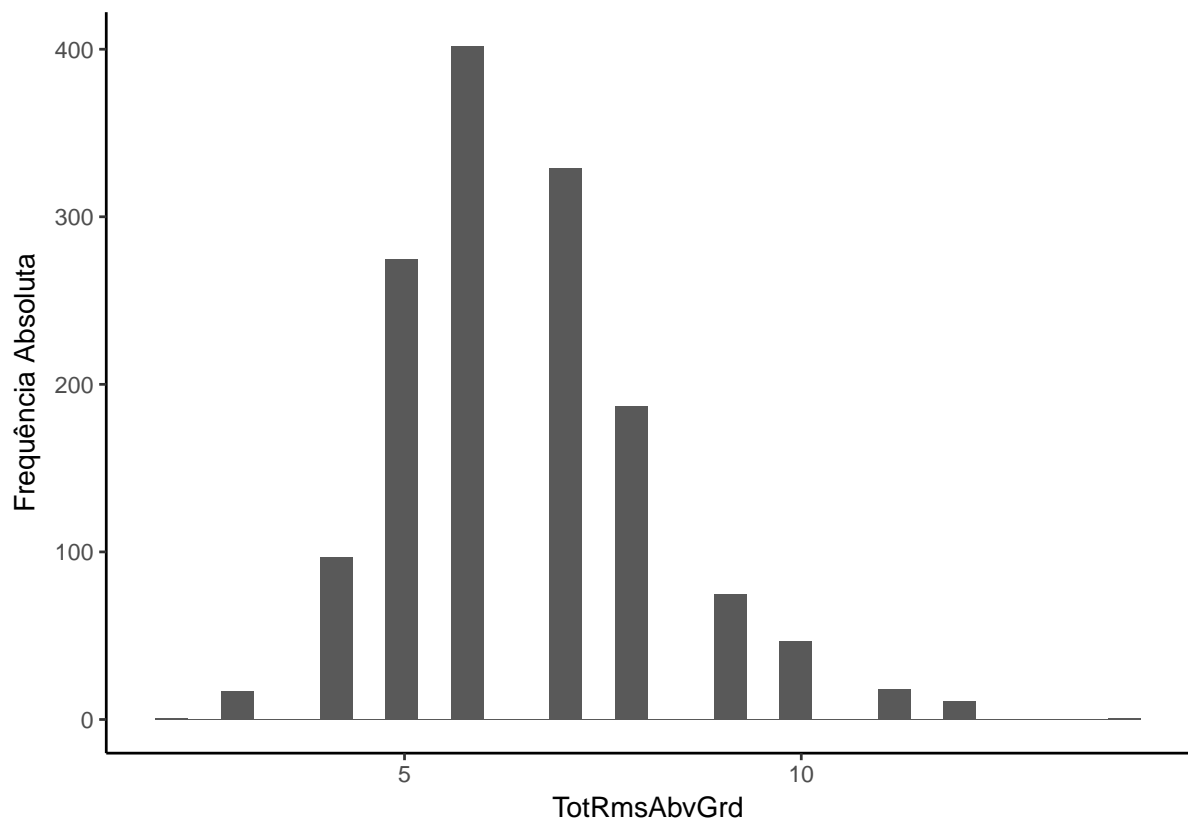
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

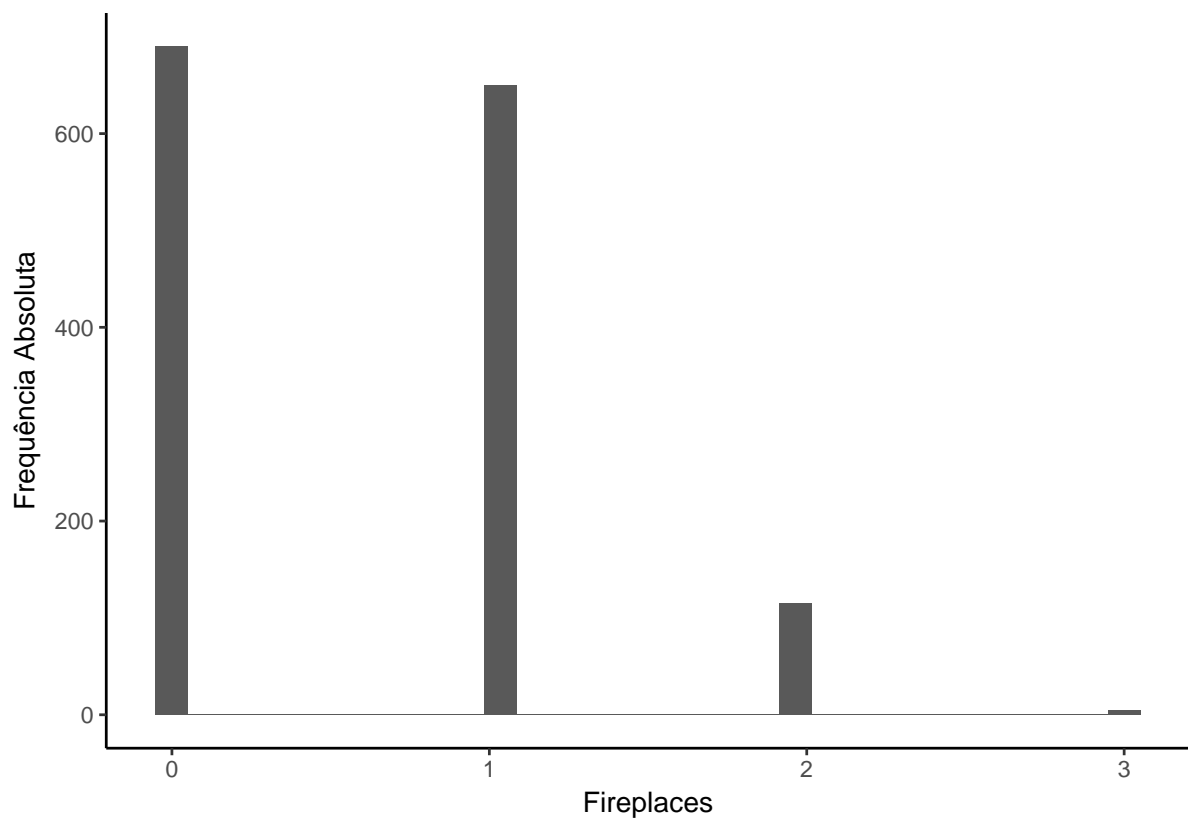
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



