## PhDcamp2018 Rworkshop

Welcome to the PhD camp for 2018!

This is an R Markdown script that we are going to run parts of. We are going to go through some essentials for learning to use R if you are a beginner. RStudio (the program you are in at the moment) makes R much easier to run. There are also some alternatives:

## Jamovi

Jamovi is an interface for running R but with a nice, user-friendly point-and-click interface. The advantage of using it over SPSS is it gives you the underlying code for your analyses. https://www.jamovi.org

## **RKWard**

RKWard is another user friendly interface for editing R, with a specific focus on statistics heavy users. It is good for beginners, it allows you to edit plots, and data in a spreadsheet like interface. (Thanks to Kevin Shabahang who pointed this out on the GRIPS facebook page!) https://rkward.kde.org

## Jupyter

Jupyter is an interactive environment where you can setup your data analysis so that you can share it with your colleagues and others who may read your papers. It provides a transparent interface in which to do your data analysis and allows others to reproduce the same data analysis. I often see it used for authors who want to post their data analysis online. Like RNotebook documents, it allows you to play sections of your script. Jupyter allows you to code in a number of languages (over 40). Some of the common ones are python, R, Julia http://jupyter.org https://www.datacamp.com/community/blog/jupyter-notebook-r (gives you more info about the R specifics)

```
## [1] 1000
# ----- Subtracting -----
100 - 50
## [1] 50
# ----- Dividing -----
100 / 50
## [1] 2
# ----- Multiple operations -----
(100 - 50) + 10 * 5 # will follow BODMAS (brackets) then runs multiplication, then addition
## [1] 100
Before we do anything else, we are going to learn about variables. You can think of a variable as a container
that we have labelled, and holds stuff We need variables because we need to pull out data out and store it in
things, and we also need to store other information, like the mean, the standard deviation, and the results of
statistical tests somewhere
# In R, most of the time we use <- to assign something. Other languages uses the "=" sign, but when we
# I'll go over the exceptions later (they are few, and far between!)
x <- 6
y <- 1
# Task: type x and then press 'Enter' in the console
# Task: change the value of x to 5
# Task: Add x and y, and assign it to a variable called z
z \leftarrow x + y
# print(variable) will print stuff to the screen
# You can see that z is just the sum of x and y!
print(z)
## [1] 7
# We don't have to limit ourselves to one or two
# Concatenating variables
z \leftarrow c(1,2,3)
# Vectors
vector(mode="logical", length=4)
## [1] FALSE FALSE FALSE FALSE
# Lists
participant.info <- list("firstName" = "Jimbob Ghostkeeper",</pre>
                           "age" = 29,
                           "dob" = "09.12.1988",
                           "suburb" = "Chelsea",
                           "physiological_age" = 50,
                           "educationInYears" = 21,
                           "cars" = list("toyota", "honda"),
                           "childrenAge" = c(4,7,15))
```

Let's try and setup where the workshop files are on your computer. You should have all of this in a folder called 'PhDCamp\_RWorkshop\_2018' First things first: let's figure out what your directory format looks like. Sometimes the way we specify directories in R and

Whenever we start a script, we can add some useful settings. We can store information in R as 'variables' which are like books in a library. When we want information about a specific book, we pull it out, and when we want information about a variable in R, we just type it's name in the console, and get what's inside the book.

I usually start by deleting all of the variables. This is kind of like burning all of the books in the library and getting rid of them, which is a bad analogy, but here I am, using it!

```
#
                      Load / install relevant packages
# ------
# Packages are just "folders" we download from the R website and use to do fancy stuff with R
# The beauty of R is that anyone can make a package (bunch of scripts) and post it online
# R is open source (you dont have to pay for it) and user driven unlike SPSS so you dont have to wait
# around until something you want appears, it is usually there, or you can just make it yourself!
# Although R comes with lots of packages, we don't want R to use all of them - loading these takes memo
# Instead, we only load what we need
# When we run the library command below, we are telling R to load these packages so we can use everythi
library("plyr", "ggplot2") # We can separate packages with commas
                 Task: Setup directories
# -----
# Now we can read the csv file - header=TRUE means that the read.csv function will take the column
# headings from your csv file and then use them for the names of your data frame
file_to_read <- "raw_data.csv"</pre>
raw_data <- read.csv(file.path(exp.rawdir, file_to_read), header = TRUE, sep = ",")
data <- raw_data
# What if I want to change some column names, I hear you ask!!
```

# I have commented this out because our script uses the names from the excel file

```
##
      [1] 2 1 4 3 4 5 2 4 1 4 5 2 1 3 3 4 4 5 4 4 3 5 4 2 3 4 2 5 2 3 5 4 4 5
     [35] 5 4 4 1 4 5 4 3 2 4 1 2 1 1 2 2 2 4 2 5 4 3 5 4 1 2 4 2 3 3 2 3 4 1
##
##
     [69] \ 2\ 4\ 5\ 3\ 3\ 3\ 4\ 3\ 5\ 3\ 2\ 2\ 3\ 4\ 3\ 4\ 2\ 2\ 3\ 4\ 3\ 4\ 4\ 5\ 5\ 2\ 4\ 3\ 3\ 3\ 4\ 5\ 5\ 4
     \begin{smallmatrix} [103] \end{smallmatrix} 4 5 5 5 4 5 1 3 3 3 2 2 1 1 2 3 3 4 5 4 3 3 2 5 3 2 3 5 4 3 1 3 5 2 
##
    [137] 3 3 4 2 3 3 3 5 3 2 3 2 2 2 1 2 5 2 1 2 5 2 2 4 2 5 4 4 2 5 4 5 3 2
##
    [171] 3 3 4 3 4 2 2 3 5 5 3 3 2 4 1 2 4 4 3 4 3 2 3 4 2 2 3 2 5 2 4 4 3 2
    [205] 3 3 2 2 3 2 2 2 4 1 3 5 2 3 4 3 5 5 3 5 3 5 3 3 2 5 5 2 2 4 2 1 4 3
    ##
    [273] 4 2 4 3 4 3 2 5 5 4 4 4 3 1 4 3 4 4 5 2 4 4 3 5 5 2 2 5 4 4 4 4 2 5
##
    [307] 4 4 4 3 3 3 2 2 5 1 2 4 5 3 3 2 3 5 3 4 3 1 4 4 4 5 2 3 1 3 4 5 1 2
##
    [341] 5 2 2 5 2 3 3 3 3 4 4 5 2 1 3 2 2 3 2 4 4 3 4 3 1 3 2 3 3 2 4 5 4 4
   [375] 3 4 4 4 2 3 5 1 2 4 3 3 4 4 4 4 3 3 3 5 4 4 2 3 5 5 4 1 2 5 3 3 1 3
##
   [409] 3 2 4 2 3 4 2 5 3 4 4 4 2 5 4 3 1 4 5 2 4 4 3 3 2 2 4 2 3 2 4 2 4 2
   [443] \ 4 \ 2 \ 5 \ 2 \ 3 \ 2 \ 4 \ 3 \ 3 \ 5 \ 5 \ 3 \ 2 \ 2 \ 2 \ 3 \ 3 \ 5 \ 4 \ 1 \ 3 \ 4 \ 4 \ 3 \ 4 \ 4 \ 5 \ 4 \ 5 \ 3 \ 1 \ 4 \ 1 \ 2
##
   [477] 3 2 3 2 5 3 2 5 4 1 4 4 1 1 2 3 2 1 3 4 4 5 3 5 3 3 2 4 1 2 2 2 1 5
##
##
   [511] 4 3 3 4 2 3 3 4 1 4 5 2 3 3 2 4 5 4 3 3 5 5 2 5 3 3 1 3 3 3 2 3 3 3
   [545] 3 2 3 3 2 4 2 4 2 3 4 2 2 1 1 4 3 4 1 3 3 3 3 2 2 2 5 5 5 1 4 4 2 4
##
    [579] 5 5 4 4 4 2 4 1 2 5 2 4 3 4 3 3 4 4 3 2 2 5 4 2 5 4 5 1 3 5 4 4 2 4
##
##
   [613] 4 3 4 4 4 5 4 4 3 3 4 3 2 2 3 4 5 2 2 5 4 5 2 4 4 4 3 4 3 4 3 2 4 2
   [647] 1 3 4 4 3 4 3 3 4 3 3 3 5 4 3 3 1 3 5 3 3 4 2 5 3 3 3 1 3 3 4 4 5 2
##
   [681] 5 4 1 1 1 3 4 1 3 4 5 5 4 5 5 4 1 4 5 2 1 3 2 2 2 2 1 2 4 4 1 2 3 3
    [715] 2 4 3 5 3 3 3 3 2 2 3 5 2 3 1 3 2 5 3 4 5 2 4 5 4 5 3 1 2 2 2 3 4 2
##
   [749] 5 2 4 4 3 2 3 4 2 4 4 4 3 3 3 4 5 3 3 1 2 4 3 4 3 2 3 4 5 3 3 2 3 3
   [783] 2 3 2 4 2 2 5 5 5 1 4 3 3 4 2 4 2 3 3 4 5 5 5 2 4 2 3 5 2 3 2 4 5 3
    [817] 3 3 3 4 3 3 2 4 1 3 1 5 2 2 4 3 2 3 4 4 2 3 3 2 2 3 4 1 4 5 3 3 4 3
##
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##
   [885] 5 2 4 1 1 3 5 2 3 1 3 2 2 3 4 4 2 5 4 2 4 1 2 4 1 4 3 2 3 1 5 4 2 2
##
   [919] 3 3 1 3 3 4 4 4 3 3 5 2 5 3 3 5 2 5 2 3 3 3 1 3 3 2 2 3 3 3 2 3 5 4
   [953] 2 3 4 4 4 3 3 1 3 5 4 4 5 2 2 3 2 2 3 2 3 4 1 4 3 2 1 5 2 5 3 2 3 3
   [987] 2 4 4 3 3 5 3 3 4 4 2 2 2 4 2 3 4 4 2 4 3 3 3 2 5 5 2 3 3 1 3 1 2 4
## [1021] 4 4 3 4 2 4 2 5 3 1 2 3 3 4 3 5 3 3 3 1 4 3 4 2 3 4 5 2 1 2 2 3 4 3
## [1055] 1 2 4 5 5 3 3 2 2 4 4 4 4 3 2 1 3 4 1 3 3 2 4 3 1 3 3 4 2 4 3 4 5 4
## [1089] 2 4 4 4 4 5 3 4 2 5 5 2 2 4 1 2 3 5 5 3 2 4 5 1 3 4 2 4 5 3 3 2 3 4
## [1123] 3 3 5 2 5 4 1 4 1 3 4 4 2 4 3 3 4 3 3 5 5 5 1 3 4 3 3 4 2 4 1 3 3 3
## [1157] 2 5 3 4 3 2 5 2 4 2 5 4 1 4 5 2 5 3 1 4 3 2 3 3 5 5 1 3 1 4 4 3 2 3
## [1191] 4 2 2 1 5 4 5 3 1 5 3 4 4 4 5 4 2 3 3 3 3 3 5 3 2 3 3 2 5 2 3 5 5 5
## [1225] 5 4 3 4 4 3 1 4 3 4 3 2 2 3 5 3 3 1 3 2 2 4 4 2 4 5 3 2 1 3 4 2 2 2
## [1259] 3 4 4 3 5 4 4 5 4 1 3 2 3 2 5 2 2 4 2 5 4 3 5 1 2 1 3 5 3 3 4 3 2 3
## [1293] 3 3 4 1 4 4 3 2 4 3 4 4 5 3 4 2 5 5 3 4 4 4 4 2 3 2 3 5 2 3 5 2 4 4 4
## [1327] 3 3 2 1 3 2 3 4 2 2 4 2 2 5 2 3 2 2 3 3 5 3 3 1 3 4 4 4 1 3 3 3 5 4
## [1361] 1 1 5 3 2 2 2 4 1 5 3 4 5 3 4 3 3 5 3 3 4 3 2 4 2 3 1 5 3 4 2 1 3 4
## [1395] 3 5 2 4 1 3 4 5 5 3 2 1 2 3 3 4 3 5 3 4 3 3 3 2 4 4 5 2 4 1 1 1 5 3
## [1429] 5 2 4 5 5 1 2 1 5 2 4 2 5 3 2 4 5 2 3 3 5 4 3 5 4 2 4 1 2 3 2 2 5 4
```

```
## [1463] 2 4 3 1 5 2 2 2 3 2 4 4 2 4 4 1 5 2 1 2 4 1 4 3 3 2 4 3 1 4 4 4 3 3
## [1497] 2 3 3 5 4 2 3 1 4 2 3 1 5 5 2 3 5 3 3 2 3 4 4 3 2 4 1 4 3 3 5 1 3 2
## [1531] 1 3 2 5 4 1 4 2 2 4 3 5 5 3 4 1 3 5 4 2 3 4 2 5 3 3 3 2 1 4 5 5 4 3
## [1565] 4 4 5 4 4 4 4 5 1 2 2 3 2 3 3 4 5 3 5 2 3 3 4 4 1 3 4 4 3 4 1 1 5 5
## [1599] 4 3 2 3 3 3 3 2 4 2 4 3 4 3 4 2 3 4 1 3 2 1 3 4 4 2 4 4 4 2 2 4 2 3
## [1633] 3 4 2 2 2 4 3 5 4 2 2 4 1 2 5 2 4 1 2 4 4 3 4 5 2 1 5 4 5 2 2 2 4 2
## [1667] 5 5 1 4 4 2 5 1 1 2 3 2 2 3 4 2 2 3 2 1 4 3 4 3 5 5 2 4 2 3 2 2 2 2
## [1701] 1 4 4 4 4 4 3 2 2 2 4 3 2 4 3 3 4 4 3 3 4 3 2 1 3 2 5 5 2 4 4 3 3 5
## [1735] 5 3 4 4 3 3 1 5 3 4 3 2 3 3 3 3 2 3 1 4 2 3 4 4 3 4 3 3 2 4 3 2 3 4
## [1769] 2 2 2 3 1 3 5 1 5 2 3 3 5 1 3 5 2 4 3 2 4 2 2 3 2 3 4 3 2 4 1 1 4 3
## [1803] 2 1 4 4 5 5 3 4 4 3 3 2 4 3 4 3 2 5 1 3 2 5 4 4 2 1 2 3 3 3 3 1 3 3
## [1837] 2 3 3 1 4 4 3 5 3 5 3 5 3 5 3 2 5 3 3 4 3 2 3 4 4 2 1 2 2 2 2 4 5 3 2 4
## [1871] 4 3 1 3 5 4 3 5 4 4 4 4 5 4 5 4 4 2 1 3 1 4 3 4 2 3 5 4 2 3 1 3 1 5
## [1905] 2 2 4 2 3 4 4 1 5 3 1 3 5 3 2 2 4 3 3 3 3 3 3 1 4 4 4 5 3 3 4 5 3 5
## [1939] 5 4 1 4 3 2 3 2 3 3 3 3 5 5 5 2 4 2 3 5 3 2 4 3 3 2 4 3 3 4 4 3 2 5
## [1973] 5 1 3 2 4 5 2 4 3 3 2 2 3 5 3 5 3 2 3 2 4 5 3 2 3 3 4 3 1 3 4 5 3 5
## [2007] 5 5 4 3 4 1 2 2 2 3 3 4 5 4 3 3 5 1 3 1 4 3 2 3 3 2 2 4 3 2 4 2 1 4
## [2041] 3 3 5 2 4 4 5 3 3 3 3 3 1 2 3 3 3 4 2 2 1 5 2 5 3 3 4 3 3 4 2 1 2 1
## [2075] 4 3 2 5 2 3 2 3 3 2 2 4 3 5 1 2 3 3 4 5 5 5 3 1 2 4 5 3 1 3 4 4 4 4
## [2109] 4 5 4 4 3 3 4 4 2 1 2 4 4 3 2 4 3 1 5 3 2 3 4 3 2 2 3 5 1 3 2 4 2 3
## [2143] 4 1 2 4 5 4 2 4 4 2 2 1 3 4 2 4 5 4 4 1 4 5 2 2 3 1 3 5 5 4 2 1 2 4
## [2177] 3 1 2 4 3 4 4 2 4 2 3 2 4 1 4 5 3 2 1 5 2 3 3 4 4 4 5 4 4 4 4 4 3 3
## [2211] 5 4 3 2 3 4 3 4 2 5 4 3 4 4 3 2 5 3 2 2 2 2 3 5 3 2 4 4 5 3 4 4 5 3
## [2245] 4 2 3 3 2 3 4 4 1 2 4 4 5 3 2 1 3 5 3 5 3 2 3 4 3 4 2 1 5 1 2 4 3 1
## [2279] 1 4 2 4 3 4 1 3 2 4 2 3 4 2 3 2 2 3 4 2 4 4 2 3 3 2 4 4 4 3 2 4 4 4
## [2313] 2 5 3 4 3 4 3 4 4 1 5 2 4 1 3 5 3 3 2 3 3 4 4 2 3 3 2 3 2 5 3 4 2 4
## [2347] 4 3 3 4 3 2 4 2 3 3 4 5 3 2 4 4 3 2 5 1 4 2 2 4 5 4 2 3 4 5 3 5 2 3
## [2381] 2 5 3 3 2 3 1 1 5 5 4 2 3 2 5 4 5 3 2 2
data$conf[data$subj_no==1] # reads out confidence values only for subject 1
     [1] \ 4 \ 1 \ 4 \ 5 \ 2 \ 2 \ 3 \ 1 \ 3 \ 5 \ 5 \ 4 \ 2 \ 1 \ 2 \ 4 \ 3 \ 1 \ 2 \ 4 \ 3 \ 4 \ 4 \ 2 \ 4 \ 2 \ 3 \ 2 \ 4 \ 1 \ 4 \ 5 \ 3 \ 2 \ 1
   [36] 5 2 3 3 4 4 4 5 4 4 4 4 4 3 3 5 4 3 2 3 4 3 4 2 5 4 3 4 4 3 2 5 3 2 2
   [71] 2 2 3 5 3 2 4 4 5 3 4 4 5 3 4 2 3 3 2 3 4 4 1 2 4 4 5 3 2 1 3 5 3 5 3
## [106] 2 3 4 3 4 2 1 5 1 2 4 3 1 1 4 2 4 3 4 1 3 2 4 2 3 4 2 3 2 2 3 4 2 4 4
## [141] 2 3 3 2 4 4 4 3 2 4 4 4 2 5 3 4 3 4 4 4 1 5 2 4 1 3 5 3 3 2 3 3 4 4
## [176] 2 3 3 2 3 2 5 3 4 2 4 4 3 3 4 3 2 4 2 3 3 4 5 3 2 4 4 3 2 5 1 4 2 2 4
## [211] 5 4 2 3 4 5 3 5 2 3 2 5 3 3 2 3 1 1 5 5 4 2 3 2 5 4 5 3 2 2
data$conf[data$subj_no==1 & data$subj_no==2] # reading out confidence values for subject 1 AND 2
## integer(0)
data[data$subj_no==1, ] # read out all rows where subject number is 1, and ALL columns for this subject
           X subj_no age group stim trial difficulty resp corr conf
                                                                       RT_day1
## 2161 2161
                   1
                      21
                             1
                                  2
                                         1
                                                    1
                                                         2
                                                               1
                                                                    4 0.5111310
## 2162 2162
                   1
                      27
                              1
                                  1
                                         2
                                                    3
                                                         2
                                                               0
                                                                    1 1.2946032
## 2163 2163
                   1
                      22
                             1
                                   2
                                         3
                                                    1
                                                         2
                                                              1
                                                                    4 0.4647857
## 2164 2164
                      24
                   1
                             1
                                   1
                                         4
                                                    1
                                                         1
                                                               1
                                                                    5 0.4657239
## 2165 2165
                   1
                      28
                             1
                                   2
                                         5
                                                    3
                                                         1
                                                              0
                                                                    2 1.4165336
                                                    3
## 2166 2166
                   1 18
                             1
                                  1
                                         6
                                                         1
                                                               1
                                                                   2 0.6995403
## 2167 2167
                   1 30
                             1
                                  1
                                         7
                                                    2
                                                         1
                                                              1
                                                                   3 0.4745215
## 2168 2168
                   1
                      20
                             1
                                  2
                                         8
                                                    3
                                                         1
                                                              0
                                                                   1 0.9338379
                                  2
                                                    2
## 2169 2169
                   1 24
                             1
                                         9
                                                              0
                                                                   3 0.8805971
                                                         1
## 2170 2170
                   1 30
                             1
                                  1
                                        10
                                                         1
                                                              1
                                                                   5 0.4453162
```

