# JTBC 1702

#### **Problem**

JTBC 뉴스룸에서는 다음과 같은 도표의 후보지지도 여론조사 결과를 보도.

knitr::include\_graphics("../pics/poll\_2017\_JTBC.jpg")

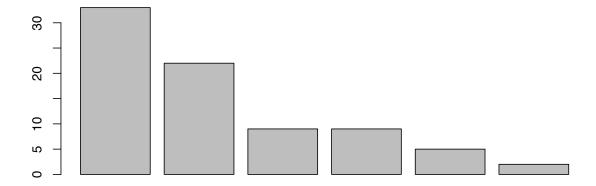


막대의 높이에 의구심을 표한 시청자들의 항의에 직면함. 제대로 된 막대그래프를 그리면서 R Base plot과 ggplot에 대하여 학습.

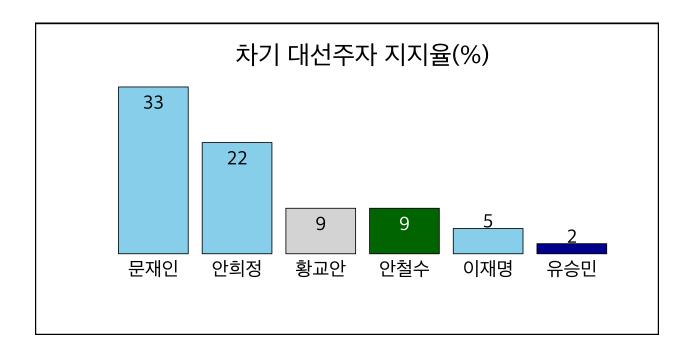
## **Data Setup**

## Barplot (R Base)

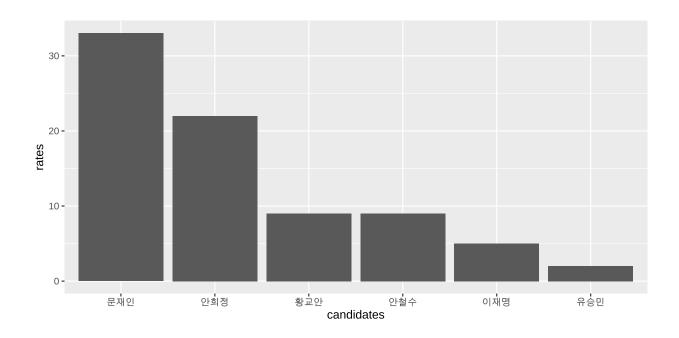
barplot(rates)