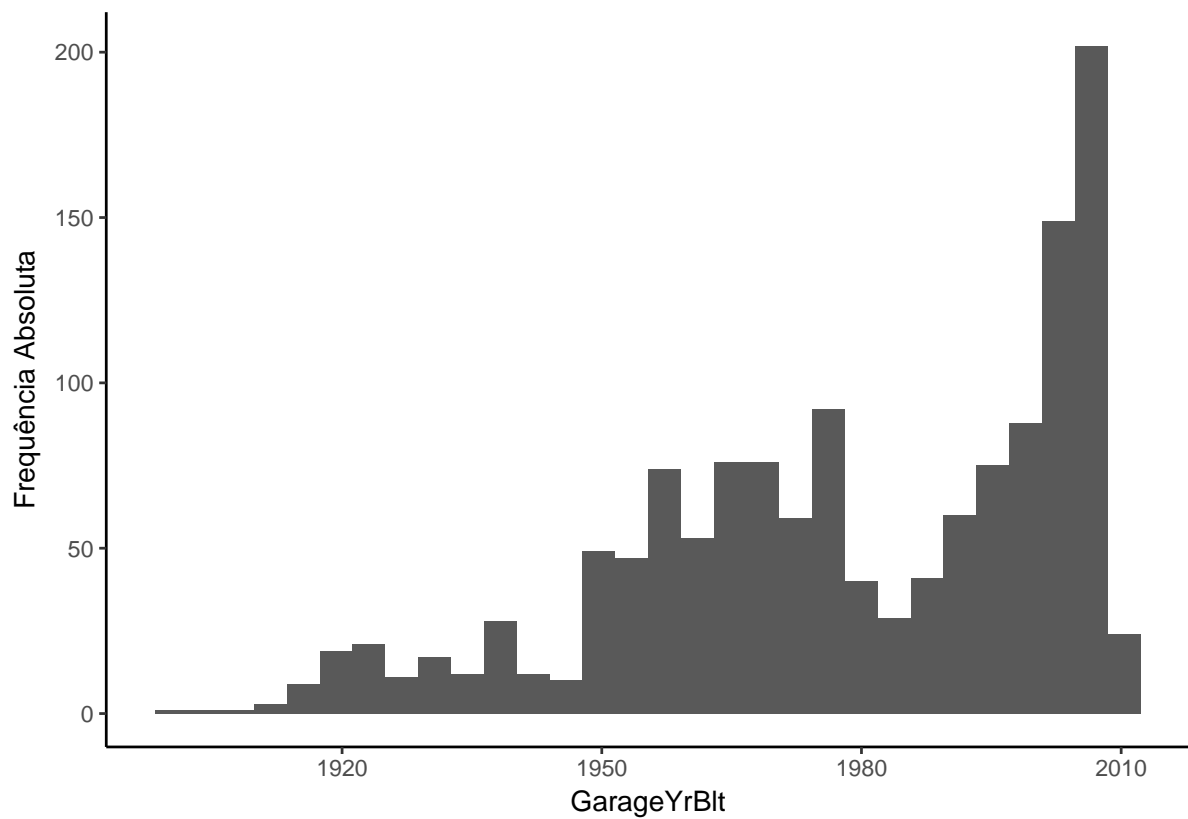
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



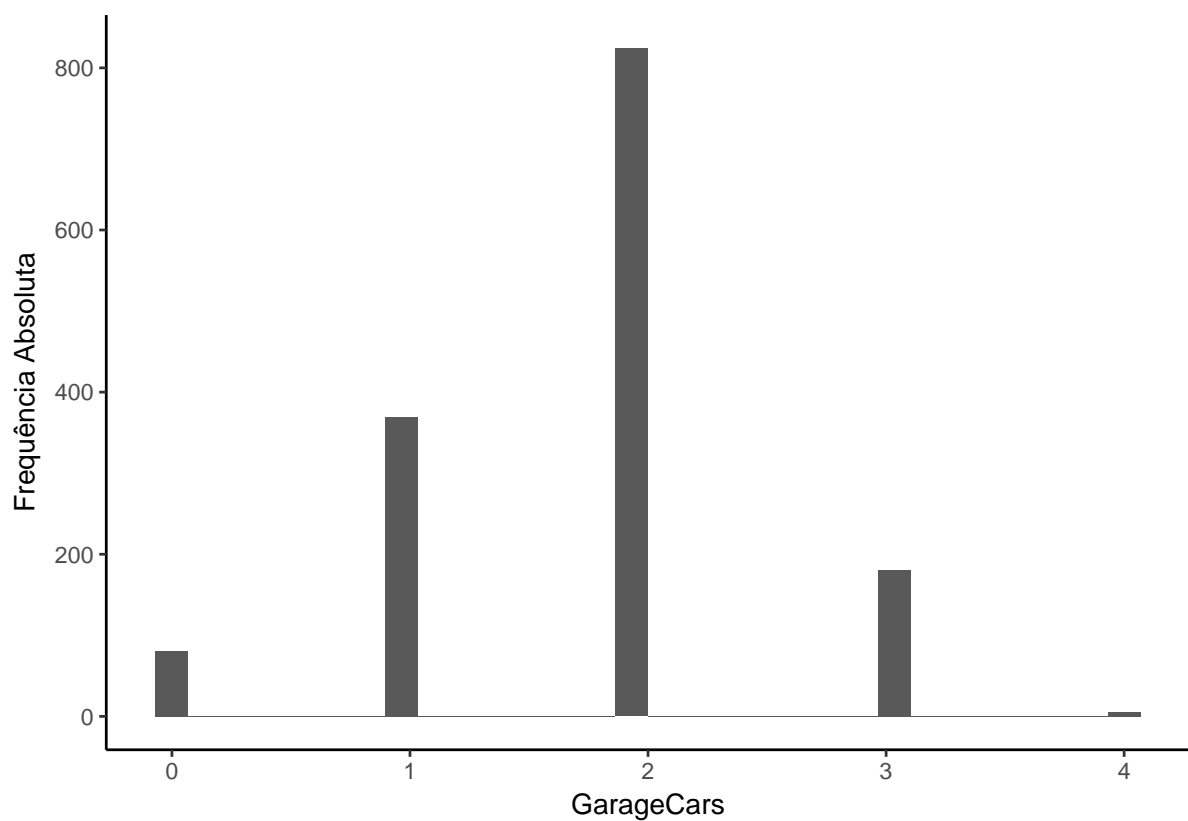
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



