Codes

2022-12-31

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Only i will write the codes, she explaned about how to connect Rstudio with Git.

How to call library:

library(ggplot2)  
library(tinytex)

## Warning: package 'tinytex' was built under R version 4.2.2

"how to call function in Library"

## [1] "how to call function in Library"

"to get working directoy:"

## [1] "to get working directoy:"

getwd()

## [1] "F:/Rstudio\_Work\_Station/My new R courseBatool/Zero-to-hero-in-R"

"اقدر اكتب بالعربي"

## [1] "اقدر اكتب بالعربي"

"في نفس الشنك فيه يمين فوق علامه اعدادات فيها خيارات اتحكم في الشنك"

## [1] "في نفس الشنك فيه يمين فوق علامه اعدادات فيها خيارات اتحكم في الشنك"

"عدلتها من اعدادت الشنك اني اخليها ينفذ الكود و يظهر لي المخرجات"

## [1] "عدلتها من اعدادت الشنك اني اخليها ينفذ الكود و يظهر لي المخرجات"

"if i writr like this: ##some thing, the text will be bigger in Knit"

## [1] "if i writr like this: ##some thing, the text will be bigger in Knit"

"numberical: 12.5  
integer : 5  
string: حروف  
factor: male  
logical: True,false"

## [1] "numberical: 12.5\ninteger : 5\nstring: حروف\nfactor: male\nlogical: True,false"

x <- 5  
typeof(x)

## [1] "double"

y <- "Omar"  
typeof(y)

## [1] "character"

A <- "55"  
typeof(A)

## [1] "character"

is.character(y)

## [1] TRUE

is.double(y)

## [1] FALSE

Q <- FALSE  
typeof(Q)

## [1] "logical"

w <- 2/0  
  
w

## [1] Inf

# use c , type of,

v <- c(1,2.5,4,6)  
typeof(v)

## [1] "double"

M <- c(2.2,3,"A","b")  
typeof(M)

## [1] "character"

"الأولويه للأسترنج"

## [1] "الأولويه للأسترنج"

DS <- c(TRUE,3,7.2)  
typeof(DS)

## [1] "double"

# sequence data and using ?,?? fro exploaring libraryes

"عشان اعرف عن مكتبه و طريقه استخدامها لازم اكتب استفهام و اسم المكتبه في الكونسول الي تحت هذي النافذه"

## [1] "عشان اعرف عن مكتبه و طريقه استخدامها لازم اكتب استفهام و اسم المكتبه في الكونسول الي تحت هذي النافذه"

?seq

## starting httpd help server ... done

??seq  
  
  
DSD <- seq(1:20)  
FDS <- seq(4,20, by=2)

#change the data type,“the below code make me able to change the data type from double to integer, just use: as.type of data i want”

typeof(5)

## [1] "double"

as.integer(x)

## [1] 5

Dateee <- 1-1-2023  
typeof(Dateee)

## [1] "double"

as.character.Date(Dateee)

## [1] "-2023"

#explain

"  
3\*\*9 :  
ثلاثه اوس تسعه  
Sqrt(9) = 3 :  
الجذر  
3+3\*5 = 18  
هنا الاولوليه للضرب  
اذا حاب اجمع او ف اسوي كذى:  
(3+5)\*3  
-  
Titoruial ((تدريب عملي من نفس الار ستوديو ، يكون محله جمب المتغيرا الي نعرفه فوق يمين  
  
"

## [1] "\n3\*\*9 :\nثلاثه اوس تسعه\nSqrt(9) = 3 :\nالجذر\n3+3\*5 = 18\nهنا الاولوليه للضرب\nاذا حاب اجمع او ف اسوي كذى:\n(3+5)\*3\n-\nTitoruial ((تدريب عملي من نفس الار ستوديو ، يكون محله جمب المتغيرا الي نعرفه فوق يمين\n\n"

#explain

"here pacage: it is make me able to open my project from multible devices with out mistakes in working directory  
"

## [1] "here pacage: it is make me able to open my project from multible devices with out mistakes in working directory\n"

##import data

library(tidyverse)

## ── Attaching packages ─────────────────────────────────────── tidyverse 1.3.2 ──  
## ✔ tibble 3.1.8 ✔ dplyr 1.0.10  
## ✔ tidyr 1.2.1 ✔ stringr 1.5.0   
## ✔ readr 2.1.2 ✔ forcats 0.5.1   
## ✔ purrr 0.3.4

## Warning: package 'tidyr' was built under R version 4.2.2

## Warning: package 'dplyr' was built under R version 4.2.2

## Warning: package 'stringr' was built under R version 4.2.2

## ── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
## ✖ dplyr::filter() masks stats::filter()  
## ✖ dplyr::lag() masks stats::lag()

library(here)

## here() starts at F:/Rstudio\_Work\_Station/My new R courseBatool/Zero-to-hero-in-R

read\_csv(here("data","SAFI\_clean.csv"))

## Rows: 131 Columns: 14  
## ── Column specification ────────────────────────────────────────────────────────  
## Delimiter: ","  
## chr (7): village, respondent\_wall\_type, memb\_assoc, affect\_conflicts, items...  
## dbl (6): key\_ID, no\_membrs, years\_liv, rooms, liv\_count, no\_meals  
## dttm (1): interview\_date  
##   
## ℹ Use `spec()` to retrieve the full column specification for this data.  
## ℹ Specify the column types or set `show\_col\_types = FALSE` to quiet this message.

## # A tibble: 131 × 14  
## key\_ID village interview\_date no\_membrs years\_liv respo…¹ rooms memb\_…²  
## <dbl> <chr> <dttm> <dbl> <dbl> <chr> <dbl> <chr>   
## 1 1 God 2016-11-17 00:00:00 3 4 muddaub 1 NULL   
## 2 1 God 2016-11-17 00:00:00 7 9 muddaub 1 yes   
## 3 3 God 2016-11-17 00:00:00 10 15 burntb… 1 NULL   
## 4 4 God 2016-11-17 00:00:00 7 6 burntb… 1 NULL   
## 5 5 God 2016-11-17 00:00:00 7 40 burntb… 1 NULL   
## 6 6 God 2016-11-17 00:00:00 3 3 muddaub 1 NULL   
## 7 7 God 2016-11-17 00:00:00 6 38 muddaub 1 no   
## 8 8 Chirodzo 2016-11-16 00:00:00 12 70 burntb… 3 yes   
## 9 9 Chirodzo 2016-11-16 00:00:00 8 6 burntb… 1 no   
## 10 10 Chirodzo 2016-12-16 00:00:00 12 23 burntb… 5 no   
## # … with 121 more rows, 6 more variables: affect\_conflicts <chr>,  
## # liv\_count <dbl>, items\_owned <chr>, no\_meals <dbl>, months\_lack\_food <chr>,  
## # instanceID <chr>, and abbreviated variable names ¹​respondent\_wall\_type,  
## # ²​memb\_assoc  
## # ℹ Use `print(n = ...)` to see more rows, and `colnames()` to see all variable names

Datafile <- read.csv(here("data","SAFI\_clean.csv"), na = "NULL")

#“data type:”

glimpse(Datafile)

## Rows: 131  
## Columns: 14  
## $ key\_ID <int> 1, 1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15…  
## $ village <chr> "God", "God", "God", "God", "God", "God", "God", …  
## $ interview\_date <chr> "2016-11-17T00:00:00Z", "2016-11-17T00:00:00Z", "…  
## $ no\_membrs <int> 3, 7, 10, 7, 7, 3, 6, 12, 8, 12, 6, 7, 6, 10, 5, …  
## $ years\_liv <int> 4, 9, 15, 6, 40, 3, 38, 70, 6, 23, 20, 20, 8, 20,…  
## $ respondent\_wall\_type <chr> "muddaub", " muddaub", " burntbricks", " burntbri…  
## $ rooms <int> 1, 1, 1, 1, 1, 1, 1, 3, 1, 5, 1, 3, 1, 3, 2, 1, 1…  
## $ memb\_assoc <chr> NA, "yes", NA, NA, NA, NA, "no", "yes", "no", "no…  
## $ affect\_conflicts <chr> NA, "once", NA, NA, NA, NA, "never", "never", "ne…  
## $ liv\_count <int> 1, 3, 1, 2, 4, 1, 1, 2, 3, 2, 2, 2, 3, 3, 3, 4, 1…  
## $ items\_owned <chr> "bicycle;television;solar\_panel;table", "cow\_cart…  
## $ no\_meals <int> 2, 2, 2, 2, 2, 2, 3, 2, 3, 3, 2, 3, 2, 3, 2, 3, 2…  
## $ months\_lack\_food <chr> "Jan", "Jan;Sept;Oct;Nov;Dec", "Jan;Feb;Mar;Oct;N…  
## $ instanceID <chr> "uuid:ec241f2c-0609-46ed-b5e8-fe575f6cefef", "uui…

Datafile$no\_membrs

## [1] 3 7 10 7 7 3 6 12 8 12 6 7 6 10 5 6 8 4 9 6 8 4 10 6 11  
## [26] 3 7 2 7 7 3 19 8 8 5 6 3 10 6 9 7 8 7 2 9 10 2 7 6 6  
## [51] 5 11 8 7 9 12 4 11 2 8 10 5 4 6 8 10 5 8 4 8 6 4 5 10 5  
## [76] 4 5 10 7 11 7 7 5 5 7 5 3 4 12 6 7 17 5 7 5 3 6 12 6 5  
## [101] 14 6 15 4 6 11 5 5 3 4 15 5 10 7 10 7 4 7 9 11 8 12 7 15 10  
## [126] 9 3 7 4 7 8

no\_of\_member <- Datafile$no\_membrs  
  
view(no\_of\_member)  
"showed what is unique in the data"

## [1] "showed what is unique in the data"

unique(no\_of\_member)

## [1] 3 7 10 6 12 8 5 4 9 11 2 19 17 14 15

unique(Datafile)

