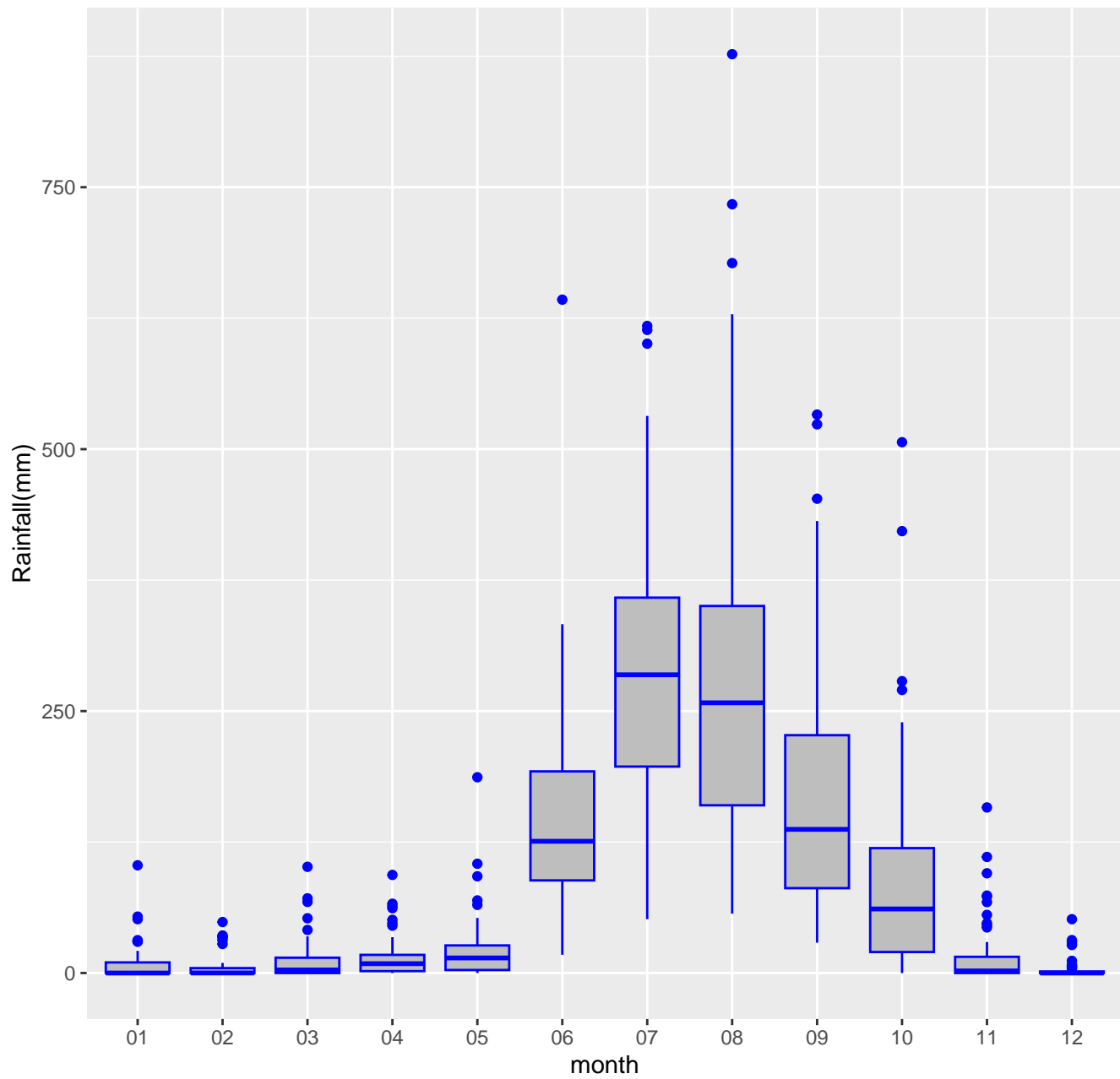
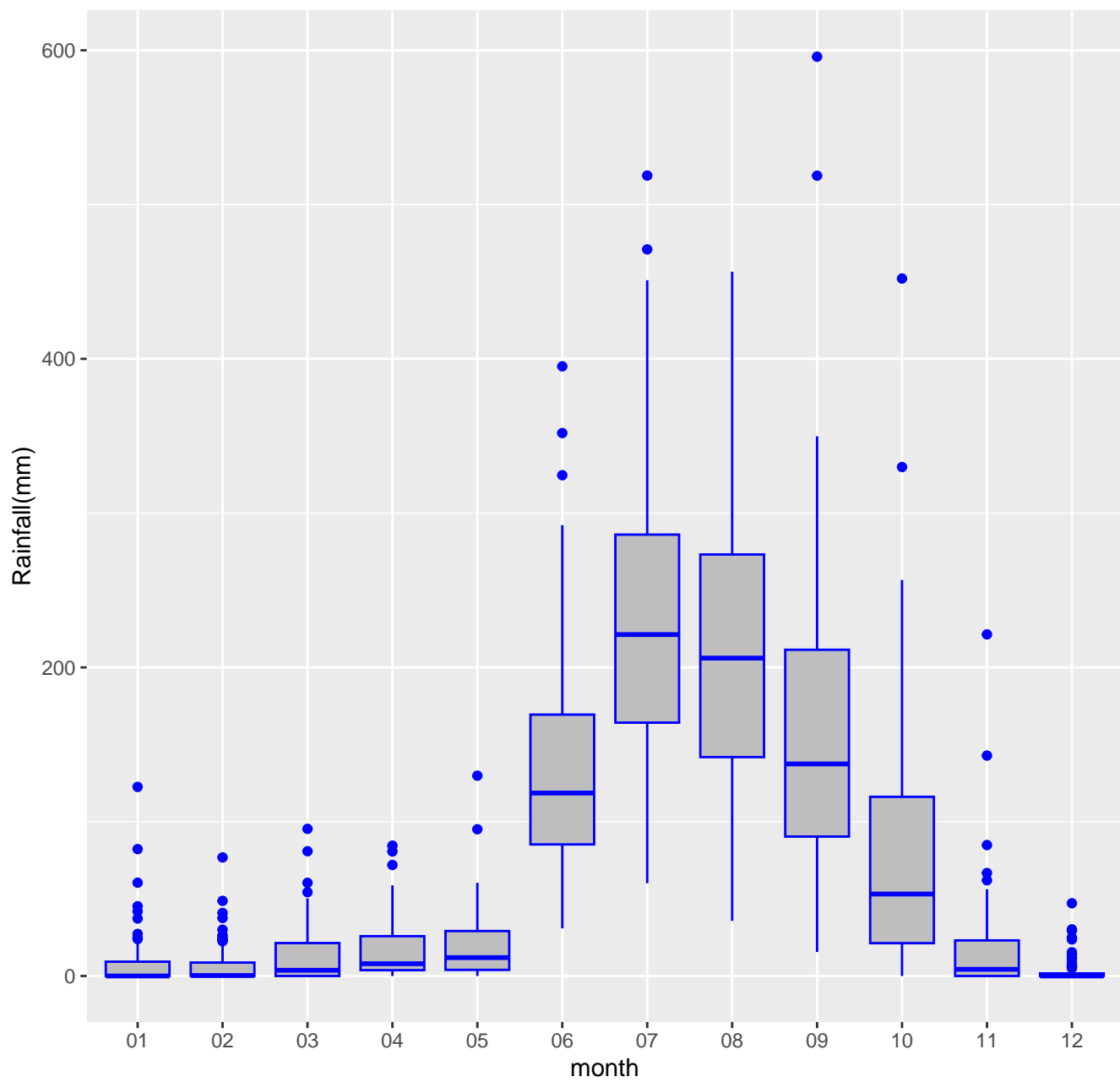


```
1 library(readxl)
2 library(ggplot2)
3
4 csv_files <- list.files(path = "C:/Users/user/Desktop/r term project", pattern = ".csv", full.names = TRUE)
5 allfiles <- list()
6
7 # Loop through the list of CSV files and read each file
8 for (csv_file in csv_files) {
9   data <- read.csv(csv_file)
