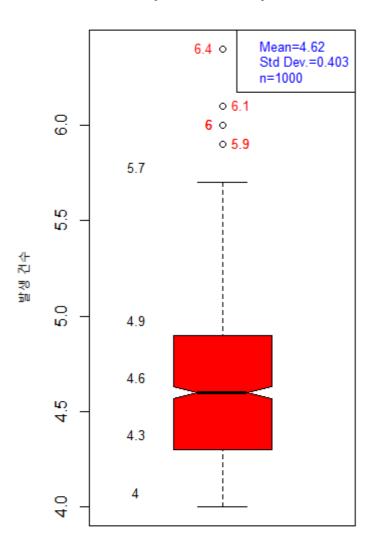
제5장 박스플롯 데이터라벨 달기

```
#---- p. 146 박스 플롯에 데이터 라벨달기**
# I. Box plot
mag <- quakes$mag
# change the plot window size : (7 \times 7) \Rightarrow (4 \times 7)
win.graph(4,7)
# 1. Box Plot
boxstats <- boxplot(mag,</pre>
                    main="지진 발생 강도의 분포",
                    xlab="지진 강도",
                    ylab="발생 건수",
                    col="red",
                    notch=TRUE)
# 2. Display the points => points()
                     # the number of data
len <- length(mag)</pre>
                           # position of points : (x, y=1)
points(mag, rep(1,len))
# 3. Display fivenumbers => boxstats$stats
\# \Rightarrow text(x, y, labels)
text(0.65, boxstats$stats, labels=boxstats$stats, pos=3, cex=0.8) # cex=0.8 : size
of tex
                                                \# pos = 1, 2, 3, 4
# 4. display legend (Mean, Std Dev., n) \Rightarrow legend()
# paste0()
legend("topright",
        paste0(c("Mean", "Std Dev.", "n"), "=",
        round(c(mean(mag), sd(mag), length(mag)), 3)),
        text.col = 4,  # color of legend text
        cex=0.8)
                        # size of legend text
# 5. Display Outliers
text( rep(1, NROW(boxstats$out)),
             boxstats$out.
             labels = boxstats$out,
             pos = c(4,2,2,4,4,2,2),
             cex = 0.8
             col = "red"
)
#---- 데이터 라벨 달기 끝
```

지진 발생 강도의 분포



지진 강도

```
#----- p. 146 박스 플롯을 수평으로 하고, 데이터 라벨 달기

# II. horizontal box plot

mag <- quakes$mag

# change the plot window size : (7 x 7) => (7 X 4)

win.graph(7,4)

# 1. Horizontal Box Plot

boxstats <- boxplot(mag,

main="지진 발생 강도의 분포",

xlab="지진 강도",

ylab="발생 건수",

col="red",

notch=TRUE,

horizontal=T)
```

```
# 2. Display the points => points()
len <- length(mag)</pre>
                           # the number of data
                           # position of points : (x, y=1)
points(mag, rep(1,len))
# 3. Fivenumbers => boxstats$stats
text(boxstats$stats, 0.75, labels=boxstats$stats, pos=4, cex=0.8) # cex=0.8 : size
of tex
                                              \# pos = 1, 2, 3, 4
# 4. display legend (Mean, Std Dev., n) \Rightarrow legend()
# paste0()
legend("topright",
        paste0(c("Mean", "Std Dev.", "n"), "=",
        round(c(mean(mag), sd(mag), length(mag)), 3)),
        text.col = 4,  # color of legend text
        cex=0.8)
                        # size of legend text
# 5. Displaying outliers
text( boxstats$out, rep(1, NROW(boxstats$out)),
                    labels = boxstats$out,
                    pos = c(3,1,1,3,3,1,1),
                    cex=0.8,
                    col="red"
)
#--- 데이터 라벨 달기 끝
```

결과:

지진 발생 강도의 분포