## key\_ID village interview\_date no\_membrs years\_liv  
## 1 1 God 2016-11-17T00:00:00Z 3 4  
## 2 1 God 2016-11-17T00:00:00Z 7 9  
## 3 3 God 2016-11-17T00:00:00Z 10 15  
## 4 4 God 2016-11-17T00:00:00Z 7 6  
## 5 5 God 2016-11-17T00:00:00Z 7 40  
## 6 6 God 2016-11-17T00:00:00Z 3 3  
## 7 7 God 2016-11-17T00:00:00Z 6 38  
## 8 8 Chirodzo 2016-11-16T00:00:00Z 12 70  
## 9 9 Chirodzo 2016-11-16T00:00:00Z 8 6  
## 10 10 Chirodzo 2016-12-16T00:00:00Z 12 23  
## 11 11 God 2016-11-21T00:00:00Z 6 20  
## 12 12 God 2016-11-21T00:00:00Z 7 20  
## 13 13 God 2016-11-21T00:00:00Z 6 8  
## 14 14 God 2016-11-21T00:00:00Z 10 20  
## 15 15 God 2016-11-21T00:00:00Z 5 30  
## 16 16 God 2016-11-24T00:00:00Z 6 47  
## 17 17 God 2016-11-21T00:00:00Z 8 20  
## 18 18 God 2016-11-21T00:00:00Z 4 20  
## 19 19 God 2016-11-21T00:00:00Z 9 23  
## 20 20 God 2016-11-21T00:00:00Z 6 1  
## 21 21 God 2016-11-21T00:00:00Z 8 20  
## 22 22 God 2016-11-21T00:00:00Z 4 20  
## 23 23 Ruaca 2016-11-21T00:00:00Z 10 20  
## 24 24 Ruaca 2016-11-21T00:00:00Z 6 4  
## 25 25 Ruaca 2016-11-21T00:00:00Z 11 6  
## 26 26 Ruaca 2016-11-21T00:00:00Z 3 20  
## 27 27 Ruaca 2016-11-21T00:00:00Z 7 36  
## 28 28 Ruaca 2016-11-21T00:00:00Z 2 2  
## 29 29 Ruaca 2016-11-21T00:00:00Z 7 10  
## 30 30 Ruaca 2016-11-21T00:00:00Z 7 22  
## 31 31 Ruaca 2016-11-21T00:00:00Z 3 2  
## 32 32 Ruaca 2016-11-21T00:00:00Z 19 69  
## 33 33 Ruaca 2016-11-21T00:00:00Z 8 34  
## 34 34 Chirodzo 2016-11-17T00:00:00Z 8 18  
## 35 35 Chirodzo 2016-11-17T00:00:00Z 5 45  
## 36 36 Chirodzo 2016-11-17T00:00:00Z 6 23  
## 37 37 Chirodzo 2016-11-17T00:00:00Z 3 8  
## 38 38 God 2016-11-17T00:00:00Z 10 19  
## 39 39 God 2016-11-17T00:00:00Z 6 22  
## 40 40 God 2016-11-17T00:00:00Z 9 23  
## 41 41 God 2016-11-17T00:00:00Z 7 22  
## 42 42 God 2016-11-17T00:00:00Z 8 8  
## 43 43 Chirodzo 2016-11-17T00:00:00Z 7 29  
## 44 44 Chirodzo 2016-11-17T00:00:00Z 2 6  
## 45 45 Chirodzo 2016-11-17T00:00:00Z 9 7  
## 46 46 Chirodzo 2016-11-17T00:00:00Z 10 42  
## 47 47 Chirodzo 2016-11-17T00:00:00Z 2 2  
## 48 48 Chirodzo 2016-11-16T00:00:00Z 7 58  
## 49 49 Chirodzo 2016-11-16T00:00:00Z 6 26  
## 50 50 Chirodzo 2016-11-16T00:00:00Z 6 7  
## 51 51 Chirodzo 2016-11-16T00:00:00Z 5 30  
## 52 52 Chirodzo 2016-11-16T00:00:00Z 11 15  
## 53 21 Chirodzo 2016-11-16T00:00:00Z 8 16  
## 54 54 Chirodzo 2016-11-16T00:00:00Z 7 15  
## 55 55 Chirodzo 2016-11-16T00:00:00Z 9 23  
## 56 56 Chirodzo 2016-11-16T00:00:00Z 12 23  
## 57 57 Chirodzo 2016-11-16T00:00:00Z 4 27  
## 58 58 Chirodzo 2016-11-16T00:00:00Z 11 45  
## 59 59 Chirodzo 2016-11-16T00:00:00Z 2 60  
## 60 60 Chirodzo 2016-11-16T00:00:00Z 8 15  
## 61 61 Chirodzo 2016-11-16T00:00:00Z 10 14  
## 62 62 Chirodzo 2016-11-16T00:00:00Z 5 5  
## 63 63 Chirodzo 2016-11-16T00:00:00Z 4 10  
## 64 64 Chirodzo 2016-11-16T00:00:00Z 6 1  
## 65 65 Chirodzo 2016-11-16T00:00:00Z 8 20  
## 66 66 Chirodzo 2016-11-16T00:00:00Z 10 37  
## 67 67 Chirodzo 2016-11-16T00:00:00Z 5 31  
## 68 68 Chirodzo 2016-11-16T00:00:00Z 8 52  
## 69 69 Chirodzo 2016-11-16T00:00:00Z 4 12  
## 70 70 Chirodzo 2016-11-16T00:00:00Z 8 25  
## 71 71 Ruaca 2016-11-18T00:00:00Z 6 14  
## 72 127 Chirodzo 2016-11-16T00:00:00Z 4 18  
## 73 133 Ruaca 2016-11-23T00:00:00Z 5 25  
## 74 152 Ruaca 2016-11-24T00:00:00Z 10 16  
## 75 153 Ruaca 2016-11-24T00:00:00Z 5 41  
## 76 155 God 2016-11-24T00:00:00Z 4 4  
## 77 178 Ruaca 2016-11-25T00:00:00Z 5 79  
## 78 177 God 2016-11-25T00:00:00Z 10 13  
## 79 180 Ruaca 2016-11-25T00:00:00Z 7 50  
## 80 181 God 2016-11-25T00:00:00Z 11 25  
## 81 182 God 2016-11-25T00:00:00Z 7 21  
## 82 186 God 2016-11-28T00:00:00Z 7 24  
## 83 187 God 2016-11-28T00:00:00Z 5 43  
## 84 195 God 2016-11-28T00:00:00Z 5 48  
## 85 196 God 2016-11-28T00:00:00Z 7 49  
## 86 197 God 2016-11-28T00:00:00Z 5 19  
## 87 198 God 2016-11-28T00:00:00Z 3 49  
## 88 201 God 2016-11-21T00:00:00Z 4 6  
## 89 202 God 2016-11-17T00:00:00Z 12 12  
## 90 72 Ruaca 2017-04-26T00:00:00Z 6 24  
## 91 73 Ruaca 2017-04-26T00:00:00Z 7 9  
## 92 76 Ruaca 2017-04-26T00:00:00Z 17 48  
## 93 83 Ruaca 2017-04-27T00:00:00Z 5 22  
## 94 85 Ruaca 2017-04-27T00:00:00Z 7 40  
## 95 89 God 2017-04-27T00:00:00Z 5 10  
## 96 101 God 2017-04-27T00:00:00Z 3 4  
## 97 103 Ruaca 2017-04-27T00:00:00Z 6 96  
## 98 102 Ruaca 2017-04-28T00:00:00Z 12 15  
## 99 78 Ruaca 2017-04-28T00:00:00Z 6 48  
## 100 80 Ruaca 2017-04-28T00:00:00Z 5 12  
## 101 104 Ruaca 2017-04-28T00:00:00Z 14 52  
## 102 105 Ruaca 2017-04-28T00:00:00Z 6 40  
## 103 106 God 2017-04-30T00:00:00Z 15 22  
## 104 109 God 2017-05-03T00:00:00Z 4 12  
## 105 110 Ruaca 2017-05-03T00:00:00Z 6 22  
## 106 113 Ruaca 2017-05-03T00:00:00Z 11 26  
## 107 118 Ruaca 2017-05-04T00:00:00Z 5 25  
## 108 125 Ruaca 2017-05-04T00:00:00Z 5 14  
## 109 119 Ruaca 2017-05-04T00:00:00Z 3 14  
## 110 115 Ruaca 2017-05-11T00:00:00Z 4 16  
## 111 108 God 2017-05-11T00:00:00Z 15 22  
## 112 116 Ruaca 2017-05-11T00:00:00Z 5 25  
## 113 117 Ruaca 2017-05-11T00:00:00Z 10 28  
## 114 144 Ruaca 2017-05-18T00:00:00Z 7 5  
## 115 143 Ruaca 2017-05-18T00:00:00Z 10 24  
## 116 150 Ruaca 2017-05-18T00:00:00Z 7 8  
## 117 159 God 2017-05-18T00:00:00Z 4 24  
## 118 160 God 2017-06-03T00:00:00Z 7 13  
## 119 165 Ruaca 2017-06-03T00:00:00Z 9 14  
## 120 166 Ruaca 2017-06-03T00:00:00Z 11 16  
## 121 167 Ruaca 2017-06-03T00:00:00Z 8 24  
## 122 174 Ruaca 2017-06-03T00:00:00Z 12 25  
## 123 175 Ruaca 2017-06-03T00:00:00Z 7 36  
## 124 189 Ruaca 2017-06-03T00:00:00Z 15 16  
## 125 191 Ruaca 2017-06-03T00:00:00Z 10 5  
## 126 192 Chirodzo 2017-06-03T00:00:00Z 9 20  
## 127 126 Ruaca 2017-05-18T00:00:00Z 3 7  
## 128 193 Ruaca 2017-06-04T00:00:00Z 7 10  
## 129 194 Ruaca 2017-06-04T00:00:00Z 4 5  
## 130 199 Chirodzo 2017-06-04T00:00:00Z 7 17  
## 131 200 Chirodzo 2017-06-04T00:00:00Z 8 20  
## respondent\_wall\_type rooms memb\_assoc affect\_conflicts liv\_count  
## 1 muddaub 1 <NA> <NA> 1  
## 2 muddaub 1 yes once 3  
## 3 burntbricks 1 <NA> <NA> 1  
## 4 burntbricks 1 <NA> <NA> 2  
## 5 burntbricks 1 <NA> <NA> 4  
## 6 muddaub 1 <NA> <NA> 1  
## 7 muddaub 1 no never 1  
## 8 burntbricks 3 yes never 2  
## 9 burntbricks 1 no never 3  
## 10 burntbricks 5 no never 2  
## 11 sunbricks 1 <NA> <NA> 2  
## 12 burntbricks 3 yes never 2  
## 13 burntbricks 1 no never 3  
## 14 burntbricks 3 <NA> <NA> 3  
## 15 sunbricks 2 yes once 3  
## 16 muddaub 1 <NA> <NA> 4  
## 17 sunbricks 1 <NA> <NA> 1  
## 18 muddaub 1 <NA> <NA> 3  
## 19 burntbricks 2 <NA> <NA> 2  
## 20 burntbricks 1 <NA> <NA> 1  
## 21 burntbricks 1 no never 3  
## 22 muddaub 1 <NA> <NA> 1  
## 23 burntbricks 4 <NA> <NA> 3  
## 24 burntbricks 2 no never 3  
## 25 burntbricks 3 no never 2  
## 26 burntbricks 2 no never 2  
## 27 burntbricks 2 <NA> <NA> 3  
## 28 muddaub 1 no more\_once 1  
## 29 burntbricks 2 yes frequently 1  
## 30 muddaub 2 <NA> <NA> 1  
## 31 muddaub 1 <NA> <NA> 1  
## 32 muddaub 2 yes more\_once 5  
## 33 muddaub 1 no more\_once 2  
## 34 burntbricks 3 yes more\_once 3  
## 35 muddaub 1 yes more\_once 2  
## 36 sunbricks 1 yes once 3  
## 37 burntbricks 1 <NA> <NA> 2  
## 38 muddaub 1 yes never 3  
## 39 muddaub 1 <NA> <NA> 1  
## 40 burntbricks 1 yes never 1  
## 41 muddaub 1 <NA> <NA> 2  
## 42 sunbricks 1 no never 3  
## 43 muddaub 1 no never 2  
## 44 muddaub 1 <NA> <NA> 3  
## 45 muddaub 1 no never 4  
## 46 burntbricks 2 no once 2  
## 47 muddaub 1 yes once 1  
## 48 muddaub 1 <NA> <NA> 3  
## 49 burntbricks 2 <NA> <NA> 2  
## 50 muddaub 1 yes never 1  
## 51 muddaub 1 <NA> <NA> 1  
## 52 burntbricks 3 no never 3  
## 53 burntbricks 3 yes frequently 2  
## 54 muddaub 1 no never 1  
## 55 muddaub 2 <NA> <NA> 1  
## 56 burntbricks 2 yes never 2  
## 57 burntbricks 1 no never 1  
## 58 burntbricks 3 no never 3  
## 59 muddaub 3 <NA> <NA> 3  
## 60 burntbricks 2 no never 4  
## 61 muddaub 1 yes more\_once 3  
## 62 muddaub 1 <NA> <NA> 1  
## 63 muddaub 1 <NA> <NA> 1  
## 64 muddaub 1 <NA> <NA> 1  
## 65 burntbricks 3 no once 3  
## 66 burntbricks 3 yes frequently 4  
## 67 burntbricks 2 no more\_once 4  
## 68 burntbricks 3 no more\_once 3  
## 69 muddaub 1 no more\_once 1  
## 70 burntbricks 2 no more\_once 4  
## 71 burntbricks 1 yes more\_once 3  
## 72 burntbricks 8 <NA> <NA> 1  
## 73 burntbricks 2 no never 5  
## 74 burntbricks 1 yes once 3  
## 75 burntbricks 1 <NA> <NA> 1  
## 76 burntbricks 1 <NA> <NA> 1  
## 77 burntbricks 2 yes frequently 3  
## 78 sunbricks 1 no more\_once 2  
## 79 muddaub 1 no never 3  
## 80 sunbricks 2 yes more\_once 3  
## 81 muddaub 3 no more\_once 2  
## 82 muddaub 1 no more\_once 2  
## 83 muddaub 2 yes more\_once 4  
## 84 burntbricks 1 no never 3  
## 85 burntbricks 2 yes more\_once 3  
## 86 burntbricks 2 no more\_once 3  
## 87 burntbricks 1 no never 1  
## 88 muddaub 2 <NA> <NA> 2  
## 89 burntbricks 4 yes more\_once 3  
## 90 muddaub 1 yes more\_once 3  
## 91 burntbricks 2 yes more\_once 3  
## 92 burntbricks 2 yes more\_once 4  
## 93 burntbricks 1 yes never 2  
## 94 sunbricks 1 no never 2  
## 95 burntbricks 2 no never 3  
## 96 muddaub 1 no never 1  
## 97 sunbricks 1 no never 5  
## 98 burntbricks 2 yes frequently 2  
## 99 burntbricks 1 no more\_once 2  
## 100 muddaub 1 no more\_once 1  
## 101 sunbricks 1 yes never 4  
## 102 sunbricks 1 yes frequently 2  
## 103 sunbricks 5 no never 2  
## 104 sunbricks 1 <NA> <NA> 3  
## 105 sunbricks 3 no never 3  
## 106 burntbricks 3 no never 4  
## 107 muddaub 1 <NA> <NA> 1  
## 108 burntbricks 1 no more\_once 2  
## 109 muddaub 1 no never 4  
## 110 sunbricks 2 <NA> <NA> 3  
## 111 burntbricks 2 no never 4  
## 112 burntbricks 3 <NA> <NA> 3  
## 113 muddaub 4 <NA> <NA> 1  
## 114 burntbricks 4 no frequently 4  
## 115 burntbricks 2 no frequently 3  
## 116 muddaub 1 no never 1  
## 117 sunbricks 1 no never 1  
## 118 burntbricks 2 yes frequently 2  
## 119 burntbricks 1 no never 3  
## 120 muddaub 1 no never 1  
## 121 muddaub 1 no never 3  
## 122 burntbricks 2 no never 3  
## 123 burntbricks 1 no never 4  
## 124 sunbricks 1 no never 3  
## 125 burntbricks 4 no never 1  
## 126 burntbricks 1 no once 1  
## 127 burntbricks 1 no more\_once 3  
## 128 cement 3 no more\_once 3  
## 129 muddaub 1 no more\_once 1  
## 130 burntbricks 2 yes more\_once 2  
## 131 burntbricks 2 <NA> <NA> 3  
## items\_owned  
## 1 bicycle;television;solar\_panel;table  
## 2 cow\_cart;bicycle;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 3 