10  allfiles[[csv_file]] <- data
11 }
12 plots<- list()
13 for (i in 1:length(allfiles)){
14   #taking files one by one from list
15   dailyrain<- data.frame()
16   dailyrain<- allfiles[[i]]
17   temp<- dailyrain
18   colnames(temp)[2]<- 'Rainfall(mm)' #change 2nd column name to rainfall
19
20   #changing daily data to monthly
21   temp$year<- strftime(temp$Date, '%Y')
22   temp$month<- strftime(temp$Date, '%m')
23   monthlydata<- aggregate(`Rainfall(mm)`~month+year,temp,FUN=sum)
24
25   #plotting monthly boxplot
26   plot<-ggplot(monthlydata, aes(x=month, y= `Rainfall(mm)`, group=month))+geom_boxplot(color= 'blue', fill= 'grey')+ ggtitle(colnames(dailyrain)[2])
27   plots[[i]]<- plot
28 }
29 dd<-data.frame()
30 for (i in 1:length((allfiles))){
31   dd<- allfiles[[i]]
32   pdf(file= paste0("plot", colnames(dd)[2],'.pdf'))
33   print(plots[[i]])
34   dev.off()
35 }
36
```

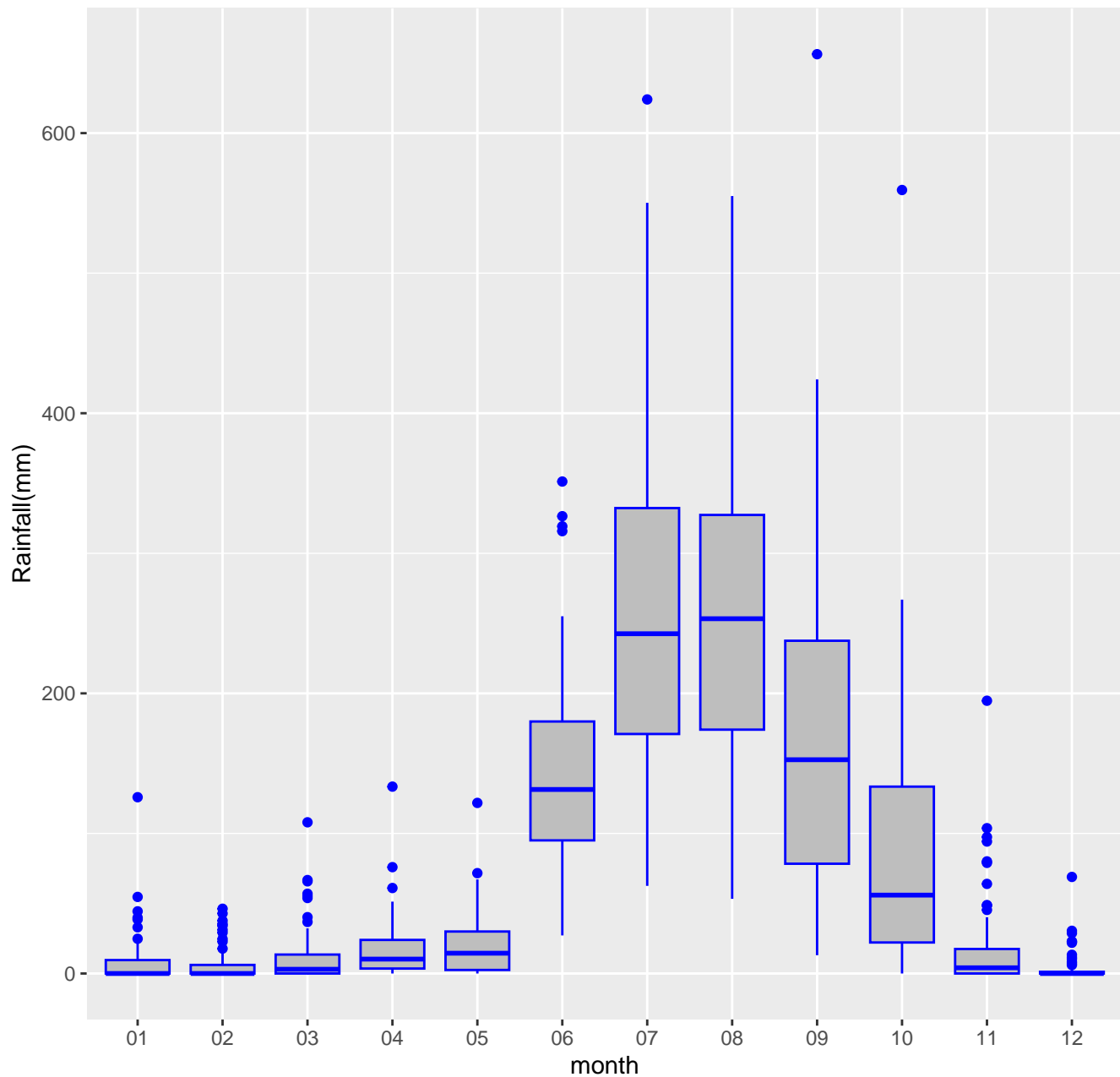
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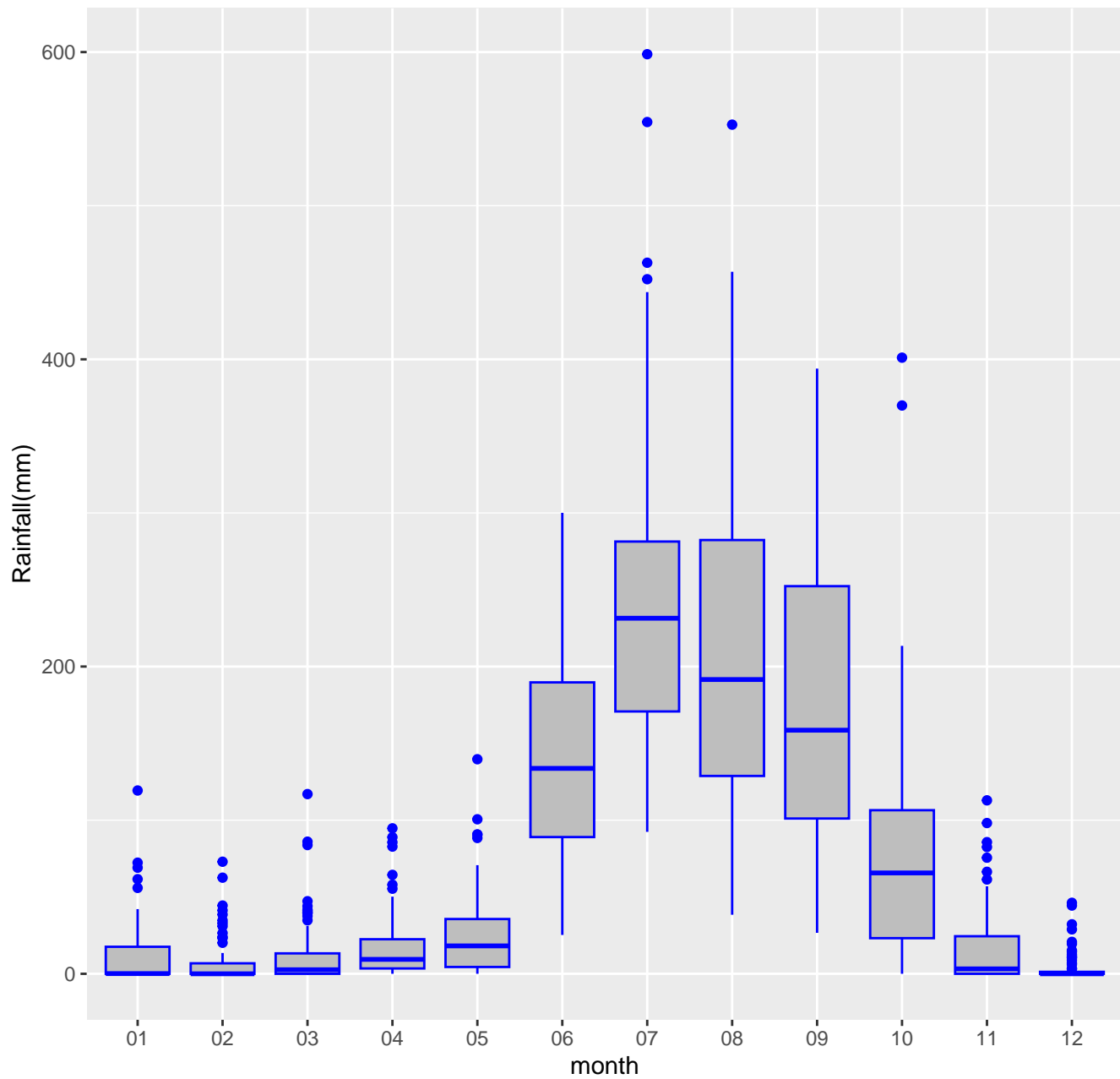
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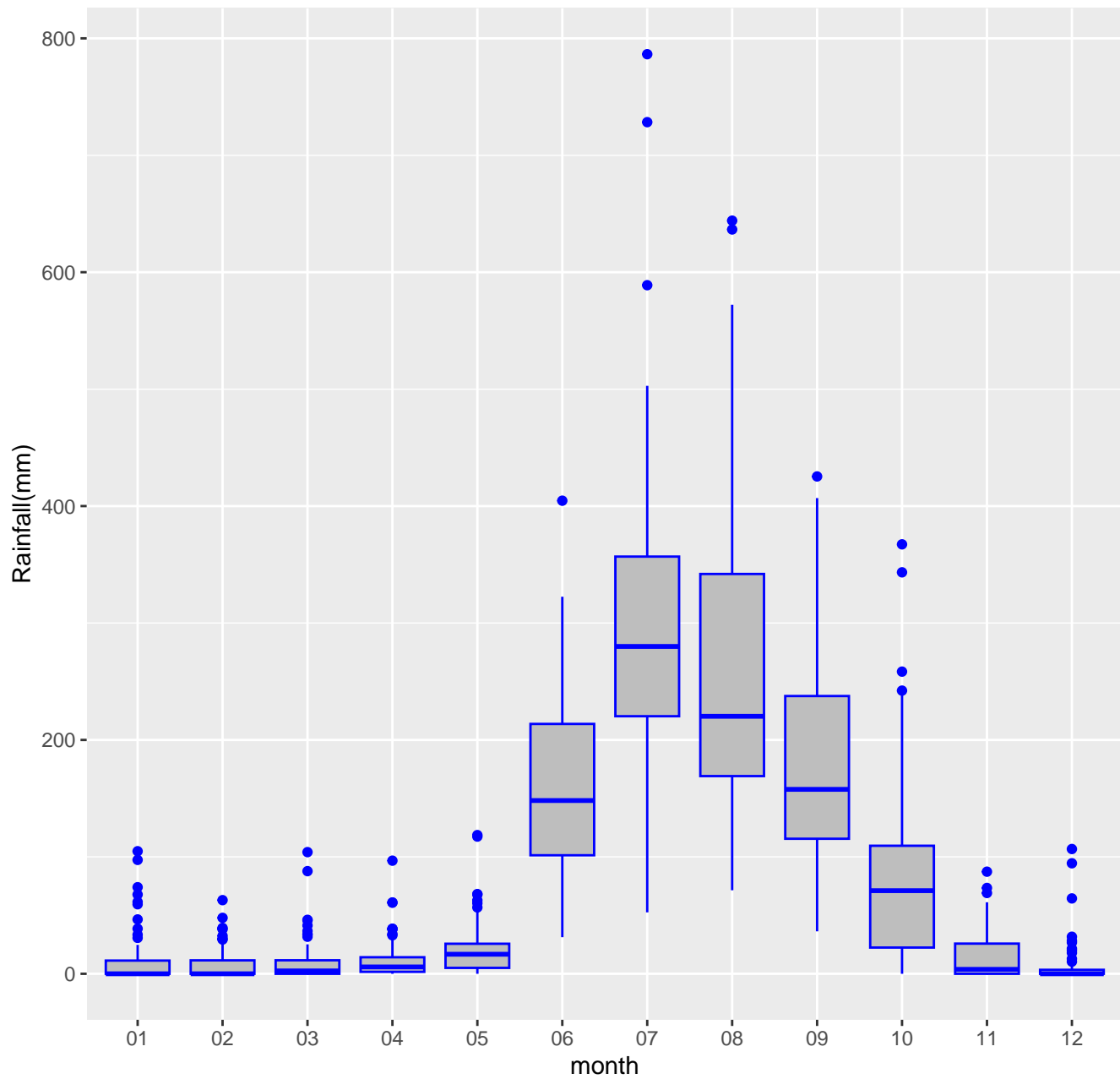
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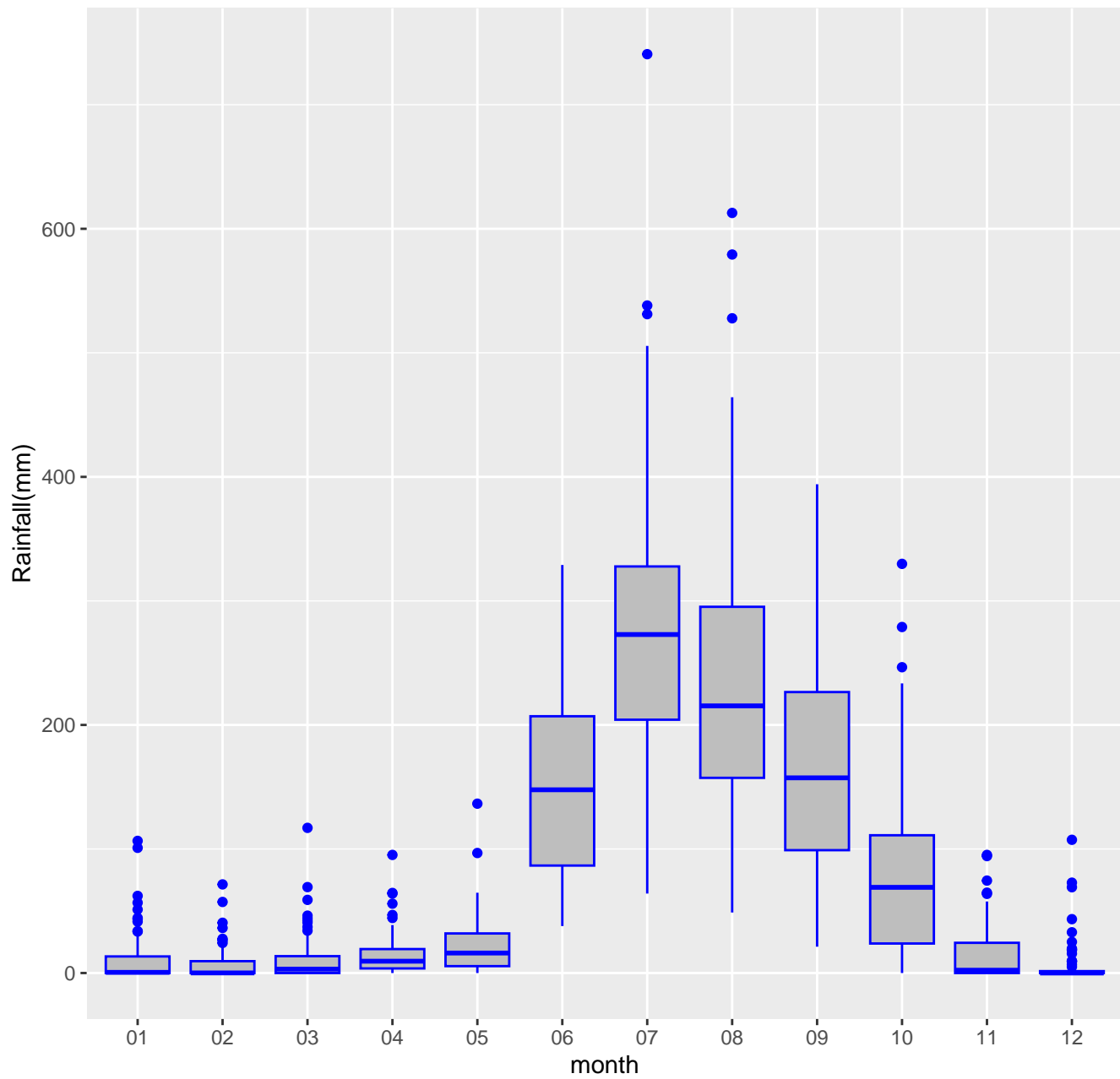