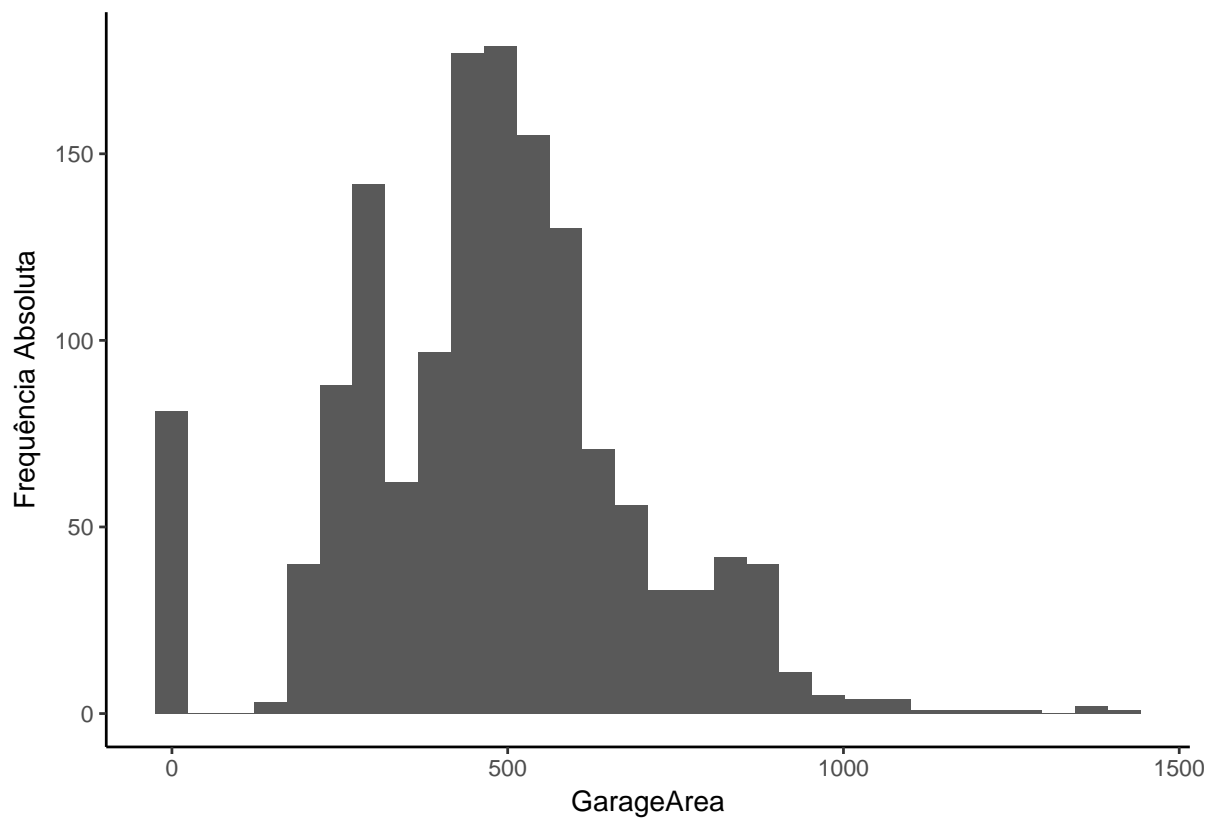
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



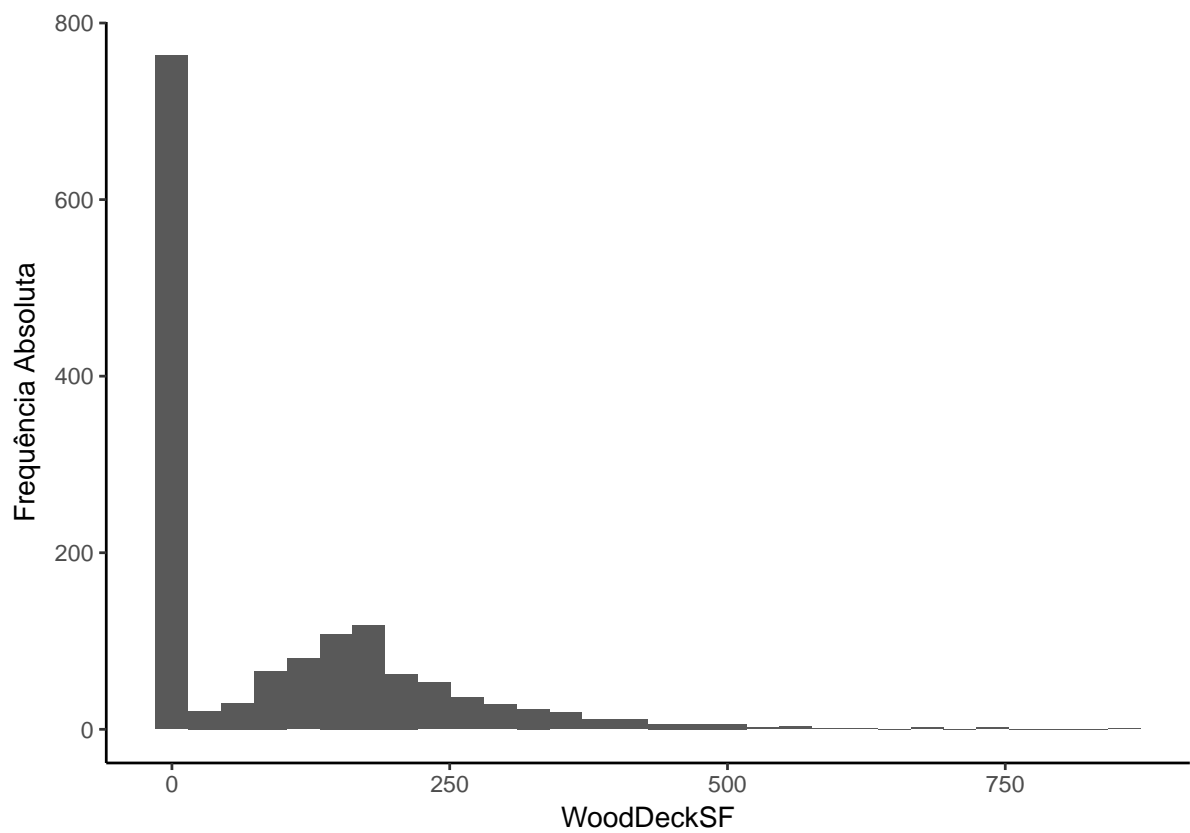
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



