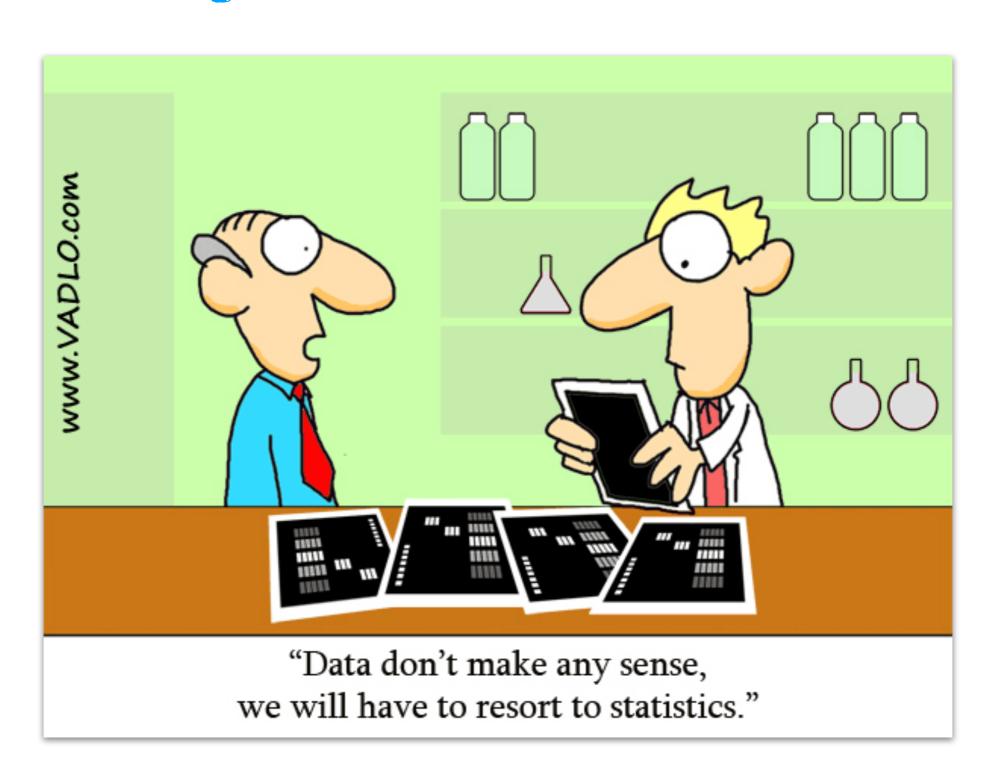
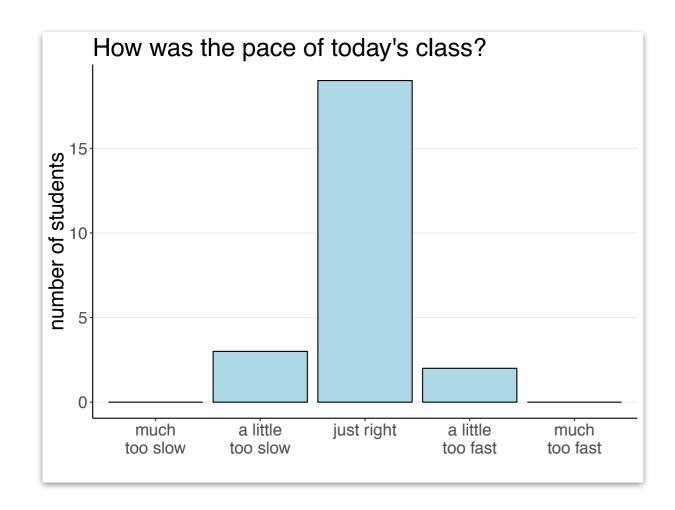
Please keep rows 3 and 6 free again!