solar\_torch  
## 4 bicycle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 5 motorcyle;radio;cow\_plough;mobile\_phone  
## 6 <NA>  
## 7 motorcyle;cow\_plough  
## 8 motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;table;fridge  
## 9 television;solar\_panel;solar\_torch  
## 10 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;table  
## 11 radio;cow\_plough  
## 12 cow\_cart;bicycle;radio;cow\_plough;table  
## 13 bicycle;radio;cow\_plough;mobile\_phone  
## 14 bicycle;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 15 bicycle;radio;cow\_plough;solar\_panel;table  
## 16 radio;cow\_plough;solar\_panel;solar\_torch  
## 17 mobile\_phone  
## 18 bicycle;mobile\_phone  
## 19 bicycle;radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 20 bicycle;cow\_plough;solar\_torch  
## 21 <NA>  
## 22 radio  
## 23 cow\_cart;bicycle;television;radio;cow\_plough;solar\_panel;electricity;mobile\_phone  
## 24 radio;table;sofa\_set;mobile\_phone  
## 25 cow\_cart;motorcyle;television;radio;cow\_plough;solar\_panel;solar\_torch;table;sofa\_set;mobile\_phone  
## 26 radio;cow\_plough;table;mobile\_phone  
## 27 bicycle;radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 28 <NA>  
## 29 motorcyle;bicycle;radio;table;mobile\_phone  
## 30 bicycle;radio;mobile\_phone  
## 31 <NA>  
## 32 cow\_cart;motorcyle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 33 cow\_cart;lorry;motorcyle;sterio;cow\_plough;solar\_panel;mobile\_phone  
## 34 television;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 35 bicycle;cow\_plough  
## 36 cow\_cart;bicycle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 37 bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 38 bicycle;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 39 <NA>  
## 40 bicycle;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 41 motorcyle;bicycle;radio;cow\_plough;table  
## 42 mobile\_phone  
## 43 cow\_plough;mobile\_phone  
## 44 radio;solar\_torch  
## 45 motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 46 motorcyle;computer;television;sterio;solar\_panel;solar\_torch;table;mobile\_phone  
## 47 solar\_torch;mobile\_phone  
## 48 radio  
## 49 bicycle;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 50 solar\_torch  
## 51 radio  
## 52 motorcyle;television;radio;cow\_plough;solar\_panel;mobile\_phone  
## 53 bicycle;radio;mobile\_phone  
## 54 <NA>  
## 55 television;cow\_plough;mobile\_phone  
## 56 motorcyle;bicycle;mobile\_phone  
## 57 radio  
## 58 motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;mobile\_phone  
## 59 <NA>  
## 60 cow\_plough  
## 61 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 62 bicycle;radio;mobile\_phone  
## 63 <NA>  
## 64 bicycle;solar\_torch;table;sofa\_set;mobile\_phone  
## 65 motorcyle;radio;cow\_plough;table  
## 66 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 67 motorcyle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 68 motorcyle;television;sterio;solar\_panel;mobile\_phone  
## 69 bicycle;radio;solar\_torch;mobile\_phone  
## 70 cow\_cart;bicycle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 71 radio;cow\_plough;mobile\_phone  
## 72 mobile\_phone  
## 73 cow\_cart;car;lorry;motorcyle;bicycle;television;sterio;cow\_plough;solar\_panel;solar\_torch;electricity;table;sofa\_set;mobile\_phone;fridge  
## 74 motorcyle;bicycle;radio;sterio;cow\_plough;solar\_panel;mobile\_phone  
## 75 <NA>  
## 76 electricity  
## 77 radio;cow\_plough;solar\_panel;mobile\_phone  
## 78 motorcyle;television;cow\_plough;solar\_panel;mobile\_phone  
## 79 cow\_plough;solar\_panel  
## 80 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;mobile\_phone  
## 81 solar\_panel  
## 82 cow\_plough;mobile\_phone  
## 83 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 84 cow\_cart;bicycle;radio;cow\_plough;solar\_torch  
## 85 radio;cow\_plough;mobile\_phone  
## 86 bicycle;television;radio;cow\_plough;solar\_torch;table;mobile\_phone  
## 87 <NA>  
## 88 bicycle;radio;solar\_torch;mobile\_phone  
## 89 cow\_cart;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 90 bicycle;radio;cow\_plough  
## 91 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 92 bicycle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 93 radio;cow\_plough;solar\_torch  
## 94 radio;cow\_plough  
## 95 bicycle;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 96 bicycle;solar\_torch  
## 97 cow\_cart;cow\_plough;solar\_panel;sofa\_set;mobile\_phone  
## 98 cow\_plough;table;sofa\_set;mobile\_phone  
## 99 cow\_plough  
## 100 cow\_cart;bicycle;radio;cow\_plough;solar\_panel;solar\_torch  
## 101 cow\_cart;bicycle;cow\_plough  
## 102 motorcyle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 103 cow\_cart;motorcyle;bicycle;radio;sterio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 104 cow\_cart;bicycle;radio;cow\_plough;table  
## 105 bicycle;radio;cow\_plough;table;mobile\_phone  
## 106 cow\_cart;motorcyle;bicycle;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
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## 108 bicycle;radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 109 bicycle;cow\_plough;solar\_panel;mobile\_phone  
## 110 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 111 cow\_cart;bicycle;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 112 motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 113 motorcyle;television;radio;solar\_panel;solar\_torch;table;mobile\_phone  
## 114 cow\_cart;television;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 115 cow\_cart;motorcyle;television;radio;cow\_plough;solar\_torch;table;mobile\_phone  
## 116 mobile\_phone  
## 117 radio;solar\_panel;solar\_torch  
## 118 cow\_cart;cow\_plough;solar\_torch;mobile\_phone  
## 119 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_torch;electricity;table;sofa\_set;mobile\_phone;fridge  
## 120 bicycle;solar\_torch;mobile\_phone  
## 121 motorcyle;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 122 car;lorry;motorcyle;radio;sterio;cow\_plough;solar\_panel;solar\_torch;table;sofa\_set;mobile\_phone;fridge  
## 123 motorcyle;bicycle;radio;sterio;cow\_plough;solar\_panel;table;mobile\_phone  
## 124 motorcyle;radio;sterio;cow\_plough;solar\_panel;table;mobile\_phone  
## 125 radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 126 bicycle;television;radio;sterio;solar\_panel;solar\_torch;table;mobile\_phone  
## 127 motorcyle;radio;solar\_panel  
## 128 car;lorry;television;radio;sterio;cow\_plough;solar\_torch;electricity;table;sofa\_set;mobile\_phone;fridge  
## 129 radio;solar\_panel;solar\_torch;mobile\_phone  
## 130 cow\_cart;lorry;motorcyle;computer;television;radio;sterio;cow\_plough;solar\_panel;solar\_torch;electricity;mobile\_phone  
## 131 radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## no\_meals months\_lack\_food  
## 1 2 Jan  
## 2 2 Jan;Sept;Oct;Nov;Dec  
## 3 2 Jan;Feb;Mar;Oct;Nov;Dec  
## 4 2 Sept;Oct;Nov;Dec  
## 5 2 Aug;Sept;Oct;Nov  
## 6 2 Aug;Sept;Oct  
## 7 3 Nov  
## 8 2 Jan  
## 9 3 Jan;Dec  
## 10 3 Jan;Oct;Nov;Dec  
## 11 2 Oct;Nov  
## 12 3 Sept;Oct  
## 13 2 Sept;Oct;Nov  
## 14 3 June;July;Aug;Sept;Oct;Nov  
## 15 2 Jan;Feb;Mar;Apr;May;June;July;Aug;Sept;Oct;Nov  
## 16 3 Jan;Feb  
## 17 2 Nov;Dec  
## 18 2 Oct;Nov  
## 19 3 Oct;Nov;Dec  
## 20 2 Oct;Nov  
## 21 2 Jan;Feb;Mar;Oct;Nov;Dec  
## 22 2 Jan;Feb;Mar;Apr;Aug;Sept;Oct;Nov;Dec  
## 23 3 none  
## 24 2 Nov;Dec  
## 25 2 Jan;Feb;Oct  
## 26 2 none  
## 27 3 none  
## 28 3 Aug;Sept;Oct  
## 29 3 Jan;Feb  
## 30 2 Jan;Feb  
## 31 3 none  
## 32 2 none  
## 33 2 none  
## 34 2 Jan;Dec  
## 35 3 Jan;Sept;Oct;Nov;Dec  
## 36 3 none  
## 37 3 Jan;Nov;Dec  
## 38 3 Nov  
## 39 3 Nov  
## 40 3 Sept;Oct;Nov  
## 41 3 Oct;Nov  
## 42 3 Jan;Nov;Dec  
## 43 2 Jan;Feb;Oct;Nov;Dec  
## 44 2 Jan;Dec  
## 45 3 none  
## 46 2 Sept;Oct;Nov  
## 47 3 none  
## 48 3 June;July;Aug;Sept;Oct;Nov  
## 49 3 Jan;Nov;Dec  
## 50 2 June;July;Aug;Sept;Oct;Nov;Dec  
## 51 3 Oct;Nov  
## 52 3 Aug;Sept;Oct;Nov  
## 53 2 Nov  
## 54 2 Sept;Oct;Nov  
## 55 2 Oct;Nov  
## 56 3 none  
## 57 2 none  
## 58 2 none  
## 59 2 none  
## 60 2 none  
## 61 3 Jan;Feb;Dec  
## 62 3 Aug;Sept;Oct;Nov  
## 63 3 Jan;Oct;Nov;Dec  
## 64 3 Jan;Feb;Dec  
## 65 3 Jan;Feb;Mar  
## 66 3 none  
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## 68 3 none  
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## 71 2 Aug;Sept;Oct;Nov  
## 72 2 Aug;Sept;Oct  
## 73 3 Jan;Oct;Nov  
## 74 3 none  
## 75 2 Oct;Nov  
## 76 2 Jan;Sept;Oct;Nov;Dec  
## 77 3 none  
## 78 3 Nov  
## 79 3 Oct;Nov  
## 80 3 none  
## 81 3 Jan;Feb;Nov;Dec  
## 82 3 none  
## 83 3 none  
## 84 2 Sept;Oct;Nov  
## 85 3 none  
## 86 2 Nov  
## 87 3 Nov  
## 88 2 Oct;Nov;Dec  
## 89 3 Jan;Feb;Mar;Oct;Nov;Dec  
## 90 2 Jan;Aug;Sept;Oct;Nov;Dec  
## 91 3 Jan;Sept;Oct  
## 92 3 none  
## 93 2 Aug;Sept;Oct  
## 94 2 Oct;Nov  
## 95 3 Oct;Nov  
## 96 3 Sept;Oct;Nov  
## 97 3 Jan;Feb;Dec  
## 98 3 Jan;Feb  
## 99 2 Aug;Sept;Oct  
## 100 3 none  
## 101 3 Jan;Feb;Dec  
## 102 3 Jan;Feb;Dec  
## 103 3 Oct;Nov;Dec  
## 104 3 July;Aug;Sept;Oct;Nov  
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## 106 3 none  
## 107 3 Oct;Nov;Dec  
## 108 3 Jan;Sept;Oct;Nov;Dec  
## 109 3 none  
## 110 3 none  
## 111 3 Aug;Sept;Oct;Nov  
## 112 3 Jan;Nov;Dec  
## 113 3 Jan;Feb;Nov;Dec  
## 114 2 none  
## 115 3 Jan;Dec  
## 116 3 Sept;Oct;Nov  
## 117 3 Sept;Oct;Nov  
## 118 2 Nov  
## 119 3 none  
## 120 2 Feb;Mar  
## 121 2 Jan;Nov;Dec  
## 122 3 Jan;Feb;Dec  
## 123 2 Jan;Oct;Nov;Dec  
## 124 3 Nov  
## 125 2 Oct;Nov;Dec  
## 126 3 Jan;Nov;Dec  
## 127 3 Oct;Nov;Dec  
## 128 3 none  
## 129 3 Sept;Oct;Nov  
## 130 3 Nov;Dec  
## 131 3 Oct;Nov  
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## 120 uuid:40aac732-94df-496c-97ba-5b67f59bcc7a  
## 121 uuid:a9d1a013-043b-475d-a71b-77ed80abe970  
## 122 uuid:43ec6132-478c-4f87-878d-fb3c0c4d0c74  
## 123 uuid:64fc743e-8176-40f6-8ae4-36ae97fac1d9  
## 124 uuid:c17e374c-280b-4e78-bf21-74a7c1c73492  
## 125 uuid:dad53aff-b520-4015-a9e3-f5fdf9168fe1  
## 126 uuid:f94409a6-e461-4e4c-a6fb-0072d3d58b00  
## 127 uuid:69caea81-a4e5-4e8d-83cd-9c18d8e8d965  
## 128 uuid:5ccc2e5a-ea90-48b5-8542-69400d5334df  
## 129 uuid:95c11a30-d44f-40c4-8ea8-ec34fca6bbbf  
## 130 uuid:ffc83162-ff24-4a87-8709-eff17abc0b3b  
## 131 uuid:aa77a0d7-7142-41c8-b494-483a5b68d8a7