## 2171 2171	1	21	1	2	11	1	2	1	5 0.4733645
## 2172 2172	1	27	1	2	12	2	2	1	4 0.5974170
## 2173 2173	1	22	1	2	13	3	1	0	2 1.4431742
## 2174 2174	1	24	1	2	14	3	1	0	1 1.7678909
## 2175 2175	1	28	1	2	15	2	1	0	2 0.7606065
## 2176 2176	1	18	1	1	16	1	1	1	4 0.3429215
## 2170 2170 ## 2177 2177	1	30	1	1	17	3	1	1	3 1.1609741
	1	20				3	2	0	1 1.2152560
	_		1	1	18				
## 2179 2179	1	24	1	2	19	3	2	1	2 0.9945911
## 2180 2180	1	30	1	1	20	2	1	1	4 0.5740948
## 2181 2181	1	21	1	1	21	2	1	1	3 0.4589446
## 2182 2182	1	27	1	1	22	1	2	0	4 0.6448975
## 2183 2183	1	22	1	1	23	1	1	1	4 0.5147993
## 2184 2184	1	24	1	2	24	3	1	0	2 0.9641536
## 2185 2185	1	28	1	2	25	2	2	1	4 0.5895835
## 2186 2186	1	18	1	2	26	3	1	0	2 1.1223794
## 2187 2187	1	30	1	2	27	2	2	1	3 0.6234817
## 2188 2188	1	20	1	1	28	2	2	0	2 0.9787836
## 2189 2189	1	24	1	1	29	2	1	1	4 0.5438362
## 2190 2190	1	30	1	2	30	3	1	0	1 0.7164217
## 2191 2191	1	21	1	1	31	2	1	1	4 0.6123970
## 2192 2192	1	27	1	1	32	1	1	1	5 0.3548580
## 2193 2193	1	22	1	1	33	3	1	1	3 0.8698728
## 2194 2194	1	24	1	1	34	3	2	0	2 0.7280196
## 2195 2195	1	28	1	1	35	3	2	0	1 1.4877927
## 2196 2196	1	18	1	1	36	1	1	1	5 0.3277807
## 2197 2197	1	30	1	2	37	3	2	1	2 0.6340728
## 2198 2198	1	20	1	2	38	3	2	1	3 0.5509760
## 2199 2199	1	24	1	1	39	2	2	0	3 0.5860195
## 2200 2200	1	30	1	1	40	1	2	0	4 0.4831197
## 2201 2201	1	21	1	2	41	1	1	0	4 0.4787218
## 2201 2201	1	27	1	1	42	1	1	1	4 0.3793509
## 2202 2202	1	22	1	2	43	1	2	1	5 0.4970290
## 2203 2203 ## 2204 2204	1	24	1	1	43 44	1	1	1	4 0.4607809
	_	2 <del>4</del> 28	=	2		1	2	_	4 0.4232781
## 2205 2205	1		1		45 46	_		1	
## 2206 2206	1	18	1	2	46	1	2	1	4 0.3950229
## 2207 2207	1	30	1	2	47	1	1	0	4 0.4693055
## 2208 2208	1	20	1	2	48	1	2	1	4 0.4688677
## 2209 2209	1	24	1	2	49	3	2	1	3 0.9966940
## 2210 2210	1	30	1	2	50	2	1	0	3 0.6808760
## 2211 2211	1	21	1	1	51	1	1	1	5 0.3511141
## 2212 2212	1	27	1	2	52	2	2	1	4 0.6582444
## 2213 2213	1	22	1	1	53	2	1	1	3 0.6265721
## 2214 2214	1	24	1	2	54	3	2	1	2 0.8937633
## 2215 2215	1	28	1	2	55	2	1	0	3 0.5633169
## 2216 2216	1	18	1	2	56	2	2	1	4 0.7736909
## 2217 2217	1	30	1	1	57	2	2	0	3 0.5798878
## 2218 2218	1	20	1	2	58	1	2	1	4 0.4270307
## 2219 2219	1	24	1	2	59	3	2	1	2 0.8680045
## 2220 2220	1	30	1	2	60	1	2	1	5 0.3666625
## 2221 2221	1	21	1	2	61	1	1	0	4 0.5776712
## 2222 2222	1	27	1	2	62	2	1	0	3 0.6385925
## 2223 2223	1	22	1	2	63	2	2	1	4 0.4743229
## 2224 2224	1	24	1	2	64	2	2	1	4 0.6457955
2221 2221	_		-	-	<b>0</b> 1	-	-	-	1 0.010,000

			_					
## 2225 2225	1 28	1	2	65	1	1	0	3 0.5679022
## 2226 2226	1 18	1	1	66	2	2	0	2 0.8460193
## 2227 2227	1 30	1	1	67	1	1	1	5 0.4594764
## 2228 2228	1 20	1	2	68	2	2	1	3 0.8588370
## 2229 2229	1 24	1	2	69	3	1	0	2 0.7305836
## 2230 2230	1 30	1	2	70	3	2	1	2 0.4302879
## 2231 2231	1 21	1	1	71	3	2	0	2 0.6046627
							-	
## 2232 2232	1 27	1	1	72	3	2	0	2 1.5830440
## 2233 2233	1 22	1	2	73	2	1	0	3 0.6887286
## 2234 2234	1 24	1	2	74	1	2	1	5 0.4252925
## 2235 2235	1 28	1	2	75	3	2	1	3 0.6183145
## 2236 2236	1 18	1	2	76	2	1	0	2 0.8742509
## 2237 2237	1 30	1	2	77	2	2	1	4 0.7501458
## 2238 2238	1 20	1	2	78	1	2	1	4 0.3436001
## 2239 2239	1 24	1	2	79	1	2	1	5 0.3793904
## 2240 2240	1 30	1	1	80	1	2	0	3 0.3645949
## 2241 2241	1 21	1	1	81	1	1	1	4 0.4599887
## 2242 2242	1 27		2	82	2	2	1	4 0.5309559
		1					_	
## 2243 2243	1 22	1	2	83	1	2	1	5 0.4377116
## 2244 2244	1 24	1	2	84	3	2	1	3 0.7587122
## 2245 2245	1 28	1	1	85	1	1	1	4 0.3212917
## 2246 2246	1 18	1	2	86	2	1	0	2 0.7084128
## 2247 2247	1 30	1	1	87	3	1	1	3 1.2007103
## 2248 2248	1 20	1	2	88	2	2	1	3 0.9034592
## 2249 2249	1 24	1	2	89	2	1	0	2 0.8596626
## 2250 2250	1 30	1	1	90	2	1	1	3 0.3965352
## 2251 2251	1 21	1	1	91	2	1	1	4 0.5221813
## 2252 2252	1 27	1	2	92	1	1	0	4 0.6033041
## 2253 2253	1 22	1	1	93	3	2	0	1 0.8300720
## 2254 2254	1 24	1	1	94	3	2	0	2 1.1870933
							-	
## 2255 2255	1 28	1	1	95	1	1	1	4 0.5094196
## 2256 2256	1 18	1	2	96	1	2	1	4 0.4777074
## 2257 2257	1 30	1	2	97	1	2	1	5 0.4741412
## 2258 2258	1 20	1	1	98	2	1	1	3 0.3685948
## 2259 2259	1 24	1	1	99	3	1	1	2 0.7622575
## 2260 2260	1 30	1	2	100	3	1	0	1 0.9932476
## 2261 2261	1 21	1	1	101	2	1	1	3 0.4913631
## 2262 2262	1 27	1	1	102	1	1	1	5 0.3475351
## 2263 2263	1 22	1	2	103	3	2	1	3 0.9414225
## 2264 2264	1 24	1	2	104	1	2	1	5 0.4813865
## 2265 2265	1 28	1	1	105	2	2	0	3 0.3539713
## 2266 2266	1 18	1	2	106	2	1	0	2 0.8159470
		1		107	2	1		3 0.8256813
			1				1	
## 2268 2268	1 20	1	2	108	2	2	1	4 0.5052851
## 2269 2269	1 24	1	2	109	3	2	1	3 0.6972699
## 2270 2270	1 30	1	1	110	2	1	1	4 0.6104520
## 2271 2271	1 21	1	1	111	3	2	0	2 1.3449959
## 2272 2272	1 27	1	1	112	3	2	0	1 0.8159282
## 2273 2273	1 22	1	2	113	1	2	1	5 0.3444345
## 2274 2274	1 24	1	1	114	3	2	0	1 1.0423825
## 2275 2275	1 28	1	1	115	3	1	1	2 0.8192029
## 2276 2276	1 18	1	2	116	1	2	1	4 0.3271660
## 2277 2277	1 30	1	2	117	2	2	1	3 0.5759623
## 2278 2278	1 20	1	1	118	3	2	0	1 1.5778356
22.0 22.0	1 20	_	_	110	J	_	v	1 1.0770000

## 2279 2279	1	24	1	1	119	3	2	0	1 0.8801532
## 2280 2280	1	30	1	2	120	1	2	1	4 0.3657111
## 2281 2281	1	21	1	1	121	2	2	0	2 0.5834432
## 2282 2282	1	27	1	2	122	1	2	1	4 0.4996641
## 2283 2283	1	22	1	2	123	2	1	0	3 0.7756041
## 2284 2284	1	24	1	2	124	1	2	1	4 0.5230263
## 2285 2285	1	28	1	2	125	3	1	0	1 0.9866645
## 2286 2286	1	18	1	1	126	2	2	0	3 0.7030740
## 2287 2287	1	30	1	1	127	3	2	0	2 0.8425237
## 2288 2288	1	20	1	2	128	2	2	1	4 0.4616118
	1	24		2	129	3	2	1	2 0.6252256
	_	30	1					_	
## 2290 2290	1		1	2	130	3	2	1	3 0.7199080
## 2291 2291	1	21	1	2	131	1	2	1	4 0.5008544
## 2292 2292	1	27	1	2	132	3	1	0	2 0.7494023
## 2293 2293	1	22	1	2	133	3	2	1	3 0.7113318
## 2294 2294	1	24	1	1	134	3	1	1	2 0.7356420
## 2295 2295	1	28	1	2	135	3	1	0	2 0.5967058
## 2296 2296	1	18	1	1	136	3	1	1	3 1.0235213
## 2297 2297	1	30	1	2	137	1	2	1	4 0.5309135
## 2298 2298	1	20	1	2	138	3	2	1	2 0.7763011
## 2299 2299	1	24	1	1	139	1	2	0	4 0.6933783
## 2300 2300	1	30	1	1	140	1	1	1	4 0.4617700
## 2301 2301	1	21	1	1	141	3	2	0	2 0.7053376
## 2302 2302	1	27	1	1	142	1	2	0	3 0.5471384
## 2303 2303	1	22	1	1	143	2	1	1	3 0.3857099
## 2304 2304	1	24	1	1	144	2	2	0	2 0.4881168
## 2305 2305	1	28	1	1	145	1	1	1	4 0.4727629
## 2306 2306	1	18	1	1	146	1	1	1	4 0.2941847
## 2307 2307	1	30	1	1	147	2	1	1	4 0.5570299
## 2308 2308	1	20	1	2	148	3	2	1	3 0.5196783
## 2309 2309	1	24	1	2	149	3	2	1	2 0.6832035
## 2310 2310	1	30	1	2	150	1	2	1	4 0.3931876
## 2311 2311	1	21	1	1	151	1	1	1	4 0.5273627
## 2312 2312	1	27	1	2	152	1	2	1	4 0.3114765
## 2313 2313	1	22	1	1	153	3	2	0	2 1.2593494
## 2314 2314	1	24	1	1	154	1	1	1	5 0.3865931
## 2315 2315	1	28	1	2	155	3	2	1	3 0.8544662
## 2316 2316	1	18	1	1	156	1	1	1	4 0.5413490
## 2317 2317	1	30	1	2	157	2	1	0	3 0.8325009
## 2318 2318	1	20	1	1	158	1	1	1	4 0.5191319
## 2319 2319	1	24	1	2	159	2	2	1	3 0.5354546
## 2320 2320	1	30	1	1	160	2	1	1	4 0.3883396
## 2321 2321	1	21	1	2	161	1	2	1	4 0.4447940
## 2322 2322	1	27	1	2	162	3	1	0	1 1.3709007
## 2323 2323	1	22	1	1	163	1	1	1	5 0.3767143
## 2324 2324	1	24	1	2	164	2	1	0	2 0.3944740
## 2325 2325	1	28	1	2	165	1	1	0	4 0.5081249
## 2326 2326	1	18	1	1	166	3	2	0	1 0.2692918
## 2320 2320 ## 2327 2327	1	30	1	2	167	3	2	1	3 0.9474584
## 2327 2327 ## 2328 2328	1	20	1	1	168	1	1	1	5 0.3507624
## 2329 2329	1	20 24	1	1	169	3	1	1	3 0.9697200
	1	30	1	1	170	2	2	0	
						3			3 0.4911199
## 2331 2331	1	21	1	1	171		1	1	2 0.6649858
## 2332 2332	1	27	1	1	172	2	1	1	3 0.6816010

				_					
## 2333 2333	1	22	1	2	173	2	1	0	3 0.9036344
## 2334 2334	1	24	1	1	174	2	1	1	4 0.3810076
## 2335 2335	1	28	1	1	175	1	1	1	4 0.4422688
## 2336 2336	1	18	1	1	176	2	2	0	2 0.6879075
## 2337 2337	1	30	1	2	177	2	1	0	3 0.7625130
## 2338 2338	1	20	1	1	178	1	2	0	3 0.5617315
	1	24				2	2	0	
## 2339 2339	_		1	1	179			•	2 0.6834276
## 2340 2340	1	30	1	2	180	1	1	0	3 0.4260579
## 2341 2341	1	21	1	1	181	2	2	0	2 0.6099911
## 2342 2342	1	27	1	1	182	1	1	1	5 0.3879562
## 2343 2343	1	22	1	1	183	3	1	1	3 0.6560534
## 2344 2344	1	24	1	2	184	2	2	1	4 0.7743913
## 2345 2345	1	28	1	1	185	3	2	0	2 1.5422954
## 2346 2346	1	18	1	2	186	1	2	1	4 0.4306387
## 2347 2347	1	30	1	1	187	2	1	1	4 0.5028732
	1	20						1	
## 2348 2348	_		1	2	188	2	2	_	3 0.7434418
## 2349 2349	1	24	1	1	189	3	1	1	3 0.9592629
## 2350 2350	1	30	1	1	190	2	1	1	4 0.5390578
## 2351 2351	1	21	1	1	191	2	2	0	3 0.5482889
## 2352 2352	1	27	1	1	192	3	2	0	2 0.8125452
## 2353 2353	1	22	1	1	193	2	1	1	4 0.6522239
## 2354 2354	1	24	1	1	194	3	2	0	2 1.7520926
## 2355 2355	1	28	1	2	195	2	2	1	3 0.6588055
## 2356 2356	1	18	1	2	196	3	2	1	3 0.9147139
	_							_	
## 2357 2357	1	30	1	2	197	1	1	0	4 0.4335863
## 2358 2358	1	20	1	1	198	1	1	1	5 0.4190480
## 2359 2359	1	24	1	2	199	3	2	1	3 1.0694441
## 2360 2360	1	30	1	2	200	3	2	1	2 0.9676029
## 2361 2361	1	21	1	1	201	2	1	1	4 0.6928043
## 2362 2362	1	27	1	2	202	1	2	1	4 0.2498216
## 2363 2363	1	22	1	2	203	2	2	1	3 0.4465162
## 2364 2364	1	24	1	1	204	3	2	0	2 1.5827366
## 2365 2365	1	28	1	1	205	1	1	1	5 0.4247755
	_							_	
## 2366 2366	1	18	1	1	206	3	2	0	1 1.7146672
## 2367 2367	1	30	1	1	207	2	1	1	4 0.5532303
## 2368 2368	1	20	1	2	208	3	2	1	2 0.8550833
## 2369 2369	1	24	1	1	209	2	2	0	2 0.5864324
## 2370 2370	1	30	1	1	210	2	1	1	4 0.6953404
## 2371 2371	1	21	1	2	211	1	2	1	5 0.4057153
## 2372 2372	1	27	1	1	212	1	1	1	4 0.4649384
## 2373 2373	1	22	1	1	213	3	1	1	2 0.9539656
## 2374 2374	1	24	1	1	214	2	1	1	3 0.5045059
## 2375 2375	1	28	1	2	215	2	2	1	4 0.4233018
	_								
## 2376 2376	1	18	1	2	216	1	2	1	5 0.4074139
## 2377 2377	1	30	1	2	217	2	2	1	3 0.6036208
## 2378 2378	1	20	1	1	218	1	1	1	5 0.4572729
## 2379 2379	1	24	1	2	219	3	2	1	2 0.7844514
## 2380 2380	1	30	1	2	220	2	2	1	3 0.4906638
## 2381 2381	1	21	1	1	221	3	2	0	2 1.2699846
## 2382 2382	1	27	1	1	222	1	1	1	5 0.3616624
## 2383 2383	1	22	1	2	223	2	1	0	3 0.7704546
## 2384 2384	1	24	1	1	224	1	2	0	3 0.4760977
## 2385 2385	1	28	1	1	225	3	1	1	2 1.2629440
## 2386 2386	1	18	1	2	226	2	2	1	3 0.5120789

```
2
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                  1
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                                  1
                                       227
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                                                                   1 0.7084243
## 2388 2388
                      20
                                       228
                                                    3
                                                         2
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                             1
                                   1
                                                              0
                                                                   1 0.5183954
                                                         2
                                                                   5 0.4536484
## 2389 2389
                      24
                                   2
                                       229
## 2390 2390
                      30
                                       230
                                                                   5 0.3084124
                   1
                             1
                                   1
                                                    1
                                                         1
                                                              1
## 2391 2391
                   1
                      21
                             1
                                   1
                                       231
                                                    1
                                                         1
                                                              1
                                                                   4 0.2881024
## 2392 2392
                      27
                                   2
                                                    3
                                                              0
                                                                   2 0.6400150
                  1
                             1
                                       232
                                                         1
## 2393 2393
                      22
                                                    2
                                                              0
                                                                   3 0.7629680
                  1
                             1
                                       233
                  1
                      24
                                   2
                                                    3
## 2394 2394
                             1
                                       234
                                                         1
                                                              0
                                                                   2 1.0502251
## 2395 2395
                  1
                      28
                             1
                                   1
                                       235
                                                    1
                                                         1
                                                              1
                                                                   5 0.4934841
                                   2
                                                    2
## 2396 2396
                  1
                      18
                             1
                                       236
                                                         2
                                                              1
                                                                   4 0.6415396
## 2397 2397
                  1
                      30
                             1
                                   1
                                       237
                                                    1
                                                         1
                                                              1
                                                                   5 0.3102757
                      20
## 2398 2398
                                   2
                                       238
                                                    3
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                   1
                             1
                                                              1
                                                                   3 0.7538882
                                                       1
## 2399 2399
                   1
                      24
                             1
                                  1
                                       239
                                                    3
                                                              1
                                                                   2 0.6969330
                                                    2
                                                         2
## 2400 2400
                                  1
                                                              0
                      30
                             1
                                       240
                                                                   2 0.6966866
##
          RT_day2
## 2161 1.1317601
## 2162 2.3696462
## 2163 1.0585344
## 2164 1.0600168
## 2165 2.5622960
## 2166 1.4294467
## 2167 1.0739170
## 2168 1.7996369
## 2169 1.7155164
## 2170 1.0277727
## 2171 1.0720890
## 2172 1.2680918
## 2173 2.6043883
## 2174 3.1174407
## 2175 1.5259313
## 2176 0.8659889
## 2177 2.1585121
## 2178 2.2442775
## 2179 1.8956269
## 2180 1.2312427
## 2181 1.0493055
## 2182 1.3431111
## 2183 1.1375559
## 2184 1.8475358
## 2185 1.2557149
## 2186 2.0975325
## 2187 1.3092741
## 2188 1.8706511
## 2189 1.1834342
## 2190 1.4561193
## 2191 1.2917603
## 2192 0.8848486
## 2193 1.6985721
## 2194 1.4744440
## 2195 2.6748856
## 2196 0.8420666
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## 2197 1.3260081 ## 2198 1.1947151 ## 2199 1.2500839

- ## 2200 1.0875021
- ## 2201 1.0805535
- ## 2202 0.9235475
- ## 2203 1.1094788
- ## 2204 1.0522069
- ## 2205 0.9929525
- ## 2206 0.9483091
- ## 2207 1.0656757
- ## 2208 1.0649840
- ## 2200 1.0043040
- ## 2209 1.8989495 ## 2210 1.3999571
- ## 2211 0.8789333
- ## ZZII 0.0703333
- ## 2212 1.3641992
- ## 2213 1.3141570
- ## 2214 1.7363191
- ## 2215 1.2142137
- ## 2216 1.5466046
- ## 2217 1.2403957
- ## 2218 0.9988815
- ## 2219 1.6956202
- ## 2220 0.9034997
- ## 2221 1.2368935
- ## 2222 1.3331492
- ## 2223 1.0736032
- ## 2224 1.3445299
- ## 2225 1.2214585
- ## 2226 1.6608835
- ## 2227 1.0501457
- ## 2228 1.6811355
- ## 2229 1.4784951
- ## 2230 1.0040280
- ## 2231 1.2795401
- ## 2232 2.8253826 ## 2233 1.4123642
- ## 2234 0.9961352
- ## 2235 1.3011099
- ## 2236 1.7054895
- ## 2237 1.5094033
- ## 2238 0.8670612
- ## 2239 0.9236099
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- ## 2241 1.0509552
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- ## 2243 1.0157574
- ## 2244 1.5229383
- ## 2245 0.8318140
- ## 2246 1.4434652
- ## 2247 2.2212954
- ## 2248 1.7516386
- ## 2249 1.6824399
- ## 2250 0.9506987
- ## 2251 1.1492194 ## 2252 1.2773934
- ## 2253 1.6356868

- ## 2254 2.1997805
- ## 2255 1.1290559
- ## 2256 1.0789506
- ## 2257 1.0733161
- ## 2258 0.9065528
- ## 2259 1.5285398
- ## 2260 1.8935042
- ## 2261 1.1005267
- ## 2262 0.8732784
- ## 2263 1.8116206
- ## 2264 1.0847636
- ## 2265 0.8834476
- ## 2266 1.6133693
- ## 2267 1.6287495 ## 2268 1.1225235
- ## 2269 1.4258595
- ## 2270 1.2886872
- ## 2271 2.4492665
- ## 2272 1.6133396
- ## 2273 0.8683796
- ## 2274 1.9711373
- ## 2275 1.6185137
- ## 2276 0.8410953
- ## 2277 1.2341934
- ## 2278 2.8171533
- ## 2279 1.7148150
- ## 2280 0.9019966
- ## 2281 1.2460133
- ## 2282 1.1136423
- ## 2283 1.5496275
- ## 2284 1.1505546
- ## 2285 1.8831029
- ## 2286 1.4350299
- ## 2287 1.6553604
- ## 2288 1.0535196
- ## 2289 1.3120295
- ## 2290 1.4616277 ## 2291 1.1155230
- ## 2292 1.5082287
- ## 2293 1.4480772 ## 2294 1.4864873
- ## 2295 1.2669681
- ## 2296 1.9413366
- ## 2297 1.1630163
- ## 2298 1.5507288
- ## 2299 1.4197108
- ## 2300 1.0537696
- ## 2301 1.4386064
- ## 2302 1.1886517
- ## 2303 0.9335946
- ## 2304 1.0953975
- ## 2305 1.0711383
- ## 2306 0.7889848 ## 2307 1.2042803

- ## 2308 1.1452647
- ## 2309 1.4036345
- ## 2310 0.9454094
- ## 2311 1.1574061
- ## 2312 0.8163059
- ## 2313 2.3139451
- ## 2314 0.9349901
- ## 2315 1.6742296
- ## 2316 1.1795044
- ## 2317 1.6395244
- "" 2011 1.0000211
- ## 2318 1.1444015
- ## 2319 1.1701913 ## 2320 0.9377495
- ## 2020 0.0011400
- ## 2321 1.0269475
- ## 2322 2.4901961
- ## 2323 0.9193816
- ## 2324 0.9474419
- ## 2325 1.1270104
- ## 2326 0.7496541
- ## 2327 1.8211573
- ## 2328 0.8783777
- ## 2329 1.8563306
- ## 2330 1.1001425
- ## 2331 1.3748506
- ## 2332 1.4011025
- ## 2333 1.7519153
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- ## 2335 1.0229577
- ## 2336 1.4110669
- ## 2337 1.5289436
- ## 2338 1.2117088
- ## 2339 1.4039886
- ## 2340 0.9973445
- ## 2341 1.2879590
- ## 2342 0.9371439
- ## 2343 1.3607375
- ## 2344 1.5477112
- ## 2345 2.7609997 ## 2346 1.0045821
- ## 2347 1.1187127
- ## 2348 1.4988111
- ## 2349 1.8398084
- ## 2350 1.1758844
- ## 2351 1.1904695
- ## 2352 1.6079945
- ## 2353 1.3546868
- ## 2354 3.0924793
- ## 2355 1.3650857
- ## 2356 1.7694210
- ## 2357 1.0092394
- ## 2358 0.9862688
- ## 2359 2.0138947
- ## 2360 1.8529856
- ## 2361 1.4188038