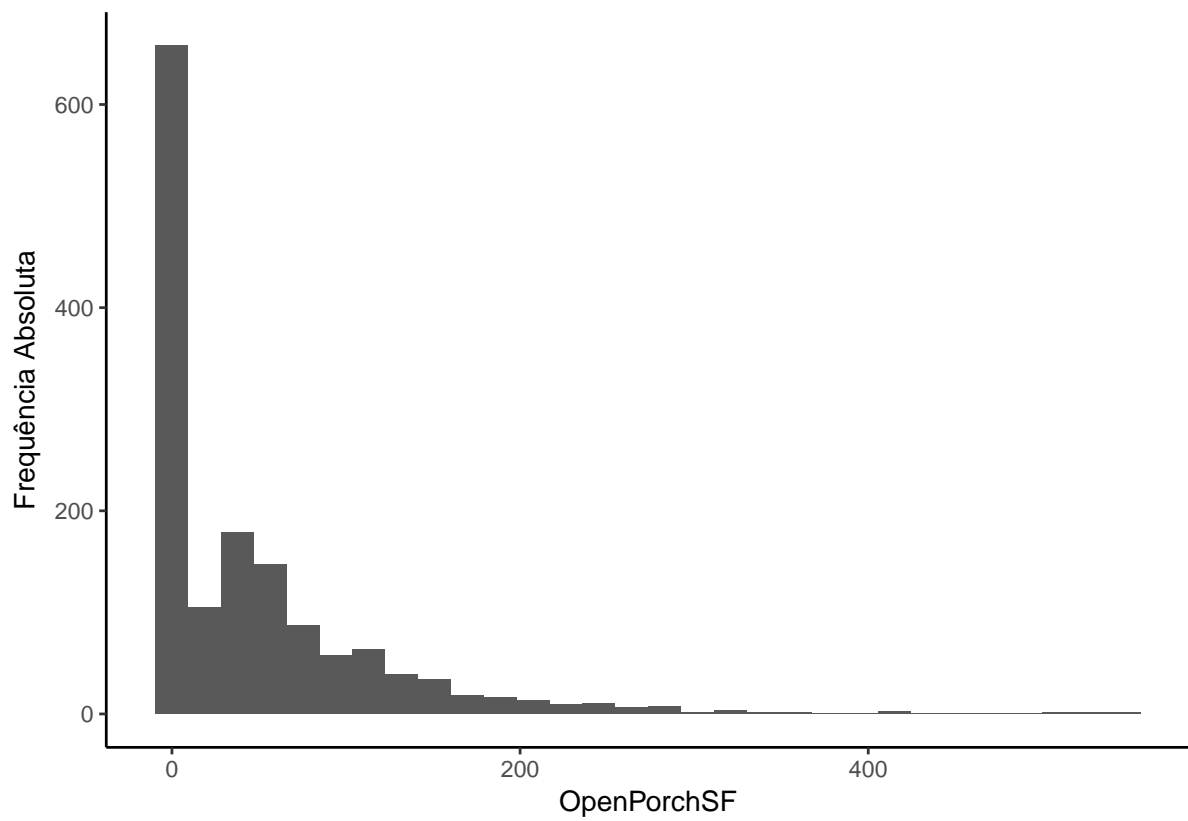
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



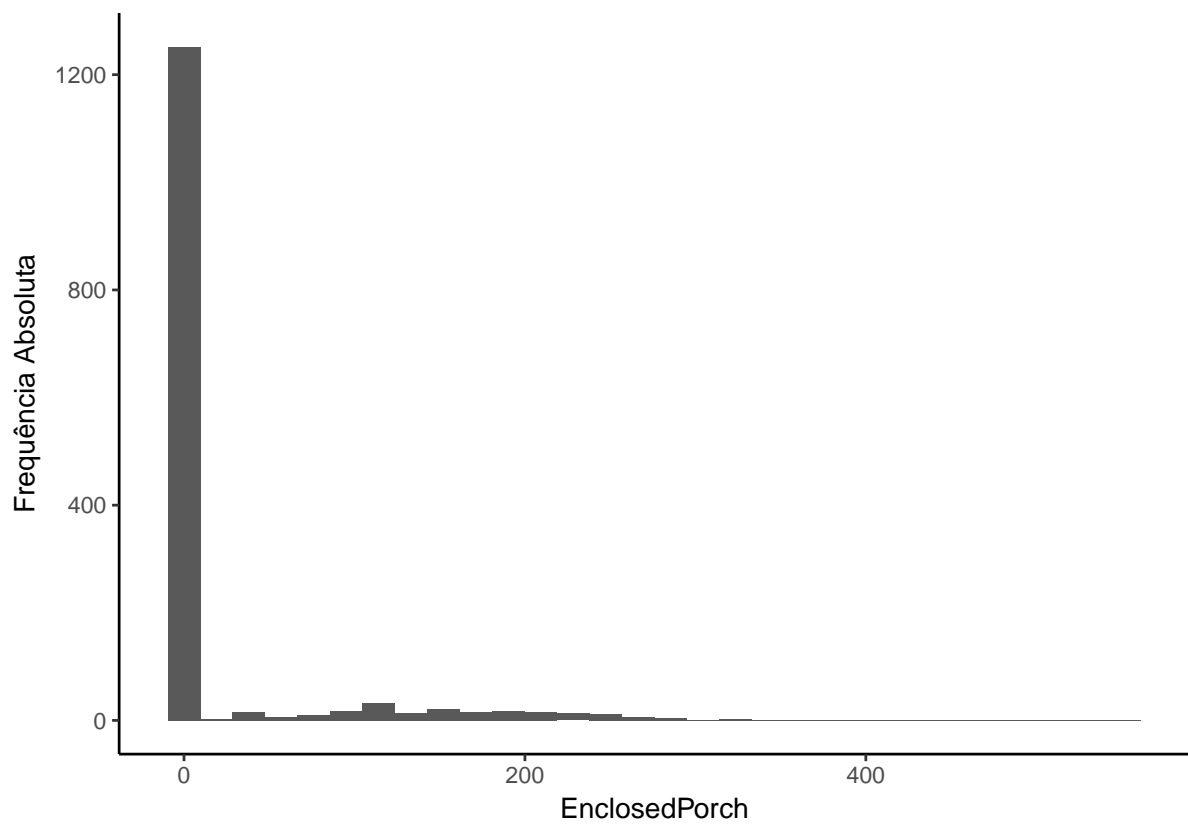
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