"length: show as number how many unique value:"

## [1] "length: show as number how many unique value:"

length(unique(no\_of\_member))

## [1] 15

length(unique(Datafile))

## [1] 14

Datafile %>%   
 select(village,no\_membrs, months\_lack\_food)

## village no\_membrs months\_lack\_food  
## 1 God 3 Jan  
## 2 God 7 Jan;Sept;Oct;Nov;Dec  
## 3 God 10 Jan;Feb;Mar;Oct;Nov;Dec  
## 4 God 7 Sept;Oct;Nov;Dec  
## 5 God 7 Aug;Sept;Oct;Nov  
## 6 God 3 Aug;Sept;Oct  
## 7 God 6 Nov  
## 8 Chirodzo 12 Jan  
## 9 Chirodzo 8 Jan;Dec  
## 10 Chirodzo 12 Jan;Oct;Nov;Dec  
## 11 God 6 Oct;Nov  
## 12 God 7 Sept;Oct  
## 13 God 6 Sept;Oct;Nov  
## 14 God 10 June;July;Aug;Sept;Oct;Nov  
## 15 God 5 Jan;Feb;Mar;Apr;May;June;July;Aug;Sept;Oct;Nov  
## 16 God 6 Jan;Feb  
## 17 God 8 Nov;Dec  
## 18 God 4 Oct;Nov  
## 19 God 9 Oct;Nov;Dec  
## 20 God 6 Oct;Nov  
## 21 God 8 Jan;Feb;Mar;Oct;Nov;Dec  
## 22 God 4 Jan;Feb;Mar;Apr;Aug;Sept;Oct;Nov;Dec  
## 23 Ruaca 10 none  
## 24 Ruaca 6 Nov;Dec  
## 25 Ruaca 11 Jan;Feb;Oct  
## 26 Ruaca 3 none  
## 27 Ruaca 7 none  
## 28 Ruaca 2 Aug;Sept;Oct  
## 29 Ruaca 7 Jan;Feb  
## 30 Ruaca 7 Jan;Feb  
## 31 Ruaca 3 none  
## 32 Ruaca 19 none  
## 33 Ruaca 8 none  
## 34 Chirodzo 8 Jan;Dec  
## 35 Chirodzo 5 Jan;Sept;Oct;Nov;Dec  
## 36 Chirodzo 6 none  
## 37 Chirodzo 3 Jan;Nov;Dec  
## 38 God 10 Nov  
## 39 God 6 Nov  
## 40 God 9 Sept;Oct;Nov  
## 41 God 7 Oct;Nov  
## 42 God 8 Jan;Nov;Dec  
## 43 Chirodzo 7 Jan;Feb;Oct;Nov;Dec  
## 44 Chirodzo 2 Jan;Dec  
## 45 Chirodzo 9 none  
## 46 Chirodzo 10 Sept;Oct;Nov  
## 47 Chirodzo 2 none  
## 48 Chirodzo 7 June;July;Aug;Sept;Oct;Nov  
## 49 Chirodzo 6 Jan;Nov;Dec  
## 50 Chirodzo 6 June;July;Aug;Sept;Oct;Nov;Dec  
## 51 Chirodzo 5 Oct;Nov  
## 52 Chirodzo 11 Aug;Sept;Oct;Nov  
## 53 Chirodzo 8 Nov  
## 54 Chirodzo 7 Sept;Oct;Nov  
## 55 Chirodzo 9 Oct;Nov  
## 56 Chirodzo 12 none  
## 57 Chirodzo 4 none  
## 58 Chirodzo 11 none  
## 59 Chirodzo 2 none  
## 60 Chirodzo 8 none  
## 61 Chirodzo 10 Jan;Feb;Dec  
## 62 Chirodzo 5 Aug;Sept;Oct;Nov  
## 63 Chirodzo 4 Jan;Oct;Nov;Dec  
## 64 Chirodzo 6 Jan;Feb;Dec  
## 65 Chirodzo 8 Jan;Feb;Mar  
## 66 Chirodzo 10 none  
## 67 Chirodzo 5 none  
## 68 Chirodzo 8 none  
## 69 Chirodzo 4 none  
## 70 Chirodzo 8 none  
## 71 Ruaca 6 Aug;Sept;Oct;Nov  
## 72 Chirodzo 4 Aug;Sept;Oct  
## 73 Ruaca 5 Jan;Oct;Nov  
## 74 Ruaca 10 none  
## 75 Ruaca 5 Oct;Nov  
## 76 God 4 Jan;Sept;Oct;Nov;Dec  
## 77 Ruaca 5 none  
## 78 God 10 Nov  
## 79 Ruaca 7 Oct;Nov  
## 80 God 11 none  
## 81 God 7 Jan;Feb;Nov;Dec  
## 82 God 7 none  
## 83 God 5 none  
## 84 God 5 Sept;Oct;Nov  
## 85 God 7 none  
## 86 God 5 Nov  
## 87 God 3 Nov  
## 88 God 4 Oct;Nov;Dec  
## 89 God 12 Jan;Feb;Mar;Oct;Nov;Dec  
## 90 Ruaca 6 Jan;Aug;Sept;Oct;Nov;Dec  
## 91 Ruaca 7 Jan;Sept;Oct  
## 92 Ruaca 17 none  
## 93 Ruaca 5 Aug;Sept;Oct  
## 94 Ruaca 7 Oct;Nov  
## 95 God 5 Oct;Nov  
## 96 God 3 Sept;Oct;Nov  
## 97 Ruaca 6 Jan;Feb;Dec  
## 98 Ruaca 12 Jan;Feb  
## 99 Ruaca 6 Aug;Sept;Oct  
## 100 Ruaca 5 none  
## 101 Ruaca 14 Jan;Feb;Dec  
## 102 Ruaca 6 Jan;Feb;Dec  
## 103 God 15 Oct;Nov;Dec  
## 104 God 4 July;Aug;Sept;Oct;Nov  
## 105 Ruaca 6 none  
## 106 Ruaca 11 none  
## 107 Ruaca 5 Oct;Nov;Dec  
## 108 Ruaca 5 Jan;Sept;Oct;Nov;Dec  
## 109 Ruaca 3 none  
## 110 Ruaca 4 none  
## 111 God 15 Aug;Sept;Oct;Nov  
## 112 Ruaca 5 Jan;Nov;Dec  
## 113 Ruaca 10 Jan;Feb;Nov;Dec  
## 114 Ruaca 7 none  
## 115 Ruaca 10 Jan;Dec  
## 116 Ruaca 7 Sept;Oct;Nov  
## 117 God 4 Sept;Oct;Nov  
## 118 God 7 Nov  
## 119 Ruaca 9 none  
## 120 Ruaca 11 Feb;Mar  
## 121 Ruaca 8 Jan;Nov;Dec  
## 122 Ruaca 12 Jan;Feb;Dec  
## 123 Ruaca 7 Jan;Oct;Nov;Dec  
## 124 Ruaca 15 Nov  
## 125 Ruaca 10 Oct;Nov;Dec  
## 126 Chirodzo 9 Jan;Nov;Dec  
## 127 Ruaca 3 Oct;Nov;Dec  
## 128 Ruaca 7 none  
## 129 Ruaca 4 Sept;Oct;Nov  
## 130 Chirodzo 7 Nov;Dec  
## 131 Chirodzo 8 Oct;Nov

Only <- Datafile %>%   
 select(village,no\_membrs, months\_lack\_food)  
"this code below with -c means delet the selected data"

## [1] "this code below with -c means delet the selected data"

delet\_few <- Datafile %>%   
 select(-c(village,no\_membrs))  
  
"this code below with -c means delet the selected data, using : to select From .. To .."

## [1] "this code below with -c means delet the selected data, using : to select From .. To .."

delet\_few\_fwe <- Datafile %>%   
 select(-c(village:no\_membrs))  
"using select with filter to chose what i need from the dataset"

## [1] "using select with filter to chose what i need from the dataset"

SSelect <- Datafile %>%   
 select(village:years\_liv) %>%   
 filter(village == "God",  
 years\_liv > 24)  
  
Datafile$village=="God"

## [1] TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE FALSE FALSE TRUE TRUE  
## [13] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE FALSE  
## [25] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [37] FALSE TRUE TRUE TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE  
## [49] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [61] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [73] FALSE FALSE FALSE TRUE FALSE TRUE FALSE TRUE TRUE TRUE TRUE TRUE  
## [85] TRUE TRUE TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE TRUE TRUE  
## [97] FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE FALSE FALSE FALSE FALSE  
## [109] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE TRUE TRUE FALSE FALSE  
## [121] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE

samlldata <- Datafile %>%   
 select(village:respondent\_wall\_type,rooms) %>%   
 filter(village == "God" & rooms > 1 )  
  
  
Task <- Datafile %>%   
 select(memb\_assoc,affect\_conflicts,liv\_count,no\_meals) %>%   
 filter(memb\_assoc == "yes")  
  
filter(Datafile, memb\_assoc == "yes")

## key\_ID village interview\_date no\_membrs years\_liv  
## 1 1 God 2016-11-17T00:00:00Z 7 9  
## 2 8 Chirodzo 2016-11-16T00:00:00Z 12 70  
## 3 12 God 2016-11-21T00:00:00Z 7 20  
## 4 15 God 2016-11-21T00:00:00Z 5 30  
## 5 29 Ruaca 2016-11-21T00:00:00Z 7 10  
## 6 32 Ruaca 2016-11-21T00:00:00Z 19 69  
## 7 34 Chirodzo 2016-11-17T00:00:00Z 8 18  
## 8 35 Chirodzo 2016-11-17T00:00:00Z 5 45  
## 9 36 Chirodzo 2016-11-17T00:00:00Z 6 23  
## 10 38 God 2016-11-17T00:00:00Z 10 19  
## 11 40 God 2016-11-17T00:00:00Z 9 23  
## 12 47 Chirodzo 2016-11-17T00:00:00Z 2 2  
## 13 50 Chirodzo 2016-11-16T00:00:00Z 6 7  
## 14 21 Chirodzo 2016-11-16T00:00:00Z 8 16  
## 15 56 Chirodzo 2016-11-16T00:00:00Z 12 23  
## 16 61 Chirodzo 2016-11-16T00:00:00Z 10 14  
## 17 66 Chirodzo 2016-11-16T00:00:00Z 10 37  
## 18 71 Ruaca 2016-11-18T00:00:00Z 6 14  
## 19 152 Ruaca 2016-11-24T00:00:00Z 10 16  
## 20 178 Ruaca 2016-11-25T00:00:00Z 5 79  
## 21 181 God 2016-11-25T00:00:00Z 11 25  
## 22 187 God 2016-11-28T00:00:00Z 5 43  
## 23 196 God 2016-11-28T00:00:00Z 7 49  
## 24 202 God 2016-11-17T00:00:00Z 12 12  
## 25 72 Ruaca 2017-04-26T00:00:00Z 6 24  
## 26 73 Ruaca 2017-04-26T00:00:00Z 7 9  
## 27 76 Ruaca 2017-04-26T00:00:00Z 17 48  
## 28 83 Ruaca 2017-04-27T00:00:00Z 5 22  
## 29 102 Ruaca 2017-04-28T00:00:00Z 12 15  
## 30 104 Ruaca 2017-04-28T00:00:00Z 14 52  
## 31 105 Ruaca 2017-04-28T00:00:00Z 6 40  
## 32 160 God 2017-06-03T00:00:00Z 7 13  
## 33 199 Chirodzo 2017-06-04T00:00:00Z 7 17  
## respondent\_wall\_type rooms memb\_assoc affect\_conflicts liv\_count  
## 1 muddaub 1 yes once 3  
## 2 burntbricks 3 yes never 2  
## 3 burntbricks 3 yes never 2  
## 4 sunbricks 2 yes once 3  
## 5 burntbricks 2 yes frequently 1  
## 6 muddaub 2 yes more\_once 5  
## 7 burntbricks 3 yes more\_once 3  
## 8 muddaub 1 yes more\_once 2  
## 9 sunbricks 1 yes once 3  
## 10 muddaub 1 yes never 3  
## 11 burntbricks 1 yes never 1  
## 12 muddaub 1 yes once 1  
## 13 muddaub 1 yes never 1  
## 14 burntbricks 3 yes frequently 2  
## 15 burntbricks 2 yes never 2  
## 16 muddaub 1 yes more\_once 3  
## 17 burntbricks 3 yes frequently 4  
## 18 burntbricks 1 yes more\_once 3  
## 19 burntbricks 1 yes once 3  
## 20 burntbricks 2 yes frequently 3  
## 21 sunbricks 2 yes more\_once 3  
## 22 muddaub 2 yes more\_once 4  
## 23 burntbricks 2 yes more\_once 3  
## 24 burntbricks 4 yes more\_once 3  
## 25 muddaub 1 yes more\_once 3  
## 26 burntbricks 2 yes more\_once 3  
## 27 burntbricks 2 yes more\_once 4  
## 28 burntbricks 1 yes never 2  
## 29 burntbricks 2 yes frequently 2  
## 30 sunbricks 1 yes never 4  
## 31 sunbricks 1 yes frequently 2  
## 32 burntbricks 2 yes frequently 2  
## 33 burntbricks 2 yes more\_once 2  
## items\_owned  
## 1 cow\_cart;bicycle;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 2 motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;table;fridge  
## 3 cow\_cart;bicycle;radio;cow\_plough;table  
## 4 bicycle;radio;cow\_plough;solar\_panel;table  
## 5 motorcyle;bicycle;radio;table;mobile\_phone  
## 6 cow\_cart;motorcyle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 7 television;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 8 bicycle;cow\_plough  
## 9 cow\_cart;bicycle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 10 bicycle;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 11 bicycle;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 12 solar\_torch;mobile\_phone  
## 13 solar\_torch  
## 14 bicycle;radio;mobile\_phone  
## 15 motorcyle;bicycle;mobile\_phone  
## 16 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 17 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 18 radio;cow\_plough;mobile\_phone  
## 19 motorcyle;bicycle;radio;sterio;cow\_plough;solar\_panel;mobile\_phone  
## 20 radio;cow\_plough;solar\_panel;mobile\_phone  
## 21 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;mobile\_phone  
## 22 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 23 radio;cow\_plough;mobile\_phone  
## 24 cow\_cart;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 25 bicycle;radio;cow\_plough  
## 26 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 27 bicycle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 28 radio;cow\_plough;solar\_torch  
## 29 cow\_plough;table;sofa\_set;mobile\_phone  
## 30 cow\_cart;bicycle;cow\_plough  
## 31 motorcyle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 32 cow\_cart;cow\_plough;solar\_torch;mobile\_phone  
## 33 cow\_cart;lorry;motorcyle;computer;television;radio;sterio;cow\_plough;solar\_panel;solar\_torch;electricity;mobile\_phone  
## no\_meals months\_lack\_food  
## 1 2 Jan;Sept;Oct;Nov;Dec  
## 2 2 Jan  
## 3 3 Sept;Oct  
## 4 2 Jan;Feb;Mar;Apr;May;June;July;Aug;Sept;Oct;Nov  
## 5 3 Jan;Feb  
## 6 2 none  
## 7 2 Jan;Dec  
## 8 3 Jan;Sept;Oct;Nov;Dec  
## 9 3 none  
## 10 3 Nov  
## 11 3 Sept;Oct;Nov  
## 12 3 none  
## 13 2 June;July;Aug;Sept;Oct;Nov;Dec  
## 14 2 Nov  
## 15 3 none  
## 16 3 Jan;Feb;Dec  
## 17 3 none  
## 18 2 Aug;Sept;Oct;Nov  
## 19 3 none  
## 20 3 none  
## 21 3 none  
## 22 3 none  
## 23 3 none  
## 24 3 Jan;Feb;Mar;Oct;Nov;Dec  
## 25 2 Jan;Aug;Sept;Oct;Nov;Dec  
## 26 3 Jan;Sept;Oct  
## 27 3 none  
## 28 2 Aug;Sept;Oct  
## 29 3 Jan;Feb  
## 30 3 Jan;Feb;Dec  
## 31 3 Jan;Feb;Dec  
## 32 2 Nov  
## 33 3 Nov;Dec  
## instanceID  
## 1 uuid:099de9c9-3e5e-427b-8452-26250e840d6e  
## 2 uuid:d6cee930-7be1-4fd9-88c0-82a08f90fb5a  
## 3 uuid:e6ee6269-b467-4e37-91fc-5e9eaf934557  
## 4 uuid:a837e545-ff86-4a1c-a1a5-6186804b985f  
## 5 uuid:adcd7463-8943-4c67-b25f-f72311409476  
## 6 uuid:25597af3-cd79-449c-a48a-fb9aea6c48bf  
## 7 uuid:14c78c45-a7cc-4b2a-b765-17c82b43feb4  
## 8 uuid:ff7496e7-984a-47d3-a8a1-13618b5683ce  
## 9 uuid:c90eade0-1148-4a12-8c0e-6387a36f45b1  
## 10 uuid:81309594-ff58-4dc1-83a7-72af5952ee08  
## 11 uuid:c0b34854-eede-4e81-b183-ef58a45bfc34  
## 12 uuid:2d0b1936-4f82-4ec3-a3b5-7c3c8cd6cc2b  
## 13 uuid:4267c33c-53a7-46d9-8bd6-b96f58a4f92c  
## 14 uuid:cc7f75c5-d13e-43f3-97e5-4f4c03cb4b12  
## 15 uuid:973c4ac6-f887-48e7-aeaf-4476f2cfab76  
## 16 uuid:2401cf50-8859-44d9-bd14-1bf9128766f2  
## 17 uuid:a457eab8-971b-4417-a971-2e55b8702816  
## 18 uuid:761f9c49-ec93-4932-ba4c-cc7b78dfcef1  
## 19 uuid:59738c17-1cda-49ee-a563-acd76f6bc487  
## 20 uuid:2186e2ec-f65a-47cc-9bc1-a0f36dd9591c  
## 21 uuid:bf373763-dca5-4906-901b-d1bacb4f0286  
## 22 uuid:0a42c9ee-a840-4dda-8123-15c1bede5dfc  
## 23 uuid:44e427d1-a448-4bf2-b529-7d67b2266c06  
## 24 uuid:06d39051-38ef-4757-b68b-3327b1f16b9d  
## 25 uuid:c4a2c982-244e-45a5-aa4b-71fa53f99e18  
## 26 uuid:ac3da862-9e6c-4962-94b6-f4c31624f207  
## 27 uuid:4178a296-903a-4a8e-9cfa-0cd6143476e8  
## 28 uuid:a1e9df00-c8ae-411c-931c-c7df898c68d0  
## 29 uuid:76206b0b-af74-4344-b24f-81e839f0d7b0  
## 30 uuid:bb2bb365-7d7d-4fe9-9353-b21269676119  
## 31 uuid:af0904ee-4fdb-4090-973f-599c81ddf022  
## 32 uuid:f22831ec-6bc3-4b73-9197-4b01e01abb66  
## 33 uuid:ffc83162-ff24-4a87-8709-eff17abc0b3b