```
## 2362 0.7188911
## 2363 1.0296686
## 2364 2.8248969
## 2365 0.9953184
## 2366 3.0333471
## 2367 1.1982769
## 2368 1.6752046
## 2369 1.2507362
## 2370 1.4228109
## 2371 0.9652032
## 2372 1.0587757
## 2373 1.8314387
## 2374 1.1212924
## 2375 0.9929899
## 2376 0.9678869
## 2377 1.2778938
## 2378 1.0466642
## 2379 1.5636062
## 2380 1.0994219
## 2381 2.3307487
## 2382 0.8955995
## 2383 1.5414913
## 2384 1.0764073
## 2385 2.3196245
## 2386 1.1332577
## 2387 1.4434833
## 2388 1.1432378
## 2389 1.0409375
## 2390 0.8114647
## 2391 0.7793748
## 2392 1.3353967
## 2393 1.5296624
## 2394 1.9835287
## 2395 1.1038779
## 2396 1.3378056
## 2397 0.8144087
## 2398 1.5153163
## 2399 1.4253272
## 2400 1.4249378
# remember the format we use is [rows, columns]
# We can also read out stuff this way:
data[,'conf'] # read out the confidence column
      [1] 2 1 4 3 4 5 2 4 1 4 5 2 1 3 3 4 4 5 4 4 3 5 4 2 3 4 2 5 2 3 5 4 4 5
##
##
     [35] 5 4 4 1 4 5 4 3 2 4 1 2 1 1 2 2 2 4 2 5 4 3 5 4 1 2 4 2 3 3 2 3 4 1
     [69] \ 2\ 4\ 5\ 3\ 3\ 3\ 4\ 3\ 5\ 3\ 2\ 2\ 3\ 4\ 3\ 4\ 2\ 2\ 3\ 4\ 3\ 4\ 4\ 5\ 5\ 2\ 4\ 3\ 3\ 3\ 4\ 5\ 5\ 4
##
##
     \begin{smallmatrix} [103] \end{smallmatrix} 4 5 5 5 4 5 1 3 3 3 2 2 1 1 2 3 3 4 5 4 3 3 2 5 3 2 3 5 4 3 1 3 5 2 
##
    [137] 3 3 4 2 3 3 3 5 3 2 3 2 2 2 1 2 5 2 1 2 5 2 2 4 2 5 4 4 2 5 4 5 3 2
    [171] 3 3 4 3 4 2 2 3 5 5 3 3 2 4 1 2 4 4 3 4 3 2 3 4 2 2 3 2 5 2 4 4 3 2
    [205] 3 3 2 2 3 2 2 2 4 1 3 5 2 3 4 3 5 5 3 5 3 5 3 5 3 5 5 2 2 4 2 1 4 3
##
    ##
    [273] 4 2 4 3 4 3 2 5 5 4 4 4 3 1 4 3 4 4 5 2 4 4 3 5 5 2 2 5 4 4 4 4 2 5
##
    [307] 4 4 4 3 3 3 3 2 2 5 1 2 4 5 3 3 2 3 5 3 4 3 1 4 4 4 5 2 3 1 3 4 5 1 2
```

```
## [2177] 3 1 2 4 3 4 4 2 4 2 3 2 4 1 4 5 3 2 1 5 2 3 3 4 4 4 5 4 4 4 4 4 3 3
## [2211] 5 4 3 2 3 4 3 4 2 5 4 3 4 4 3 2 5 3 2 2 2 2 3 5 3 2 4 4 5 3 4 4 5 3
## [2245] 4 2 3 3 2 3 4 4 1 2 4 4 5 3 2 1 3 5 3 5 3 2 3 4 3 4 2 1 5 1 2 4 3 1
## [2279] 1 4 2 4 3 4 1 3 2 4 2 3 4 2 3 2 2 3 4 2 4 4 2 3 3 2 2 4 4 4 3 2 4 4 4
## [2313] 2 5 3 4 3 4 3 4 4 1 5 2 4 1 3 5 3 3 2 3 3 4 4 2 3 3 2 3 2 5 3 4 2 4
## [2347] 4 3 3 4 3 2 4 2 3 3 4 5 3 2 4 4 3 2 5 1 4 2 2 4 5 4 2 3 4 5 3 5 2 3
## [2381] 2 5 3 3 2 3 1 1 5 5 4 2 3 2 5 4 5 3 2 2
## but this is generally a bit cumbersome
```

We do not need every column of the dataset. So we can take only the columns we want out of raw data, and store these as a new data frame called 'data'

##	<pre>\$raw_d</pre>	ata									
##		X	subj_no	age	group	$\operatorname{\mathtt{stim}}$	trial	difficulty	resp	corr	conf
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##	2	2	10	36	2	1	2	3	2	0	1
##	3	3	10	38	2	2	3	2	2	1	4
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##	6	6	10	40	2	1	6	1	1	1	5
##	7	7	10	23	2	2	7	3	1	0	2
##	8	8	10	20	2	2	8	1	1	0	4
##	9	9	10	40	2	2	9	3	1	0	1
##	10	10	10	23	2	2	10	1	1	0	4
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##	13	13	10	38	2	2	13	3	1	0	1
##	14	14	10	25	2	2	14	2	2	1	3
##	15	15	10	20	2	1	15	2	2	0	3
##	16	16	10	40	2	1	16	2	1	1	4
##	17	17	10	23	2	1	17	1	1	1	4
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	24	24	10	25	2	2	24	3	2	1	2
	25	25	10	20	2	1	25	2	2	0	3
	26		10	40	2	1		2		1	
		26					26		1		4
	27	27	10	23	2	1	27	3	2	0	2
	28	28	10	20	2	1	28	1	1	1	5
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##	34	34	10	25	2	1	34	1	1	1	5
##	35	35	10	20	2	2	35	1	2	1	5
##	36	36	10	40	2	2	36	2	2	1	4
##	37	37	10	23	2	1	37	1	1	1	4
##	38	38	10	20	2	2	38	3	1	0	1
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	178 179										
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	261	260 261	9 9	31 34	1 1	2	20 21	2	2 2	1 1	3
	262	262	9	26	1	2	22	3	1	0	4 2
	263	263	9	37	1	2	23	2	1	0	3
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ππ	201	201	9	O-I	1	_	OI	_	_	_	J

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##	1907	1907	3	34	1	1	227	2	1	1	4
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##	1909	1909	3	36	1	2	229	1	1	0	3
##	1910	1910	3	36	1	1	230	2	1	1	4
##	1911	1911	3	32	1	1	231	1	1	1	4

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##	2161	2161	1	21	1	2	1	1	2	1	4
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			_								
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##	2222		1	27	1	2	62	2	1	0	3
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##	2224		1	24	1	2	64	2	2	1	4
##	2225		1	28	1	2	65	1	1	0	3
##	2226	2226	1	18	1	1	66	2	2	0	2
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##	2233	2233	1	22	1	2	73	2	1	0	3
	2234		1	24	1	2	74	1	2	1	5
	2235		1	28	1	2	75	3	2	1	3

##	2236	2226		1 1	8.	1	2	76		2	1	0	2
	2237												
			-		0	1	2	77		2	2		
	2238		-		20	1	2	78		1	2		
	2239		:		24	1	2	79		1	2		
##	2240	2240	:	1 3	80	1	1	80		1	2	0	3
##	2241	2241	:	1 2	21	1	1	81		1	1	1	4
##	2242	2242	:	1 2	27	1	2	82		2	2	1	4
##	2243	2243	:	1 2	2	1	2	83		1	2	1	5
##	2244	2244		1 2	24	1	2	84		3	2	. 1	3
##	2245	2245	:	1 2	28	1	1	85		1	1	1	4
##	2246				8	1	2	86		2	1		_
##	2247				80	1	1	87		3	1		
##	2248				20	1	2	88		2	2		
##	2249				.0 !4	1	2	89		2	1		
			-										
##	2250				30	1	1	90		2	1		
##	2251		-		21	1	1	91		2	1		
##	2252				27	1	2	92		1	1		4
##	2253		:	1 2	22	1	1	93		3	2		
##	2254			1 2	24	1	1	94		3	2	0	2
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##	2262		-		. 1	1	1	102		1	1		
##	2263		-		. 1 22	1	2	102		3	2		
			-										
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##	2265		-		8:	1	1	105		2	2		
##	2266				8.	1	2	106		2	1	0	
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##	2271	2271	:	1 2	21	1	1	111		3	2	. 0	2
##	2272	2272		1 2	27	1	1	112		3	2	. 0	1
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##	2274		:	1 2	24	1	1	114		3	2	. 0	1
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##	2276				.8	1	2	116		1	2		
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##	2278				20	1	2 1	118		3	2		
										3			
##	2279				24	1	1	119			2		
##	2280				80	1	2	120		1	2		
##	2281				21	1	1	121		2	2		
	2282		:		27	1	2	122		1	2		
	2283				22	1	2	123		2	1		
	2284		:		24	1	2	124		1	2	1	4
##	2285	2285	:	1 2	8.	1	2	125		3	1	0	1
##	2286	2286	:	1 1	8.	1	1	126		2	2	0	3
	2287		:		80	1	1	127		3	2		
	2288		:		20	1	2	128		2	2		
	2289				24	1	2	129		3	2		
			•		-	-	-			-		-	~

##	2290	2200		1 3	0	1	2	130		3	2	1	3
	2291				1		2	131			2		
			-			1				1			
	2292		-		7	1	2	132		3	1		
	2293		-		2	1	2	133		3	2		
	2294		-		4	1	1	134		3	1		
	2295		:	1 2	8	1	2	135		3	1	0	
##	2296	2296	:	l 1	8	1	1	136		3	1	1	3
##	2297	2297	:	1 3	0	1	2	137		1	2	1	4
##	2298	2298		1 2	0	1	2	138		3	2	1	2
##	2299	2299		1 2	4	1	1	139		1	2	0	4
##	2300	2300	:	1 3	0	1	1	140		1	1	1	4
##	2301	2301	:	1 2	1	1	1	141		3	2	. 0	2
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##	2303				2	1	1	143		2	1		
##	2304		-		4	1	1	144		2	2		
##	2305		-		8	1	1	145		1	1		
##	2306		-		.8	1	1	146					
	2307		-							1	1		
##					0	1	1	147		2	1		
##	2308		-		0	1	2	148		3	2		
##	2309		-		4	1	2	149		3	2		
##	2310		-		0	1	2	150		1	2		
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##	2319			1 2	4	1	2	159		2	2	. 1	3
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##	2323		-		2	1	1	163		1	1		
##	2324		-		4	1	2	164		2	1		
##	2325		-		8	1	2	165		1	1		
	2326		-		8	1	2	166		3	2		
							_			_	_		_
##	2327				0	1	2	167		3	2		
##	2328				0	1	1	168		1	1		
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##	2330				0	1	1	170		2	2		
##	2331				1	1	1	171		3	1		
##	2332		:		7	1	1	172		2	1	1	
##	2333		:		2	1	2	173		2	1	0	3
##	2334	2334	:	1 2	4	1	1	174		2	1	1	4
##	2335	2335	:	1 2	8	1	1	175		1	1	1	4
##	2336	2336	:	l 1	8	1	1	176		2	2	0	2
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##	2338		:		0:	1	1	178		1	2		
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	2342				7	1	1	182		1	1		
	2343				2	1	1	183		3	1		
##	2040	2040	•	. 2		_	_	103		J	1	1	J

##	2344	2344	1	24	1	2	184	2	2	1	4
	2345		1	28	1	1	185	3	2	0	2
	2346		1	18	1	2	186	1	2	1	4
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	2351		1	21	1	1	191	2	2	0	3
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	2356			28 18	1	2	196	3	2	1 1	3
##			1		1						
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##	2395	2395	1	28	1	1	235	1	1	1	5
##	2396	2396	1	18	1	2	236	2	2	1	4
##	2397	2397	1	30	1	1	237	1	1	1	5

```
## 2398 2398
                       20
                                    2
                                        238
                                                      3
                                                           2
                                                                      3
                    1
                              1
                                                                 1
## 2399 2399
                       24
                                    1
                                        239
                                                      3
                                                           1
                                                                      2
                    1
                               1
                                                                 1
## 2400 2400
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                    1
                       30
                               1
                                        240
                                                                 0
                                                                      2
##
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                           RT_day2
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## 3
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## 1616 0.65494334
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##
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         0.38659311
                     0.9349901324
## 2315
         0.85446617
                     1.6742295687
## 2316
        0.54134898
                     1.1795044102
## 2317
         0.83250087
                     1.6395243975
## 2318 0.51913193 1.1444014661
```

```
## 2319
        0.53545460
                     1.1701912847
## 2320
         0.38833957
                      0.9377495448
## 2321
         0.44479395
                      1.0269474609
  2322
         1.37090070
                      2.4901961316
  2323
         0.37671428
                      0.9193815817
## 2324
         0.39447399
                      0.9474419167
## 2325
         0.50812493
                      1.1270104141
## 2326
         0.26929184
                      0.7496541304
## 2327
         0.94745842
                      1.8211573147
## 2328
         0.35076243
                      0.8783776626
  2329
         0.96972001
                      1.8563306302
##
  2330
         0.49111991
                      1.1001424728
##
  2331
         0.66498583
                      1.3748506322
                      1.4011025246
##
  2332
         0.68160095
## 2333
         0.90363438
                      1.7519153353
  2334
         0.38100761
                      0.9261650355
## 2335
         0.44226877
                      1.0229576796
   2336
         0.68790750
                      1.4110668644
  2337
         0.76251300
                      1.5289435508
   2338
         0.56173151
                      1.2117088007
##
  2339
         0.68342760
                      1.4039886232
## 2340
         0.42605789
                      0.9973444885
## 2341
         0.60999110
                      1.2879589554
         0.38795623
## 2342
                      0.9371438638
## 2343
         0.65605344
                      1.3607374523
  2344
         0.77439127
                      1.5477112239
  2345
         1.54229537
                      2.7609996963
##
  2346
         0.43063869
                      1.0045821427
## 2347
         0.50287321
                      1.1187126919
## 2348
         0.74344180
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## 2349
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  2350
         0.53905784
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   2351
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##
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         0.65222390
                      1.3546867771
## 2354
         1.75209258
                      3.0924792879
## 2355
         0.65880550
                      1.3650857123
## 2356
         0.91471391
                      1.7694209912
         0.43358630
                      1.0092393781
  2357
## 2358
         0.41904798
                      0.9862688257
  2359
         1.06944411
                      2.0138947107
  2360
         0.96760291
                      1.8529856114
##
  2361
         0.69280432
                      1.4188038391
         0.24982157
##
  2362
                      0.7188910986
## 2363
         0.44651618
                      1.0296685884
         1.58273662
                      2.8248968778
## 2364
## 2365
         0.42477553
                      0.9953183551
  2366
         1.71466717
                      3.0333471427
         0.55323033
   2367
                      1.1982769388
   2368
         0.85508330
                      1.6752046296
##
  2369
         0.58643240
                      1.2507362176
## 2370
         0.69534042
                      1.4228108788
## 2371
         0.40571530
                      0.9652031977
## 2372 0.46493841 1.0587757135
```

```
## 2373 0.95396563 1.8314387145
## 2374 0.50450592 1.1212923741
## 2375 0.42330183 0.9929899119
## 2376 0.40741388 0.9678869468
## 2377
       0.60362077
                    1.2778938308
## 2378 0.45727287
                   1.0466641549
       0.78445137
## 2379
                   1.5636061752
## 2380 0.49066385
                   1.0994218966
## 2381 1.26998464
                    2.3307487418
## 2382 0.36166236
                   0.8955995394
## 2383 0.77045459
                    1.5414912662
## 2384 0.47609766
                    1.0764073200
## 2385
       1.26294397
                    2.3196244847
## 2386
       0.51207894
                   1.1332577481
## 2387 0.70842425
                    1.4434833366
## 2388
       0.51839542
                    1.1432377805
## 2389 0.45364841
                   1.0409375116
## 2390 0.30841245
                   0.8114646854
## 2391 0.28810241 0.7793748313
## 2392 0.64001497
                    1.3353966692
## 2393 0.76296797
                   1.5296624155
## 2394 1.05022510 1.9835286817
## 2395 0.49348410
                   1.1038778945
## 2396 0.64153963 1.3378056272
## 2397 0.31027572 0.8144086632
## 2398 0.75388818
                   1.5153163433
## 2399 0.69693303
                   1.4253272111
## 2400 0.69668660
                    1.4249378491
allData["data"]
## $<NA>
## NULL
allData[1]
## $raw_data
```

## # 2. Using the order in which we made the list: remember that "raw\_data" was the fist label

