```r
library(dplyr)

rladies_global %>%
  filter(city == 'Berlin')
```

#1 Hands-on Data visualization with ggplot2

Hello!

I am Christin :)

I would like to introduce you to **R Notebooks** and how we can easily create beautiful graphs with Hardley Wickhams package **ggplot2**

1.
Let's get started!

Get to know our GitHub repo and find all required material:
github.com/rladies/meetup-presentations_berlin/

- Download R-project
- Copy slides and tutorial material
- Documentation: How to install R and R Studio

2.
R Notebooks

A beautiful combination of coding and reporting results
http://rmarkdown.rstudio.com/r_notebooks.html

3.
Grammar of ggplot2

Detailed documentation
http://ggplot2.org

You want more **ggplot2**? Have a look at extension packages
http://www.ggplot2-exts.org

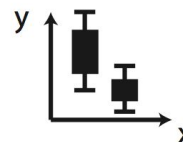# General principle of **ggplot2**

data

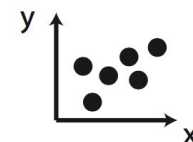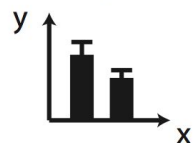| x	y

ggplot(data, aes(x,y))
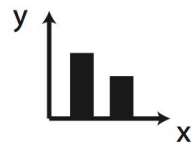
+ geom_bar()

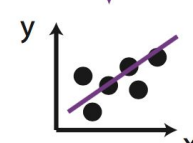+ geom_boxplot()

+ geom_point()

+ geom_errorbar()

+ geom_smooth()

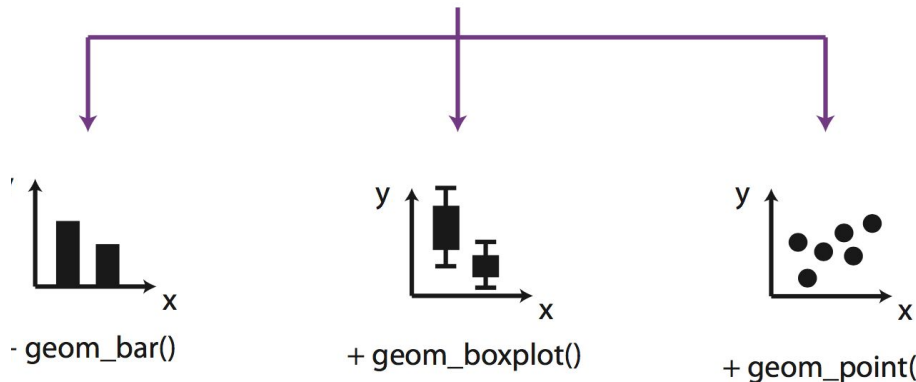# General principle of **ggplot2**

data

x	y

ggplot(data, aes(x,y))

+ geom_xy() - geometric objects
+ stat_xy() - statistics
+ scales
+ coord_xy() - coordinate systems
+ facet_xy() - faceting
+ position_xy() - Position adjustments
+ theme_() - Themes (non-data)

- geom_bar()

+ geom_boxplot()

+ geom_point()

+ geom_errorbar()

+ geom_smooth()
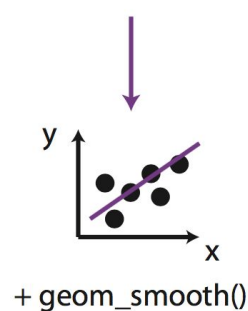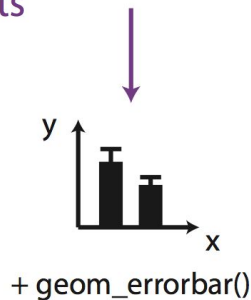
4.

Dataset: diamonds

Description of 54'000 gemstones based on key characteristics

- Carat, color, clarity, cut
- Total depth, table, depth, width, height
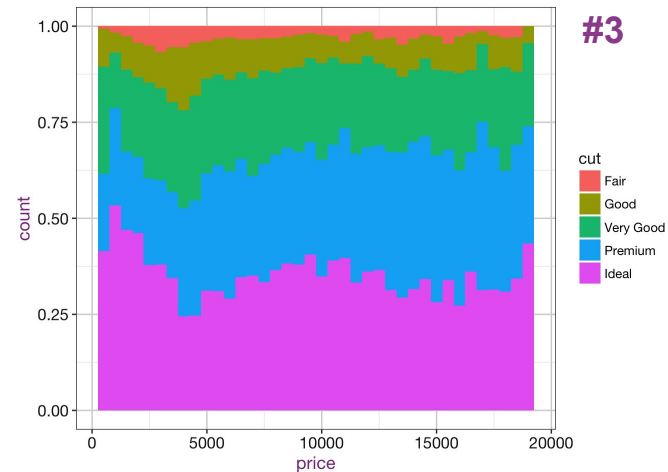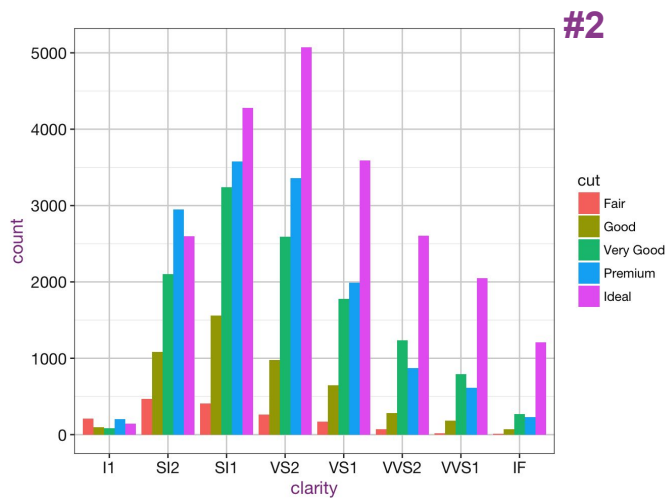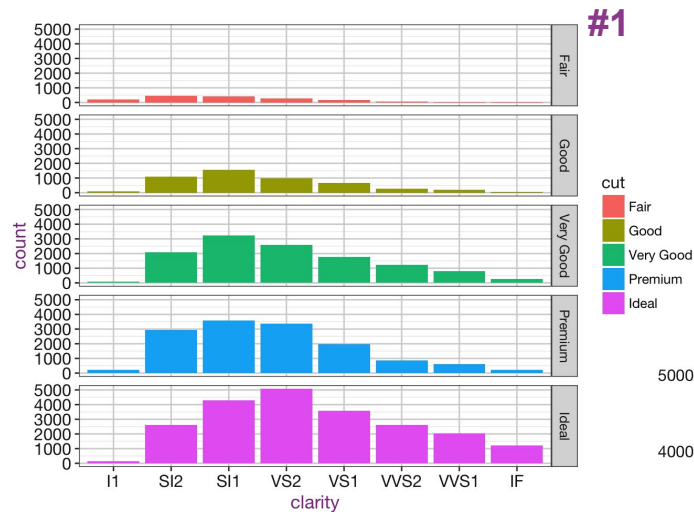- Price

5. Tutorial
Let's get started!

Now it's your turn!

We're Chrissy, Hanna & Noa

We recently got together to form the Berlin chapter of R-Ladies. You can follow our activity (and help us spread the word) on 🐦 📘 @RLadiesBerlin and sign up for upcoming events on ⓜ rladies-berlin.