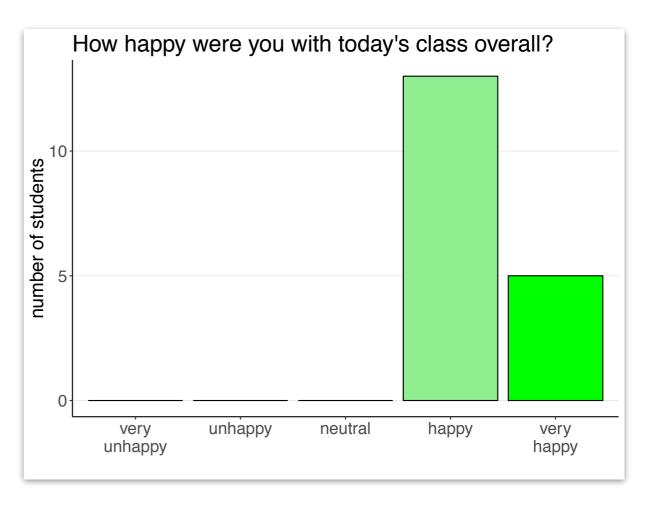
Data wrangling 2



Your feedback

Your feedback





Your feedback

Everything is good and pace is just right. The only thing that I am concern is getting the practice answers from the lectures and sessions. Will it be possible for the lecturers and tutors **to post the practice answers online**, so that people who may have accidentally missed the answers can check it after classes? Thanks!

they are online now

Name 🛦	Date Created
нтмь 04_data_wrangling1_feedback.html	Yesterday
04_data_wrangling1.pdf	Yesterday
04_data_wrangling1.Rproj	Saturday
нтмь data wrangling1 solutions.html	11:19pm
data_wrangling1_solutions.Rmd	11:19pm
data_wrangling1.html	Sunday
data_wrangling1.Rmd	Sunday
figures	Friday

```
1.2 Practice 1
Find out what the average height and mass (as well as the standard deviation) is from different species in different homeworld s. Why is
the standard deviation NA for many groups?
 df.starwars %>%
   group_by(species, homeworld) %>%
   summarize(mean height = mean(height, na.rm = T),
             mean mass = mean(mass, na.rm = T),
             sd height = sd(height, na.rm = T),
            sd mass = sd(mass, na.rm = T),
             n = n()) %>%
   ungroup()
 # A tibble: 58 x 7
    species homeworld mean height mean mass sd height sd mass
            <chr>
                                                         <dbl> <int>
                              79 15
 1 Aleena Aleen Minor
  2 Besalisk Ojom
                                198
                                198
  3 Cerean Cerea
  4 Chagrian Champala
                               196 NaN
  5 Clawdite Zolan
  6 Droid
            Naboo
                                96 32
                                                           NA
 7 Droid
            Tatooine
                               132 53.5
                                               49.5
                                                          30.4
  8 Droid
            <NA>
 9 Dug
                                                                   1
            Malastare
 10 Ewok
            Endor
 # ... with 48 more rows
```