```
##
           X subj_no age group stim trial difficulty resp corr conf
## 1
                                                                    2
           1
                  10
                      23
                              2
                                   2
                                         1
                                                    2
                                                          1
                                                               0
## 2
           2
                  10
                      36
                                                     3
                                                          2
                                                               0
                                   1
## 3
                      38
                              2
                                   2
                                         3
                                                    2
                                                          2
           3
                  10
                                                               1
                                                                    4
## 4
           4
                  10
                      25
                              2
                                   2
                                         4
                                                                    3
                                                    1
                                                          1
                                                               0
## 5
           5
                      20
                              2
                                         5
                                                    2
                  10
                                   1
                                                          1
                                                               1
## 6
           6
                  10
                      40
                              2
                                         6
                                   1
                                                    1
                                                          1
                                                               1
## 7
           7
                  10
                      23
                              2
                                   2
                                         7
                                                    3
                                                               0
                                                                    2
                                                          1
## 8
           8
                  10
                      20
                              2
                                   2
                                         8
                                                    1
                                                          1
                                                               0
                                                                    4
           9
                              2
## 9
                  10 40
                                   2
                                         9
                                                    3
                                                          1
                                                               0
                                                                    1
## 10
          10
                  10
                      23
                              2
                                   2
                                        10
                                                    1
                                                          1
                                                               0
                                                                    4
                      23
                              2
## 11
          11
                  10
                                   1
                                        11
                                                     1
                                                          1
                                                               1
                                                                    5
                  10
## 12
          12
                      36
                              2
                                   1
                                        12
                                                    2
                                                          2
                                                               0
                                                                    2
                              2
                                   2
                                                    3
## 13
          13
                  10
                      38
                                        13
                                                               0
## 14
                  10
                      25
                              2
                                   2
                                                    2
                                                          2
          14
                                        14
                                                                    3
                                                               1
## 15
          15
                  10
                      20
                              2
                                   1
                                        15
                                                     2
                                                          2
                                                               0
                                                                    3
## 16
          16
                  10 40
                              2
                                   1
                                        16
                                                     2
                                                                    4
                                                          1
                                                               1
## 17
          17
                  10
                      23
                                        17
```

##	18	18	10	20	2	2	18	1	2	1	5
##	19	19	10	40	2	1	19	1	1	1	4
##	20	20	10	23	2	1	20	1	2	0	4
##	21	21	10	23	2	2	21	3	2	1	3
##	22	22	10	36	2	1	22	1	1	1	5
##	23	23	10	38	2	2	23	1	2	1	4
##	24	24	10	25	2	2	24	3	2	1	2
##	25	25	10	20	2	1	25	2	2	0	3
##	26	26	10	40	2	1	26	2	1	1	4
##	27	27	10	23	2	1	27	3	2	0	2
##	28	28	10	20	2	1	28	1	1	1	5
##	29	29	10	40	2	1	29	2	2	0	2
##	30	30	10	23	2	1	30	2	1	1	3
##	31	31	10	23	2	1	31	1	1	1	5
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##	37	37	10	23	2	1	37	1	1	1	4
	38	38	10	20	2	2	38	3	1	0	1
	39	39	10	40	2	1	39	1	1	1	4
##		40	10	23	2	1	40	1	1	1	5
	41	41	10	23	2	1	41	1	2	0	4
	42	42	10	36	2	2	42	3	2	1	3
##		43	10	38	2	1	43	2	2	0	2
	44	44	10	25	2	2	44	1	1	0	4
	45	45	10	20	2	2	45	3	1	0	1
	46	46	10	40	2	2	46	3	2	1	2
	47 48	47	10 10	23	2	1 2	47 48	3 3	2	0	1
	49	48		20	2	1		3	1	0	1 2
	50	49 50	10 10	40 23	2	2	49 50	2	1 1	1	2
##	51	51	10	23	2	2	51	3	2	1	2
##	52	52	10	36	2	1	52	2	1	1	4
	53	53	10	38	2	2	53	2	1	0	2
##		54	10	25	2	2	54	1	2	1	5
##	55	55	10	20	2	2	55	2	2	1	4
##	56	56	10	40	2	1	56	2	2	0	3
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	58	58	10	20	2	1	58	2	1	1	4
	59	59	10	40	2	1	59	3	2	0	1
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##	72	72	10	36	2	1	72	3	1	1	3
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	74	74	10	25	2	2	74	2	2	1	3
	75	75	10	20	2	1	75	1	1	1	4
	76	76	10	40	2	1	76	2	2	0	3
	77	77	10	23	2	2	77	1	2	1	5
##	78	78	10	20	2	2	78	1	1	0	3
##	79	78 79	10	40	2	1	79	3	2		2
										0	
## ##	80 81	80	10	23	2	1	80	2 2	2	0	2
		81	10	23	2	1	81		2	0	3
##	82	82	10	36	2	2	82	2	2	1	4
##	83	83	10	38	2	2	83	3	2	1	3
##	84	84	10	25	2	2	84	2	2	1	4
##	85	85	10	20	2	1	85	3	2	0	2
##	86	86	10	40	2	2	86	2	1	0	2
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##	89	89	10	40	2	1	89	2	1	1	3
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##	95	95	10	20	2	1	95	1	1	1	4
##	96	96	10	40	2	1	96	1	2	0	3
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##	111	111	10	23	2	2	111	2	1	0	3
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##	115	115	10	20	2	1	115	3	2	0	1
##	116	116	10	40	2	2	116	3	1	0	1
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			-0		_	-		-	_	-	_

##	126	126	10	40	2	1	126	1	1	1	5
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	128	128	10	20	2	1	128	3	2	0	2
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	141	141		23		2	141			1	
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	147	147	10	23	2	1	147	3	1	1	3
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##	149	149	10	40	2	1	149	3	1	1	2
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				23		2			1	0	4
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	179	179		40	2	1		1			5 5
##	119	119	10	40	2	T	179	Т	1	1	5

##	180	180	10	23	2	2	180	1	2	1	5
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	204	204	10	25	2	1	204	3	2	0	2
	205	205	10	20	2	2	205	2	1	0	3
	206	206	10	40	2	2	206	2	1	0	3
	207	207	10	23	2	2	207	2	1	0	2
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##	211	211	10	23	2	2	211	2	1	0	2
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		670 671				1				1	5
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## 720	720	8	40	2	1	240	2	1	1	3
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## 722	722	7	21	1	2	2	2	1	0	3
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## 725	725	7	22	1	1	5	2	1	1	3
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## 727	727	7	30	1	1	7	3	1	1	2
		7								
## 728	728		23	1	1	8	1	2	0	3
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## 732	732	7	21	1	2	12	1	2	1	5
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##	2123	2123	- 2	2 2	<b>3</b>	2	1	203	3	2	0	2

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##	2177		1	30	1	1	17	3	1	1	3
##	2111	<b>Z</b> 111	1	50	T	1	11	J	1	Т	3

##	2178	2178	1	20	) 1	1	18		3 2	0	1
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	2180		1								4
			_				20				
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	2230		1			2	70		3 2		2
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11	2201		-			_	1 1	,			_

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##	2233	2233	1 2	22	1	2	73		2	1	•	0	3
##	2234	2234	1 2	24	1	2	74		1	2	2	1	5
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##	2236	2236	1 1	8.	1	2	76		2	1		0	2
##	2237	2237	1 3	30	1	2	77		2	2	)	1	4
##	2238			20	1	2	78		1	2		1	4
##	2239				1	2	79		1	2			5
				24								1	
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##	2278	2278	1 2	20	1	1	118		3	2	2	0	1
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	2284			.2 24	1	2	124		1	2		1	4
##	2285	ZZÖ5	1 2	28	1	2	125		3	1	-	0	1

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	2286			18	1	1	126		2		2	0	3
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	2342		1	27	1	1	182		1		L	1	5
	2343		1	22	1	1	183		3		Ĺ	1	3
	2344		1	24	1	2	184		2		2	1	4
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			_										
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	2391			21	1	1	231		1	1		1	4
	2391				1		232		3			0	
				27		2				1			2
##	2393	∠393	1	22	1	2	233		2	1	L	0	3

```
## 2394 2394
                       24
                                    2
                                         234
                                                       3
                                                            1
                                                                 0
                                                                       2
                               1
## 2395 2395
                       28
                                    1
                                         235
                                                       1
                                                                       5
                    1
                               1
                                                            1
                                                                 1
                                                       2
## 2396 2396
                       18
                               1
                                    2
                                         236
                                                            2
                                                                       4
## 2397 2397
                       30
                                         237
                                                       1
                    1
                               1
                                    1
                                                            1
                                                                 1
                                                                       5
## 2398 2398
                    1
                       20
                               1
                                    2
                                         238
                                                       3
                                                            2
                                                                 1
                                                                       3
## 2399 2399
                       24
                                                       3
                                                                       2
                    1
                               1
                                    1
                                         239
                                                            1
                                                                 1
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                                                                 0
                                                                       2
## 2400 2400
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                       30
                               1
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                                         240
##
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                           RT day2
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## 2
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## 3
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## 8
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## 9
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## 12
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## 13
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## 14
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## 16
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## 21
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## 24
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##
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## 26
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## 27
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## 28
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## 29
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## 2192
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## 2198
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## 2199
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## 2204
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## 2205
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## 2206 0.39502285 0.9483091280
```

```
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```

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## 2314 0.38659311 0.9349901324
```

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```

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## 2370 0.69534042 1.4228108788
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## 2398
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## 2399
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## 2400 0.69668660 1.4249378491
# and "data" was the second label
```

## # and "data" was the second label allData[2]

## \$my\_data X subj\_no age group stim trial difficulty resp corr conf ## 1 23 2 2 2 0 2 1 10 1 1 2 0 ## 2 2 10 36 2 1 3 2 1 2 ## 3 3 38 2 2 3 2 10 4 ## 4 4 10 25 2 2 4 1 1 0 3 ## 5 5 10 20 2 1 5 2 1 1 4 ## 6 6 10 40 2 1 6 1 5 1 1 ## 7 7 10 23 2 2 7 3 2 ## 8 8 20 2 2 10 8 0 1 1 4 2 2 ## 9 9 10 40 9 3 1 0 1 ## 10 10 10 23 2 2 10 0 4 1 1 ## 11 11 10 23 2 1 11 1 1 1 36 2 2 ## 12 12 10 1 12 2 0 2 ## 13 10 38 2 2 3 0 13 13 1 1 2 25 2 2 2 ## 14 14 10 14 1 3 ## 15 15 10 20 2 1 15 2 2 0 3 2 2 ## 16 16 10 40 1 16 1 1 4 ## 17 10 23 17 17 1

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		000			1	2	209				
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## ## ##	929 930 931 932	930 931 932	7 7 7	38 25 21	1 1 1	2 1 1	210 211 212	2 1 3	1 1 1	0 1 1	2 5 3
## ## ## ##	929 930 931 932 933	930 931 932 933	7 7 7 7	38 25 21 22	1 1 1	2 1 1 2	210 211 212 213	2 1 3 3	1 1 1 2	0 1 1 1	2 5 3 3
## ## ## ##	929 930 931 932	930 931 932	7 7 7	38 25 21	1 1 1	2 1 1	210 211 212	2 1 3	1 1 1	0 1 1	2 5 3

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## ##	<ul><li>1123</li><li>1124</li></ul>		6 6	18 37	2 2	2	163 164	3 2	2 1	1 0	3 3
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ππ	1001	1001	7	44	_	-	101	J	_	J	_

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##	2031			2 2		2	1	111	1	2	0	3
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##	2037		2	2 1		2	1	117	2	1	1	4
##	2038		2	2 3		2	2	118	3	1	0	2
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##	2041	2041	2	2 2	9	2	2	121	2	2	1	3
##	2042	2042	4	2 3		2	1	122	3	1	1	3
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##	2047	2047	2	2 1	8	2	1	127	1	1	1	5
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										1		1
##	2073			2 2		2	2	153	3	1	0	2
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##	2075			2 2		2	2	155	2	2	1	4
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##	2120			2 2 2 2		2	2	200	2	2	1	4
	2121					2	1	201	1	1	1	4
	2122			2 3		2	1	202	3	1	1	3
##	2123	2123	- 2	2 2	<b>3</b>	2	1	203	3	2	0	2

##	2124	2124	2	31	2	1	204	1	1	1	4
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	2125		_	24	2	1	205	1	2	0	3
	2126		2	19	2	2	206	3	1	0	1
	2127		2	18	2	2	207	1	2	1	5
	2128		2	30	2	1	208	1	2	0	3
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##	2130	2130	2	24	2	2	210	2	1	0	3
##	2131	2131	2	29	2	1	211	1	2	0	4
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##	2133	2133	2	23	2	1	213	2	2	0	2
##	2134	2134	2	31	2	2	214	3	1	0	2
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##	2136		2	19	2	2	216	1	2	1	5
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			_								
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##	2151		2	29	2	1	231	1	2	0	4
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##	2154	2154	2	31	2	2	234	3	1	0	1
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##	2157	2157	2	18	2	2	237	3	1	0	2
##	2158	2158	2	30	2	2	238	1	2	1	4
##	2159	2159	2	36	2	1	239	1	1	1	5
##	2160	2160	2	24	2	1	240	1	1	1	4
##	2161	2161	1	21	1	2	1	1	2	1	4
##	2162	2162	1	27	1	1	2	3	2	0	1
##	2163		1	22	1	2	3	1	2	1	4
##	2164		1	24	1	1	4	1	1	1	5
##	2165		1	28	1	2	5	3	1	0	2
##	2166		1	18	1	1	6	3	1	1	2
##	2167		1	30	1	1	7	2	1	1	3
##	2168		1	20	1	2	8	3	1	0	1
##	2169		1	24	1	2	9	2	1	0	3
##	2170		1	30	1	1	10	1	1	1	5
##	2170		1	21	1	2	11	1	2	1	5
##	2171		1	27	1	2	12	2	2	1	4
##	2172		1	22	1	2	13	3	1	0	2
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##	2174		1	24	1		14 15	3	1	0	1
##	2175		1	28	1	2	15	2	1	0	2
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##	2177	21//	1	30	1	1	17	3	1	1	3

##	2178	2170	1	20	1	1	18	3	2	0	1
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			1		1	2	19	3	2	1	
	2180		1		1	1	20	2	1	1	4
	2181		1	21	1	1	21	2	1	1	3
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##	2185	2185	1	28	1	2	25	2	2	1	4
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##	2187		1	30	1	2	27	2	2	1	3
##		2188	1	20	1	1	28	2	2	0	2
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##	2191		1	21	1	1	31	2	1	1	
											4
##	2192		1	27	1	1	32	1	1	1	5
##	2193		1	22	1	1	33	3	1	1	3
##	2194		1	24	1	1	34	3	2	0	2
##	2195		1	28	1	1	35	3	2	0	1
##	2196	2196	1	18	1	1	36	1	1	1	5
##	2197	2197	1	30	1	2	37	3	2	1	2
##	2198	2198	1	20	1	2	38	3	2	1	3
##	2199	2199	1	24	1	1	39	2	2	0	3
##	2200	2200	1	30	1	1	40	1	2	0	4
##	2201		1	21	1	2	41	1	1	0	4
##	2202		1	27	1	1	42	1	1	1	4
##	2203		1	22	1	2	43	1	2	1	5
##	2204		1	24	1	1	44	1	1	1	4
##	2205		1	28	1	2		1	2	1	4
							45				
##	2206		1	18	1	2	46	1	2	1	4
##	2207		1	30	1	2	47	1	1	0	4
##	2208		1	20	1	2	48	1	2	1	4
##	2209		1	24	1	2	49	3	2	1	3
##	2210	2210	1	30	1	2	50	2	1	0	3
##	2211	2211	1	21	1	1	51	1	1	1	5
##	2212	2212	1	27	1	2	52	2	2	1	4
##	2213	2213	1	22	1	1	53	2	1	1	3
##	2214	2214	1	24	1	2	54	3	2	1	2
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##	2216		1	18	1	2	56	2	2	1	4
	2217		1	30	1	1	57	2	2	0	3
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##	2219		1	24	1	2	59	3	2	1	2
##	2220		1	30	1	2	60	1	2	1	5
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##	2222		1	27	1	2	62	2	1	0	3
##	2223		1	22	1	2	63	2	2	1	4
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11 TT	2201		1	21	_	-		J	_	9	_

##	2232	ດດວດ	1	27	1	1	72	3	2	0	2
	2233		1	22	1	2	73	2	1	0	3
	2234		1	24	1	2	74	1	2	1	5
	2235		1	28	1	2	75	3	2	1	3
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##	2237	2237	1	30	1	2	77	2	2	1	4
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##	2242	2242	1	27	1	2	82	2	2	1	4
##	2243		1	22	1	2	83	1	2	1	5
##	2244		1	24	1	2	84	3	2	1	3
##	2245		1	28	1	1	85	1			
			_						1	1	4
##	2246		1	18	1	2	86	2	1	0	2
##	2247		1	30	1	1	87	3	1	1	3
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##	2250	2250	1	30	1	1	90	2	1	1	3
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##	2253	2253	1	22	1	1	93	3	2	0	1
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##	2255		1	28	1	1	95	1	1	1	4
##	2256		1	18	1	2	96	1	2	1	4
##	2257		1	30	1	2	97	1	2	1	5
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			_								
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##	2266	2266	1	18	1	2	106	2	1	0	2
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	2285		1	28	1	2	125	3	1	0	1
			-	_•	-	_	-20		-	•	-

##	2286	2286	1	18	1	1	126		2	,	2	0	3
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	2288			20	1	2	128		2		2		4
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	2290			30	1	2	130		3		2	1	3
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##	2295	2295	1	28	1	2	135		3	:	1	0	2
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##	2299	2299	1	24	1	1	139		1	2	2	0	4
##	2300	2300	1	30	1	1	140		1		1	1	4
##	2301		1	21	1	1	141		3	9	2	0	2
##	2302		1	27	1	1	142		1	9	2	0	3
##	2303			22	1	1	143		2		1	1	3
##	2304			24	1	1	144		2		2	0	2
##	2305			28	1	1	145		1		1	1	4
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##	2308			20	1	2	148		3		2	1	3
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			_										
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##	2324	2324	1	24	1	2	164		2	:	1	0	2
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##	2327	2327	1	30	1	2	167		3	2	2	1	3
##	2328	2328	1	20	1	1	168		1	:	1	1	5
##	2329	2329	1	24	1	1	169		3	:	1	1	3
##	2330	2330	1	30	1	1	170		2	2	2	0	3
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##	2332	2332	1	27	1	1	172		2	:	1	1	3
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#		2000	-		-	-	113		_	-	-	U	_

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##	2393	∠393	1	22	1	2	233		2	-	L	0	3

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## 2399 2399
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## 2400 2400
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## 2054
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                      1.9655965979
  2055
         0.74692807
                      1.8565215801
  2056
         0.83135017
##
                      1.9899085066
##
   2057
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##
  2058
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## 2059
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##
  2061
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   2062
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## 2063
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  2064
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                      1.3954777695
##
  2065
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## 2066
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## 2067
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## 2068
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## 2069
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## 2070
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## 2071
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## 2072
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## 2073
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## 2075
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## 2076
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  2077
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## 2078
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  2079
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## 2080
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## 2081
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## 2084
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## 2086
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##
  2087
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##
   2088
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## 2089
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## 2090
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## 2091
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##
   2094
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##
  2095
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## 2096
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## 2097
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## 2098 0.95851137 2.1908232020
```

```
## 2099 0.89316700 2.0875791003
## 2100
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## 2101
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## 2102
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## 2103
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## 2111
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## 2113
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## 2115
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## 2116
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## 2117
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## 2118
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## 2119
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         0.40158740
## 2121
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## 2122
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## 2123
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## 2125
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## 2127
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## 2129
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## 2132
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## 2134
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## 2136
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## 2139
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## 2140
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## 2141
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## 2142
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## 2143
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## 2144
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## 2145
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## 2146
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## 2147
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## 2148
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## 2149
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                     2.6002116460
## 2150
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## 2151
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                     1.6168258732
## 2152 0.67366104 1.7407596770
```

```
## 2153 0.85135245
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## 2154
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## 2155
         0.73848891
## 2156
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## 2157
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## 2158
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## 2159
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                      1.2415013948
## 2160
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                      1.3595482211
## 2161
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## 2162
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## 2163
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                      1.0585343603
## 2164
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## 2165
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                      2.5622960400
## 2166
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         0.47452153
## 2167
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## 2168
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                      1.7996368819
## 2169
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## 2170
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                      1.0277726555
         0.47336452
                      1.0720889657
## 2171
## 2172
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         0.76060653
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## 2179
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## 2180
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## 2182
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## 2183
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## 2184
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## 2185
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## 2186
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                      2.0975325210
## 2187
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## 2190
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## 2191
## 2192
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## 2193
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## 2194
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## 2195
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## 2197
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## 2203
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## 2204
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## 2205
         0.42327813
                      0.9929524675
## 2206 0.39502285 0.9483091280
```

