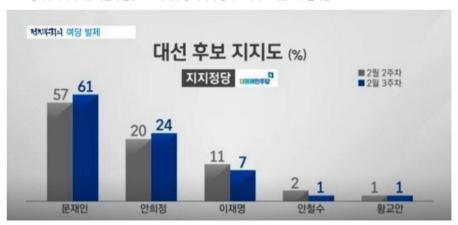
JTBC 2017-02-16

Problem

JTBC 정치부회의에서는 다음과 같은 도표의 민주당 지지자 중 후보지지도 여론조사 결과를 보도.



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막대의 높이에 의구심을 표한 시청자들의 항의에 직면함.

제대로 된 막대그래프를 그리면서 R Base plot과 gaplot에 대하여 학습.

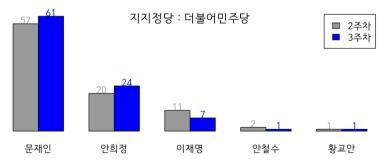
Data Setup

```
## candidates week2 week3
## 1 문재인 57 61
## 2 안희정 20 24
## 3 이재명 11 7
## 4 안철수 2 1
## 5 황교안 1 1
```

Barplot(R Base)

```
par(family = "HCR Dotum LVT")
b1 <- barplot(t(as.matrix(rates df[, 2:3])),</pre>
             axes = FALSE,
             ylim = c(0, 65),
             beside = TRUE, names.arg = rates df[, 1],
             legend.text = c("2주차", "3주차"),
             col = c("darkgrey", "blue"))
# axis(side = 2,
     at = as.vector(as.matrix(rates df[, 2:3])),
     labels = as.vector(as.matrix(rates df[, 2:3])), las = 1)
text(x = b1[1, ],
    y = week2 + 2
    labels = week2,
    col = "darkgrey")
text(x = b1[2, ],
    y = week3 + 2
    labels = week3,
    col = "blue")
main title <- "대선후보 지지도(%)"
sub title <- "JTBC 정치부회의, 한국갤럽 2017. 2월 7-9일, 14-16일"
main text <- "지지정당 : 더불어민주당"
title(main = main title,
      sub = sub title,
     cex.main = 2)
text(x = 8, y = 60,
    main text,
    cex = 1.2)
```

대선후보 지지도(%)



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ggplot

Data for ggplot

str(rates df)

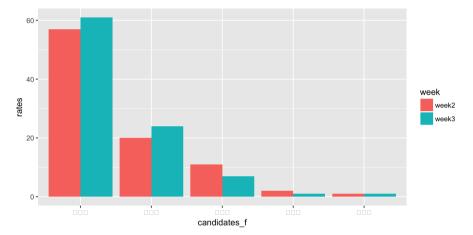
```
## 'data.frame': 5 obs. of 4 variables:
## $ candidates : chr "문재인" "안희정" "이재명" "안철수" ...
## $ week2 : num 57 20 11 2 1
## $ week3 : num 61 24 7 1 1
## $ candidates_f: Factor w/ 5 levels "문재인","안희정",..: 1 2 3 4 5
```

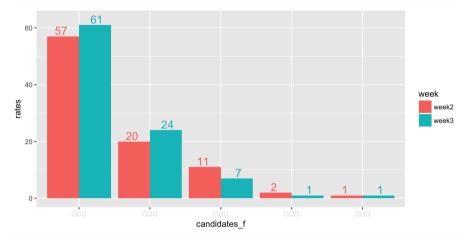
```
candidates f week rates
## 1
          문재인 week2
          안희정 week2
## 2
## 3
          이재명 week2
                       11
## 4
          안철수 week2
## 5
          황교안 week2
## 6
          문재인 week3
                       61
          안희정 week3
## 7
                       24
## 8
          이재명 week3
          안철수 week3
## 10
          황교안 week3
                        1
```

```
str(rates_df_melt)
```

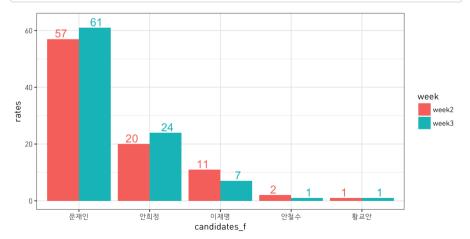
```
## 'data.frame': 10 obs. of 3 variables:
## $ candidates_f: Factor w/ 5 levels "문제인","안희정",..: 1 2 3 4 5 1 2 3 4 5
## $ week : Factor w/ 2 levels "week2","week3": 1 1 1 1 1 2 2 2 2 2
## $ rates : num 57 20 11 2 1 61 24 7 1 1
```

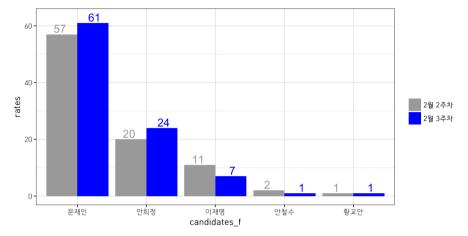
Geom_bar



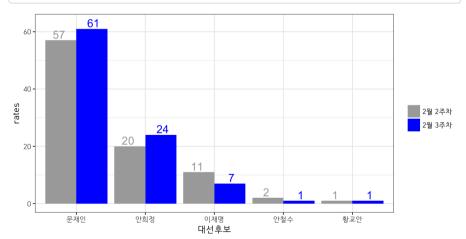


```
(g3 <- g2 + theme_bw() + theme.kr)
```

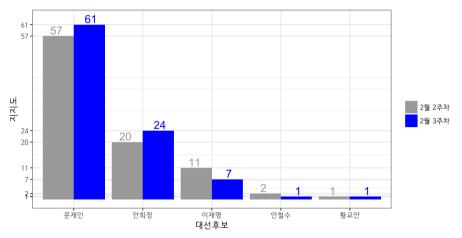




```
(g5 <- g4 + scale_x_discrete(name = "대선후보"))
```

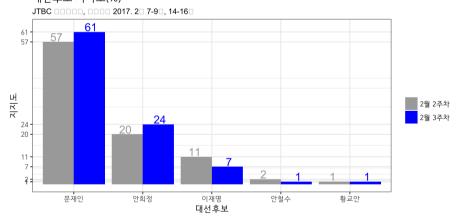


```
(g6 <- g5 +
scale_y_continuous(name = "지지도",
breaks = as.vector(as.matrix(rates_df[, 2:3])),
labels = as.vector(as.matrix(rates_df[, 2:3]))))
```



```
(g7 <- g6 +
  labs(title = main_title,
      subtitle = sub_title))</pre>
```

대선후보 지지도(%)



```
(g8 <- g7 +
  theme(plot.title = element_text(hjust = 0.5),
    plot.subtitle = element_text(family = "HCR Dotum LVT"),
    legend.position = c(0.9, 0.7)))</pre>
```

대선후보 지지도(%)

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