"mutate to generat a new column with our needs from the data"

## [1] "mutate to generat a new column with our needs from the data"

Datafile %>%   
 mutate(pepole\_per\_room = no\_membrs / rooms)

## key\_ID village interview\_date no\_membrs years\_liv  
## 1 1 God 2016-11-17T00:00:00Z 3 4  
## 2 1 God 2016-11-17T00:00:00Z 7 9  
## 3 3 God 2016-11-17T00:00:00Z 10 15  
## 4 4 God 2016-11-17T00:00:00Z 7 6  
## 5 5 God 2016-11-17T00:00:00Z 7 40  
## 6 6 God 2016-11-17T00:00:00Z 3 3  
## 7 7 God 2016-11-17T00:00:00Z 6 38  
## 8 8 Chirodzo 2016-11-16T00:00:00Z 12 70  
## 9 9 Chirodzo 2016-11-16T00:00:00Z 8 6  
## 10 10 Chirodzo 2016-12-16T00:00:00Z 12 23  
## 11 11 God 2016-11-21T00:00:00Z 6 20  
## 12 12 God 2016-11-21T00:00:00Z 7 20  
## 13 13 God 2016-11-21T00:00:00Z 6 8  
## 14 14 God 2016-11-21T00:00:00Z 10 20  
## 15 15 God 2016-11-21T00:00:00Z 5 30  
## 16 16 God 2016-11-24T00:00:00Z 6 47  
## 17 17 God 2016-11-21T00:00:00Z 8 20  
## 18 18 God 2016-11-21T00:00:00Z 4 20  
## 19 19 God 2016-11-21T00:00:00Z 9 23  
## 20 20 God 2016-11-21T00:00:00Z 6 1  
## 21 21 God 2016-11-21T00:00:00Z 8 20  
## 22 22 God 2016-11-21T00:00:00Z 4 20  
## 23 23 Ruaca 2016-11-21T00:00:00Z 10 20  
## 24 24 Ruaca 2016-11-21T00:00:00Z 6 4  
## 25 25 Ruaca 2016-11-21T00:00:00Z 11 6  
## 26 26 Ruaca 2016-11-21T00:00:00Z 3 20  
## 27 27 Ruaca 2016-11-21T00:00:00Z 7 36  
## 28 28 Ruaca 2016-11-21T00:00:00Z 2 2  
## 29 29 Ruaca 2016-11-21T00:00:00Z 7 10  
## 30 30 Ruaca 2016-11-21T00:00:00Z 7 22  
## 31 31 Ruaca 2016-11-21T00:00:00Z 3 2  
## 32 32 Ruaca 2016-11-21T00:00:00Z 19 69  
## 33 33 Ruaca 2016-11-21T00:00:00Z 8 34  
## 34 34 Chirodzo 2016-11-17T00:00:00Z 8 18  
## 35 35 Chirodzo 2016-11-17T00:00:00Z 5 45  
## 36 36 Chirodzo 2016-11-17T00:00:00Z 6 23  
## 37 37 Chirodzo 2016-11-17T00:00:00Z 3 8  
## 38 38 God 2016-11-17T00:00:00Z 10 19  
## 39 39 God 2016-11-17T00:00:00Z 6 22  
## 40 40 God 2016-11-17T00:00:00Z 9 23  
## 41 41 God 2016-11-17T00:00:00Z 7 22  
## 42 42 God 2016-11-17T00:00:00Z 8 8  
## 43 43 Chirodzo 2016-11-17T00:00:00Z 7 29  
## 44 44 Chirodzo 2016-11-17T00:00:00Z 2 6  
## 45 45 Chirodzo 2016-11-17T00:00:00Z 9 7  
## 46 46 Chirodzo 2016-11-17T00:00:00Z 10 42  
## 47 47 Chirodzo 2016-11-17T00:00:00Z 2 2  
## 48 48 Chirodzo 2016-11-16T00:00:00Z 7 58  
## 49 49 Chirodzo 2016-11-16T00:00:00Z 6 26  
## 50 50 Chirodzo 2016-11-16T00:00:00Z 6 7  
## 51 51 Chirodzo 2016-11-16T00:00:00Z 5 30  
## 52 52 Chirodzo 2016-11-16T00:00:00Z 11 15  
## 53 21 Chirodzo 2016-11-16T00:00:00Z 8 16  
## 54 54 Chirodzo 2016-11-16T00:00:00Z 7 15  
## 55 55 Chirodzo 2016-11-16T00:00:00Z 9 23  
## 56 56 Chirodzo 2016-11-16T00:00:00Z 12 23  
## 57 57 Chirodzo 2016-11-16T00:00:00Z 4 27  
## 58 58 Chirodzo 2016-11-16T00:00:00Z 11 45  
## 59 59 Chirodzo 2016-11-16T00:00:00Z 2 60  
## 60 60 Chirodzo 2016-11-16T00:00:00Z 8 15  
## 61 61 Chirodzo 2016-11-16T00:00:00Z 10 14  
## 62 62 Chirodzo 2016-11-16T00:00:00Z 5 5  
## 63 63 Chirodzo 2016-11-16T00:00:00Z 4 10  
## 64 64 Chirodzo 2016-11-16T00:00:00Z 6 1  
## 65 65 Chirodzo 2016-11-16T00:00:00Z 8 20  
## 66 66 Chirodzo 2016-11-16T00:00:00Z 10 37  
## 67 67 Chirodzo 2016-11-16T00:00:00Z 5 31  
## 68 68 Chirodzo 2016-11-16T00:00:00Z 8 52  
## 69 69 Chirodzo 2016-11-16T00:00:00Z 4 12  
## 70 70 Chirodzo 2016-11-16T00:00:00Z 8 25  
## 71 71 Ruaca 2016-11-18T00:00:00Z 6 14  
## 72 127 Chirodzo 2016-11-16T00:00:00Z 4 18  
## 73 133 Ruaca 2016-11-23T00:00:00Z 5 25  
## 74 152 Ruaca 2016-11-24T00:00:00Z 10 16  
## 75 153 Ruaca 2016-11-24T00:00:00Z 5 41  
## 76 155 God 2016-11-24T00:00:00Z 4 4  
## 77 178 Ruaca 2016-11-25T00:00:00Z 5 79  
## 78 177 God 2016-11-25T00:00:00Z 10 13  
## 79 180 Ruaca 2016-11-25T00:00:00Z 7 50  
## 80 181 God 2016-11-25T00:00:00Z 11 25  
## 81 182 God 2016-11-25T00:00:00Z 7 21  
## 82 186 God 2016-11-28T00:00:00Z 7 24  
## 83 187 God 2016-11-28T00:00:00Z 5 43  
## 84 195 God 2016-11-28T00:00:00Z 5 48  
## 85 196 God 2016-11-28T00:00:00Z 7 49  
## 86 197 God 2016-11-28T00:00:00Z 5 19  
## 87 198 God 2016-11-28T00:00:00Z 3 49  
## 88 201 God 2016-11-21T00:00:00Z 4 6  
## 89 202 God 2016-11-17T00:00:00Z 12 12  
## 90 72 Ruaca 2017-04-26T00:00:00Z 6 24  
## 91 73 Ruaca 2017-04-26T00:00:00Z 7 9  
## 92 76 Ruaca 2017-04-26T00:00:00Z 17 48  
## 93 83 Ruaca 2017-04-27T00:00:00Z 5 22  
## 94 85 Ruaca 2017-04-27T00:00:00Z 7 40  
## 95 89 God 2017-04-27T00:00:00Z 5 10  
## 96 101 God 2017-04-27T00:00:00Z 3 4  
## 97 103 Ruaca 2017-04-27T00:00:00Z 6 96  
## 98 102 Ruaca 2017-04-28T00:00:00Z 12 15  
## 99 78 Ruaca 2017-04-28T00:00:00Z 6 48  
## 100 80 Ruaca 2017-04-28T00:00:00Z 5 12  
## 101 104 Ruaca 2017-04-28T00:00:00Z 14 52  
## 102 105 Ruaca 2017-04-28T00:00:00Z 6 40  
## 103 106 God 2017-04-30T00:00:00Z 15 22  
## 104 109 God 2017-05-03T00:00:00Z 4 12  
## 105 110 Ruaca 2017-05-03T00:00:00Z 6 22  
## 106 113 Ruaca 2017-05-03T00:00:00Z 11 26  
## 107 118 Ruaca 2017-05-04T00:00:00Z 5 25  
## 108 125 Ruaca 2017-05-04T00:00:00Z 5 14  
## 109 119 Ruaca 2017-05-04T00:00:00Z 3 14  
## 110 115 Ruaca 2017-05-11T00:00:00Z 4 16  
## 111 108 God 2017-05-11T00:00:00Z 15 22  
## 112 116 Ruaca 2017-05-11T00:00:00Z 5 25  
## 113 117 Ruaca 2017-05-11T00:00:00Z 10 28  
## 114 144 Ruaca 2017-05-18T00:00:00Z 7 5  
## 115 143 Ruaca 2017-05-18T00:00:00Z 10 24  
## 116 150 Ruaca 2017-05-18T00:00:00Z 7 8  
## 117 159 God 2017-05-18T00:00:00Z 4 24  
## 118 160 God 2017-06-03T00:00:00Z 7 13  
## 119 165 Ruaca 2017-06-03T00:00:00Z 9 14  
## 120 166 Ruaca 2017-06-03T00:00:00Z 11 16  
## 121 167 Ruaca 2017-06-03T00:00:00Z 8 24  
## 122 174 Ruaca 2017-06-03T00:00:00Z 12 25  
## 123 175 Ruaca 2017-06-03T00:00:00Z 7 36  
## 124 189 Ruaca 2017-06-03T00:00:00Z 15 16  
## 125 191 Ruaca 2017-06-03T00:00:00Z 10 5  
## 126 192 Chirodzo 2017-06-03T00:00:00Z 9 20  
## 127 126 Ruaca 2017-05-18T00:00:00Z 3 7  
## 128 193 Ruaca 2017-06-04T00:00:00Z 7 10  
## 129 194 Ruaca 2017-06-04T00:00:00Z 4 5  
## 130 199 Chirodzo 2017-06-04T00:00:00Z 7 17  
## 131 200 Chirodzo 2017-06-04T00:00:00Z 8 20  
## respondent\_wall\_type rooms memb\_assoc affect\_conflicts liv\_count  
## 1 muddaub 1 <NA> <NA> 1  
## 2 muddaub 1 yes once 3  
## 3 burntbricks 1 <NA> <NA> 1  
## 4 burntbricks 1 <NA> <NA> 2  
## 5 burntbricks 1 <NA> <NA> 4  
## 6 muddaub 1 <NA> <NA> 1  
## 7 muddaub 1 no never 1  
## 8 burntbricks 3 yes never 2  
## 9 burntbricks 1 no never 3  
## 10 burntbricks 5 no never 2  
## 11 sunbricks 1 <NA> <NA> 2  
## 12 burntbricks 3 yes never 2  
## 13 burntbricks 1 no never 3  
## 14 burntbricks 3 <NA> <NA> 3  
## 15 sunbricks 2 yes once 3  
## 16 muddaub 1 <NA> <NA> 4  
## 17 sunbricks 1 <NA> <NA> 1  
## 18 muddaub 1 <NA> <NA> 3  
## 19 burntbricks 2 <NA> <NA> 2  
## 20 burntbricks 1 <NA> <NA> 1  
## 21 burntbricks 1 no never 3  
## 22 muddaub 1 <NA> <NA> 1  
## 23 burntbricks 4 <NA> <NA> 3  
## 24 burntbricks 2 no never 3  
## 25 burntbricks 3 no never 2  
## 26 burntbricks 2 no never 2  
## 27 burntbricks 2 <NA> <NA> 3  
## 28 muddaub 1 no more\_once 1  
## 29 burntbricks 2 yes frequently 1  
## 30 muddaub 2 <NA> <NA> 1  
## 31 muddaub 1 <NA> <NA> 1  
## 32 muddaub 2 yes more\_once 5  
## 33 muddaub 1 no more\_once 2  
## 34 burntbricks 3 yes more\_once 3  
## 35 muddaub 1 yes more\_once 2  
## 36 sunbricks 1 yes once 3  
## 37 burntbricks 1 <NA> <NA> 2  
## 38 muddaub 1 yes never 3  
## 39 muddaub 1 <NA> <NA> 1  
## 40 burntbricks 1 yes never 1  
## 41 muddaub 1 <NA> <NA> 2  
## 42 sunbricks 1 no never 3  
## 43 muddaub 1 no never 2  
## 44 muddaub 1 <NA> <NA> 3  
## 45 muddaub 1 no never 4  
## 46 burntbricks 2 no once 2  
## 47 muddaub 1 yes once 1  
## 48 muddaub 1 <NA> <NA> 3  
## 49 burntbricks 2 <NA> <NA> 2  
## 50 muddaub 1 yes never 1  
## 51 muddaub 1 <NA> <NA> 1  
## 52 burntbricks 3 no never 3  
## 53 burntbricks 3 yes frequently 2  
## 54 muddaub 1 no never 1  
## 55 muddaub 2 <NA> <NA> 1  
## 56 burntbricks 2 yes never 2  
## 57 burntbricks 1 no never 1  
## 58 burntbricks 3 no never 3  
## 59 muddaub 3 <NA> <NA> 3  
## 60 burntbricks 2 no never 4  
## 61 muddaub 1 yes more\_once 3  
## 62 muddaub 1 <NA> <NA> 1  
## 63 muddaub 1 <NA> <NA> 1  
## 64 muddaub 1 <NA> <NA> 1  
## 65 burntbricks 3 no once 3  
## 66 burntbricks 3 yes frequently 4  
## 67 burntbricks 2 no more\_once 4  
## 68 burntbricks 3 no more\_once 3  
## 69 muddaub 1 no more\_once 1  
## 70 burntbricks 2 no more\_once 4  
## 71 burntbricks 1 yes more\_once 3  
## 72 burntbricks 8 <NA> <NA> 1  
## 73 burntbricks 2 no never 5  
## 74 burntbricks 1 yes once 3  
## 75 burntbricks 1 <NA> <NA> 1  
## 76 burntbricks 1 <NA> <NA> 1  
## 77 burntbricks 2 yes frequently 3  
## 78 sunbricks 1 no more\_once 2  
## 79 muddaub 1 no never 3  
## 80 sunbricks 2 yes more\_once 3  
## 81 muddaub 3 no more\_once 2  
## 82 muddaub 1 no more\_once 2  
## 83 muddaub 2 yes more\_once 4  
## 84 burntbricks 1 no never 3  
## 85 burntbricks 2 yes more\_once 3  
## 86 burntbricks 2 no more\_once 3  
## 87 burntbricks 1 no never 1  
## 88 muddaub 2 <NA> <NA> 2  
## 89 burntbricks 4 yes more\_once 3  
## 90 muddaub 1 yes more\_once 3  
## 91 burntbricks 2 yes more\_once 3  
## 92 burntbricks 2 yes more\_once 4  
## 93 burntbricks 1 yes never 2  
## 94 sunbricks 1 no never 2  
## 95 burntbricks 2 no never 3  
## 96 muddaub 1 no never 1  
## 97 sunbricks 1 no never 5  
## 98 burntbricks 2 yes frequently 2  
## 99 burntbricks 1 no more\_once 2  
## 100 muddaub 1 no