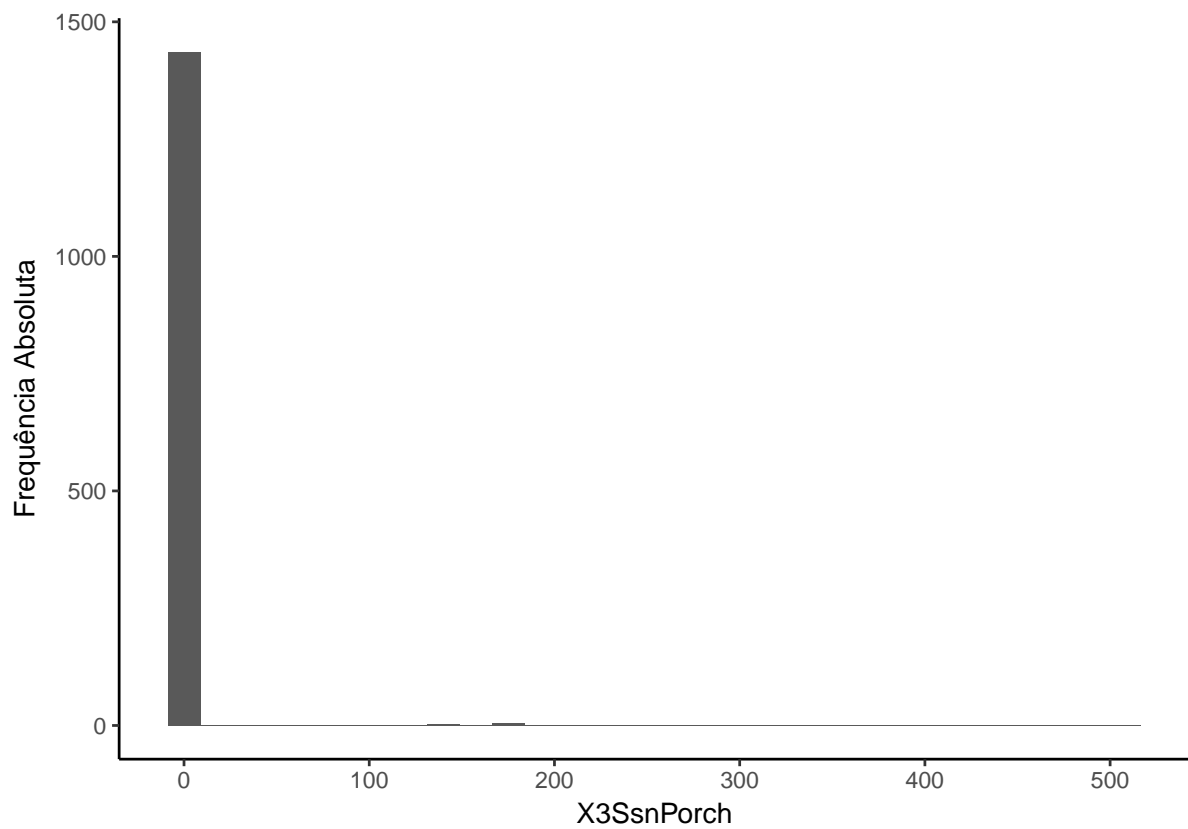
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



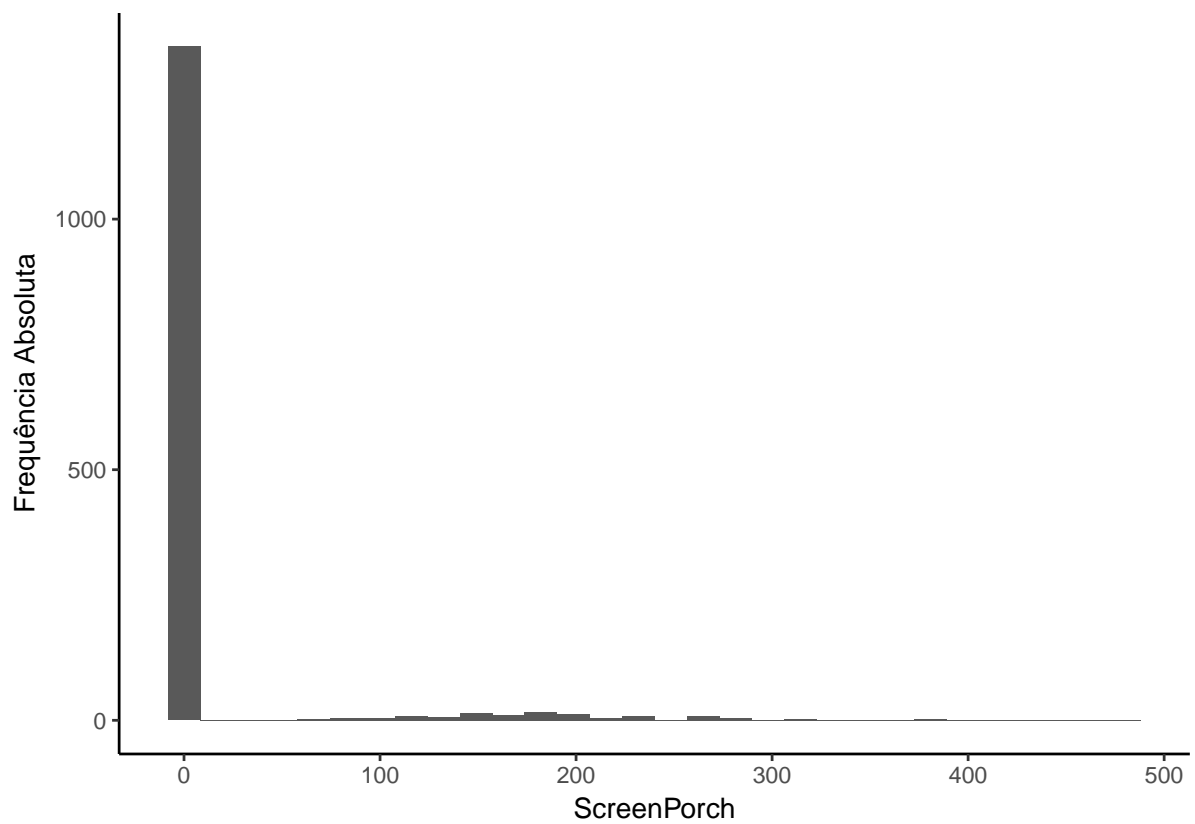
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