```
## 2207 0.46930552
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                      1.0649839691
## 2208
         0.46886769
## 2209
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## 2212
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## 2213
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## 2214
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## 2215
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## 2216
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## 2217
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## 2218
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## 2219
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## 2220
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## 2222
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## 2223
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## 2231
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## 2232
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## 2235
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## 2236
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                      0.9236098501
## 2240
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## 2242
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## 2243
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## 2244
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## 2250
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## 2252
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## 2253
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                      2.1997805060
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                      1.1290559195
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##
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## 2258
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## 2259
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## 2260
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                    1.8935042140
```

```
## 2261 0.49136307
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## 2262
        0.34753505
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## 2263
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## 2264
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                      1.0847636446
## 2265
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## 2266
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## 2267
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## 2270
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## 2278
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## 2288
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         0.62522562
## 2289
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## 2296
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## 2297
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## 2298
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         0.46176998
## 2300
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## 2301
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## 2302
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## 2303
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## 2304
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## 2305
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## 2306
## 2307
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## 2308
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## 2309
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         0.39318759
                      0.9454094022
## 2311
         0.52736269
                      1.1574060628
## 2312
         0.31147650
                      0.8163058818
## 2313
         1.25934941
                      2.3139450822
## 2314 0.38659311 0.9349901324
```

```
## 2315
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## 2316
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                      1.6395243975
  2317
         0.83250087
  2318
         0.51913193
                      1.1444014661
  2319
         0.53545460
                      1.1701912847
## 2320
         0.38833957
                      0.9377495448
## 2321
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                      2.4901961316
## 2322
         1.37090070
## 2323
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                      0.9193815817
## 2324
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                      0.9474419167
  2325
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                      1.1270104141
##
  2326
         0.26929184
                      0.7496541304
##
  2327
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                      0.8783776626
##
  2328
         0.35076243
## 2329
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                      1.8563306302
  2330
         0.49111991
                      1.1001424728
##
  2331
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   2332
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                      1.4011025246
  2333
         0.90363438
                      1.7519153353
  2334
         0.38100761
                      0.9261650355
##
  2335
         0.44226877
                      1.0229576796
  2336
         0.68790750
                      1.4110668644
## 2337
         0.76251300
                      1.5289435508
## 2338
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                      1.2117088007
## 2339
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  2340
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  2341
         0.60999110
##
                      1.2879589554
  2342
         0.38795623
                      0.9371438638
## 2343
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                      1.3607374523
## 2344
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                      1.5477112239
## 2345
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                      2.7609996963
##
  2346
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   2347
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##
  2348
         0.74344180
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   2349
         0.95926289
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                      1.1758844094
##
  2350
         0.53905784
## 2351
         0.54828892
                      1.1904695129
## 2352
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                      1.6079944994
  2353
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                      1.3546867771
## 2354
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  2355
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  2356
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                      1.7694209912
##
  2357
         0.43358630
                      1.0092393781
  2358
         0.41904798
##
                      0.9862688257
## 2359
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                      2.0138947107
## 2360
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                      1.8529856114
## 2361
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  2362
         0.24982157
                      0.7188910986
         0.44651618
  2363
                      1.0296685884
   2364
         1.58273662
                      2.8248968778
##
  2365
         0.42477553
                      0.9953183551
## 2366
         1.71466717
                      3.0333471427
## 2367
         0.55323033
                      1.1982769388
## 2368
        0.85508330
                     1.6752046296
```

```
## 2369 0.58643240 1.2507362176
## 2370 0.69534042 1.4228108788
## 2371 0.40571530 0.9652031977
## 2372 0.46493841 1.0587757135
## 2373 0.95396563 1.8314387145
## 2374 0.50450592 1.1212923741
## 2375 0.42330183 0.9929899119
## 2376 0.40741388 0.9678869468
## 2377 0.60362077 1.2778938308
## 2378 0.45727287 1.0466641549
## 2379 0.78445137 1.5636061752
## 2380 0.49066385 1.0994218966
## 2381 1.26998464 2.3307487418
## 2382 0.36166236 0.8955995394
## 2383 0.77045459 1.5414912662
## 2384 0.47609766 1.0764073200
## 2385 1.26294397 2.3196244847
## 2386 0.51207894 1.1332577481
## 2387 0.70842425 1.4434833366
## 2388 0.51839542 1.1432377805
## 2389 0.45364841 1.0409375116
## 2390 0.30841245 0.8114646854
## 2391 0.28810241 0.7793748313
## 2392 0.64001497 1.3353966692
## 2393 0.76296797 1.5296624155
## 2394 1.05022510 1.9835286817
## 2395 0.49348410 1.1038778945
## 2396 0.64153963 1.3378056272
## 2397 0.31027572 0.8144086632
## 2398 0.75388818 1.5153163433
## 2399 0.69693303 1.4253272111
## 2400 0.69668660 1.4249378491
                 Tasks
# -----
# Task: get the column names of the new dataset
# Task: get the rownames of the new dataset
# Task: get the head (first few rows) of the new dataset
# Let's look at each column and row a bit more
# We have constructed the data into a data frame, which you can think of as being very similar to an ex
# We can look at the whole dataset by typing the following in the console:
data
          X subj_no age group stim trial difficulty resp corr conf
## 1
          1
              10 23
                          2
                              2
                                    1
                                               2
                                                   1
## 2
          2
               10 36
                                                   2
                                               3
                                                        0
## 3
          3
               10 38
                          2
                             2
                                    3
                                               2
                                                   2
                                                        1
                10 25
                          2
                              2
## 4
          4
                                    4
                                               1
                                                        0
## 5
          5
               10 20
                          2
                             1
                                 5
                                               2
                                                  1
                                                        1
                          2 1
## 6
        6
               10 40
                                   6
                                             1
```

3 1

1

1

0 2

0

2 2 7

8

2

2

## 7

## 8

7

8

10 23

10 20

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##	873	873	7	22	1	2	153	2	2	1	3
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	985	985	6	31	2	2		2	2	1	3
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##			6		_	1	111	_			
## ##	<ul><li>1072</li><li>1073</li></ul>		6 6	27 18	2 2	1 1	112 113	2 3	1 2	1 0	4 1
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							6 7				
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##	1916		3		1	2	236	1	1	0	3
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##	1918		3	25	1	2	238	2	1	0	3
##	1919	1919	3	36	1	1	239	3	2	0	2
##	1920	1920	3	36	1	1	240	3	2	0	2
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##	1924	1924	2	31	2	2	4	2	2	1	3
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##	1926	1926	2	19	2	1	6	3	1	1	3
##	1927	1927	2	18	2	2	7	3	2	1	3
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##	1930	1930	2	24	2	2	10	2	2	1	4
##	1931	1931	2	29	2	2	11	2	2	1	4
##	1932	1932	2	30	2	2	12	1	2	1	5
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##	1902	1302	2	30	2	2	32	1	2	Т	5

##	1953	1953	2	23	2	1	33	1	1	1	5
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##											
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##	1973	1973	2	23	2	1	53	1	1	1	5
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##						1			1		4
##	2004		2	31	2	1	84	1	1	1	5
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##	2007	2007	2	18	2	2	87	1	2	1	5
##	2008	2008	2	30	2	2	88	1	2	1	5
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##	2010	2010	2	24	2	2	90	2	1	0	3
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##	<ul><li>2038</li><li>2039</li></ul>		2	30	2	2	118	3	1	0	2
##			2	36	2	1	119	3	2	0	1
##	2040 2041		2 2	24 29	2 2	2	120 121	2 2	2 2	1 1	4 3
##	2041		2	30	2	2 1	121	3	1	1	3
##	2042		2	23	2	1	123	1	1	1	5
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##	2046		2	19	2	2	126	1	2	1	4
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## ##	2009		2	24	2	2		2	2	1	3 4
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##	2071		2	29	2	2	151	2	1	0	2
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	0445	0445		0.4	_		405				4
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##	2162		1				2	3	2	0	
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##	2163		1		1	2	3	1	2	1	4
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##	2169	2160	1	24	1	2	9	2	1	0	3
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	2172		1	27	1	2	12	2	2	1	4
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##	2223	2223	1	L 22	! 1	2	63	2	2	1 4
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	2227		1	1 30	) 1	1	67	1		1 5
	2228			1 20		2	68	2		1 3
	2229			L 24		2	69	3		0 2
	2230			1 30		2	70	3		1 2
	2231			L 21		1	71	3		0 2
	2232		1			1	72	3		0 2
##	2233	2233	1	L 22	2 1	2	73	2	1	0 3
##	2234	2234	1	L 24	. 1	2	74	1	2	1 5
##	2235	2235	1	L 28	3 1	2	75	3	2	1 3
##	2236	2236	1	L 18	3 1	2	76	2	1	0 2
##	2237	2237	1	1 30	) 1	2	77	2	2	1 4
##	2238	2238	1	1 20	) 1	2	78	1	2	1 4
	2239		1			2	79	1		1 5
	2240		1			1	80	1		0 3
	2241			l 21		1	81	1		1 4
	2241		_	L 21		2	82	2		
			_							1 4
	2243		_	L 22		2	83	1		1 5
	2244		_	L 24		2	84	3		1 3
	2245		1	L 28		1	85	1		1 4
	2246		1	L 18	3 1	2	86	2	1	0 2
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##	2248	2248	1	L 20	1	2	88	2	2	1 3
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	2254		1	L 24		1	94	3		0 2
	2255		_	1 28		1	95	1		1 4
	2256		_	l 18		2	96	1		1 4
			_							
	2257		_	1 30		2	97	1		1 5
	2258			L 20		1	98	2		1 3
	2259			L 24		1	99	3		1 2
	2260			1 30		2	100	3		0 1
	2261		1	L 21		1	101	2		1 3
	2262		1	L 27	1	1	102	1	1	1 5
##	2263	2263	1	L 22	! 1	2	103	3	2	1 3
##	2264	2264	1	L 24	. 1	2	104	1	2	1 5
##	2265	2265	1	L 28	3 1	1	105	2	2	0 3
##	2266	2266	1	L 18	3 1	2	106	2	1	0 2
##	2267	2267	1	1 30	) 1	1	107	2	1	1 3
##	2268		1	1 20		2	108	2		1 4
##	2269			L 24		2	109	3		1 3
##	2270			1 30		1	110	2		1 4
##	2271			L 21		1	111	3		0 2
##	2272			L 27		1	112	3		0 1
##	2273			L 22		2	113	1		1 5
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##	2275			L 28		1	115	3		1 2
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##	2277	2277	1 3	30	1	2	117		2	2	,	1	3
	2278			20		1	118		3	2			1
					1							0	
	2279			24	1	1	119		3	2		0	1
	2280			30	1	2	120		1	2		1	4
##	2281	2281	1 2	21	1	1	121		2	2	2	0	2
##	2282	2282	1 2	27	1	2	122		1	2	2	1	4
##	2283	2283	1 2	22	1	2	123		2	1	L	0	3
##	2284	2284	1 2	24	1	2	124		1	2	2	1	4
##	2285	2285	1 2	28	1	2	125		3	1		0	1
##	2286	2286	1 :	.8	1	1	126		2	2	2	0	3
##	2287			30	1	1	127		3	2		0	2
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##	2289			24	1	2	129		3	2		1	2
##	2290			30					3	2		1	3
					1	2	130						
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##		2294		24	1	1	134		3	1		1	2
##	2295	2295	1 2	28	1	2	135		3	1	L	0	2
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##	2299	2299	1 2	24	1	1	139		1	2	2	0	4
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	2303			22	1	1	143		2	1		1	3
	2304			24	1	1	144		2	2			2
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	2305			28	1	1	145		1	1		1	4
##	2306			.8	1	1	146		1	1		1	4
##	2307			30	1	1	147		2	1		1	4
##	2308		1 2	20	1	2	148		3	2		1	3
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##	2312	2312	1 2	27	1	2	152		1	2	2	1	4
##	2313	2313	1 2	22	1	1	153		3	2	2	0	2
##	2314	2314	1 2	24	1	1	154		1	1		1	5
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	2319			24	1	2	159		2	2		1	
##													3
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##	2322			27	1	2	162		3	1		0	1
##	2323			22	1	1	163		1	1		1	5
##	2324			24	1	2	164		2	1	L	0	2
##	2325	2325	1 2	28	1	2	165		1	1	L	0	4
##	2326	2326	1 :	.8	1	1	166		3	2	2	0	1
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##	2328			20	1	1	168		1	1		1	5
	2329			24	1	1	169		3	1		1	3
	2330			30	1	1	170		2	2		0	3
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шш	2331	0221	4	01	4	4		71	2	4	4	0
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	2356		1	18	1	2		196	3	2	1	3
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##	2384	2384	1	24	1	1	2	224	1	2	0	3

```
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## 2386 2386
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                                                                         3
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## 2387 2387
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                                                        3
## 2388 2388
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                                                                         1
## 2389 2389
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## 2390 2390
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## 2391 2391
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                                          231
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## 2392 2392
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## 2393 2393
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                                                                         5
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## 2398 2398
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                                1
                                          238
                                                                         3
## 2399 2399
                        24
                                          239
                                                        3
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                                                        2
## 2400 2400
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                            RT_day2
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# If we want to look at individual columns, we can look at it using two methods:
data$group
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# Let's explore the data further by calculating the mean
# and the standard deviation
data[data$subj_no==1, 'RT_day1']
##
     [1] 0.5111310 1.2946032 0.4647857 0.4657239 1.4165336 0.6995403 0.4745215
     [8] 0.9338379 0.8805971 0.4453162 0.4733645 0.5974170 1.4431742 1.7678909
##
##
    [15] 0.7606065 0.3429215 1.1609741 1.2152560 0.9945911 0.5740948 0.4589446
##
    [22] 0.6448975 0.5147993 0.9641536 0.5895835 1.1223794 0.6234817 0.9787836
    [29] 0.5438362 0.7164217 0.6123970 0.3548580 0.8698728 0.7280196 1.4877927
##
    [36] 0.3277807 0.6340728 0.5509760 0.5860195 0.4831197 0.4787218 0.3793509
    [43] 0.4970290 0.4607809 0.4232781 0.3950229 0.4693055 0.4688677 0.9966940
##
##
    [50] 0.6808760 0.3511141 0.6582444 0.6265721 0.8937633 0.5633169 0.7736909
    [57] 0.5798878 0.4270307 0.8680045 0.3666625 0.5776712 0.6385925 0.4743229
##
    [64] 0.6457955 0.5679022 0.8460193 0.4594764 0.8588370 0.7305836 0.4302879
##
    [71] 0.6046627 1.5830440 0.6887286 0.4252925 0.6183145 0.8742509 0.7501458
    [78] 0.3436001 0.3793904 0.3645949 0.4599887 0.5309559 0.4377116 0.7587122
##
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[85] 0.3212917 0.7084128 1.2007103 0.9034592 0.8596626 0.3965352 0.5221813

[92] 0.6033041 0.8300720 1.1870933 0.5094196 0.4777074 0.4741412 0.3685948 [99] 0.7622575 0.9932476 0.4913631 0.3475351 0.9414225 0.4813865 0.3539713 ## [106] 0.8159470 0.8256813 0.5052851 0.6972699 0.6104520 1.3449959 0.8159282

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## [120] 0.3657111 0.5834432 0.4996641 0.7756041 0.5230263 0.9866645 0.7030740
## [127] 0.8425237 0.4616118 0.6252256 0.7199080 0.5008544 0.7494023 0.7113318
## [134] 0.7356420 0.5967058 1.0235213 0.5309135 0.7763011 0.6933783 0.4617700
## [141] 0.7053376 0.5471384 0.3857099 0.4881168 0.4727629 0.2941847 0.5570299
## [148] 0.5196783 0.6832035 0.3931876 0.5273627 0.3114765 1.2593494 0.3865931
## [155] 0.8544662 0.5413490 0.8325009 0.5191319 0.5354546 0.3883396 0.4447940
## [162] 1.3709007 0.3767143 0.3944740 0.5081249 0.2692918 0.9474584 0.3507624
## [169] 0.9697200 0.4911199 0.6649858 0.6816010 0.9036344 0.3810076 0.4422688
## [176] 0.6879075 0.7625130 0.5617315 0.6834276 0.4260579 0.6099911 0.3879562
## [183] 0.6560534 0.7743913 1.5422954 0.4306387 0.5028732 0.7434418 0.9592629
## [190] 0.5390578 0.5482889 0.8125452 0.6522239 1.7520926 0.6588055 0.9147139
## [197] 0.4335863 0.4190480 1.0694441 0.9676029 0.6928043 0.2498216 0.4465162
## [204] 1.5827366 0.4247755 1.7146672 0.5532303 0.8550833 0.5864324 0.6953404
## [211] 0.4057153 0.4649384 0.9539656 0.5045059 0.4233018 0.4074139 0.6036208
## [218] 0.4572729 0.7844514 0.4906638 1.2699846 0.3616624 0.7704546 0.4760977
## [225] 1.2629440 0.5120789 0.7084243 0.5183954 0.4536484 0.3084124 0.2881024
## [232] 0.6400150 0.7629680 1.0502251 0.4934841 0.6415396 0.3102757 0.7538882
## [239] 0.6969330 0.6966866
mean(data[data$subj_no==1, 'RT_day1'], na.rm = TRUE)
## [1] 0.6711149
sd(data[data$subj_no==1, 'RT_day1'], na.rm = TRUE)
## [1] 0.2990333
# We will learn how to do this for all subjects later
```

## [113] 0.3444345 1.0423825 0.8192029 0.3271660 0.5759623 1.5778356 0.8801532

Often we need to learn how to get specific columns and rows of data For example, we might want just the ages of subjects, or only subjects over 40 etc. There are a number of ways you can do this in R, it's good to know some of them One thing that you will notice in R, is that the same thing can be done a few different ways A lot of the actual work you will do is figure out how to filter and subset your data before you do the actual data analysis

```
library("plyr") # we are going to use a package called pylr
library("dplyr")
##
## Attaching package: 'dplyr'
##
  The following objects are masked from 'package:plyr':
##
##
      arrange, count, desc, failwith, id, mutate, rename, summarise,
##
      summarize
## The following objects are masked from 'package:stats':
##
##
      filter, lag
## The following objects are masked from 'package:base':
##
##
      intersect, setdiff, setequal, union
# -----
# Ex. Splitting data by gender
# -----
# Filter = Filter a data frame by a specifc value, return all columns that
```

```
# Select = Select a column from the resulting data frame
filterData <- filter(data, group==2)</pre>
## Warning: package 'bindrcpp' was built under R version 3.4.4
dataBygroup <- select(filterData, RT_day1)</pre>
# Ex. Splitting data by Age using subset, or select + filter
# ------
dataByAge1 <- subset.data.frame(data, age>25, select=c(RT_day1, RT_day2))
dataByAge2 <- select(filter(data, age>25), c(RT_day1, RT_day2)) # you could do the same thing using 'se
# We can prove subset and select + filter do the same thing by using "=="
# Ex. Splitting data using just data frames (no fancy stuff)
# Say I want Av. SSRT, RT.go, RT.go.sd for people who are older than 20
data$age>20 # tells us which people are older than 20
##
     [1]
         TRUE
             TRUE TRUE TRUE FALSE TRUE TRUE FALSE
                                                 TRUE
                                                       TRUE
                                                            TRUE
##
    [12]
         TRUE
              TRUE TRUE FALSE TRUE TRUE FALSE TRUE
                                                 TRUE
                                                       TRUE
                                                            TRUE
                                                       TRUE
##
    Γ231
         TRUE TRUE FALSE TRUE TRUE FALSE TRUE TRUE
                                                 TRUE
##
    [34]
         TRUE FALSE TRUE TRUE FALSE TRUE TRUE
                                            TRUE
                                                  TRUE
                                                       TRUE
             TRUE TRUE FALSE TRUE TRUE TRUE TRUE
##
    [45] FALSE
                                                  TRUE
                                                       TRUE FALSE
##
    [56]
         TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE
         TRUE FALSE TRUE TRUE TRUE TRUE TRUE FALSE TRUE
##
    [67]
    [78] FALSE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE FALSE
##
##
    [89] TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE FALSE
                                                            TRUE
         TRUE TRUE TRUE TRUE FALSE TRUE TRUE FALSE
##
   [100]
                                                       TRUE
                                                            TRUE
   [111]
         TRUE TRUE TRUE FALSE TRUE TRUE FALSE
                                                 TRUE
                                                            TRUE
##
                                                       TRUE
##
   [122]
         TRUE TRUE TRUE FALSE TRUE TRUE FALSE
                                            TRUE
                                                  TRUE
                                                       TRUE
                                                            TRUE
         TRUE TRUE FALSE TRUE TRUE FALSE TRUE TRUE TRUE
##
   [133]
                                                       TRUE
                                                            TRUE
         TRUE FALSE TRUE TRUE FALSE TRUE TRUE TRUE TRUE
##
   [144]
                                                       TRUE
                                                            TRUE
##
   [155] FALSE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE FALSE
         TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE FALSE
##
   [166]
         TRUE FALSE TRUE TRUE TRUE TRUE TRUE FALSE
##
   [177]
                                                       TRUE
   [188] FALSE
             TRUE
                  TRUE TRUE TRUE TRUE FALSE
                                                 TRUE TRUE FALSE
   [199]
         TRUE
              TRUE
                   TRUE TRUE TRUE FALSE
                                            TRUE TRUE FALSE
##
                                                            TRUE
                                            TRUE FALSE
   [210]
              TRUE
                   TRUE TRUE TRUE FALSE TRUE
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##
         TRUE
                                                            TRUE
##
   [221]
         TRUE
              TRUE TRUE TRUE FALSE TRUE TRUE FALSE
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              TRUE TRUE FALSE TRUE TRUE FALSE TRUE
##
   [232]
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   [243]
         TRUE
              TRUE TRUE TRUE TRUE TRUE TRUE TRUE
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   [254]
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   [276]
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   [287]
              TRUE TRUE TRUE TRUE TRUE
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         TRUE
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   [298]
         TRUE TRUE TRUE TRUE TRUE TRUE
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```