more\_once 1  
## 101 sunbricks 1 yes never 4  
## 102 sunbricks 1 yes frequently 2  
## 103 sunbricks 5 no never 2  
## 104 sunbricks 1 <NA> <NA> 3  
## 105 sunbricks 3 no never 3  
## 106 burntbricks 3 no never 4  
## 107 muddaub 1 <NA> <NA> 1  
## 108 burntbricks 1 no more\_once 2  
## 109 muddaub 1 no never 4  
## 110 sunbricks 2 <NA> <NA> 3  
## 111 burntbricks 2 no never 4  
## 112 burntbricks 3 <NA> <NA> 3  
## 113 muddaub 4 <NA> <NA> 1  
## 114 burntbricks 4 no frequently 4  
## 115 burntbricks 2 no frequently 3  
## 116 muddaub 1 no never 1  
## 117 sunbricks 1 no never 1  
## 118 burntbricks 2 yes frequently 2  
## 119 burntbricks 1 no never 3  
## 120 muddaub 1 no never 1  
## 121 muddaub 1 no never 3  
## 122 burntbricks 2 no never 3  
## 123 burntbricks 1 no never 4  
## 124 sunbricks 1 no never 3  
## 125 burntbricks 4 no never 1  
## 126 burntbricks 1 no once 1  
## 127 burntbricks 1 no more\_once 3  
## 128 cement 3 no more\_once 3  
## 129 muddaub 1 no more\_once 1  
## 130 burntbricks 2 yes more\_once 2  
## 131 burntbricks 2 <NA> <NA> 3  
## items\_owned  
## 1 bicycle;television;solar\_panel;table  
## 2 cow\_cart;bicycle;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 3 solar\_torch  
## 4 bicycle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 5 motorcyle;radio;cow\_plough;mobile\_phone  
## 6 <NA>  
## 7 motorcyle;cow\_plough  
## 8 motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;table;fridge  
## 9 television;solar\_panel;solar\_torch  
## 10 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;table  
## 11 radio;cow\_plough  
## 12 cow\_cart;bicycle;radio;cow\_plough;table  
## 13 bicycle;radio;cow\_plough;mobile\_phone  
## 14 bicycle;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 15 bicycle;radio;cow\_plough;solar\_panel;table  
## 16 radio;cow\_plough;solar\_panel;solar\_torch  
## 17 mobile\_phone  
## 18 bicycle;mobile\_phone  
## 19 bicycle;radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 20 bicycle;cow\_plough;solar\_torch  
## 21 <NA>  
## 22 radio  
## 23 cow\_cart;bicycle;television;radio;cow\_plough;solar\_panel;electricity;mobile\_phone  
## 24 radio;table;sofa\_set;mobile\_phone  
## 25 cow\_cart;motorcyle;television;radio;cow\_plough;solar\_panel;solar\_torch;table;sofa\_set;mobile\_phone  
## 26 radio;cow\_plough;table;mobile\_phone  
## 27 bicycle;radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 28 <NA>  
## 29 motorcyle;bicycle;radio;table;mobile\_phone  
## 30 bicycle;radio;mobile\_phone  
## 31 <NA>  
## 32 cow\_cart;motorcyle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 33 cow\_cart;lorry;motorcyle;sterio;cow\_plough;solar\_panel;mobile\_phone  
## 34 television;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 35 bicycle;cow\_plough  
## 36 cow\_cart;bicycle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 37 bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 38 bicycle;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 39 <NA>  
## 40 bicycle;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 41 motorcyle;bicycle;radio;cow\_plough;table  
## 42 mobile\_phone  
## 43 cow\_plough;mobile\_phone  
## 44 radio;solar\_torch  
## 45 motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 46 motorcyle;computer;television;sterio;solar\_panel;solar\_torch;table;mobile\_phone  
## 47 solar\_torch;mobile\_phone  
## 48 radio  
## 49 bicycle;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 50 solar\_torch  
## 51 radio  
## 52 motorcyle;television;radio;cow\_plough;solar\_panel;mobile\_phone  
## 53 bicycle;radio;mobile\_phone  
## 54 <NA>  
## 55 television;cow\_plough;mobile\_phone  
## 56 motorcyle;bicycle;mobile\_phone  
## 57 radio  
## 58 motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;mobile\_phone  
## 59 <NA>  
## 60 cow\_plough  
## 61 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 62 bicycle;radio;mobile\_phone  
## 63 <NA>  
## 64 bicycle;solar\_torch;table;sofa\_set;mobile\_phone  
## 65 motorcyle;radio;cow\_plough;table  
## 66 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 67 motorcyle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 68 motorcyle;television;sterio;solar\_panel;mobile\_phone  
## 69 bicycle;radio;solar\_torch;mobile\_phone  
## 70 cow\_cart;bicycle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 71 radio;cow\_plough;mobile\_phone  
## 72 mobile\_phone  
## 73 cow\_cart;car;lorry;motorcyle;bicycle;television;sterio;cow\_plough;solar\_panel;solar\_torch;electricity;table;sofa\_set;mobile\_phone;fridge  
## 74 motorcyle;bicycle;radio;sterio;cow\_plough;solar\_panel;mobile\_phone  
## 75 <NA>  
## 76 electricity  
## 77 radio;cow\_plough;solar\_panel;mobile\_phone  
## 78 motorcyle;television;cow\_plough;solar\_panel;mobile\_phone  
## 79 cow\_plough;solar\_panel  
## 80 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;mobile\_phone  
## 81 solar\_panel  
## 82 cow\_plough;mobile\_phone  
## 83 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 84 cow\_cart;bicycle;radio;cow\_plough;solar\_torch  
## 85 radio;cow\_plough;mobile\_phone  
## 86 bicycle;television;radio;cow\_plough;solar\_torch;table;mobile\_phone  
## 87 <NA>  
## 88 bicycle;radio;solar\_torch;mobile\_phone  
## 89 cow\_cart;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 90 bicycle;radio;cow\_plough  
## 91 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 92 bicycle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 93 radio;cow\_plough;solar\_torch  
## 94 radio;cow\_plough  
## 95 bicycle;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 96 bicycle;solar\_torch  
## 97 cow\_cart;cow\_plough;solar\_panel;sofa\_set;mobile\_phone  
## 98 cow\_plough;table;sofa\_set;mobile\_phone  
## 99 cow\_plough  
## 100 cow\_cart;bicycle;radio;cow\_plough;solar\_panel;solar\_torch  
## 101 cow\_cart;bicycle;cow\_plough  
## 102 motorcyle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 103 cow\_cart;motorcyle;bicycle;radio;sterio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 104 cow\_cart;bicycle;radio;cow\_plough;table  
## 105 bicycle;radio;cow\_plough;table;mobile\_phone  
## 106 cow\_cart;motorcyle;bicycle;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 107 radio;solar\_torch;mobile\_phone  
## 108 bicycle;radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 109 bicycle;cow\_plough;solar\_panel;mobile\_phone  
## 110 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 111 cow\_cart;bicycle;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 112 motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 113 motorcyle;television;radio;solar\_panel;solar\_torch;table;mobile\_phone  
## 114 cow\_cart;television;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 115 cow\_cart;motorcyle;television;radio;cow\_plough;solar\_torch;table;mobile\_phone  
## 116 mobile\_phone  
## 117 radio;solar\_panel;solar\_torch  
## 118 cow\_cart;cow\_plough;solar\_torch;mobile\_phone  
## 119 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_torch;electricity;table;sofa\_set;mobile\_phone;fridge  
## 120 bicycle;solar\_torch;mobile\_phone  
## 121 motorcyle;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 122 car;lorry;motorcyle;radio;sterio;cow\_plough;solar\_panel;solar\_torch;table;sofa\_set;mobile\_phone;fridge  
## 123 motorcyle;bicycle;radio;sterio;cow\_plough;solar\_panel;table;mobile\_phone  
## 124 motorcyle;radio;sterio;cow\_plough;solar\_panel;table;mobile\_phone  
## 125 radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 126 bicycle;television;radio;sterio;solar\_panel;solar\_torch;table;mobile\_phone  
## 127 motorcyle;radio;solar\_panel  
## 128 car;lorry;television;radio;sterio;cow\_plough;solar\_torch;electricity;table;sofa\_set;mobile\_phone;fridge  
## 129 radio;solar\_panel;solar\_torch;mobile\_phone  
## 130 cow\_cart;lorry;motorcyle;computer;television;radio;sterio;cow\_plough;solar\_panel;solar\_torch;electricity;mobile\_phone  
## 131 radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## no\_meals months\_lack\_food  
## 1 2 Jan  
## 2 2 Jan;Sept;Oct;Nov;Dec  
## 3 2 Jan;Feb;Mar;Oct;Nov;Dec  
## 4 2 Sept;Oct;Nov;Dec  
## 5 2 Aug;Sept;Oct;Nov  
## 6 2 Aug;Sept;Oct  
## 7 3 Nov  
## 8 2 Jan  
## 9 3 Jan;Dec  
## 10 3 Jan;Oct;Nov;Dec  
## 11 2 Oct;Nov  
## 12 3 Sept;Oct  
## 13 2 Sept;Oct;Nov  
## 14 3 June;July;Aug;Sept;Oct;Nov  
## 15 2 Jan;Feb;Mar;Apr;May;June;July;Aug;Sept;Oct;Nov  
## 16 3 Jan;Feb  
## 17 2 Nov;Dec  
## 18 2 Oct;Nov  
## 19 3 Oct;Nov;Dec  
## 20 2 Oct;Nov  
## 21 2 Jan;Feb;Mar;Oct;Nov;Dec  
## 22 2 Jan;Feb;Mar;Apr;Aug;Sept;Oct;Nov;Dec  
## 23 3 none  
## 24 2 Nov;Dec  
## 25 2 Jan;Feb;Oct  
## 26 2 none  
## 27 3 none  
## 28 3 Aug;Sept;Oct  
## 29 3 Jan;Feb  
## 30 2 Jan;Feb  
## 31 3 none  
## 32 2 none  
## 33 2 none  
## 34 2 Jan;Dec  
## 35 3 Jan;Sept;Oct;Nov;Dec  
## 36 3 none  
## 37 3 Jan;Nov;Dec  
## 38 3 Nov  
## 39 3 Nov  
## 40 3 Sept;Oct;Nov  
## 41 3 Oct;Nov  
## 42 3 Jan;Nov;Dec  
## 43 2 Jan;Feb;Oct;Nov;Dec  
## 44 2 Jan;Dec  
## 45 3 none  
## 46 2 Sept;Oct;Nov  
## 47 3 none  
## 48 3 June;July;Aug;Sept;Oct;Nov  
## 49 3 Jan;Nov;Dec  
## 50 2 June;July;Aug;Sept;Oct;Nov;Dec  
## 51 3 Oct;Nov  
## 52 3 Aug;Sept;Oct;Nov  
## 53 2 Nov  
## 54 2 Sept;Oct;Nov  
## 55 2 Oct;Nov  
## 56 3 none  
## 57 2 none  
## 58 2 none  
## 59 2 none  
## 60 2 none  
## 61 3 Jan;Feb;Dec  