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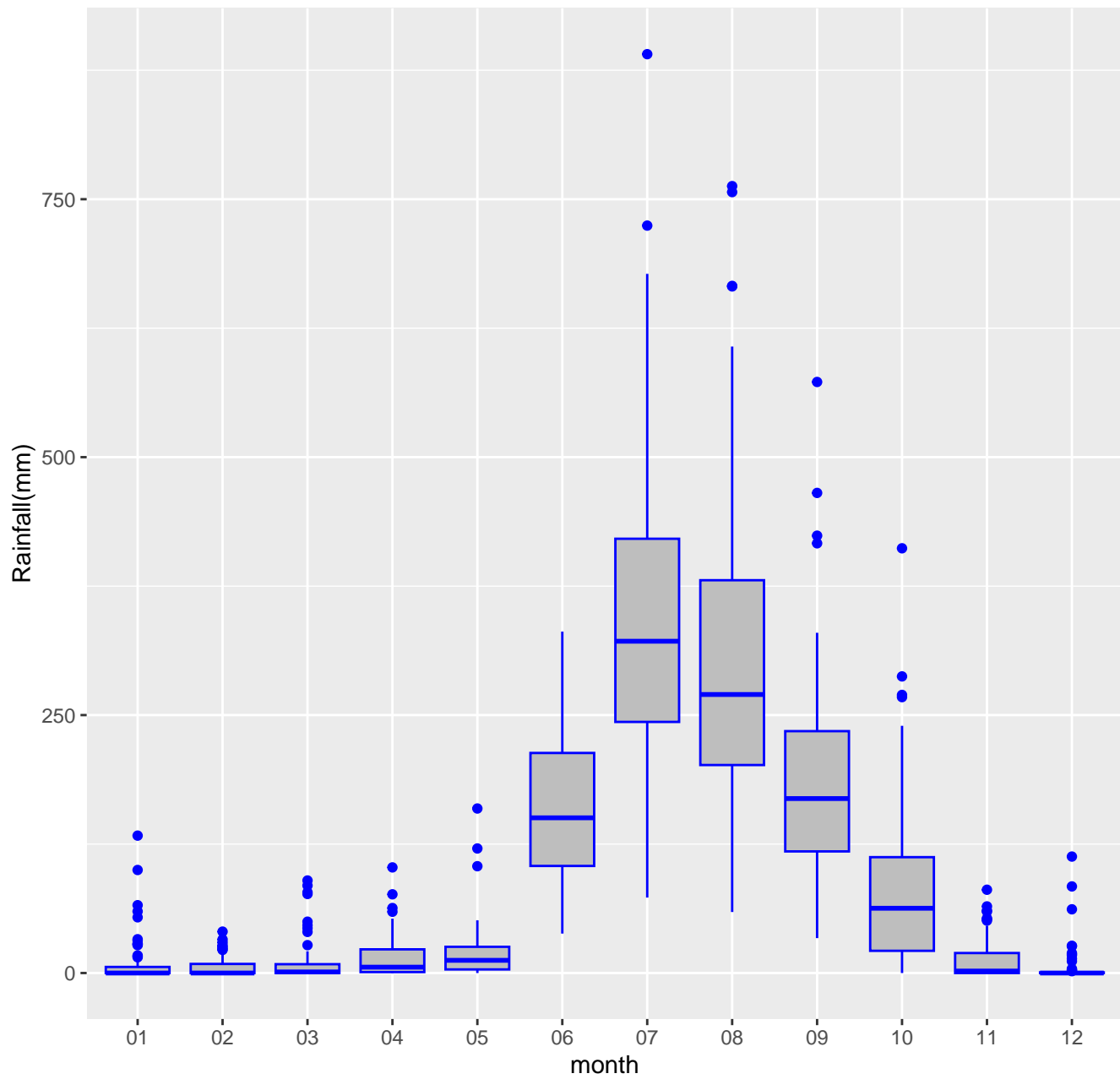
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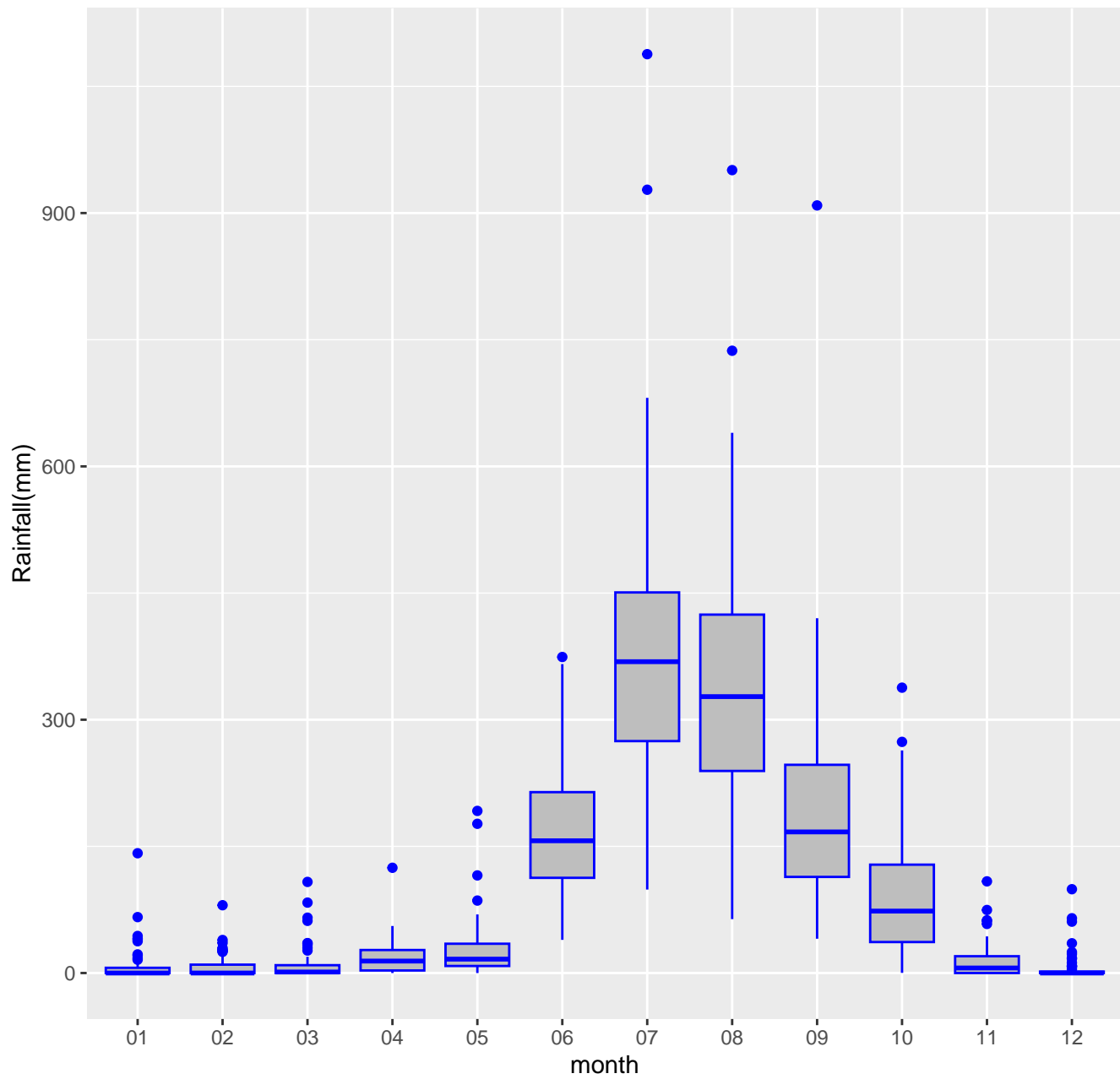
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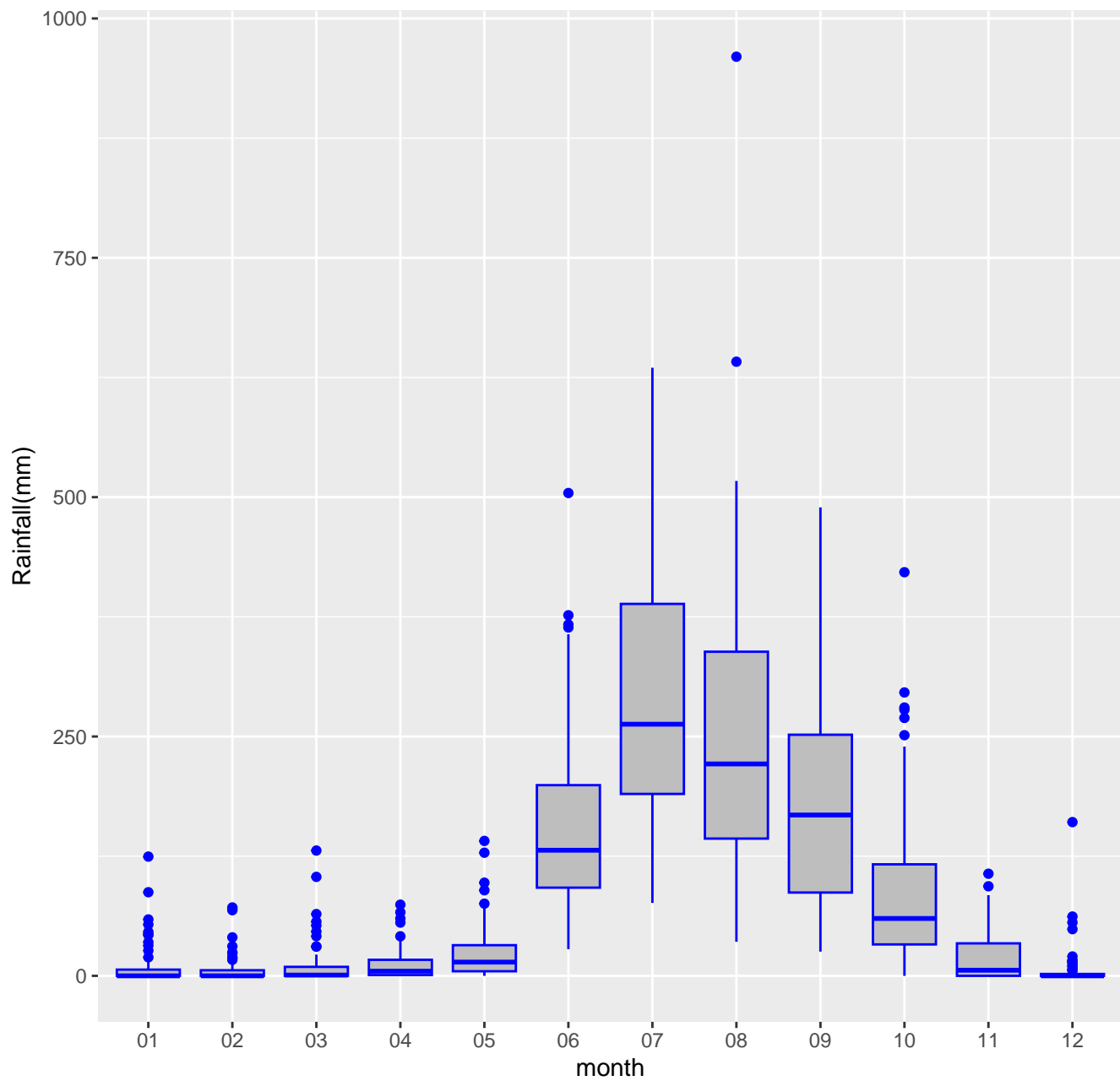
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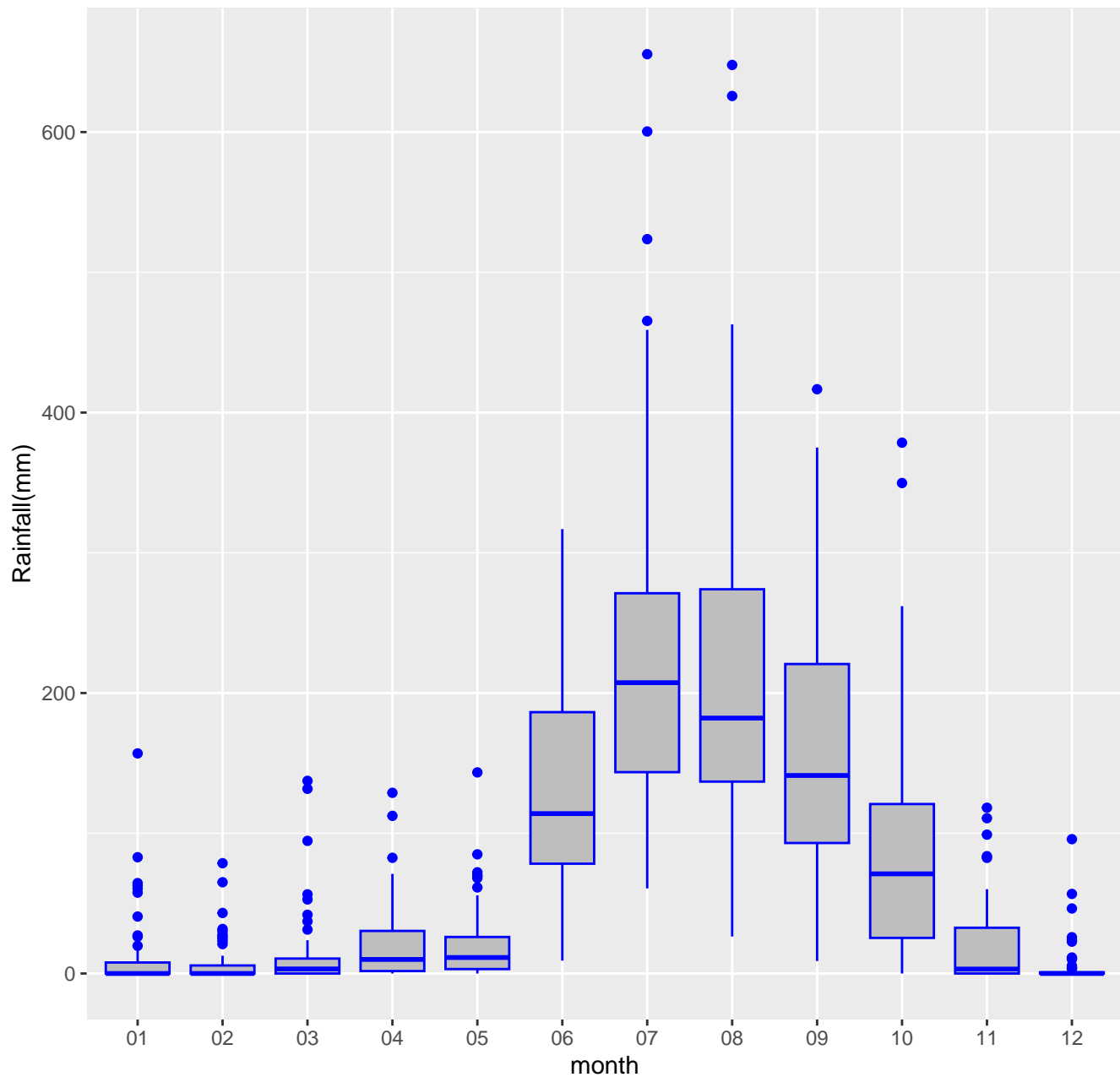