Logistics

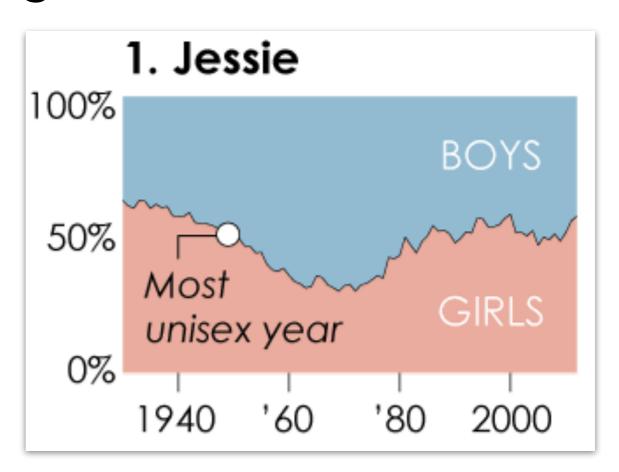
Homework 1

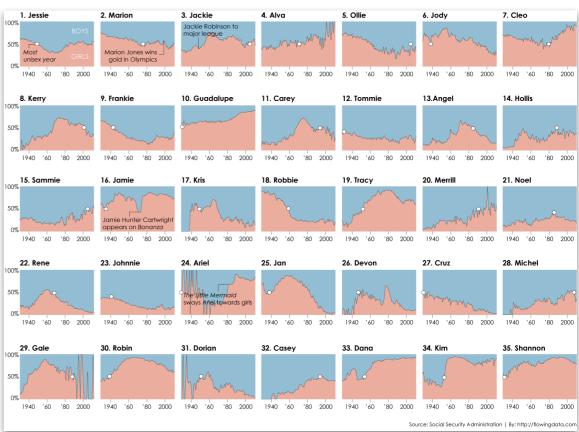
- Make sure to submit on time!
- From now onwards homework that is submitted late will count as **0 points**.
- Remember that your lowest-scored homework doesn't count.
- Also: You can submit early versions and then update later if you like (as long as it's before the deadline).
- Having homework submitted late makes our life difficult.
- It's good practice to take deadlines seriously!

Homework 2: Data wrangling and visualization

year [‡]	sex [‡]	name [‡]	n	prop [‡]
1880	F	Mary	7065	0.0723843285
1880	F	Anna	2604	0.0266792345
1880	F	Emma	2003	0.0205216999
1880	F	Elizabeth	1939	0.0198659891
1880	F	Minnie	1746	0.0178886111
1880	F	Margaret	1578	0.0161673702
1880	F	Ida	1472	0.0150813491
1880	F	Alice	1414	0.0144871112
1880	F	Bertha	1320	0.0135240359
1880	F	Sarah	1288	0.0131961805
1880	F	Annie	1258	0.0128888160
1880	F	Clara	1226	0.0125609606
1880	F	Ella	1156	0.0118437769
1880	F	Florence	1063	0.0108909471
1880	F	Cora	1045	0.0107065284
1880	F	Martha	1040	0.0106553010

- babynames data set from the "The United States Social Security Administration"
- Copy the Master

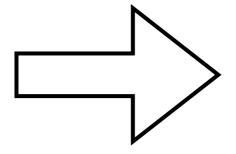




Data wrangling time ...

Replace missing values with mean

participant	judgments
1	66
1	NA
1	26
1	97
1	61
2	20
2	12
2	NA
2	85
2	55



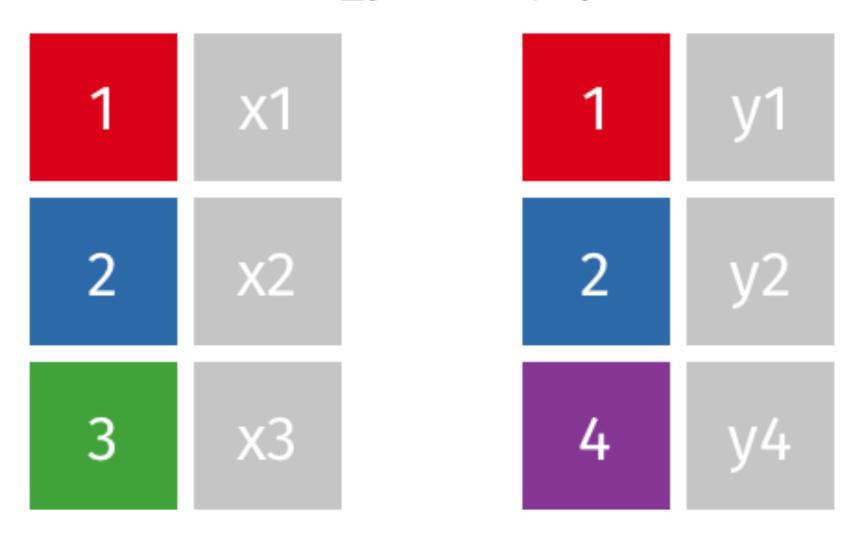
participant	judgments
1	66.0
1	62.5
1	26.0
1	97.0
1	61.0
2	20.0
2	12.0
2	43.0
2	85.0
2	55.0

gather() wide Group 1 Group 2 Group 3 Group 4 Data Header ID long

spread()