## 62 3 Aug;Sept;Oct;Nov  
## 63 3 Jan;Oct;Nov;Dec  
## 64 3 Jan;Feb;Dec  
## 65 3 Jan;Feb;Mar  
## 66 3 none  
## 67 3 none  
## 68 3 none  
## 69 3 none  
## 70 2 none  
## 71 2 Aug;Sept;Oct;Nov  
## 72 2 Aug;Sept;Oct  
## 73 3 Jan;Oct;Nov  
## 74 3 none  
## 75 2 Oct;Nov  
## 76 2 Jan;Sept;Oct;Nov;Dec  
## 77 3 none  
## 78 3 Nov  
## 79 3 Oct;Nov  
## 80 3 none  
## 81 3 Jan;Feb;Nov;Dec  
## 82 3 none  
## 83 3 none  
## 84 2 Sept;Oct;Nov  
## 85 3 none  
## 86 2 Nov  
## 87 3 Nov  
## 88 2 Oct;Nov;Dec  
## 89 3 Jan;Feb;Mar;Oct;Nov;Dec  
## 90 2 Jan;Aug;Sept;Oct;Nov;Dec  
## 91 3 Jan;Sept;Oct  
## 92 3 none  
## 93 2 Aug;Sept;Oct  
## 94 2 Oct;Nov  
## 95 3 Oct;Nov  
## 96 3 Sept;Oct;Nov  
## 97 3 Jan;Feb;Dec  
## 98 3 Jan;Feb  
## 99 2 Aug;Sept;Oct  
## 100 3 none  
## 101 3 Jan;Feb;Dec  
## 102 3 Jan;Feb;Dec  
## 103 3 Oct;Nov;Dec  
## 104 3 July;Aug;Sept;Oct;Nov  
## 105 2 none  
## 106 3 none  
## 107 3 Oct;Nov;Dec  
## 108 3 Jan;Sept;Oct;Nov;Dec  
## 109 3 none  
## 110 3 none  
## 111 3 Aug;Sept;Oct;Nov  
## 112 3 Jan;Nov;Dec  
## 113 3 Jan;Feb;Nov;Dec  
## 114 2 none  
## 115 3 Jan;Dec  
## 116 3 Sept;Oct;Nov  
## 117 3 Sept;Oct;Nov  
## 118 2 Nov  
## 119 3 none  
## 120 2 Feb;Mar  
## 121 2 Jan;Nov;Dec  
## 122 3 Jan;Feb;Dec  
## 123 2 Jan;Oct;Nov;Dec  
## 124 3 Nov  
## 125 2 Oct;Nov;Dec  
## 126 3 Jan;Nov;Dec  
## 127 3 Oct;Nov;Dec  
## 128 3 none  
## 129 3 Sept;Oct;Nov  
## 130 3 Nov;Dec  
## 131 3 Oct;Nov  
## instanceID pepole\_per\_room  
## 1 uuid:ec241f2c-0609-46ed-b5e8-fe575f6cefef 3.0000000  
## 2 uuid:099de9c9-3e5e-427b-8452-26250e840d6e 7.0000000  
## 3 uuid:193d7daf-9582-409b-bf09-027dd36f9007 10.0000000  
## 4 uuid:148d1105-778a-4755-aa71-281eadd4a973 7.0000000  
## 5 uuid:2c867811-9696-4966-9866-f35c3e97d02d 7.0000000  
## 6 uuid:daa56c91-c8e3-44c3-a663-af6a49a2ca70 3.0000000  
## 7 uuid:ae20a58d-56f4-43d7-bafa-e7963d850844 6.0000000  
## 8 uuid:d6cee930-7be1-4fd9-88c0-82a08f90fb5a 4.0000000  
## 9 uuid:846103d2-b1db-4055-b502-9cd510bb7b37 8.0000000  
## 10 uuid:8f4e49bc-da81-4356-ae34-e0d794a23721 2.4000000  
## 11 uuid:d29b44e3-3348-4afc-aa4d-9eb34c89d483 6.0000000  
## 12 uuid:e6ee6269-b467-4e37-91fc-5e9eaf934557 2.3333333  
## 13 uuid:6c00c145-ee3b-409c-8c02-2c8d743b6918 6.0000000  
## 14 uuid:9b21467f-1116-4340-a3b1-1ab64f13c87d 3.3333333  
## 15 uuid:a837e545-ff86-4a1c-a1a5-6186804b985f 2.5000000  
## 16 uuid:d17db52f-4b87-4768-b534-ea8f9704c565 6.0000000  
## 17 uuid:4707f3dc-df18-4348-9c2c-eec651e89b6b 8.0000000  
## 18 uuid:7ffe7bd1-a15c-420c-a137-e1f006c317a3 4.0000000  
## 19 uuid:e32f2dc0-0d05-42fb-8e21-605757ddf07d 4.5000000  
## 20 uuid:d1005274-bf52-4e79-8380-3350dd7c2bac 6.0000000  
## 21 uuid:6570a7d0-6a0b-452c-aa2e-922500e35749 8.0000000  
## 22 uuid:a51c3006-8847-46ff-9d4e-d29919b8ecf9 4.0000000  
## 23 uuid:58b37b6d-d6cd-4414-8790-b9c68bca98de 2.5000000  
## 24 uuid:661457d3-7e61-45e8-a238-7415e7548f82 3.0000000  
## 25 uuid:45ed84c4-114e-4df0-9f5d-c800806c2bee 3.6666667  
## 26 uuid:1c54ee24-22c4-4ee9-b1ad-42d483c08e2e 1.5000000  
## 27 uuid:3197cded-1fdc-4c0c-9b10-cfcc0bf49c4d 3.5000000  
## 28 uuid:1de53318-a8cf-4736-99b1-8239f8822473 2.0000000  
## 29 uuid:adcd7463-8943-4c67-b25f-f72311409476 3.5000000  
## 30 uuid:59341ead-92be-45a9-8545-6edf9f94fdc6 3.5000000  
## 31 uuid:cb06eb49-dd39-4150-8bbe-a599e074afe8 3.0000000  
## 32 uuid:25597af3-cd79-449c-a48a-fb9aea6c48bf 9.5000000  
## 33 uuid:0fbd2df1-2640-4550-9fbd-7317feaa4758 8.0000000  
## 34 uuid:14c78c45-a7cc-4b2a-b765-17c82b43feb4 2.6666667  
## 35 uuid:ff7496e7-984a-47d3-a8a1-13618b5683ce 5.0000000  
## 36 uuid:c90eade0-1148-4a12-8c0e-6387a36f45b1 6.0000000  
## 37 uuid:408c6c93-d723-45ef-8dee-1b1bd3fe20cd 3.0000000  
## 38 uuid:81309594-ff58-4dc1-83a7-72af5952ee08 10.0000000  
## 39 uuid:c0fb6310-55af-4831-ae3d-2729556c3285 6.0000000  
## 40 uuid:c0b34854-eede-4e81-b183-ef58a45bfc34 9.0000000  
## 41 uuid:b3ba34d8-eea1-453d-bc73-c141bcbbc5e5 7.0000000  
## 42 uuid:e3a1dd8a-1bda-428c-a014-2b527f11ae64 8.0000000  
## 43 uuid:b4dff49f-ef27-40e5-a9d1-acf287b47358 7.0000000  
## 44 uuid:f9fadf44-d040-4fca-86c1-2835f79c4952 2.0000000  
## 45 uuid:e3554d22-35b1-4fb9-b386-dd5866ad5792 9.0000000  
## 46 uuid:35f297e0-aa5d-4149-9b7b-4965004cfc37 5.0000000  
## 47 uuid:2d0b1936-4f82-4ec3-a3b5-7c3c8cd6cc2b 2.0000000  
## 48 uuid:e180899c-7614-49eb-a97c-40ed013a38a2 7.0000000  
## 49 uuid:2303ebc1-2b3c-475a-8916-b322ebf18440 3.0000000  
## 50 uuid:4267c33c-53a7-46d9-8bd6-b96f58a4f92c 6.0000000  
## 51 uuid:18ac8e77-bdaf-47ab-85a2-e4c947c9d3ce 5.0000000  
## 52 uuid:6db55cb4-a853-4000-9555-757b7fae2bcf 3.6666667  
## 53 uuid:cc7f75c5-d13e-43f3-97e5-4f4c03cb4b12 2.6666667  
## 54 uuid:273ab27f-9be3-4f3b-83c9-d3e1592de919 7.0000000  
## 55 uuid:883c0433-9891-4121-bc63-744f082c1fa0 4.5000000  
## 56 uuid:973c4ac6-f887-48e7-aeaf-4476f2cfab76 6.0000000  
## 57 uuid:a7184e55-0615-492d-9835-8f44f3b03a71 4.0000000  
## 58 uuid:a7a3451f-cd0d-4027-82d9-8dcd1234fcca 3.6666667  
## 59 uuid:1936db62-5732-45dc-98ff-9b3ac7a22518 0.6666667  
## 60 uuid:85465caf-23e4-4283-bb72-a0ef30e30176 4.0000000  
## 61 uuid:2401cf50-8859-44d9-bd14-1bf9128766f2 10.0000000  
## 62 uuid:c6597ecc-cc2a-4c35-a6dc-e62c71b345d6 5.0000000  
## 63 uuid:86ed4328-7688-462f-aac7-d6518414526a 4.0000000  
## 64 uuid:28cfd718-bf62-4d90-8100-55fafbe45d06 6.0000000  
## 65 uuid:143f7478-0126-4fbc-86e0-5d324339206b 2.6666667  
## 66 uuid:a457eab8-971b-4417-a971-2e55b8702816 3.3333333  
## 67 uuid:6c15d667-2860-47e3-a5e7-7f679271e419 2.5000000  
## 68 uuid:ef04b3eb-b47d-412e-9b09-4f5e08fc66f9 2.6666667  
## 69 uuid:f86933a5-12b8-4427-b821-43c5b039401d 4.0000000  
## 70 uuid:1feb0108-4599-4bf9-8a07-1f5e66a50a0a 4.0000000  
## 71 uuid:761f9c49-ec93-4932-ba4c-cc7b78dfcef1 6.0000000  
## 72 uuid:f6d04b41-b539-4e00-868a-0f62b427587d 0.5000000  
## 73 uuid:429d279a-a519-4dcc-9f64-4673b0fd5d53 2.5000000  
## 74 uuid:59738c17-1cda-49ee-a563-acd76f6bc487 10.0000000  
## 75 uuid:7e7961ca-fa1c-4567-9bfa-a02f876e4e03 5.0000000  
## 76 uuid:77b3021b-a9d6-4276-aaeb-5bfcfd413852 4.0000000  
## 77 uuid:2186e2ec-f65a-47cc-9bc1-a0f36dd9591c 2.5000000  
## 78 uuid:87998c33-c8d2-49ec-9dae-c123735957ec 10.0000000  
## 79 uuid:ece89122-ea99-4378-b67e-a170127ec4e6 7.0000000  
## 80 uuid:bf373763-dca5-4906-901b-d1bacb4f0286 5.5000000  
## 81 uuid:394033e8-a6e2-4e39-bfac-458753a1ed78 2.3333333  
## 82 uuid:268bfd97-991c-473f-bd51-bc80676c65c6 7.0000000  
## 83 uuid:0a42c9ee-a840-4dda-8123-15c1bede5dfc 2.5000000  
## 84 uuid:2c132929-9c8f-450a-81ff-367360ce2c19 5.0000000  
## 85 uuid:44e427d1-a448-4bf2-b529-7d67b2266c06 3.5000000  
## 86 uuid:85c99fd2-775f-40c9-8654-68223f59d091 2.5000000  
## 87 uuid:28c64954-739c-444c-a6e0-355878e471c8 3.0000000  
## 88 uuid:9e79a31c-3ea5-44f0-80f9-a32db49422e3 2.0000000  
## 89 uuid:06d39051-38ef-4757-b68b-3327b1f16b9d 3.0000000  
## 90 uuid:c4a2c982-244e-45a5-aa4b-71fa53f99e18 6.0000000  
## 91 uuid:ac3da862-9e6c-4962-94b6-f4c31624f207 3.5000000  
## 92 uuid:4178a296-903a-4a8e-9cfa-0cd6143476e8 8.5000000  
## 93 uuid:a1e9df00-c8ae-411c-931c-c7df898c68d0 5.0000000  
## 94 uuid:4d0f472b-f8ae-4026-87c9-6b5be14b0a70 7.0000000  
## 95 uuid:b3b309c6-f234-4830-8b30-87d26a17ee1d 2.5000000  
## 96 uuid:3c174acd-e431-4523-9ad6-eb14cddca805 3.0000000  
## 97 uuid:e9d79844-ef14-493b-bbd6-d13691cc660e 6.0000000  
## 98 uuid:76206b0b-af74-4344-b24f-81e839f0d7b0 6.0000000  
## 99 uuid:da3fa7cc-5ce9-44fd-9a78-b8982b607515 6.0000000  
## 100 uuid:a85df6df-0336-46fa-a9f4-522bf6f8b438 5.0000000  
## 101 uuid:bb2bb365-7d7d-4fe9-9353-b21269676119 14.0000000  
## 102 uuid:af0904ee-4fdb-4090-973f-599c81ddf022 6.0000000  
## 103 uuid:468797c1-4a65-4f35-9c83-e28ce46972a2 3.0000000  
## 104 uuid:602cd3f6-4a97-49c6-80e3-bcfd5c78dfa4 4.0000000  
## 105 uuid:e7c51ac4-24e4-475e-88e7-f85e896945e3 2.0000000  
## 106 uuid:01210861-aba1-4268-98d0-0260e05f5155 3.6666667  
## 107 uuid:77335b2e-8812-4a35-b1e5-ca9ab626dfea 5.0000000  
## 108 uuid:02b05c68-302e-4e7a-b229-81cb1377fd29 5.0000000  
## 109 uuid:fa201fce-4e94-44b8-b435-c558c2e1ed55 3.0000000  
## 110 uuid:628fe23d-188f-43e4-a203-a4bf3257d461 2.0000000  
## 111 uuid:e4f4d6ba-e698-45a5-947f-ba6da88cc22b 7.5000000  
## 112 uuid:cfee6297-2c0e-4f8a-94cc-9aaee0bd64cb 1.6666667  
## 113 uuid:3fe626b3-c794-48e1-a80f-5bfe440c507b 2.5000000  
## 114 uuid:0670cef6-d233-4852-89d8-36955261b0a3 1.7500000  
## 115 uuid:9a096a12-b335-468c-b3cc-1191180d62de 5.0000000  
## 116 uuid:92613d0d-e7b1-4d62-8ea4-451d7cd0a982 7.0000000  
## 117 uuid:37577f91-d665-443e-8d70-b914954cef4b 4.0000000  
## 118 uuid:f22831ec-6bc3-4b73-9197-4b01e01abb66 3.5000000  
## 119 uuid:62f3f7af-f0f3-4f88-b9e0-acf8baa49ae4 9.0000000  
## 120 uuid:40aac732-94df-496c-97ba-5b67f59bcc7a 11.0000000  
## 121 uuid:a9d1a013-043b-475d-a71b-77ed80abe970 8.0000000  
## 122 uuid:43ec6132-478c-4f87-878d-fb3c0c4d0c74 6.0000000  
## 123 uuid:64fc743e-8176-40f6-8ae4-36ae97fac1d9 7.0000000  
## 124 uuid:c17e374c-280b-4e78-bf21-74a7c1c73492 15.0000000  
## 125 uuid:dad53aff-b520-4015-a9e3-f5fdf9168fe1 2.5000000  
## 126 uuid:f94409a6-e461-4e4c-a6fb-0072d3d58b00 9.0000000  
## 127 uuid:69caea81-a4e5-4e8d-83cd-9c18d8e8d965 3.0000000  
## 128 uuid:5ccc2e5a-ea90-48b5-8542-69400d5334df 2.3333333  
## 129 uuid:95c11a30-d44f-40c4-8ea8-ec34fca6bbbf 4.0000000  
## 130 uuid:ffc83162-ff24-4a87-8709-eff17abc0b3b 3.5000000  
## 131 uuid:aa77a0d7-7142-41c8-b494-483a5b68d8a7 4.0000000