TRUE TRUE

TRUE

TRUE

TRUE

TRUE TRUE TRUE TRUE TRUE

##

##

[309]

[320]

TRUE

## [331] TRUE ## [342] TRUE ## [353] TRUE ## [364] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE ## [375] TRUE [386] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE ## TRUE TRUE [397] TRUE TRUE TRUE TRUE ## TRUE TRUE TRUE TRUE TRUE TRUE TRUE [408]TRUE TRUE TRUE TRUE TRUE ## TRUE TRUE TRUE TRUE TRUE TRUE ## [419]TRUE TRUE ## [430] TRUE ## [441] TRUE [452]TRUE TRUE TRUE TRUE ## ## [463]TRUE TRUE [474]TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE ## TRUE TRUE TRUE ## [485] TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE ## [496]TRUE FALSE TRUE FALSE ## [507] FALSE ## [518] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE [529] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE ## ## [540] TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE ## [551] TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE ## [562] TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE ## [573] TRUE TRUE TRUE TRUE **FALSE** TRUE TRUE TRUE TRUE TRUE TRUE [584] TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE ## TRUE TRUE FALSE TRUE ## [595] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE ## [606] TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE ## [617] **FALSE** TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE [628] TRUE TRUE TRUE TRUE TRUE TRUE TRUE ## TRUE TRUE FALSE TRUE TRUE TRUE ## [639] TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE ## [650]TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE ## [661] TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE ## [672]TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE ## [683] TRUE TRUE TRUE **FALSE** TRUE TRUE TRUE TRUE TRUE TRUE [694] TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE ## TRUE ## [705] TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE ## [716] TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE ## [727]TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE ## [738] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE ## [749] TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE ## [760] TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE [771] TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE ## TRUE TRUE ## [782] TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE [793] TRUE TRUE ## TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE ## [804] TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE [815] TRUE TRUE TRUE TRUE TRUE TRUE TRUE ## TRUE FALSE TRUE TRUE TRUE TRUE TRUE ## [826] **FALSE** TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE ## [837] TRUE TRUE TRUE TRUE TRUE FALSE TRUE [848] TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE ## TRUE TRUE ## [859] TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE ## [870] TRUE TRUE TRUE **FALSE** TRUE TRUE TRUE TRUE ## [881] TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE ## [892] TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE ## [903] TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE ## [914] TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE

## [925] TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE [936] FALSE ## TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE FALSE ## [947] TRUE FALSE TRUE TRUE TRUE ## [958] TRUE TRUE TRUE TRUE ## [969] TRUE TRUE TRUE TRUE **FALSE** TRUE TRUE TRUE TRUE TRUE TRUE [980] TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE ## [991] TRUE TRUE TRUE ## TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE [1002] TRUE TRUE TRUE TRUE TRUE TRUE TRUE ## TRUE FALSE TRUE TRUE ## [1013] FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE ## [1024] TRUE TRUE TRUE TRUE FALSE TRUE ## [1035] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE [1046] TRUE TRUE FALSE TRUE ## TRUE ## [1057] TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE [1068] TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE ## TRUE [1079] TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE ## ## [1090] TRUE TRUE TRUE **FALSE** TRUE TRUE TRUE TRUE TRUE TRUE TRUE [1101] TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE ## [1112]TRUE FALSE TRUE [1123] FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE ## [1134] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE ## [1145] TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE [1156] TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE ## [1167] TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE ## Γ11787 TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE ## TRUE [1189] TRUE TRUE TRUE ## TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE [1200] TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE [1211] TRUE TRUE TRUE TRUE **FALSE** TRUE TRUE TRUE TRUE TRUE TRUE ## [1222] TRUE **FALSE** TRUE TRUE TRUE TRUE TRUE TRUE ## TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE ## [1233] TRUE TRUE FALSE TRUE TRUE [1244]TRUE FALSE TRUE ## [1255] FALSE TRUE TRUE TRUE TRUE TRUE TRUE FALSE ## [1266] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE [1277] TRUE TRUE TRUE TRUE FALSE TRUE TRUE [1288] TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE ## [1299] TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE ## [1310] TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE [1321] TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE ## [1332] TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE [1343] TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE ## [1354] TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE ## [1365] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE FALSE [1376] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE ## [1387] TRUE TRUE ## TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE [1398] TRUE TRUE TRUE TRUE FALSE TRUE TRUE ## TRUE TRUE TRUE TRUE [1409] TRUE TRUE TRUE TRUE FALSE TRUE ## TRUE TRUE TRUE TRUE TRUE [1420] TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE ## TRUE TRUE ## [1431] TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE [1442] TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE ## [1453] TRUE FALSE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE [1464] TRUE TRUE TRUE TRUE ## **FALSE** TRUE **FALSE** TRUE TRUE TRUE **FALSE** ## [1475] TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE **FALSE** TRUE [1486] TRUE ## TRUE TRUE TRUE FALSE TRUE TRUE TRUE FALSE TRUE TRUE ## [1497] TRUE TRUE TRUE FALSE TRUE TRUE TRUE FALSE TRUE TRUE TRUE [1508] TRUE TRUE FALSE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE

[1519] TRUE FALSE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE [1530] FALSE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE FALSE TRUE FALSE [1541] TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE [1552] FALSE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE ## ## [1563] TRUE FALSE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE [1574] FALSE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE FALSE ## [1585] TRUE FALSE TRUE TRUE ## TRUE TRUE TRUE TRUE TRUE FALSE TRUE [1596] TRUE FALSE TRUE ## TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE ## [1607] TRUE TRUE TRUE FALSE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE ## [1618] TRUE TRUE FALSE TRUE TRUE FALSE TRUE TRUE [1629] TRUE FALSE TRUE TRUE TRUE FALSE TRUE [1640] **FALSE** TRUE **FALSE** TRUE FALSE ## ## [1651] TRUE TRUE TRUE **FALSE** TRUE TRUE TRUE TRUE TRUE FALSE TRUE [1662] TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE ## FALSE [1673] TRUE FALSE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE ## ## [1684] TRUE [1695] TRUE ## TRUE [1706] TRUE [1717] TRUE ## [1728]TRUE TRUE ## [1739] TRUE [1750] TRUE ## [1761] TRUE ## [1772] TRUE ## [1783] TRUE TRUE TRUE TRUE TRUE ## TRUE TRUE TRUE TRUE TRUE TRUE [1794] TRUE [1805] TRUE ## [1816] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE ## TRUE TRUE [1827] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE ## TRUE TRUE TRUE [1838] TRUE TRUE TRUE ## TRUE ## [1849] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE ## [1860] TRUE ## [1871] TRUE TRUE TRUE TRUE TRUE [1882] TRUE ## [1893] TRUE ## [1904] TRUE Γ1915] TRUE ## [1926] FALSE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE [1937] FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE FALSE ## ## [1948] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE FALSE TRUE [1959] TRUE TRUE TRUE TRUE TRUE TRUE FALSE FALSE TRUE TRUE TRUE [1970] TRUE TRUE TRUE TRUE TRUE TRUE FALSE FALSE TRUE TRUE TRUE ## [1981] TRUE TRUE FALSE FALSE TRUE ## TRUE TRUE TRUE TRUE TRUE TRUE [1992] TRUE TRUE FALSE FALSE TRUE TRUE TRUE TRUE TRUE ## TRUE TRUE [2003] FALSE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE [2014] **FALSE** TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE ## TRUE TRUE TRUE ## [2025] TRUE FALSE FALSE TRUE TRUE TRUE TRUE TRUE [2036] FALSE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE ## [2047] FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE FALSE TRUE TRUE TRUE TRUE ## [2058] TRUE TRUE TRUE TRUE FALSE FALSE TRUE [2069] TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE FALSE TRUE TRUE ## [2080] TRUE TRUE TRUE TRUE TRUE ## TRUE TRUE FALSE FALSE TRUE TRUE ## [2091] TRUE TRUE TRUE TRUE TRUE FALSE FALSE TRUE TRUE TRUE TRUE [2102] TRUE TRUE TRUE TRUE FALSE FALSE TRUE TRUE TRUE TRUE TRUE

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## [2113]
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## [2311]
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## [2322]
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## [2333]
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## [2344]
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## [2355]
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           TRUE FALSE
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                 TRUE FALSE
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## [2366] FALSE
                                                              TRUE
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## [2377]
           TRUE FALSE
                        TRUE
                              TRUE
                                    TRUE
                                           TRUE
                                                 TRUE
                                                       TRUE
                                                             TRUE FALSE
                                                                         TRUF.
## [2388] FALSE
                 TRUE
                        TRUE
                              TRUE
                                    TRUE
                                          TRUE
                                                 TRUE
                                                       TRUE FALSE
                                                                    TRUE FALSE
## [2399]
           TRUE
                 TRUE
```

# Now that we know this gives us true or false values, we put those true and false values # in the rows of the data frame - R will select only the rows where this is equal to 'TRUE' # i.e. the columns where that person's age is above 20 data[dataa = 20, ] # gives us all of the data for a single person that is older than 20

##		X	subj_no	age	group	stim	trial	difficulty	resp	corr	conf
##	1	1	10	23	2	2	1	2	1	0	2
##	2	2	10	36	2	1	2	3	2	0	1
##	3	3	10	38	2	2	3	2	2	1	4
##	4	4	10	25	2	2	4	1	1	0	3
##	6	6	10	40	2	1	6	1	1	1	5
##	7	7	10	23	2	2	7	3	1	0	2
##	9	9	10	40	2	2	9	3	1	0	1
##	10	10	10	23	2	2	10	1	1	0	4
##	11	11	10	23	2	1	11	1	1	1	5
##	12	12	10	36	2	1	12	2	2	0	2
##	13	13	10	38	2	2	13	3	1	0	1
##	14	14	10	25	2	2	14	2	2	1	3
##	16	16	10	40	2	1	16	2	1	1	4
##	17	17	10	23	2	1	17	1	1	1	4
##	19	19	10	40	2	1	19	1	1	1	4
##	20	20	10	23	2	1	20	1	2	0	4
##	21	21	10	23	2	2	21	3	2	1	3
##	22	22	10	36	2	1	22	1	1	1	5
##	23	23	10	38	2	2	23	1	2	1	4
##	24	24	10	25	2	2	24	3	2	1	2
##	26	26	10	40	2	1	26	2	1	1	4

##	27	27	10	23	2	1	27	3	2	0	2
##	29	29	10	40	2	1	29	2	2	0	2
##	30	30	10	23	2	1	30	2	1	1	3
##	31	31	10	23	2	1	31	1	1	1	5
##	32	32	10	36	2	2	32	1	1	0	4
##	33	33	10	38	2	1	33	1	1	1	4
##	34	34	10	25	2	1	34	1	1	1	5
##	36	36	10	40	2	2	36	2	2	1	4
##	37	37	10	23	2	1	37	1	1	1	4
##	39	39	10	40	2	1	39	1	1	1	4
##	40	40	10	23	2	1	40	1	1	1	5
##	41	41	10	23	2	1	41	1	2	0	4
##	42	42	10	36	2	2	42	3	2	1	3
##	43	43	10	38	2	1	43	2	2	0	2
##	44	44	10	25	2	2	44	1	1	0	4
##	46	46	10	40	2	2	46	3	2	1	2
##	47	47	10	23	2	1	47	3	2	0	1
##	49	49	10	40	2	1	49	3	1	1	2
##	50	50	10	23	2	2	50	2	1	0	2
##	51	51	10	23	2	2	51	3	2	1	2
##	52	52	10	36	2	1	52	2	1	1	4
	53	53	10	38	2	2	53	2	1	0	2
	54	54	10	25	2	2	54	1	2	1	5
##	56	56	10	40	2	1	56	2	2	0	3
	57	57	10	23	2	1	57	1	1	1	5
	59	59	10	40	2	1	59	3	2	0	1
	60	60	10	23	2	1	60	3	2	0	2
##	61	61	10	23	2	1	61	1	1	1	4
##	62	62	10	36	2	2	62	3	1	0	2
	63	63	10	38	2	1	63	2	2	0	3
##	64	64	10	25	2	2	64	2 2	1	0	3
## ##	66 67	66 67	10	40	2 2	2 2	66 67	2	2	1	3
##	69	69	10 10	23 40	2	1	69	3	2	1	4 2
##	70	70	10	23	2	1	70	1	1	1	4
##	70	70	10	23	2	2	71	1	2	1	5
	72	72	10	36	2	1	72	3	1	1	3
##	73	73	10	38	2	2	73	2	1	0	3
##	74	74	10	25	2	2	74	2	2	1	3
##	76	76	10	40	2	1	76	2	2	0	3
	77	77	10	23	2	2	77	1	2	1	5
	79	79	10	40	2	1	79	3	2	0	2
##	80	80	10	23	2	1	80	2	2	0	2
##	81	81	10	23	2	1	81	2	2	0	3
##	82	82	10	36	2	2	82	2	2	1	4
##	83	83	10	38	2	2	83	3	2	1	3
##	84	84	10	25	2	2	84	2	2	1	4
##	86	86	10	40	2	2	86	2	1	0	2
##	87	87	10	23	2	2	87	2	1	0	3
##	89	89	10	40	2	1	89	2	1	1	3
##	90	90	10	23	2	1	90	1	1	1	4
	91	91	10	23	2	1	91	1	1	1	4
	92	92	10	36	2	2	92	1	2	1	5
##	93	93	10	38	2	1	93	1	1	1	5

##	94	94	10	25	2	1	94	3	2	0	2
##	96	96	10	40	2	1	96	1	2	0	3
##	97	97	10	23	2	2	97	2	1	0	3
##	99	99	10	40	2	1	99	1	1	1	4
##	100	100	10	23	2	2	100	1	2	1	5
##	101	101	10	23	2	2	101	1	2	1	5
##	102	102	10	36	2	2	102	1	2	1	4
##	103	103	10	38	2	2	103	1	1	0	4
##	104	104	10	25	2	1	104	1	1	1	5
##	106	106	10	40	2	1	106	1	1	1	5
##	107	107	10	23	2	1	107	2	1	1	4
##	109	109	10	40	2	1	109	3	2	0	1
##	110	110	10	23	2	1	110	2	1	1	3
##	111	111	10	23	2	2	111	2	1	0	3
## ##	<ul><li>112</li><li>113</li></ul>	112	10 10	36	2 2	1	112 113	3 3	1 2	1 1	3 2
##	114	113 114	10	38 25	2	2 1	113	2	2	0	2
##	116	114	10	40	2	2	114	3	1	0	1
##	117	117	10	23	2	2	117	2	1	0	2
##	119	119	10	40	2	2	119	3	2	1	3
##	120	120	10	23	2	2	120	1	2	1	4
##	121	121	10	23	2	1	121	1	1	1	5
##	122	122	10	36	2	2	122	2	2	1	4
##	123	123	10	38	2	2	123	2	1	0	3
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##	126	126	10	40	2	1	126	1	1	1	5
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	478	478	9	31	1	2	238	3	1	0	2
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	484	484	8	24	2	2	4	1	2	1	5
			_		_		_	_			
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##			8								
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	594		8		2		114	2	2	0	3
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	596	596	8	24	2	2	116	2	2	1	4
	598	598	8	29	2	1	118	3	1	1	2
	599	599	8	26	2	2	119	3	2	1	2
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##	624	624	8	24	2	1	144	1	2	0	3
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		671									
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##	684	684	8	24	2	2	204	3	1	0	1
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	813	813	7	22	1	2	93	3	1	0	2
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		818		23	1	1			1		
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	829	829	7	34	1	1	109	2	2	0	2
	830	830	7	38	1	1	110	3	1	1	2
	831	831	7	25	1	1	111	1	1	1	4
	832	832	7	21	1	2	112	2	2	1	3
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	862	862	7	21	1	1	142	3	1	1	2
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	897	897	7	30	1	2	177	2	1	0	2
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	-011		O	٥,	_	-	01	9	-	-	_

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##	1868 1869		3	25	1	1	188	3	1	1	3
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##	1899	1899	3	36	1	2	219	3	2	1	2
##	1900	1900	3	36	1	1	220	1	2	0	3
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##	1944		2	24	2	2	2 <del>4</del> 25	3	2	1	3
##	1940	1940	2	<b>24</b>	2	2	25	S	2	Т	3

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##	2014	2014	2	2 31	2	2	94	2	1	0	2
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	2060		2		_	_	140	_	1	0	
##	<ul><li>2061</li><li>2062</li></ul>		2				141 142	3 1	1	0 1	1 5
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	2213							3	2	1	2
			1			2	54				
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				0	1	1	57		2	2		0	3
	2219			4	1	2	59		3	2		1	2
	2220			0	1	2	60		1	2	2	1	5
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## 2292
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## 2294
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## 2295
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## 2297
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## 2300
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         0.70533758
## 2301
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## 2302
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## 2303
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                      0.9335946043
         0.48811677
## 2304
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## 2305
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  2309
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## 2310
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## 2311
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## 2313
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## 2314
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                      0.9349901324
## 2315
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         0.83250087
## 2317
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## 2319
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## 2320
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## 2321
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## 2322
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                      2.4901961316
## 2323
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                      0.9193815817
## 2324
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                      0.9474419167
## 2325
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## 2327
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## 2329
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         0.49111991
## 2330
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## 2331
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         0.68160095
## 2332
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## 2333
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## 2334
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                      0.9261650355
  2335
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                      1.0229576796
   2337
         0.76251300
                      1.5289435508
##
  2339
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                      1.4039886232
## 2340
         0.42605789
                      0.9973444885
## 2341
         0.60999110
                      1.2879589554
## 2342 0.38795623 0.9371438638
```

```
## 2343 0.65605344 1.3607374523
## 2344 0.77439127
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        1.54229537
## 2345
                     2.7609996963
## 2347
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## 2349
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## 2350
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                     1.1758844094
## 2351
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         0.81254524
## 2352
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## 2353
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                     1.3546867771
## 2354
        1.75209258
                     3.0924792879
## 2355
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## 2357
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## 2359
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        0.96760291
## 2360
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## 2361
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## 2362
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                     0.7188910986
## 2363
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                     1.0296685884
## 2364
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                     2.8248968778
## 2365
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## 2367
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## 2369
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## 2370
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## 2371
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## 2372
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## 2375
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        0.60362077
## 2377
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## 2379
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## 2380
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         1.26998464
## 2381
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## 2382
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## 2383
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## 2384
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                     1.0764073200
## 2385
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## 2387
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## 2389
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## 2390
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                     0.8114646854
## 2391
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        0.64001497
## 2392
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## 2393
        0.76296797
                     1.5296624155
## 2394
        1.05022510
                     1.9835286817
## 2395
        0.49348410
                     1.1038778945
## 2397
        0.31027572
                     0.8144086632
## 2399
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                     1.4253272111
## 2400
        0.69668660 1.4249378491
data[data$age >20, c("group", "RT_day1")] # gives us specific columns
##
                  RT_day1
        group
## 1
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            2
## 2
            2
               0.70900369
## 3
            2
               0.62320134
            2 0.68807593
## 4
## 6
            2 0.40986839
```

```
## 7
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## 9
            2
               1.34663842
## 10
               0.56936275
## 11
            2
               0.34670307
## 12
            2
               0.74287703
## 13
            2 0.99696099
## 14
            2 0.64211892
               0.59109391
## 16
            2
## 17
            2
               0.61122270
## 19
            2
               0.38717101
## 20
            2
               0.62645332
## 21
            2
               0.32772079
## 22
            2
               0.45575074
## 23
            2
               0.40837268
## 24
            2
               0.57411528
## 26
            2
               0.66428165
## 27
            2
               0.36358039
## 29
            2
               0.73812986
## 30
            2
              0.76446834
## 31
            2
               0.35769718
## 32
            2 0.61056975
## 33
            2
               0.32598242
## 34
            2
               0.40429136
## 36
            2
               0.34524324
            2 0.40056035
## 37
## 39
            2
               0.34943628
## 40
            2
               0.32363422
## 41
            2
               0.47646070
## 42
            2 0.50021394
## 43
            2
               0.68535150
## 44
            2
               0.59257262
## 46
            2
               0.90805273
            2
## 47
               0.64412268
## 49
            2
               0.62489066
## 50
            2
               0.55690563
## 51
            2
               0.91136229
## 52
            2
               0.59601853
## 53
            2
               0.88381531
## 54
            2
               0.33516935
## 56
            2 0.69476067
## 57
            2
               0.44563960
## 59
            2
               0.56853460
## 60
            2
               0.64126427
## 61
            2
              0.31206546
## 62
            2
               1.60844131
            2
## 63
               0.80519583
            2
## 64
               0.61222325
## 66
            2
               0.63499179
## 67
            2
               0.55528581
            2
## 69
               0.21931196
## 70
            2
               0.33580444
            2
## 71
               0.47120274
## 72
            2
               1.03017111
            2
## 73
               0.70383567
```

```
## 74
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## 76
            2
               0.49218507
##
  77
               0.38395864
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            2
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            2
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## 81
            2 0.48514436
## 82
            2
               0.48445951
## 83
            2
               0.78170110
## 84
            2
               0.74014709
            2
## 86
               0.55373794
## 87
            2
               0.54724735
## 89
            2
               0.54030159
## 90
            2
               0.39016608
## 91
            2
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## 92
            2
               0.40972001
## 93
            2
               0.33650154
## 94
            2
               0.45796969
## 96
               0.66632349
## 97
            2
               0.79565802
## 99
            2
               0.47376829
## 100
            2 0.47998040
## 101
            2
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## 102
            2
## 103
            2
               0.43642871
            2 0.41844475
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## 106
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            2
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            2 0.72597508
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            2 0.57644165
## 111
## 112
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## 114
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            2 0.52758952
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            2
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## 127
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## 129
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## 130
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## 131
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            2
## 132
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## 133
            2
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## 134
            2
               0.51721145
            2
## 136
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## 137
            2
               0.84721448
            2
## 139
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## 140
            2
               0.46178912
            2
## 141
               0.59419390
```

```
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               0.91092679
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            2
## 147
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## 149
            2 1.09781942
## 150
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            2
## 151
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## 153
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## 154
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## 159
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## 160
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## 161
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## 163
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## 164
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## 166
            2
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            2 0.96420214
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## 173
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## 174
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## 192
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## 193
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## 200
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## 207
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            2 0.70635349
## 209
```