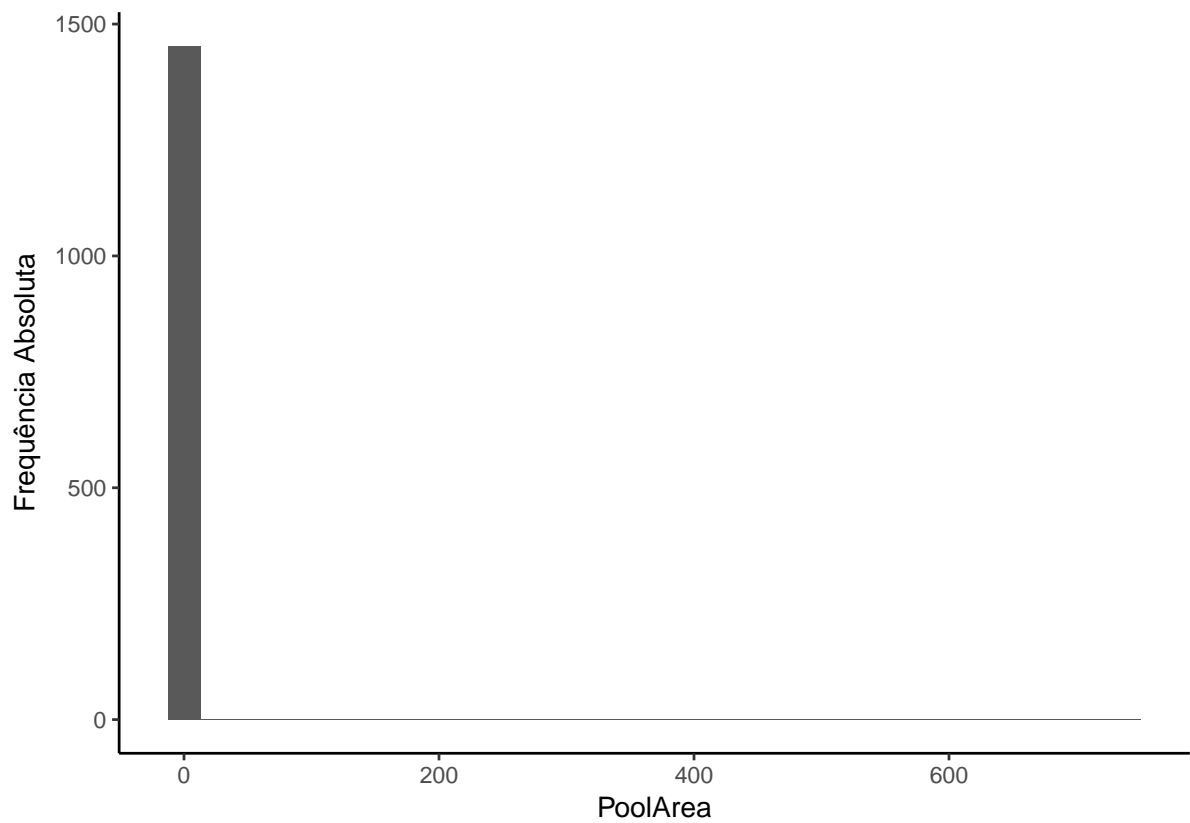
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



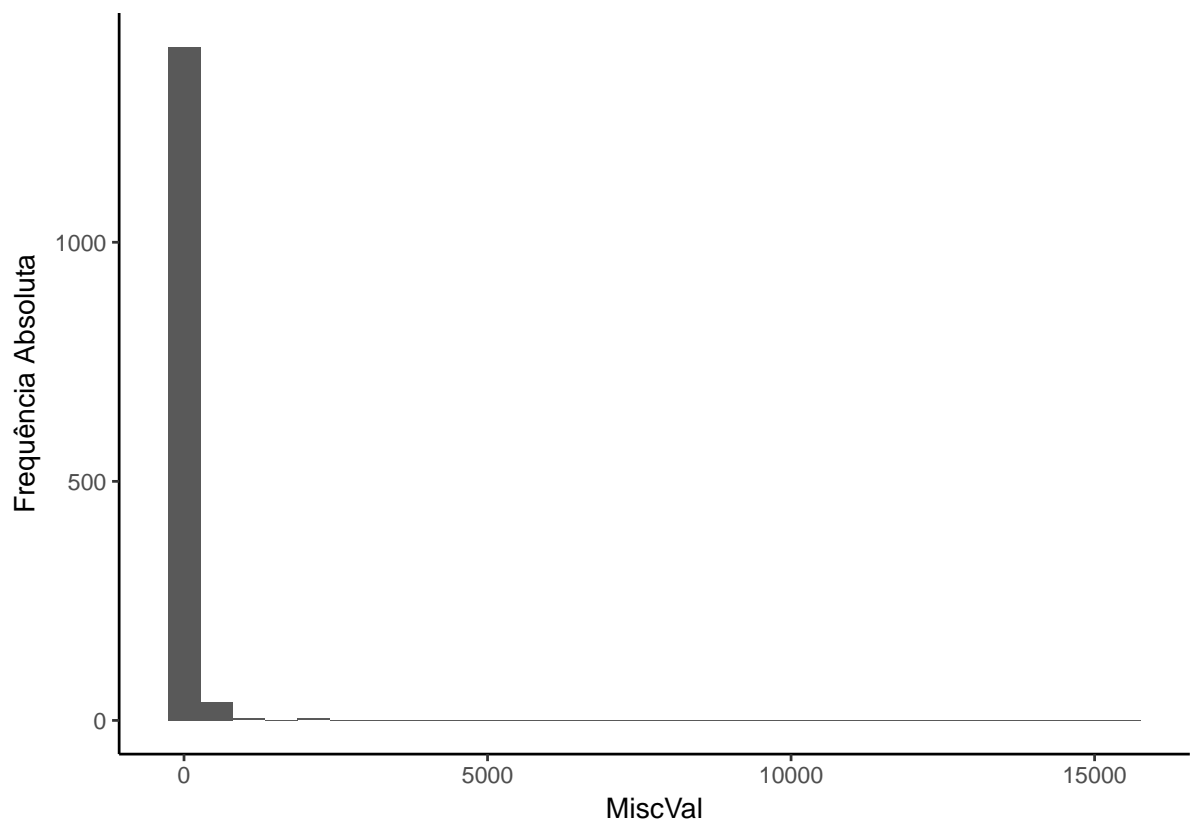
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



