Graphics

DJM

11 April 2017

Generalized linear models

```
## Loading tidyverse: ggplot2
## Loading tidyverse: tibble
## Loading tidyverse: tidyr
## Loading tidyverse: readr
## Loading tidyverse: purrr
## Loading tidyverse: dplyr
```

```
## Conflicts with tidy packages ----------------------------------------------
```

```
## filter(): dplyr, stats
## lag():    dplyr, stats
```

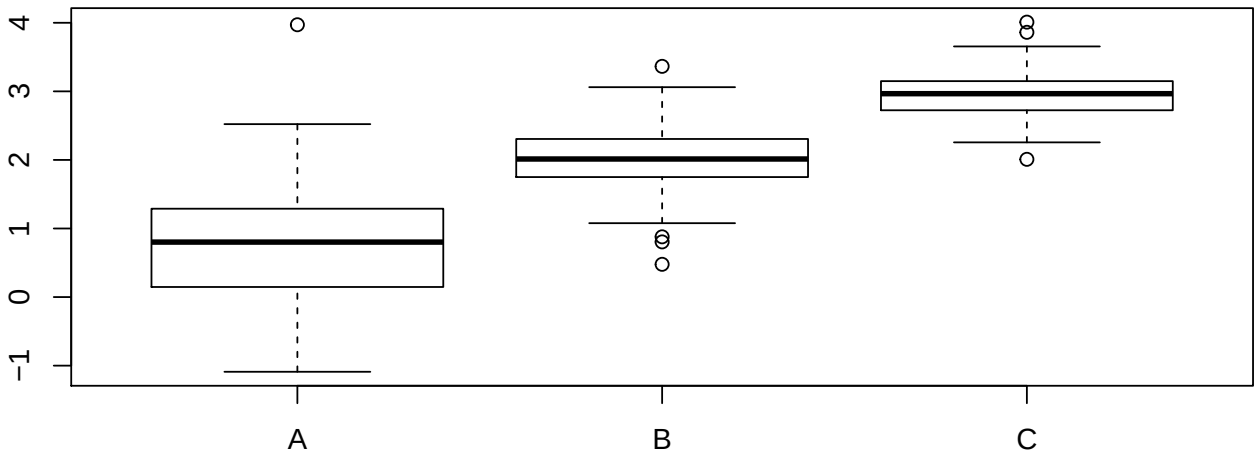
> "The simple graph has brought more information to the data analyst's mind than any other device." — John Tukey

- This week we're going to learn how to use `ggplot2`, Hadley Wickham's package for making graphics.
- This material is based on Chapter 3 of his book "`R` for data science".
- That is your reading for this week (link on syllabus page).

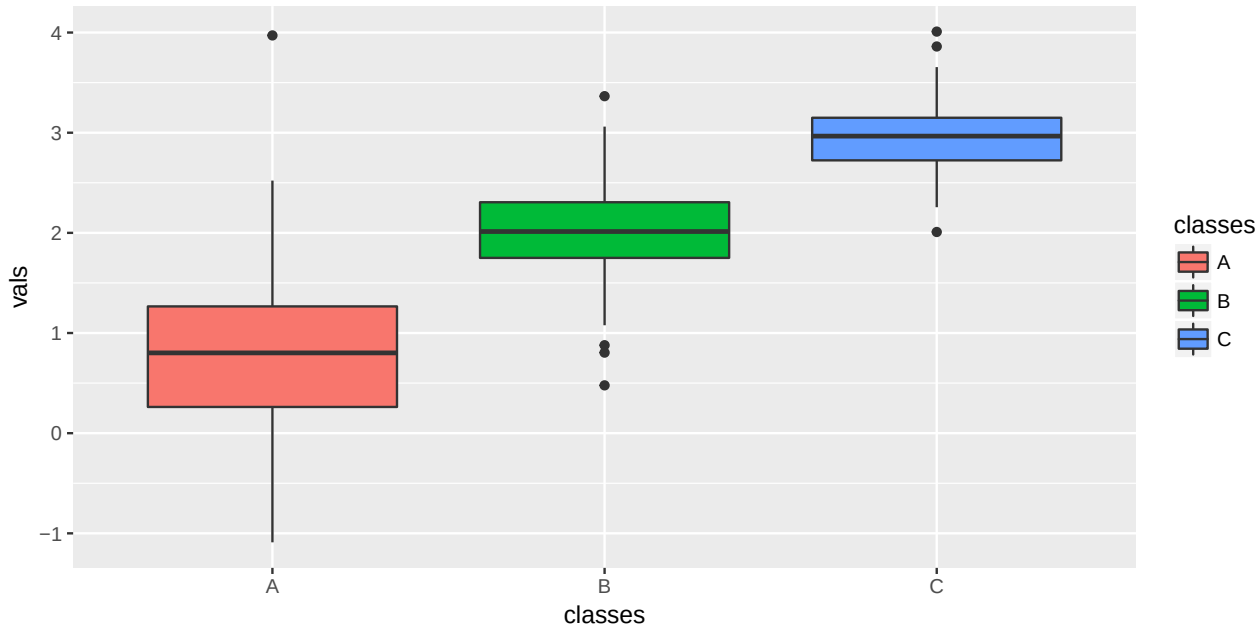
Why ggplot?

- `ggplot2` is a bit hard to get used to.
- But it's figures are much better looking than `R`'s `plot` functions.
- Compare:

```
boxplot(vals~classes, data=df)
```




```
ggplot(df,mapping=aes(x=classes,y=vals,fill=classes)) + geom_boxplot()
```


4
3
2
1
0
−1
vals
A
B
C
classes
classes
A
B
C