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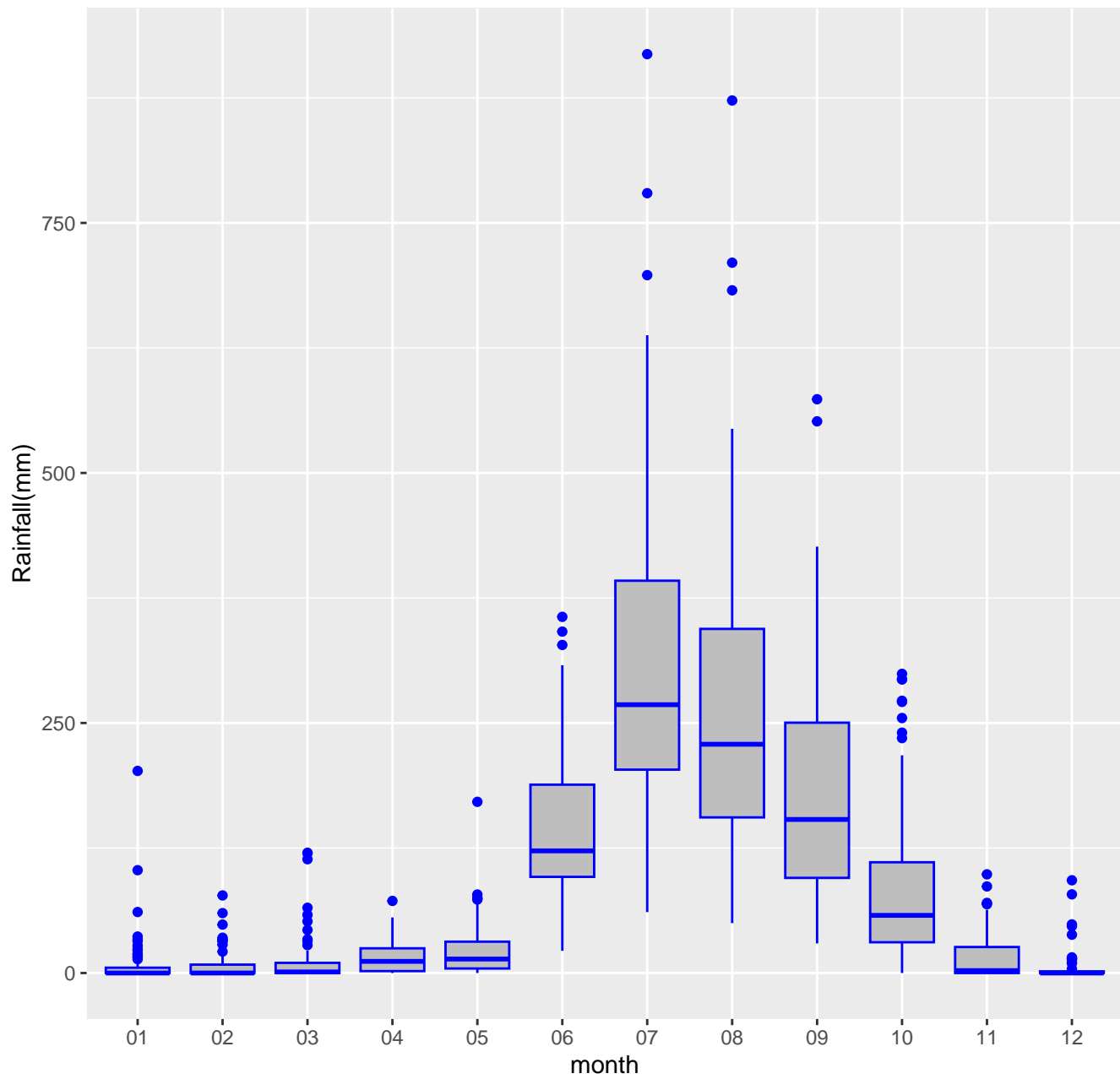
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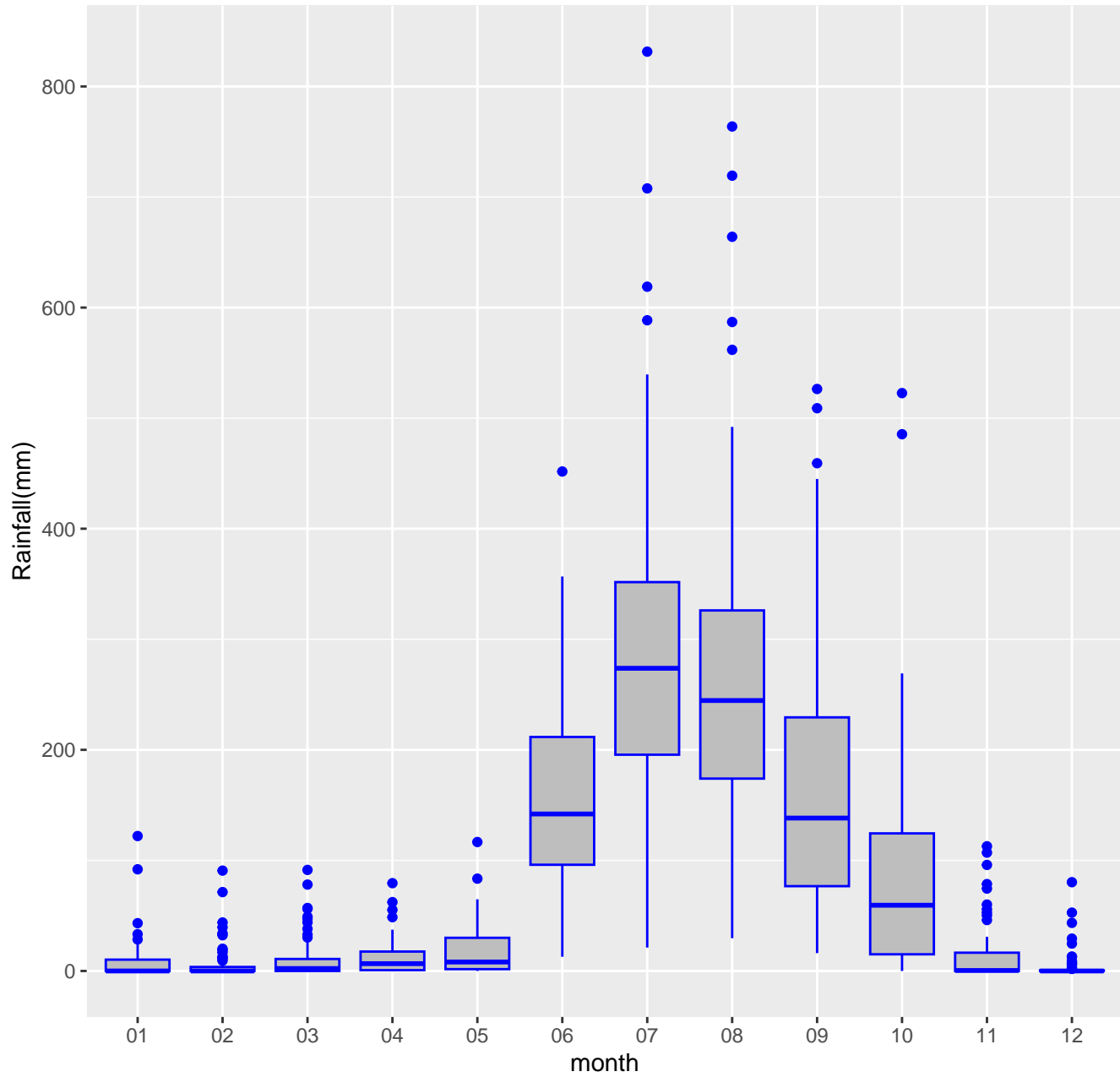
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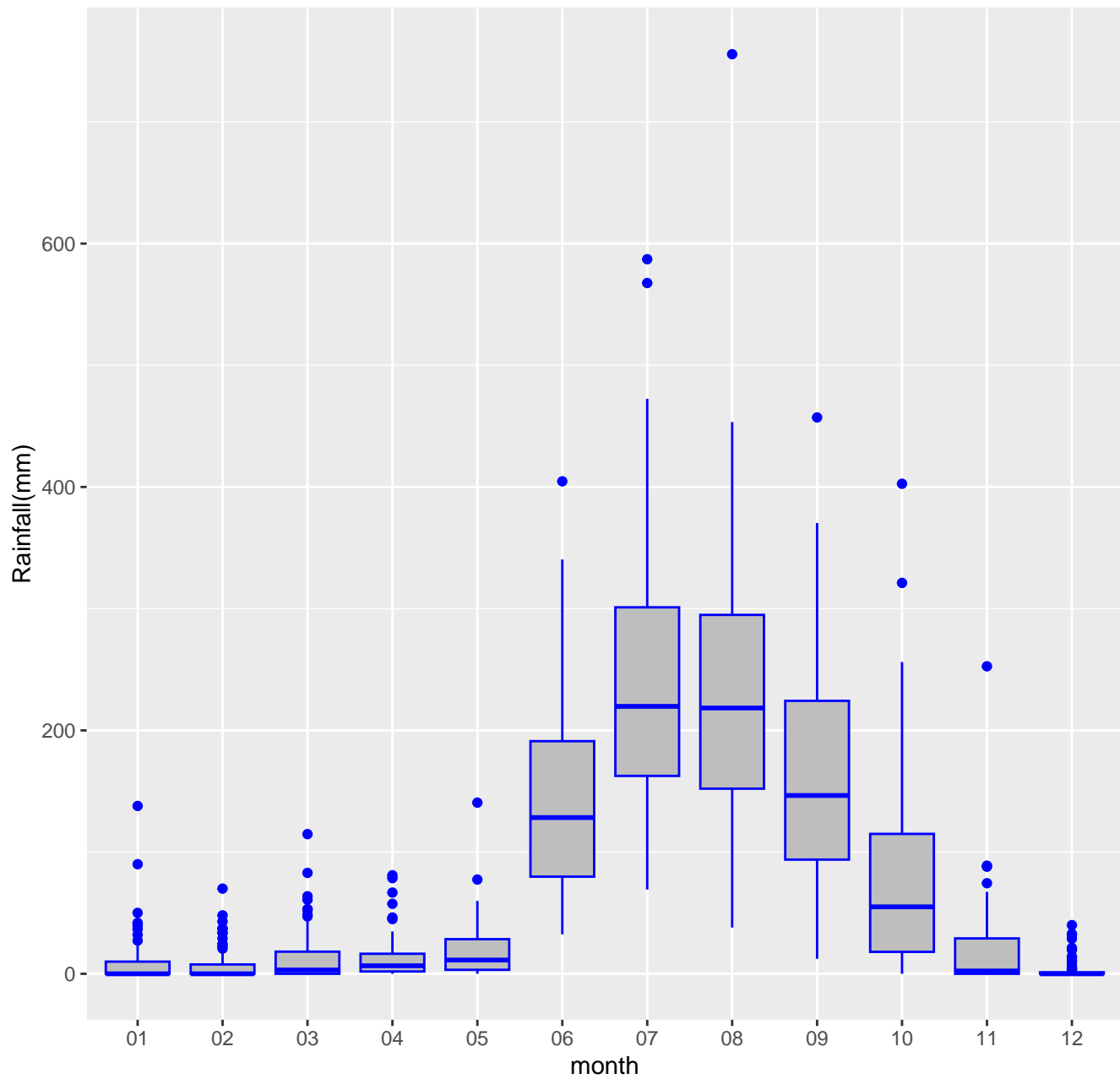
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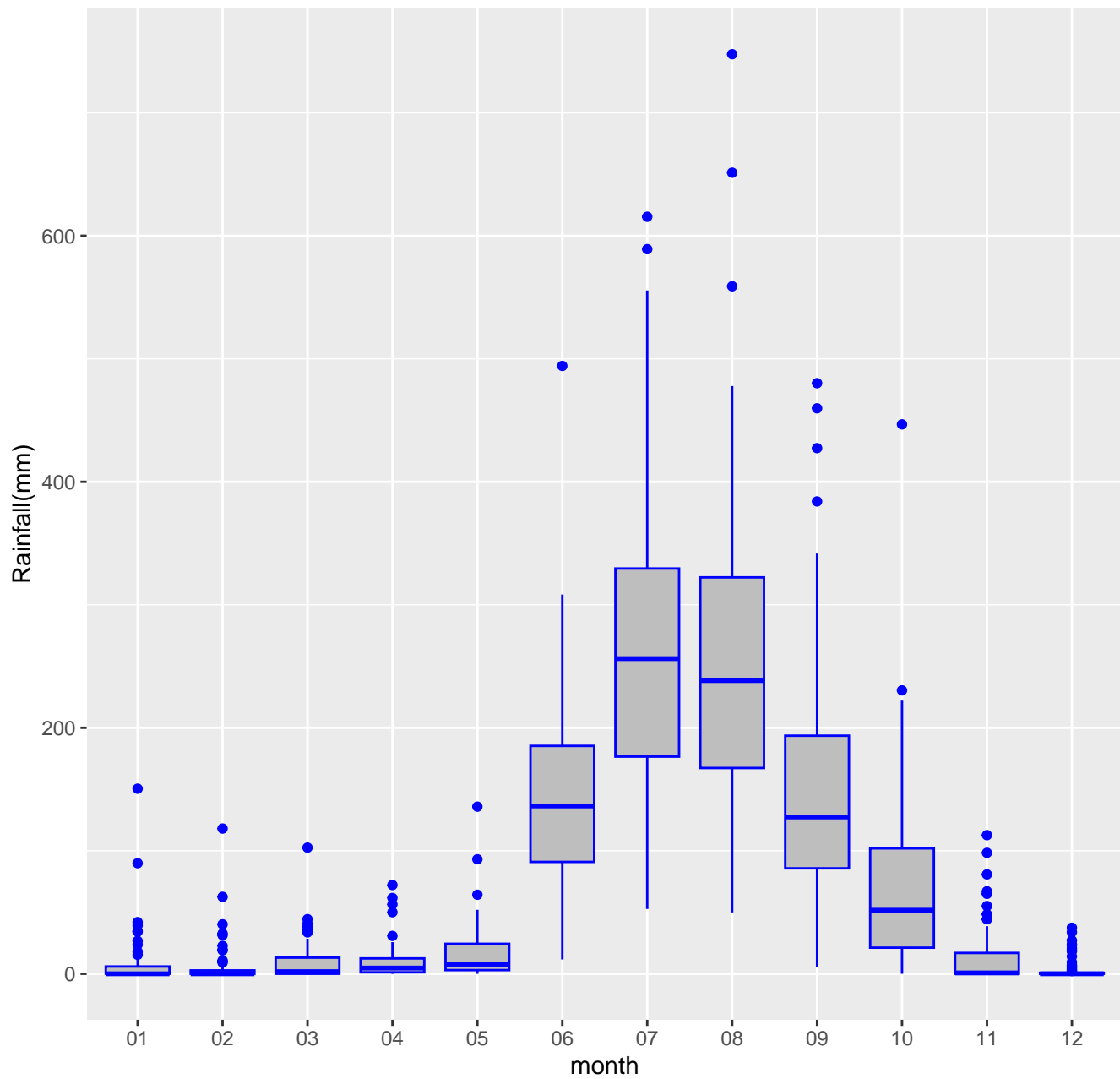