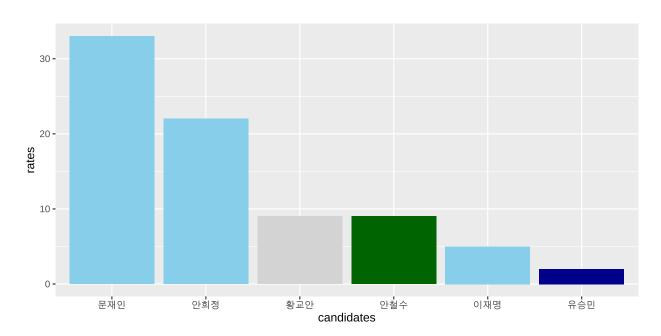


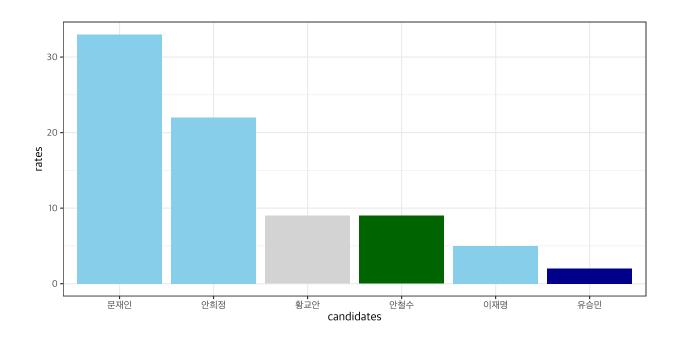
```
library(showtext)
# font_add(family = "noto", regular = "/Users/kwlee/Library/Fonts/NotoSansKR-VariableFont_wght.ttf")
# showtext_auto()
font_add(family = "Apple", regular = "/System/Library/Fonts/AppleSDGothicNeo.ttc")
showtext_auto()
par(family = "Apple")
b1 <- barplot(rates,</pre>
              axes = FALSE,
              col = candidates_colour,
              names.arg = NULL,
              cex.names = 1.5)
mtext(side = 1, at = b1, line = 0.5, text = candidates, cex = 1.5)
text(x = b1, y = rates + c(rep(-3, 4), rep(1.5, 2)),
     labels = rates,
     col = c("black", "black", "black", "white", "black", "black"),
     cex = 1.5)
main_title <- "</pre>
                      (%)"
title(main = main_title,
      cex.main = 2)
box(which = "figure", lwd = 3)
```

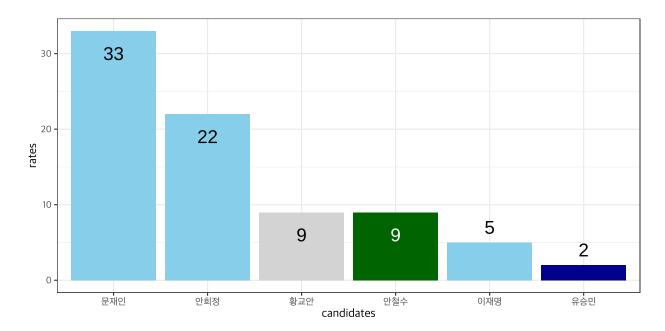


```
dev.copy(png, "../pics/jtbc1702.png", width = 640, height = 320)
## quartz_off_screen
##
dev.off()
## cairo_pdf
##
ggplot
library(ggplot2)
candidates <- factor(candidates, levels = candidates)</pre>
rates_df <- data.frame(candidates,</pre>
                        candidates_party,
                        candidates_colour,
                        rates)
g0 <- ggplot(data = rates_df,</pre>
             mapping = aes(x = candidates,
                            y = rates))
(g1 <- g0 +
  geom_bar(stat = "identity"))
```



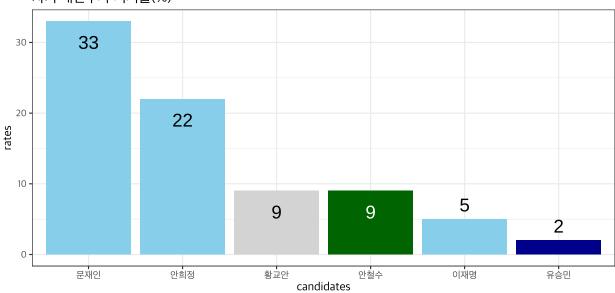




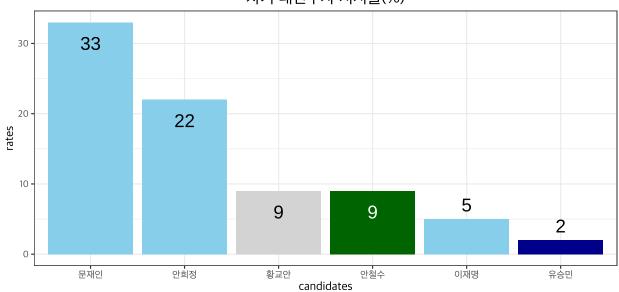


```
(g5 <- g4 +
  labs(title = main_title))</pre>
```