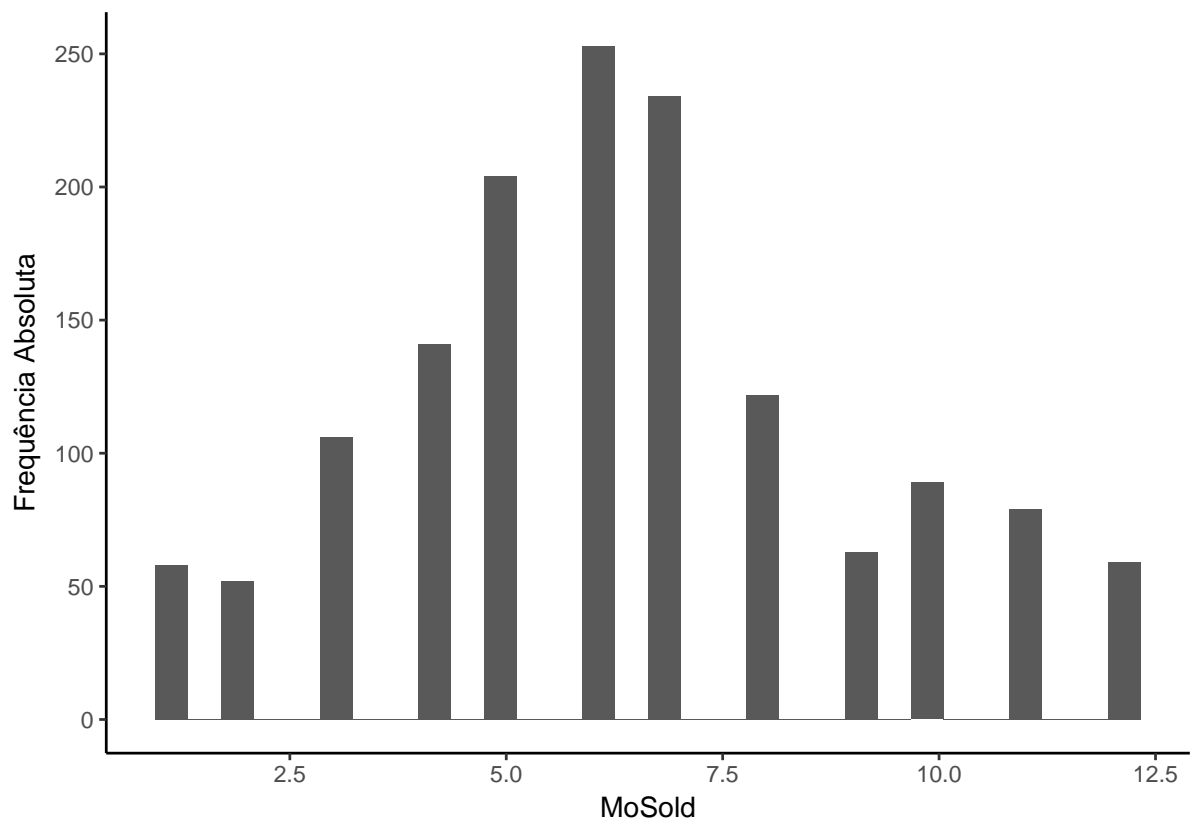
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