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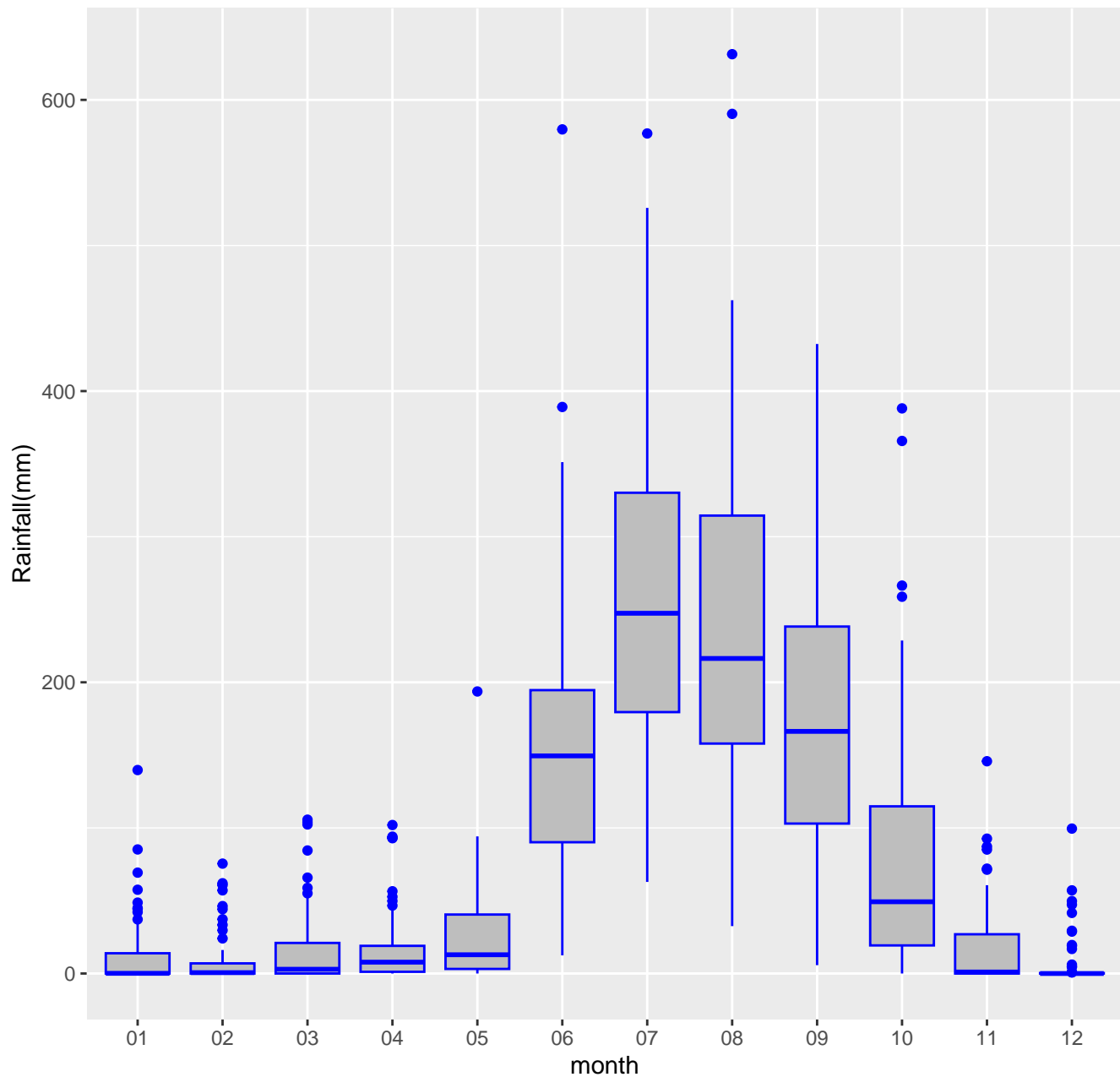
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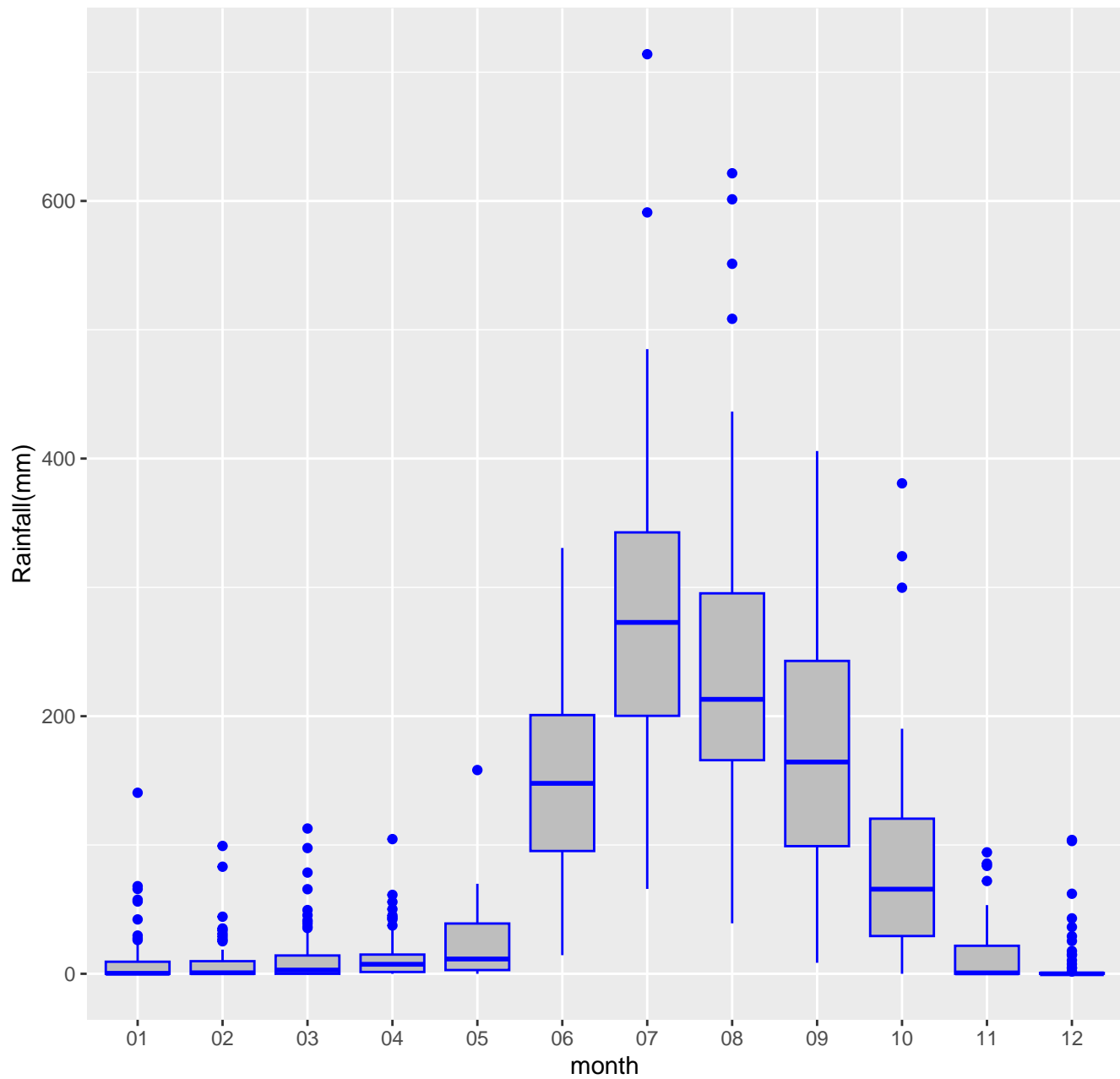
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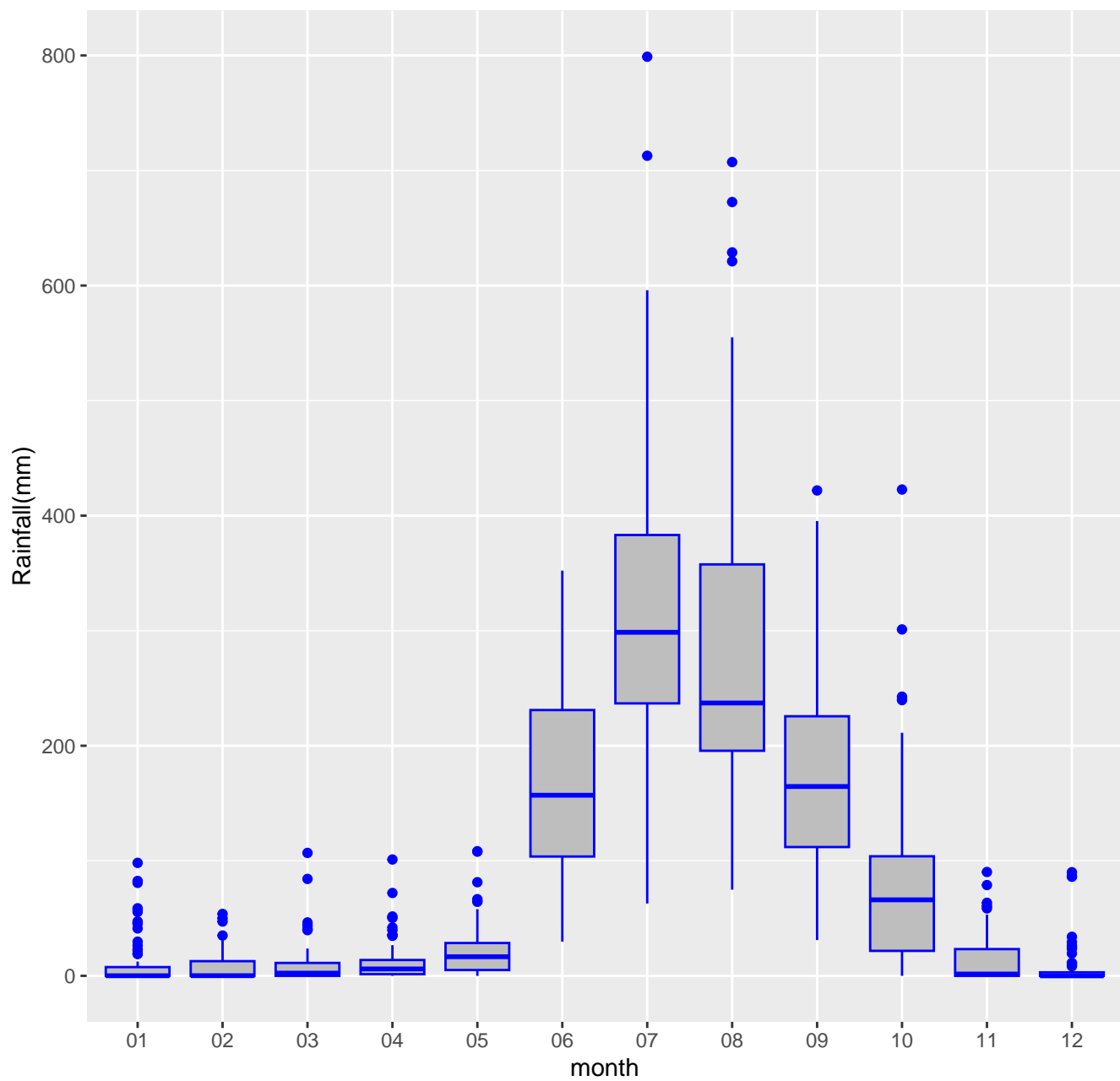
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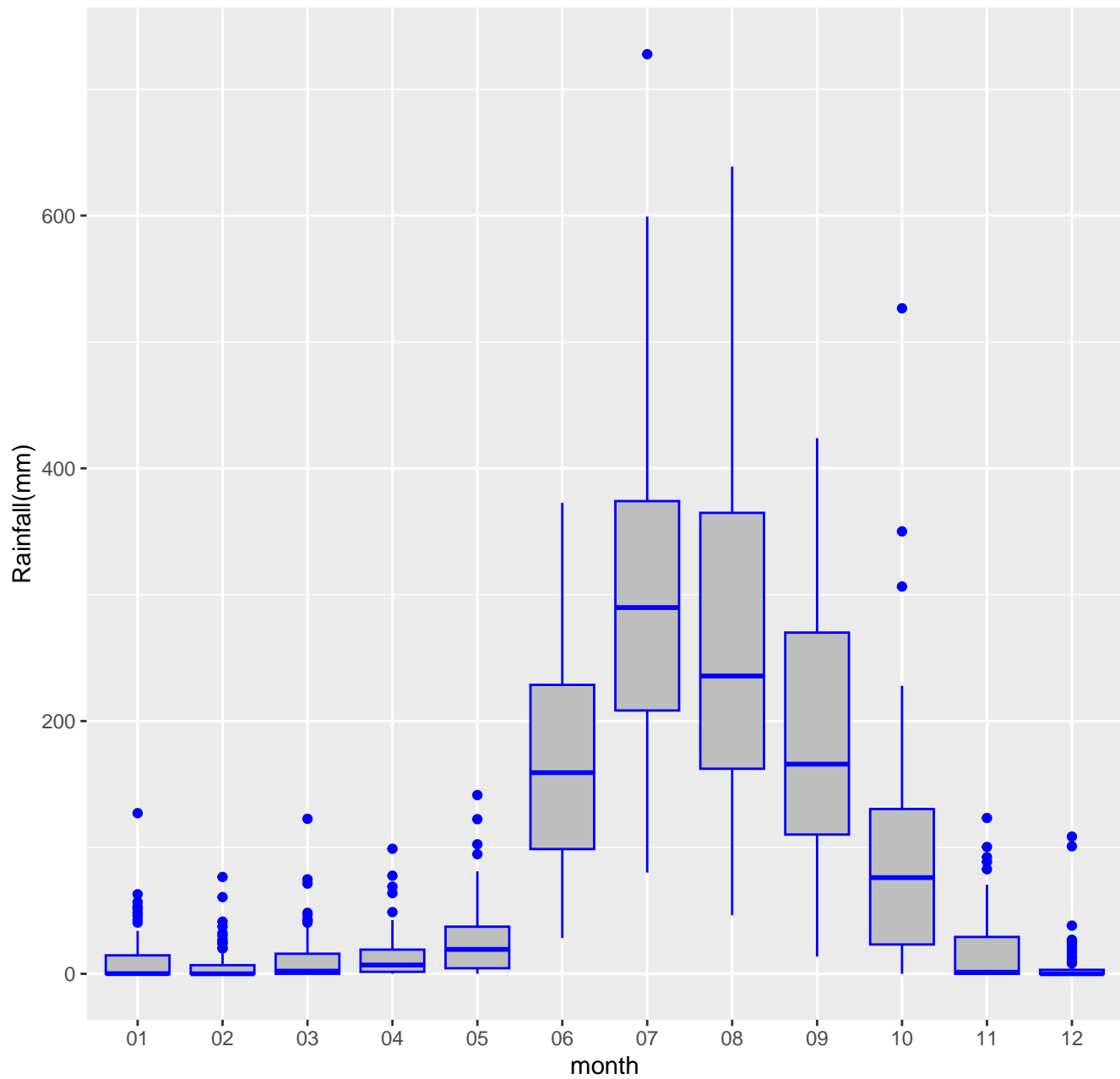