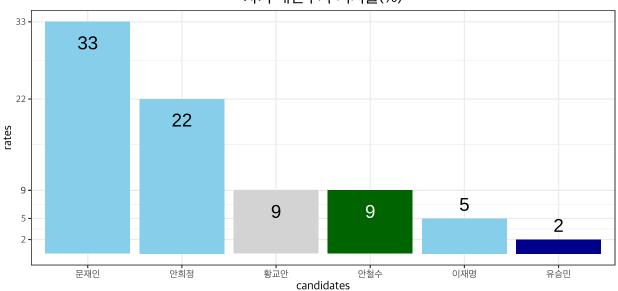




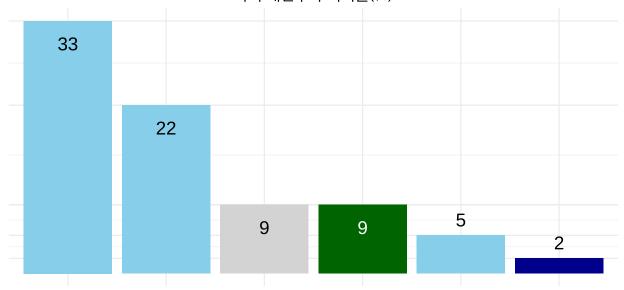
## 차기 대선주자 지지율(%)



## 차기 대선주자 지지율(%)

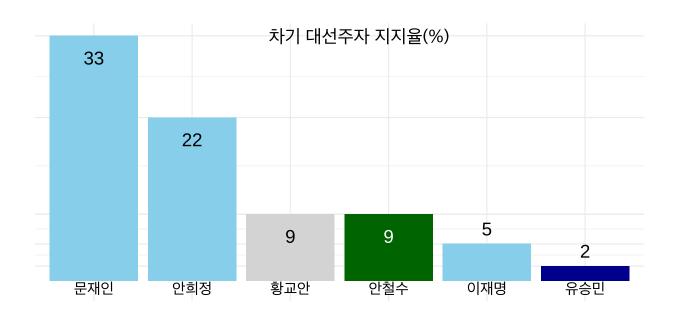


## 차기 대선주자 지지율(%)

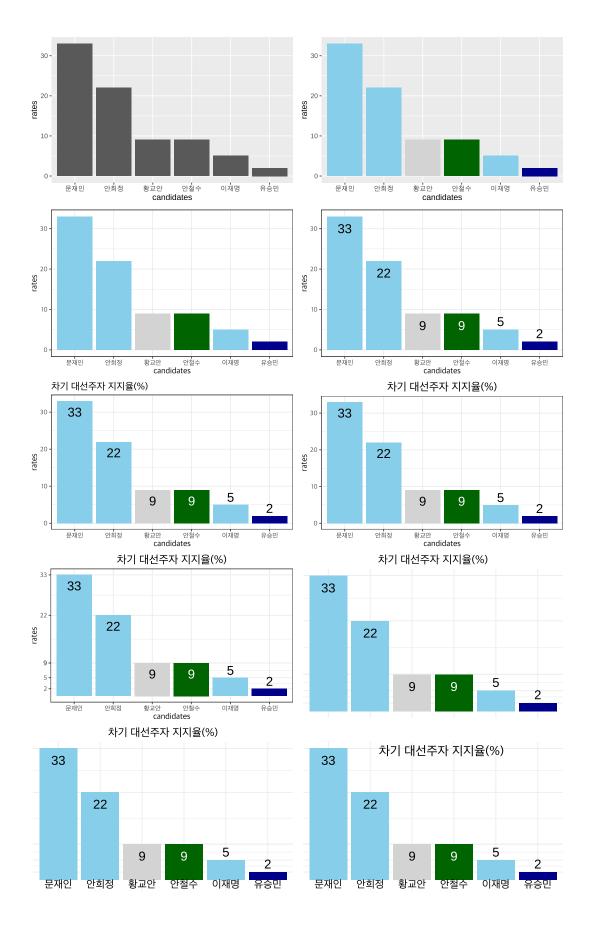


```
size = 5,
family = "Apple"))
```





```
library(gridExtra)
g_all <- grid.arrange(g1, g2, g3, g4, g5, g6, g7, g8, g9, g10, nrow = 5)</pre>
```



```
ggsave(g10, file = "../pics/poll_JTBC_1702.png", width = 8, height = 4)
ggsave(g_all, file = "../pics/poll_JTBC_1702_plots.png", width = 10, height = 16)
```

## Comments

막대그래프를 이용한 눈속임에 대하여 느낀 바를 간단히 기술하세요.