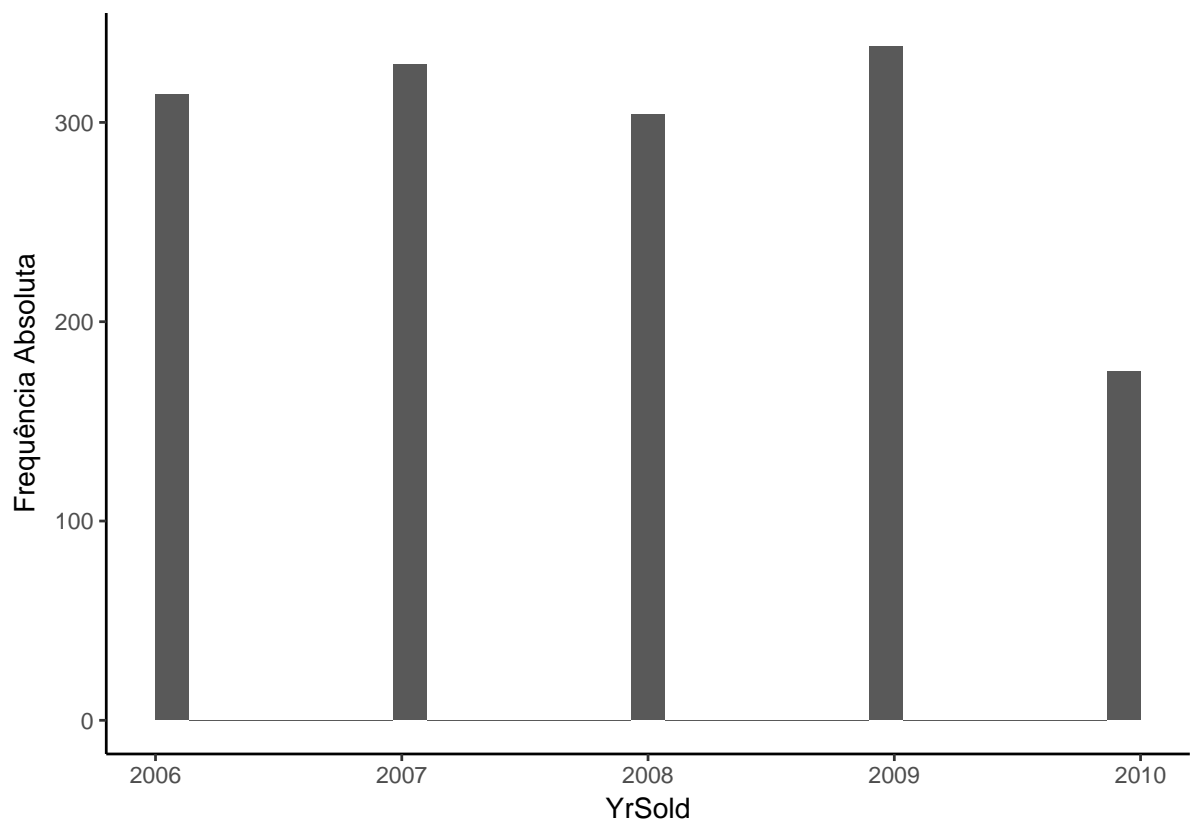
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



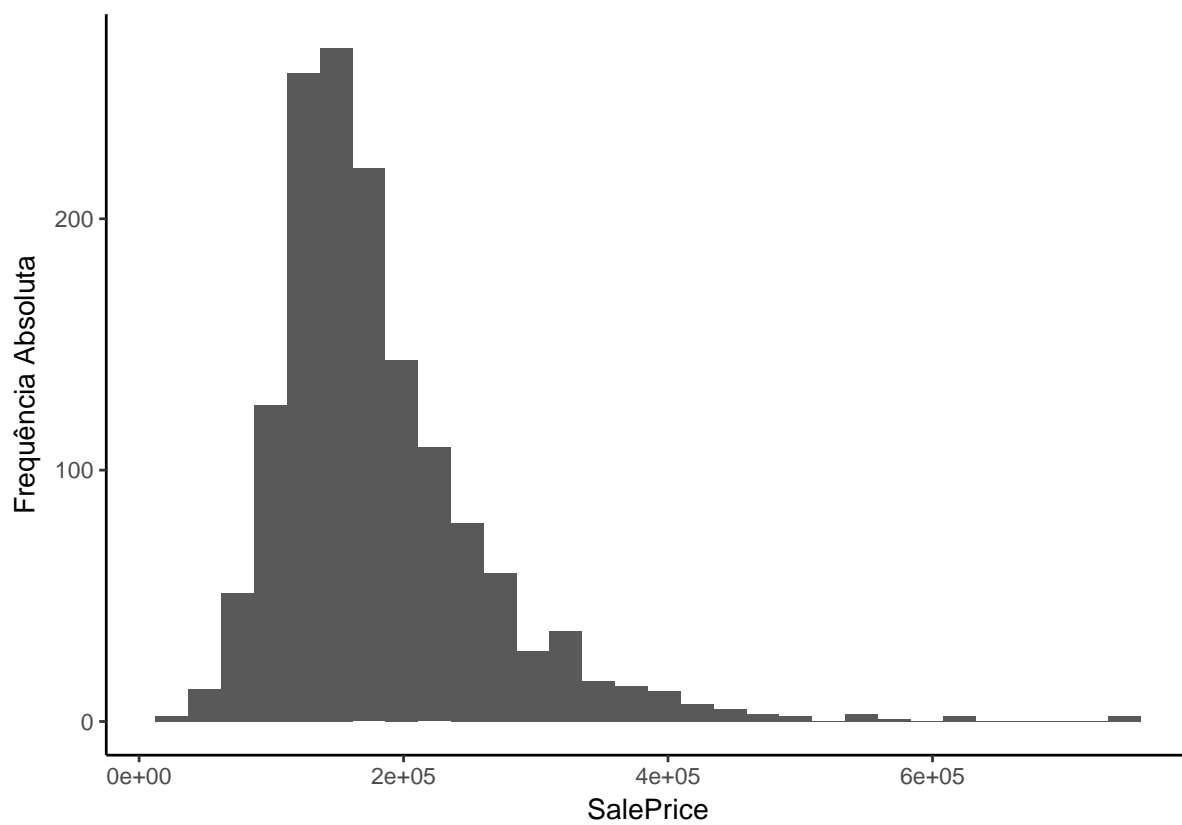
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

APÊNDICES

```
# Antes de começar dê um setwd na pasta HousePrices
# (onde quer que ela esteja no seu pc)

# setwd("Exploratory/");

# Importando dados
training_data <- read.csv(file="../Data/train.csv", as.is=FALSE);
remover_colunas <- c("Id");
training_data <- training_data[ , !(names(training_data) %in% remover_colunas ) ];

# Transformando as variáveis qualitativas que aparecem como um código numérico em fatores
training_data$MSSubClass <- as.factor(training_data$MSSubClass);

# Tipos das variáveis
vars_tipo <- sapply(X=training_data, FUN=class);

library("ggplot2");

qualitativas <- which(vars_tipo=="factor");

for(ii in qualitativas){
  gg <- ggplot(data=training_data, mapping=aes_string(x=colnames(training_data)[ii]) ) +
    geom_bar() +
    scale_y_continuous(name="Frequência Absoluta") +
    theme_classic();
  print(gg);
}

quantitativas <- which(vars_tipo=="integer");

for(ii in quantitativas){
  gg <- ggplot(data=training_data,
    mapping=aes_string(x=colnames(training_data)[ii]) ) +
    geom_histogram() +
    scale_y_continuous(name="Frequência Absoluta") +
    theme_classic();
  print(gg);
}
```