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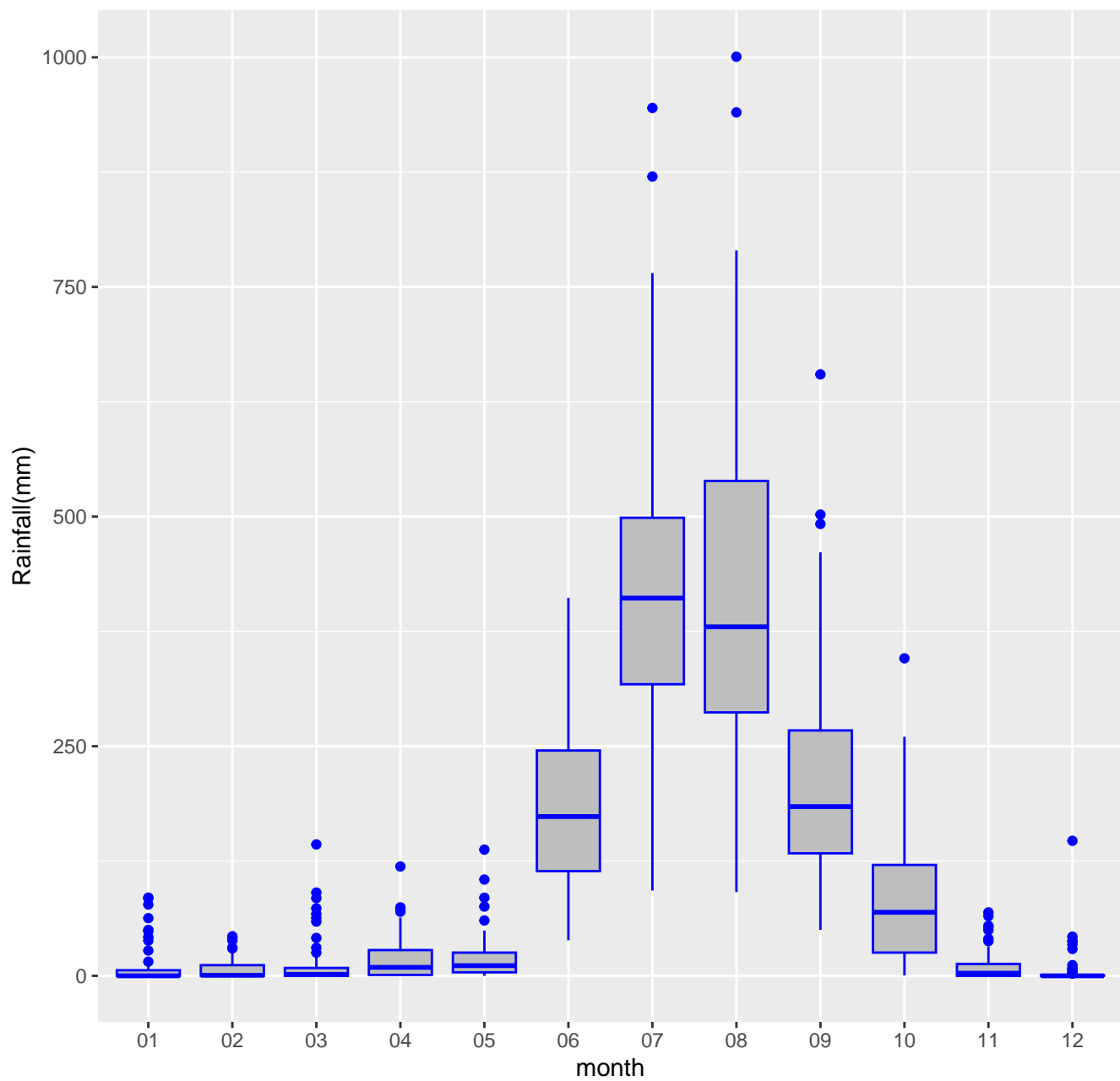
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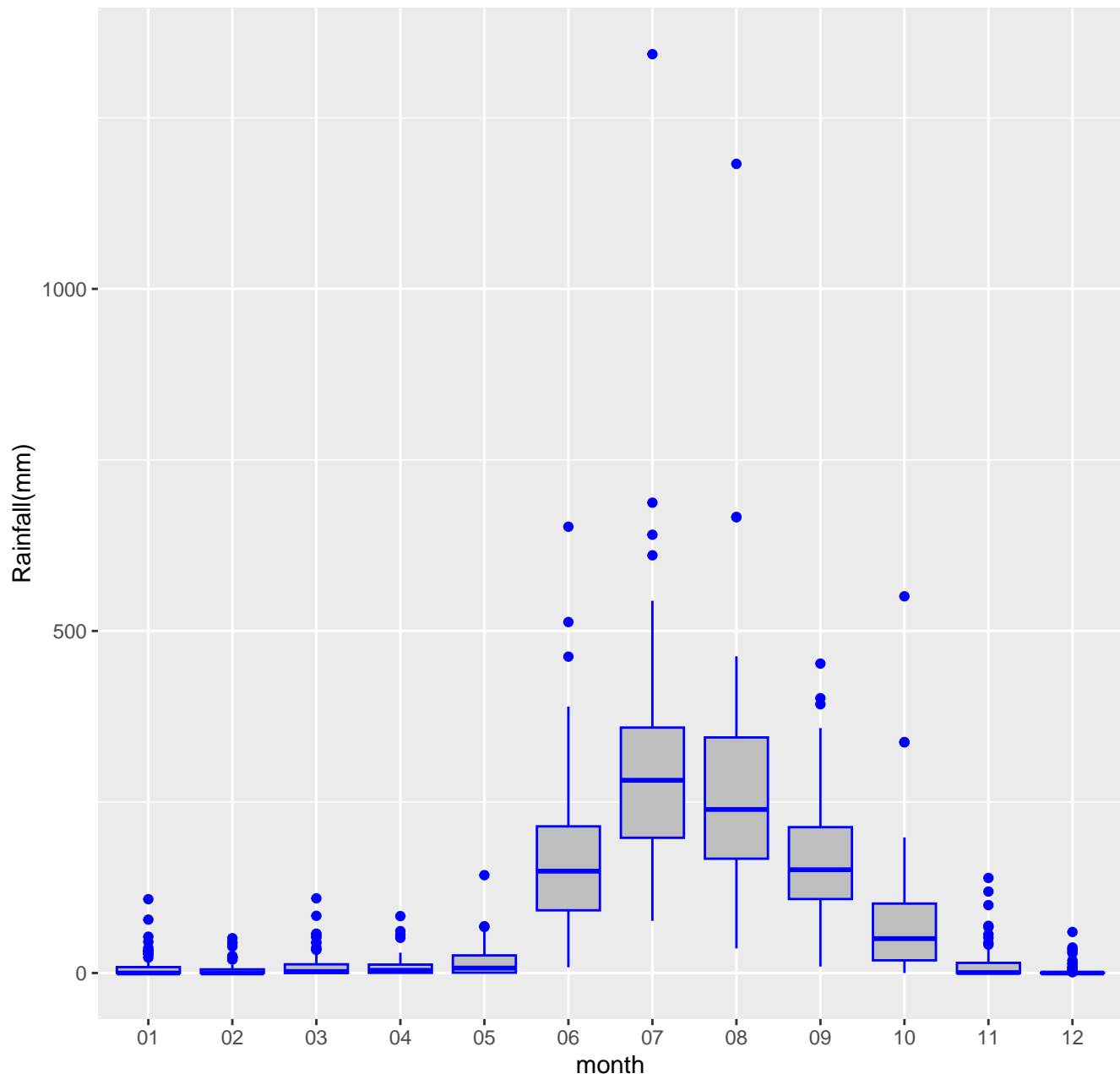
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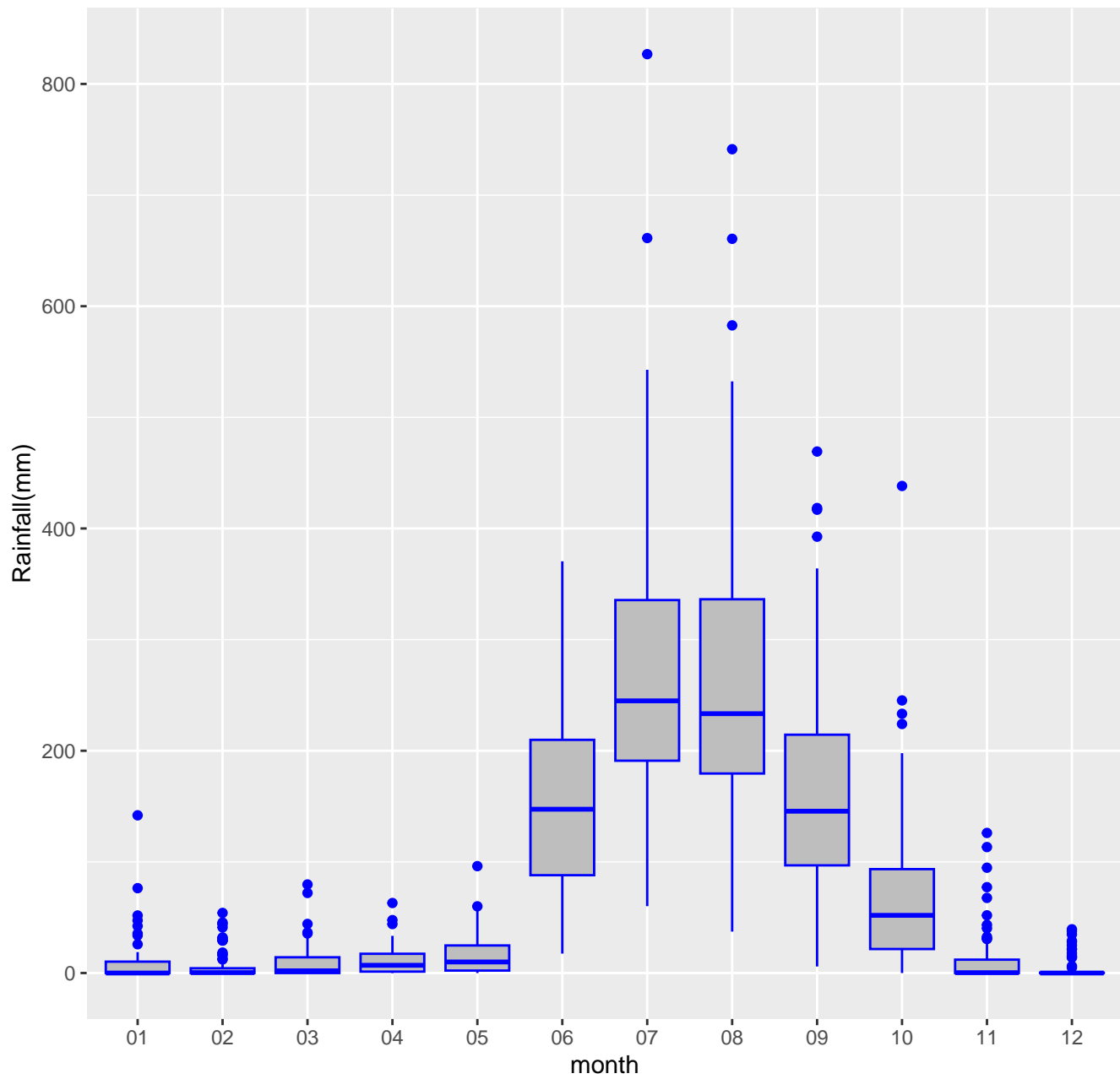
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X19.0.78.5



X19.0.78.25



X19.0.79.0