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## 257
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##
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##
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##
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## 268
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               0.44315970
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```

```
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## 277
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## 279
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##
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##
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##
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##
   373
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##
  374
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## 375
             1
                0.74269915
## 376
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                0.53612783
## 377
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                0.40705457
```

```
## 378
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                1.01562420
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##
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             1
##
   382
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##
             1
##
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## 385
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                0.86474229
##
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##
  387
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##
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##
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##
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##
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##
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             1
##
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                0.54969994
##
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##
   395
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##
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##
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##
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## 402
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## 404
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## 405
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               1.06381443
```

```
## 2062
            2 0.48830577
## 2063
            2 1.28499148
## 2064
              0.45512819
              0.72015297
## 2065
            2
## 2068
            2
               0.70670311
## 2069
            2 0.95609361
## 2070
            2 0.38250101
## 2071
            2
              0.67559651
               0.59103348
## 2072
            2
## 2073
            2 1.70641044
## 2074
            2 1.05231861
## 2075
            2 0.44156629
## 2078
            2 0.35982648
            2 1.14793837
## 2079
## 2080
            2
              0.59805848
## 2081
            2
               0.63232108
## 2082
            2
               0.50706982
## 2083
              0.49351041
## 2084
              0.86492695
            2
## 2085
            2
               1.17020240
## 2088
            2 0.50195980
## 2089
            2 1.17731699
## 2090
            2 0.89939937
## 2091
            2
               0.93487479
## 2092
            2 0.72309163
## 2093
            2 0.63578386
## 2094
            2
              0.28603826
## 2095
            2
               0.52584834
            2 0.95851137
## 2098
## 2099
            2 0.89316700
## 2100
            2
               0.39637162
## 2101
            2
               0.34841614
            2 0.69406023
## 2102
## 2103
            2 1.49161792
## 2104
            2
               0.65730225
## 2105
            2 0.87261372
## 2108
            2 0.46030743
## 2109
            2
              0.50322188
## 2110
            2
               0.40464564
            2 0.39543316
## 2111
## 2112
            2 0.44151635
## 2113
            2 0.50868484
## 2114
            2 0.68744639
            2 0.32631095
## 2115
            2 1.12953449
## 2118
            2
              0.99680815
## 2119
            2
## 2120
               0.65189591
## 2121
            2 0.40158740
## 2122
            2
              0.76033173
            2
## 2123
               1.03709434
## 2124
            2
               0.40891988
## 2125
            2 0.47947718
## 2128
            2
              0.81139031
            2 1.02529413
## 2129
```

```
## 2130
           2 0.56135938
## 2131
           2 0.59853830
            2 0.53984949
## 2132
## 2133
            2 0.59055880
## 2134
            2
              0.70740762
## 2135
           2 0.71787120
## 2138
           2 0.43608832
## 2139
            2 0.70698606
              0.61088768
## 2140
            2
            2 0.48571855
## 2141
## 2142
            2 0.71492073
## 2143
            2 0.44131235
## 2144
            2 0.67385894
            2 0.67619848
## 2145
## 2148
            2 0.69694211
## 2149
            2
              1.21761798
## 2150
            2 0.35124942
## 2151
            2 0.59522192
## 2152
            2 0.67366104
## 2153
            2
              0.85135245
## 2154
           2 1.08627434
## 2155
           2 0.73848891
## 2158
           2 0.36613376
## 2159
           2
              0.35767478
           2 0.43238797
## 2160
## 2161
            1 0.51113104
## 2162
              1.29460325
            1
            1 0.46478566
## 2163
## 2164
           1 0.46572391
## 2165
           1 1.41653356
              0.47452153
## 2167
            1
## 2169
            1 0.88059708
## 2170
            1 0.44531623
## 2171
            1 0.47336452
## 2172
            1
              0.59741696
## 2173
           1 1.44317421
## 2174
           1 1.76789091
## 2175
            1 0.76060653
## 2177
            1
              1.16097412
## 2179
            1 0.99459107
## 2180
            1 0.57409476
## 2181
            1 0.45894462
## 2182
            1 0.64489755
## 2183
            1 0.51479930
## 2184
            1 0.96415363
## 2185
            1 0.58958347
## 2187
            1 0.62348167
## 2189
            1 0.54383621
## 2190
            1 0.71642169
## 2191
            1
              0.61239702
## 2192
              0.35485798
            1
## 2193
            1 0.86987281
## 2194
            1
              0.72801963
## 2195
            1 1.48779274
```

```
## 2197
            1 0.63407284
## 2199
               0.58601955
            1
## 2200
               0.48311966
## 2201
               0.47872185
            1
## 2202
            1
               0.37935092
## 2203
            1 0.49702896
## 2204
               0.46078093
            1
## 2205
               0.42327813
            1
## 2207
            1
               0.46930552
## 2209
            1
               0.99669396
## 2210
            1
               0.68087598
## 2211
               0.35111408
            1
## 2212
            1
               0.65824440
## 2213
            1
               0.62657213
## 2214
               0.89376333
            1
## 2215
            1
               0.56331691
## 2217
            1
               0.57988776
## 2219
               0.86800454
## 2220
               0.36666248
            1
## 2221
            1
               0.57767116
## 2222
            1
               0.63859249
## 2223
            1
               0.47432287
## 2224
               0.64579547
            1
## 2225
            1
               0.56790219
## 2227
            1
               0.45947636
               0.73058357
## 2229
            1
## 2230
               0.43028795
            1
## 2231
               0.60466271
            1
## 2232
               1.58304403
            1
## 2233
            1
               0.68872859
## 2234
            1
               0.42529251
## 2235
            1
               0.61831450
## 2237
               0.75014576
## 2239
               0.37939040
            1
## 2240
            1
               0.36459487
               0.45998871
## 2241
            1
## 2242
               0.53095586
## 2243
            1
               0.43771161
## 2244
            1
               0.75871221
## 2245
               0.32129174
            1
## 2247
               1.20071035
            1
## 2249
               0.85966260
            1
## 2250
               0.39653523
            1
## 2251
            1
               0.52218128
## 2252
               0.60330406
            1
## 2253
               0.83007204
            1
## 2254
            1
               1.18709335
## 2255
               0.50941956
## 2257
            1
               0.47414117
## 2259
            1
               0.76225748
## 2260
               0.99324759
            1
## 2261
            1
               0.49136307
## 2262
            1
               0.34753505
## 2263
            1 0.94142254
```

```
## 2264
            1 0.48138647
## 2265
               0.35397128
            1
## 2267
               0.82568130
               0.69726993
## 2269
            1
## 2270
            1
               0.61045203
## 2271
               1.34499585
            1
## 2272
               0.81592824
            1
## 2273
            1
               0.34443455
               1.04238249
## 2274
            1
## 2275
            1
               0.81920293
## 2277
            1
               0.57596227
               0.88015315
## 2279
            1
## 2280
            1
               0.36571111
## 2281
            1
               0.58344323
## 2282
               0.49966408
            1
## 2283
            1
               0.77560407
## 2284
               0.52302631
            1
## 2285
               0.98666449
## 2287
               0.84252365
            1
## 2289
               0.62522562
## 2290
            1
               0.71990803
## 2291
            1
               0.50085443
## 2292
               0.74940230
            1
## 2293
            1
               0.71133176
## 2294
            1
               0.73564198
               0.59670577
## 2295
            1
## 2297
               0.53091347
            1
## 2299
               0.69337833
            1
## 2300
            1
               0.46176998
## 2301
               0.70533758
            1
## 2302
            1
               0.54713841
## 2303
            1
               0.38570986
## 2304
               0.48811677
## 2305
               0.47276286
            1
## 2307
            1
               0.55702995
## 2309
               0.68320346
            1
## 2310
               0.39318759
## 2311
            1
               0.52736269
## 2312
            1
               0.31147650
               1.25934941
## 2313
            1
## 2314
               0.38659311
            1
## 2315
               0.85446617
            1
## 2317
               0.83250087
            1
## 2319
            1
               0.53545460
## 2320
               0.38833957
            1
               0.44479395
## 2321
            1
## 2322
            1
               1.37090070
## 2323
               0.37671428
## 2324
            1
               0.39447399
## 2325
            1
               0.50812493
## 2327
               0.94745842
            1
## 2329
            1
               0.96972001
## 2330
            1
               0.49111991
## 2331
            1
               0.66498583
```

```
## 2332
             1 0.68160095
## 2333
                0.90363438
             1
                0.38100761
## 2334
## 2335
                0.44226877
             1
## 2337
                0.76251300
## 2339
                0.68342760
             1
## 2340
                0.42605789
             1
## 2341
             1
                0.60999110
## 2342
             1
                0.38795623
## 2343
             1
                0.65605344
## 2344
             1
                0.77439127
                1.54229537
## 2345
             1
## 2347
             1
                0.50287321
## 2349
             1
                0.95926289
## 2350
                0.53905784
             1
## 2351
             1
                0.54828892
## 2352
             1
                0.81254524
## 2353
                0.65222390
## 2354
                1.75209258
             1
##
  2355
                0.65880550
## 2357
             1
                0.43358630
## 2359
             1
                1.06944411
## 2360
                0.96760291
             1
## 2361
             1
                0.69280432
## 2362
             1
                0.24982157
## 2363
             1
                0.44651618
## 2364
                1.58273662
             1
## 2365
                0.42477553
             1
## 2367
                0.55323033
             1
## 2369
             1
                0.58643240
## 2370
             1
                0.69534042
## 2371
             1
                0.40571530
## 2372
                0.46493841
## 2373
                0.95396563
             1
## 2374
             1
                0.50450592
## 2375
                0.42330183
             1
## 2377
                0.60362077
## 2379
             1
                0.78445137
## 2380
             1
                0.49066385
## 2381
                1.26998464
             1
## 2382
                0.36166236
             1
## 2383
                0.77045459
             1
## 2384
                0.47609766
             1
## 2385
             1
                1.26294397
## 2387
                0.70842425
             1
## 2389
             1
                0.45364841
## 2390
             1
                0.30841245
## 2391
                0.28810241
## 2392
             1
                0.64001497
## 2393
             1
                0.76296797
## 2394
                1.05022510
             1
## 2395
             1
                0.49348410
## 2397
             1
                0.31027572
## 2399
             1
                0.69693303
```

```
## 2400
            1 0.69668660
# ----- Handling Missing Values -----
# We can use na.omit (type ?na.omit for help in the console)
na.omit( data[data$age >20 & data$age <40, c("RT_day1", "RT_day2")] ) # gives us specific columns
##
            RT_day1
                          RT_day2
## 1
         0.60761494
                    1.5589454195
## 2
         0.70900369
                    1.7191396404
## 3
         0.62320134
                     1.5835719316
## 4
         0.68807593
                     1.6860737827
## 7
         0.73163809
                     1.7549019885
## 10
         0.56936275
                     1.4985069465
## 11
         0.34670307
                     1.1467046633
## 12
         0.74287703
                     1.7726595103
## 13
         0.99696099
                     2.1741121766
## 14
         0.64211892
                    1.6134617047
## 17
         0.61122270
                    1.5646456801
## 20
         0.62645332
                    1.5887100617
## 21
         0.32772079
                    1.1167126619
## 22
         0.45575074
                    1.3189999772
## 23
         0.40837268
                    1.2441426473
## 24
         0.57411528
                     1.5060159553
## 27
         0.36358039
                    1.1733708290
## 30
         0.76446834
                    1.8067737785
## 31
         0.35769718
                    1.1640753480
## 32
         0.61056975
                     1.5636140085
## 33
                    1.1139660340
         0.32598242
## 34
         0.40429136
                     1.2376941601
## 37
                    1.2317991609
         0.40056035
## 40
         0.32363422
                     1.1102558802
## 41
         0.47646070
                     1.3517217134
## 42
         0.50021394
                    1.3892518344
## 43
         0.68535150
                     1.6817691861
## 44
         0.59257262
                    1.5351785431
## 47
         0.64412268
                    1.6166276401
## 50
         0.55690563
                    1.4788247098
                     2.0388662202
## 51
         0.91136229
## 52
         0.59601853
                    1.5406230815
## 53
         0.88381531 1.9953419993
         0.33516935 1.1284813785
## 54
## 57
         0.44563960
                     1.3030243721
## 60
         0.64126427
                    1.6121113586
## 61
         0.31206546
                    1.0919772359
## 62
         1.60844131
                     3.1402510855
## 63
         0.80519583
                     1.8711232201
## 64
         0.61222325
                     1.5662265387
## 67
         0.55528581
                     1.4762653837
## 70
         0.33580444
                     1.1294848322
## 71
         0.47120274
                     1.3434141424
## 72
         1.03017111 2.2265841688
## 73
         0.70383567
                    1.7109741745
## 74
         0.51632451
                    1.4147065329
## 77
         0.38395864 1.2055684670
## 80
         0.74990464 1.7837631469
```

```
## 81
         0.48514436
                     1.3654418982
## 82
         0.48445951
                     1.3643598318
##
  83
         0.78170110
                      1.8340015446
## 84
         0.74014709
                      1.7683462045
## 87
         0.54724735
                      1.4635646178
## 90
         0.39016608
                      1.2153762228
## 91
         0.46619914
                      1.3355084433
## 92
         0.40972001
                      1.2462714239
## 93
         0.33650154
                      1.1305862373
## 94
         0.45796969
                      1.3225059167
## 97
         0.79565802
                      1.8560534858
## 100
         0.47998040
                      1.3572828435
## 101
         0.43944308
                      1.2932338710
                      1.2691405658
## 102
         0.42419415
## 103
         0.43642871
                      1.2884711684
## 104
         0.41844475
                      1.2600565080
## 107
         0.53437471
                      1.4432258539
## 110
         0.72597508
                      1.7459544368
## 111
         0.57644165
                      1.5096916125
## 112
         1.29737027
                      2.6487588306
## 113
         0.83299002
                      1.9150380438
## 114
         0.54266148
                      1.4563189410
## 117
         0.19309507
                      0.9040040253
## 120
         0.36206543
                      1.1709771807
## 121
         0.33820104
                      1.1332714551
## 122
         0.67042765
                      1.6581894901
## 123
         1.02164258
                      2.2131090809
##
  124
         0.52758952
                      1.4325052572
## 127
         0.74215682
                      1.7715215808
## 130
         0.38020543
                      1.1996383893
## 131
         0.33175081
                      1.1230800892
## 132
         0.56864132
                      1.4973670980
## 133
         0.83444564
                      1.9173379208
## 134
         0.51721145
                      1.4161079035
##
  137
         0.84721448
                      1.9375126879
## 140
         0.46178912
                      1.3285406229
## 141
         0.59419390
                      1.5377401729
## 142
         0.32322107
                      1.1096031028
## 143
                      1.6664893457
         0.67568072
## 144
         0.44671370
                      1.3047214584
## 147
         0.40768154
                      1.2430506427
         0.55291409
                      1.4725180652
## 150
##
  151
         1.01542119
                      2.2032792939
## 152
         0.66699475
                      1.6527655116
## 153
         0.45711318
                      1.3211526307
## 154
                      2.2412797648
         1.03947212
## 157
         0.47707108
                      1.3526861221
## 160
         0.55793242
                      1.4804470402
                      2.0804437227
## 161
         0.93767716
## 162
         0.42939375
                      1.2773559265
## 163
         0.52672548
                      1.4311400677
## 164
         0.43459181
                      1.2855688682
## 167
         0.53567646
                     1.4452826108
## 170
         0.85511292 1.9499922220
```

```
## 171
         0.74119384
                     1.7700000784
## 172
         0.96420214
                      2.1223531887
## 173
         0.46905760
                      1.3400248249
## 174
         0.87989096
                      1.9891415313
##
  177
         0.63930468
                      1.6090152036
## 180
         0.33061418
                      1.1212842121
## 181
         0.83658215
                      1.9207136106
## 182
         0.92272783
                      2.0568237842
## 183
         0.56672622
                      1.4943412297
## 184
         0.56624884
                      1.4935869821
## 187
         0.66725426
                      1.6531755364
## 190
         0.49615722
                      1.3828422154
## 191
         0.58684541
                      1.5261295509
## 192
         1.42471140
                      2.8499578290
## 193
         0.53585485
                      1.4455644775
## 194
         0.45964960
                      1.3251601696
                      2.0285286646
## 197
         0.90481953
## 200
         0.98323659
                      2.1524276228
## 201
         0.25400504
                      1.0002417664
## 202
         0.27332335
                      1.0307647055
## 203
         0.94922695
                      2.0986923880
## 204
                      2.8029190226
         1.39494001
## 207
         0.54769292
                      1.4642686170
## 210
         0.98192253
                      2.1503514123
## 211
         0.67168643
                      1.6601783753
## 212
         0.69971988
                      1.7044712201
## 213
         0.57476963
                      1.5070498204
                      2.1363542275
## 214
         0.97306356
## 217
         0.72365007
                      1.7422809188
## 220
         0.46708691
                      1.3369111306
## 221
         0.38766487
                      1.2114243092
## 222
         0.50371854
                      1.3947890969
##
  223
         0.57038707
                      1.5001253818
## 224
         0.47326978
                      1.3466800623
##
  227
         0.41718838
                      1.2580714571
## 230
         0.23243980
                      0.9661686985
## 231
         0.45768140
                      1.3220504237
## 232
         0.36278339
                      1.1721115593
## 233
                      1.7647875429
         0.73789477
## 234
         0.42021498
                      1.2628534827
## 237
         0.52499017
                      1.4283982844
## 240
         0.43607096
                      1.2879059251
##
  241
         0.40921431
                      0.8527308681
##
  242
         0.38946528
                      0.8215273998
## 243
         1.56539075
                      2.6794896355
## 244
                      1.2564420205
         0.66472770
## 245
         0.64616691
                      1.2271159690
## 246
         0.78062160
                      1.4395543823
                      0.9702661679
## 247
         0.48360374
##
  248
         0.38000186
                      0.8065751852
## 249
         0.81742479
                      1.4977034172
## 250
         0.88565980
                      1.6055147371
## 251
         0.78508926
                      1.4466132817
## 252
         1.07131540 1.8988505931
```

```
## 253
         0.78974393
                     1.4539676649
  254
##
         0.91710132
                      1.6551923433
##
   255
         0.47348689
                      0.9542815391
   256
##
         0.53191311
                      1.0465949611
##
   257
         0.63425994
                      1.2083029583
##
  258
         0.32076202
                      0.7129762451
##
  259
         0.34819245
                      0.7563163170
## 260
         0.66175519
                      1.2517454569
##
  261
         0.44253916
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##
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                      1.4864873386
## 2295
         0.59670577
                      1.2669681272
## 2297
         0.53091347
                      1.1630163082
## 2299
         0.69337833
                      1.4197107828
## 2300
         0.46176998
                      1.0537695937
         0.70533758
## 2301
                      1.4386063932
         0.54713841
## 2302
                      1.1886517056
                      0.9335946043
## 2303
         0.38570986
## 2304
         0.48811677
                      1.0953975168
## 2305
         0.47276286
                      1.0711383433
##
  2307
         0.55702995
                      1.2042803384
## 2309
         0.68320346
                      1.4036344904
## 2310
         0.39318759
                      0.9454094022
## 2311
         0.52736269
                      1.1574060628
## 2312
         0.31147650
                      0.8163058818
## 2313
         1.25934941
                      2.3139450822
## 2314
         0.38659311
                      0.9349901324
## 2315
         0.85446617
                      1.6742295687
## 2317
         0.83250087
                      1.6395243975
## 2319
         0.53545460
                      1.1701912847
## 2320
         0.38833957
                      0.9377495448
## 2321
         0.44479395
                      1.0269474609
         1.37090070
## 2322
                      2.4901961316
## 2323
         0.37671428
                      0.9193815817
## 2324
         0.39447399
                      0.9474419167
## 2325
         0.50812493
                      1.1270104141
## 2327
         0.94745842
                      1.8211573147
         0.96972001
## 2329
                      1.8563306302
## 2330
         0.49111991
                      1.1001424728
## 2331
         0.66498583
                      1.3748506322
## 2332
         0.68160095
                      1.4011025246
  2333
         0.90363438
                      1.7519153353
##
   2334
         0.38100761
                      0.9261650355
## 2335
         0.44226877
                      1.0229576796
## 2337
         0.76251300
                      1.5289435508
## 2339
         0.68342760
                      1.4039886232
## 2340
        0.42605789 0.9973444885
```

```
1.3650857123
## 2355
         0.65880550
## 2357
         0.43358630
                      1.0092393781
## 2359
         1.06944411
                      2.0138947107
## 2360
         0.96760291
                      1.8529856114
## 2361
         0.69280432
                      1.4188038391
## 2362
         0.24982157
                      0.7188910986
## 2363
         0.44651618
                      1.0296685884
## 2364
         1.58273662
                      2.8248968778
## 2365
         0.42477553
                      0.9953183551
         0.55323033
## 2367
                      1.1982769388
## 2369
         0.58643240
                      1.2507362176
## 2370
         0.69534042
                      1.4228108788
## 2371
         0.40571530
                      0.9652031977
## 2372
         0.46493841
                      1.0587757135
## 2373
         0.95396563
                      1.8314387145
## 2374
         0.50450592
                      1.1212923741
## 2375
         0.42330183
                      0.9929899119
## 2377
         0.60362077
                      1.2778938308
## 2379
         0.78445137
                      1.5636061752
## 2380
         0.49066385
                      1.0994218966
  2381
         1.26998464
                      2.3307487418
## 2382
         0.36166236
                      0.8955995394
  2383
         0.77045459
                      1.5414912662
## 2384
         0.47609766
                      1.0764073200
## 2385
         1.26294397
                      2.3196244847
## 2387
         0.70842425
                      1.4434833366
## 2389
         0.45364841
                      1.0409375116
## 2390
         0.30841245
                      0.8114646854
## 2391
         0.28810241
                      0.7793748313
## 2392
         0.64001497
                      1.3353966692
## 2393
         0.76296797
                      1.5296624155
         1.05022510
## 2394
                      1.9835286817
## 2395
         0.49348410
                      1.1038778945
## 2397
         0.31027572
                      0.8144086632
## 2399
         0.69693303
                      1.4253272111
## 2400
         0.69668660
                      1.4249378491
# We are not just limited to one condition either: we can get two conditions
# Here we get data where people are aged between 25+ and less than 40
dataByAge3 <- select(filter(data, age>25 & age<40), RT_day1) # you could do the same thing using 'selec
Sometimes you might also want to get a quick table with descriptive stats, summarising things by group
```