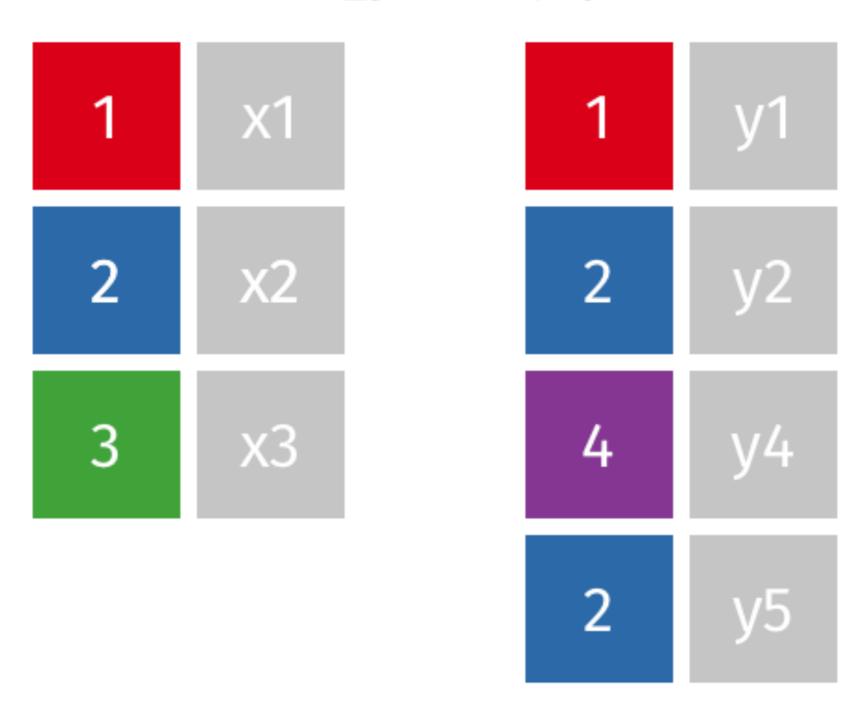
left_join()

left_join(x, y)



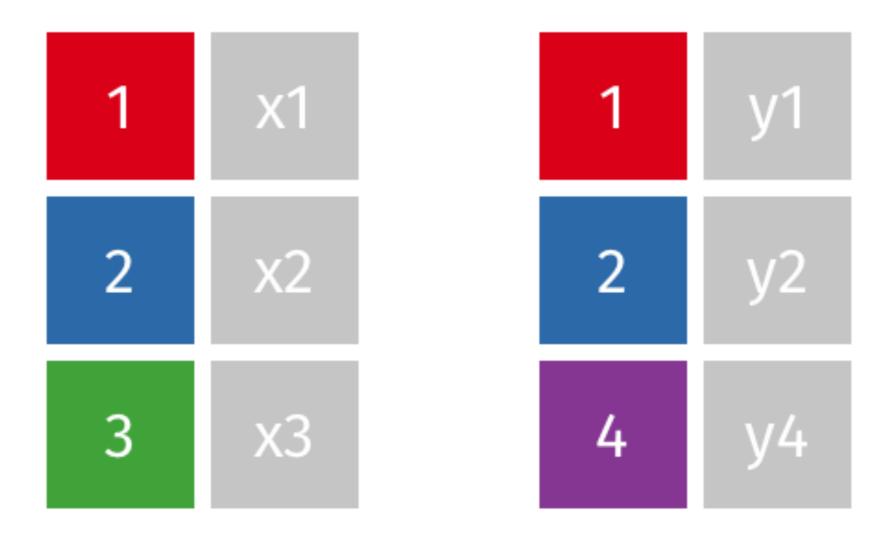
left join()

left_join(x, y)



full_join()

full_join(x, y)



Exercises



I'm done.

blue

Please help.

pink

Thank you!