## 2341

## 2342

## 2343

## 2344

## 2345

## 2347

## 2349

## 2350

## 2351

## 2352

## 2353

## 2354

0.60999110

0.38795623

0.65605344

0.77439127

1.54229537

0.50287321

0.95926289

0.53905784

0.54828892

0.81254524

0.65222390

1.75209258

1.2879589554 0.9371438638

1.3607374523

1.5477112239

2.7609996963

1.1187126919

1.8398083842

1.1758844094

1.1904695129

1.6079944994

1.3546867771

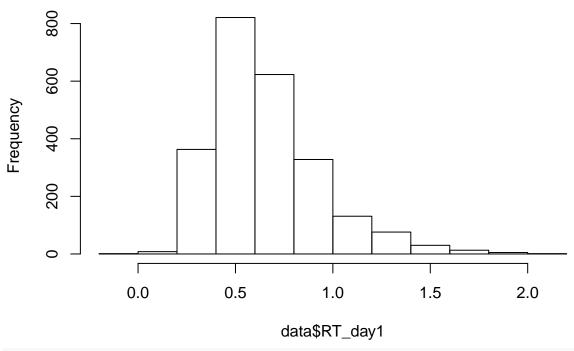
3.0924792879

```
# ----- Using summary functiion -----
# 'summary' can give us some useful stats
# ----- Using the psych package -----
library("psych")
descriptives <- describeBy(data, group=data$group) # descriptive stats
# ----- Using aggregate -----
# Aggregate takes a formula, which works in this order:
# formula = thing_todo_stats_on ~ grouping variables sep by '+'
\# below, I am doing stats on RT_day1 and I am
# grouping or separating by group and difficulty
# Aggregate also takes the thing you want to use, i.e. the data frame
# and you also need to include a function - i.e. what you want to do with
# the data, e.g. calculate the mean
aggData <- aggregate(formula = RT_day1 ~ difficulty + group,</pre>
                   data = data,
                   FUN = mean)
# -----s-----s-----
# Arrange gets your data frame and organises it by
# a specific variable
arrangedData <- arrange(data, data$subj_no)</pre>
arrangedData <- arrange(data, data$group)</pre>
            Tasks
# 1. Try getting the summary of 'data' - summary takes an argument
# of the data frame you want stats on
summary(data$RT_day1)
##
      Min. 1st Qu. Median
                               Mean 3rd Qu.
                                                 Max.
## -0.05196 0.45482 0.60218 0.65573 0.79285 2.06703
# 2. Aggregate data by Av.SSRT for each 'ageBand' and 'group'
# and take the sd
# ----- Using pipes -----
# Pipes are signified by '%>%' - they allow us to take
# the data, do stuff with it, and then 'pass' it to another
# step without having to store the result of each step as
# an 'intermediate' variable
# This pipe takes data, gets only the rows where gender is 1
# it then gets rid of any rows with 'NA' / missing values
# takes the result of that step, and gets a column labelled
# Av.SSRT for *only* rows which passed the other earlier steps
```

```
temp <- data %>% # handball the data to the next step - filter by gender
  filter(!is.na(group == 1)) %>% # handball the group == 1 rows to the next step
  select(RT_day1) %>%
 na.omit(RT_day1)
# Get the rows where gender==1 and get values for each row, from column labelled 'Av.SSRT'
# The final result after it's been handballed everywhere is sent to 'temp'
#
                 Tasks
# 1. Run the same as above *but*
# - take data
# - filter for ages > 20
# select RT.qo
# take the mean of RT.go after you are done
library("tidyr")
temp <- data %>%
 na.omit(select(group, RT_day1, RT_day1)) %>%
 group_by(group) %>%
 summarise(RT = mean(RT_day1), mean(RT_day1))
                Task
# -----
# 1. Subset the data (any way you like) by subject and
# get the mean of go and nogo RT's for each subject in a table
subj_aggData1 <- aggregate(formula = RT_day1 ~ subj_no,</pre>
         data = data,
         FUN = mean)
subj_aggData1
##
     subj_no RT_day1
     1 0.6711149
## 1
## 2
          2 0.6633923
## 3
          3 0.6568141
## 4
          4 0.6720416
## 5
         5 0.6588955
         6 0.6444954
## 6
## 7
         7 0.6340227
## 8
          8 0.6584860
## 9
          9 0.6519945
        10 0.6460713
## 10
# What if we want this for both RT_day1 and RT_day2
# There are easier ways to do this
subj_aggData2 <- aggregate(formula = RT_day2 ~ subj_no,</pre>
         data = data,
         FUN = mean)
subj_aggData1
     subj_no RT_day1
##
## 1 1 0.6711149
```

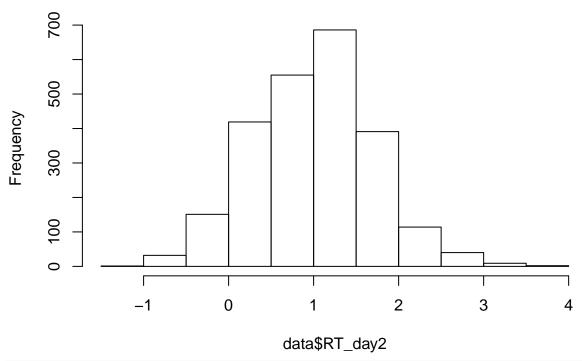
```
2 0.6633923
## 2
## 3
          3 0.6568141
## 4
          4 0.6720416
## 5
          5 0.6588955
## 6
           6 0.6444954
## 7
           7 0.6340227
## 8
           8 0.6584860
           9 0.6519945
## 9
## 10
           10 0.6460713
# We can put these two into a data frame together
RT_summary_data <- data.frame(cbind(</pre>
  subj_no = subj_aggData1[,1], # subject no
  subj_no = subj_aggData1[,2], # RT_day1
  subj_aggData1[,2])) # RT_day2
# But there is another way to do this
RT_data <- ddply(data, .(subj_no), function(data){</pre>
  # We now just have only subject data in this container
  # We are going to make a new data frame that puts all of the things
  # we want on it
  RT_data <- data.frame(</pre>
    mean_day1 = mean(data$RT_day1),
    sd_day1 = sd(data$RT_day1),
    mean_RT_day2 = mean(data$RT_day2),
    sd_day2 = sd(data$RT_day2))
  return(RT_data)})
# Let's create some histograms
hist(data$RT_day1)
```

## Histogram of data\$RT\_day1



hist(data\$RT\_day2)

## Histogram of data\$RT\_day2

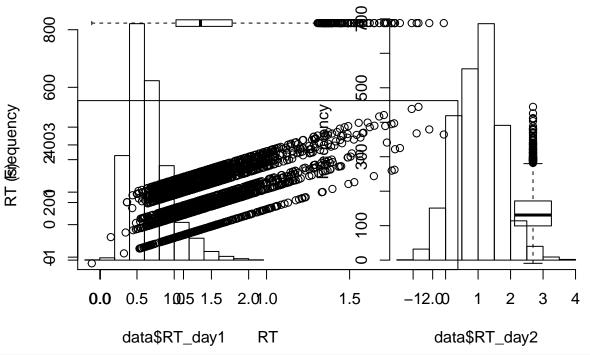


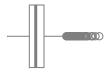
# What if we want these on the same panel?
par(mfrow=c(1,2))
hist(data\$RT\_day1)

```
hist(data$RT_day2)

# Let's attach a boxplot to a scatterplot
par(fig=c(0,0.8,0,0.8), new=TRUE)
plot(data$RT_day1,data$RT_day2, xlab="RT",
    ylab="RT (s)")
par(fig=c(0,0.8,0.55,1), new=TRUE)
boxplot(data$RT_day1, horizontal=TRUE, axes=FALSE)
par(fig=c(0.65,1,0,0.8),new=TRUE)
boxplot(data$RT_day1, axes=FALSE)
mtext("Scatterplot", side=3, outer=TRUE, line=-3)
```

# Histogram of data\$RT\_day1\_day2



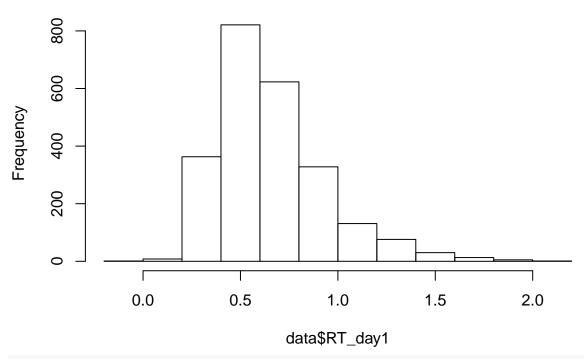


RT\_day1

Statistical tests - here we are going to run a t-test, ANOVA and regression

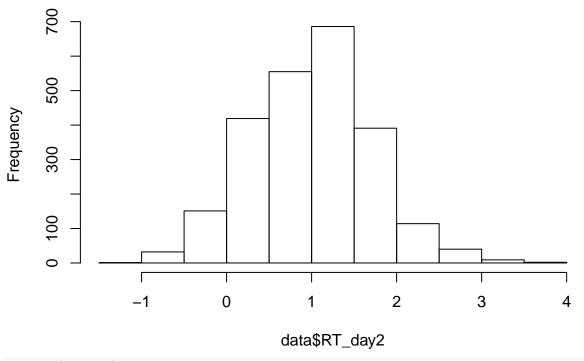
# Check the distribution for each of the groups
hist(data\$RT\_day1)

## Histogram of data\$RT\_day1



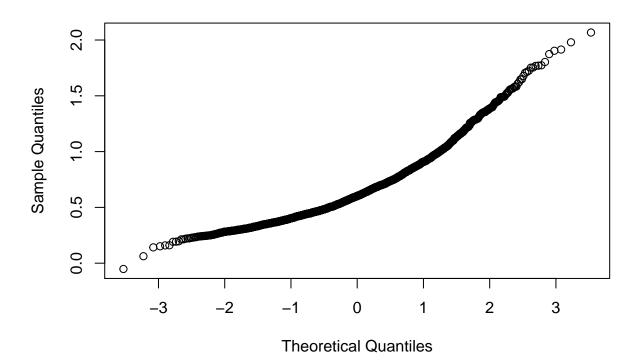
hist(data\$RT\_day2)

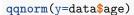
# Histogram of data\$RT\_day2



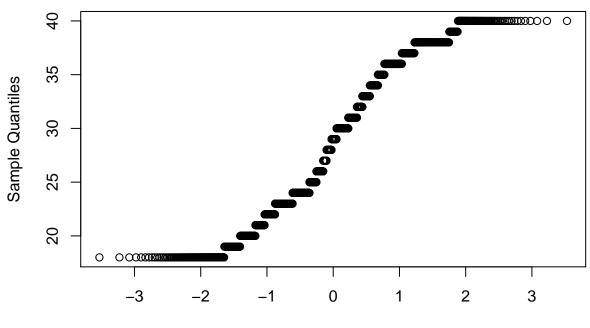
library("stats")
qqnorm(y=data\$RT\_day1)

#### Normal Q-Q Plot

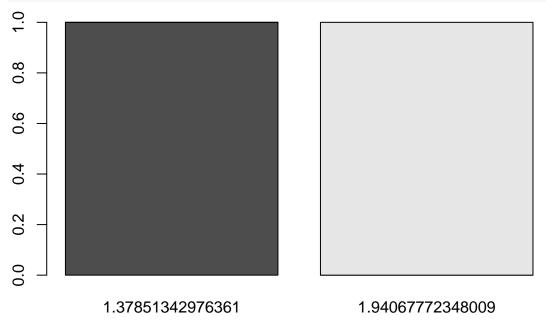




#### Normal Q-Q Plot



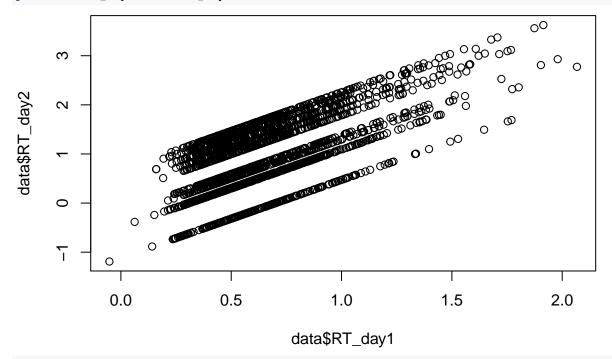
#### **Theoretical Quantiles**



```
# install.packages("gplots") # uncomment this
library("gplots")
##
## Attaching package: 'gplots'
## The following object is masked from 'package:stats':
##
##
       lowess
plotmeans(formula = RT_day1 ~ group,
          data = data,
          xlab = "Group 1 = Sz, 2 = Control",
          ylab = "RT_day1",
          n.label = TRUE) # don't display sample size
     0.670
     0.660
     0.650
     0.640
                           n=1200
                                                              n=1200
                                                                 2
                                   Group 1 = Sz, 2 = Control
# install.packages("broom") # uncomment this
# Perform t-test
library('broom')
## Warning: package 'broom' was built under R version 3.4.4
# Run a t-test - the default is to run a t-test that assumes unequal variances (Welsh)
test_output <- t.test(formula = data$RT_day1 ~ data$group, data = data)</pre>
# Task: run 'tidy' on output of t-test
tidy_test_ouput <- tidy(test_output)</pre>
\# Run a student's t-test - add var.equal = TRUE
t.test(formula = RT_day2 ~ group, data = data,
var.equal = TRUE)
##
##
    Two Sample t-test
```

##

```
## data: RT_day2 by group
## t = -21.339, df = 2398, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
   -0.6112809 -0.5083897
## sample estimates:
## mean in group 1 mean in group 2
         0.7239451
                         1.2837804
##
# Run an ANOVA
anova_test <- aov(RT_day2 ~ group + difficulty, data = data)</pre>
summary(anova_test)
                 Df Sum Sq Mean Sq F value Pr(>F)
##
## group
                  1 188.0 188.05
                                     578.6 <2e-16 ***
                  1 211.2 211.20
                                     649.8 <2e-16 ***
## difficulty
## Residuals
               2397 779.1
                              0.33
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
tidy(anova_test)
##
                  df
           term
                        sumsq
                                   meansq statistic
                                                          p.value
                   1 188.0493 188.0493411 578.5683 1.060505e-114
          group
## 2 difficulty
                   1 211.2039 211.2038588 649.8074 4.907180e-127
## 3 Residuals 2397 779.0857
                                0.3250253
                                                 NA
Correlations
plot(data$RT_day1, data$RT_day2)
```



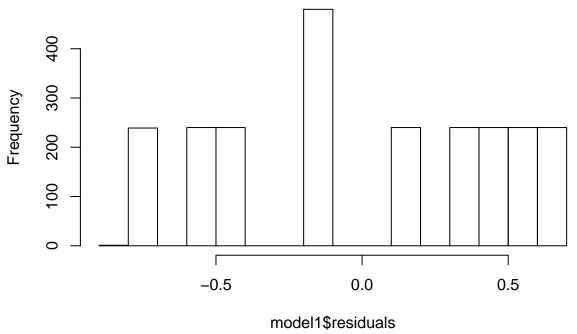
cor(data\$RT\_day1, data\$RT\_day2, use="complete.obs", method="pearson")

## [1] 0.6290044

Regression: to run a regression, you need to place a formula in

```
# install.packages("broom")
library('broom') # allows you to use 'tidy' functions which clean up messy R output
# Create a regression model
# When R runs the regression model, it creates a list of all of the sections of outputatt
model1 <- lm(data$RT_day2 ~ data$group +data$RT_day1)</pre>
# lm.beta
# Let's have a look at what the sections of the list there are from running the regression model
attributes(model1)
## $names
## [1] "coefficients" "residuals"
                                         "effects"
                                                         "rank"
   [5] "fitted.values" "assign"
                                                         "df.residual"
                                                         "model"
  [9] "xlevels"
                        "call"
                                         "terms"
##
## $class
## [1] "lm"
# --- Plot residuals --
hist(model1$residuals)
```

#### Histogram of model1\$residuals



```
# --- Get some neat output ----
tidy(model1)
```

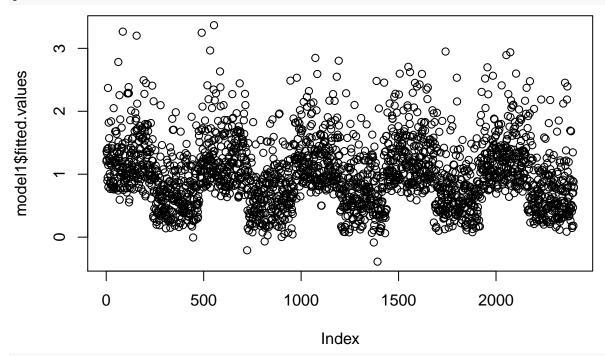
```
## term estimate std.error statistic p.value

## 1 (Intercept) -0.8636475 0.03762483 -22.95419 1.446530e-105

## 2 data$group 0.5561654 0.01913426 29.06647 2.232459e-159

## 3 data$RT_day1 1.5757365 0.03429473 45.94690 0.000000e+00
```

# --- Plot predictions from the model ---plot(model1\$fitted.values)



# -----