"  
it is function that change the number to integer:  
round()  
"

## [1] "\nit is function that change the number to integer:\nround()\n"

newd1<- Datafile %>%   
 mutate(pepole\_per\_room = round(no\_membrs / rooms))

"  
this function showed to me the NA using factr yes or no  
is.na(data$the\_column\_name)  
TRUE= NA, FALSE = Real value  
"

## [1] "\nthis function showed to me the NA using factr yes or no\nis.na(data$the\_column\_name)\nTRUE= NA, FALSE = Real value\n"

is.na(Datafile$memb\_assoc)

## [1] TRUE FALSE TRUE TRUE TRUE TRUE FALSE FALSE FALSE FALSE TRUE FALSE  
## [13] FALSE TRUE FALSE TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE FALSE  
## [25] FALSE FALSE TRUE FALSE FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE  
## [37] TRUE FALSE TRUE FALSE TRUE FALSE FALSE TRUE FALSE FALSE FALSE TRUE  
## [49] TRUE FALSE TRUE FALSE FALSE FALSE TRUE FALSE FALSE FALSE TRUE FALSE  
## [61] FALSE TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE  
## [73] FALSE FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [85] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [97] FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE TRUE FALSE  
## [109] FALSE TRUE FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [121] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE

"to delete missing vlaue"

## [1] "to delete missing vlaue"

misss <- Datafile %>% select(memb\_assoc)  
  
clean\_miss <- misss %>% select(memb\_assoc) %>%   
 filter(!is.na(memb\_assoc))  
"  
if i used is.na with out ! = it will delete the real value and keep missing value"

## [1] "\nif i used is.na with out ! = it will delete the real value and keep missing value"

"after cleaning"

## [1] "after cleaning"

after\_clean\_and\_filter<- Datafile %>%   
 filter(!is.na(affect\_conflicts)) %>%   
 mutate(pepole\_per\_room = round(no\_membrs / rooms))  
"i will see the data in after\_clean\_and\_filter less than the original data becuse i delet the missing value and the result for the filter is right."

## [1] "i will see the data in after\_clean\_and\_filter less than the original data becuse i delet the missing value and the result for the filter is right."

after\_clean\_and\_filter <- after\_clean\_and\_filter %>%   
 mutate(Total\_meal = no\_membrs \* no\_meals) %>%   
 filter(Total\_meal > 20)  
  
after\_clean\_and\_filter

## key\_ID village interview\_date no\_membrs years\_liv  
## 1 8 Chirodzo 2016-11-16T00:00:00Z 12 70  
## 2 9 Chirodzo 2016-11-16T00:00:00Z 8 6  
## 3 10 Chirodzo 2016-12-16T00:00:00Z 12 23  
## 4 12 God 2016-11-21T00:00:00Z 7 20  
## 5 25 Ruaca 2016-11-21T00:00:00Z 11 6  
## 6 29 Ruaca 2016-11-21T00:00:00Z 7 10  
## 7 32 Ruaca 2016-11-21T00:00:00Z 19 69  
## 8 38 God 2016-11-17T00:00:00Z 10 19  
## 9 40 God 2016-11-17T00:00:00Z 9 23  
## 10 42 God 2016-11-17T00:00:00Z 8 8  
## 11 45 Chirodzo 2016-11-17T00:00:00Z 9 7  
## 12 52 Chirodzo 2016-11-16T00:00:00Z 11 15  
## 13 56 Chirodzo 2016-11-16T00:00:00Z 12 23  
## 14 58 Chirodzo 2016-11-16T00:00:00Z 11 45  
## 15 61 Chirodzo 2016-11-16T00:00:00Z 10 14  
## 16 65 Chirodzo 2016-11-16T00:00:00Z 8 20  
## 17 66 Chirodzo 2016-11-16T00:00:00Z 10 37  
## 18 68 Chirodzo 2016-11-16T00:00:00Z 8 52  
## 19 152 Ruaca 2016-11-24T00:00:00Z 10 16  
## 20 177 God 2016-11-25T00:00:00Z 10 13  
## 21 180 Ruaca 2016-11-25T00:00:00Z 7 50  
## 22 181 God 2016-11-25T00:00:00Z 11 25  
## 23 182 God 2016-11-25T00:00:00Z 7 21  
## 24 186 God 2016-11-28T00:00:00Z 7 24  
## 25 196 God 2016-11-28T00:00:00Z 7 49  
## 26 202 God 2016-11-17T00:00:00Z 12 12  
## 27 73 Ruaca 2017-04-26T00:00:00Z 7 9  
## 28 76 Ruaca 2017-04-26T00:00:00Z 17 48  
## 29 102 Ruaca 2017-04-28T00:00:00Z 12 15  
## 30 104 Ruaca 2017-04-28T00:00:00Z 14 52  
## 31 106 God 2017-04-30T00:00:00Z 15 22  
## 32 113 Ruaca 2017-05-03T00:00:00Z 11 26  
## 33 108 God 2017-05-11T00:00:00Z 15 22  
## 34 143 Ruaca 2017-05-18T00:00:00Z 10 24  
## 35 150 Ruaca 2017-05-18T00:00:00Z 7 8  
## 36 165 Ruaca 2017-06-03T00:00:00Z 9 14  
## 37 166 Ruaca 2017-06-03T00:00:00Z 11 16  
## 38 174 Ruaca 2017-06-03T00:00:00Z 12 25  
## 39 189 Ruaca 2017-06-03T00:00:00Z 15 16  
## 40 192 Chirodzo 2017-06-03T00:00:00Z 9 20  
## 41 193 Ruaca 2017-06-04T00:00:00Z 7 10  
## 42 199 Chirodzo 2017-06-04T00:00:00Z 7 17  
## respondent\_wall\_type rooms memb\_assoc affect\_conflicts liv\_count  
## 1 burntbricks 3 yes never 2  
## 2 burntbricks 1 no never 3  
## 3 burntbricks 5 no never 2  
## 4 burntbricks 3 yes never 2  
## 5 burntbricks 3 no never 2  
## 6 burntbricks 2 yes frequently 1  
## 7 muddaub 2 yes more\_once 5  
## 8 muddaub 1 yes never 3  
## 9 burntbricks 1 yes never 1  
## 10 sunbricks 1 no never 3  
## 11 muddaub 1 no never 4  
## 12 burntbricks 3 no never 3  
## 13 burntbricks 2 yes never 2  
## 14 burntbricks 3 no never 3  
## 15 muddaub 1 yes more\_once 3  
## 16 burntbricks 3 no once 3  
## 17 burntbricks 3 yes frequently 4  
## 18 burntbricks 3 no more\_once 3  
## 19 burntbricks 1 yes once 3  
## 20 sunbricks 1 no more\_once 2  
## 21 muddaub 1 no never 3  
## 22 sunbricks 2 yes more\_once 3  
## 23 muddaub 3 no more\_once 2  
## 24 muddaub 1 no more\_once 2  
## 25 burntbricks 2 yes more\_once 3  
## 26 burntbricks 4 yes more\_once 3  
## 27 burntbricks 2 yes more\_once 3  
## 28 burntbricks 2 yes more\_once 4  
## 29 burntbricks 2 yes frequently 2  
## 30 sunbricks 1 yes never 4  
## 31 sunbricks 5 no never 2  
## 32 burntbricks 3 no never 4  
## 33 burntbricks 2 no never 4  
## 34 burntbricks 2 no frequently 3  
## 35 muddaub 1 no never 1  
## 36 burntbricks 1 no never 3  
## 37 muddaub 1 no never 1  
## 38 burntbricks 2 no never 3  
## 39 sunbricks 1 no never 3  
## 40 burntbricks 1 no once 1  
## 41 cement 3 no more\_once 3  
## 42 burntbricks 2 yes more\_once 2  
## items\_owned  
## 1 motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;table;fridge  
## 2 television;solar\_panel;solar\_torch  
## 3 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;table  
## 4 cow\_cart;bicycle;radio;cow\_plough;table  
## 5 cow\_cart;motorcyle;television;radio;cow\_plough;solar\_panel;solar\_torch;table;sofa\_set;mobile\_phone  
## 6 motorcyle;bicycle;radio;table;mobile\_phone  
## 7 cow\_cart;motorcyle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 8 bicycle;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 9 bicycle;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 10 mobile\_phone  
## 11 motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 12 motorcyle;television;radio;cow\_plough;solar\_panel;mobile\_phone  
## 13 motorcyle;bicycle;mobile\_phone  
## 14 motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;mobile\_phone  
## 15 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 16 motorcyle;radio;cow\_plough;table  
## 17 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 18 motorcyle;television;sterio;solar\_panel;mobile\_phone  
## 19 motorcyle;bicycle;radio;sterio;cow\_plough;solar\_panel;mobile\_phone  
## 20 motorcyle;television;cow\_plough;solar\_panel;mobile\_phone  
## 21 cow\_plough;solar\_panel  
## 22 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;mobile\_phone  
## 23 solar\_panel  
## 24 cow\_plough;mobile\_phone  
## 25 radio;cow\_plough;mobile\_phone  
## 26 cow\_cart;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 27 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 28 bicycle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 29 cow\_plough;table;sofa\_set;mobile\_phone  
## 30 cow\_cart;bicycle;cow\_plough  
## 31 cow\_cart;motorcyle;bicycle;radio;sterio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 32 cow\_cart;motorcyle;bicycle;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 33 cow\_cart;bicycle;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 34 cow\_cart;motorcyle;television;radio;cow\_plough;solar\_torch;table;mobile\_phone  
## 35 mobile\_phone  
## 36 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_torch;electricity;table;sofa\_set;mobile\_phone;fridge  
## 37 bicycle;solar\_torch;mobile\_phone  
## 38 car;lorry;motorcyle;radio;sterio;cow\_plough;solar\_panel;solar\_torch;table;sofa\_set;mobile\_phone;fridge  
## 39 motorcyle;radio;sterio;cow\_plough;solar\_panel;table;mobile\_phone  
## 40 bicycle;television;radio;sterio;solar\_panel;solar\_torch;table;mobile\_phone  
## 41 car;lorry;television;radio;sterio;cow\_plough;solar\_torch;electricity;table;sofa\_set;mobile\_phone;fridge  
## 42 cow\_cart;lorry;motorcyle;computer;television;radio;sterio;cow\_plough;solar\_panel;solar\_torch;electricity;mobile\_phone  
## no\_meals months\_lack\_food instanceID  
## 1 2 Jan uuid:d6cee930-7be1-4fd9-88c0-82a08f90fb5a  
## 2 3 Jan;Dec uuid:846103d2-b1db-4055-b502-9cd510bb7b37  
## 3 3 Jan;Oct;Nov;Dec uuid:8f4e49bc-da81-4356-ae34-e0d794a23721  
## 4 3 Sept;Oct uuid:e6ee6269-b467-4e37-91fc-5e9eaf934557  
## 5 2 Jan;Feb;Oct uuid:45ed84c4-114e-4df0-9f5d-c800806c2bee  
## 6 3 Jan;Feb uuid:adcd7463-8943-4c67-b25f-f72311409476  
## 7 2 none uuid:25597af3-cd79-449c-a48a-fb9aea6c48bf  
## 8 3 Nov uuid:81309594-ff58-4dc1-83a7-72af5952ee08  
## 9 3 Sept;Oct;Nov uuid:c0b34854-eede-4e81-b183-ef58a45bfc34  
## 10 3 Jan;Nov;Dec uuid:e3a1dd8a-1bda-428c-a014-2b527f11ae64  
## 11 3 none uuid:e3554d22-35b1-4fb9-b386-dd5866ad5792  
## 12 3 Aug;Sept;Oct;Nov uuid:6db55cb4-a853-4000-9555-757b7fae2bcf  
## 13 3 none uuid:973c4ac6-f887-48e7-aeaf-4476f2cfab76  
## 14 2 none uuid:a7a3451f-cd0d-4027-82d9-8dcd1234fcca  
## 15 3 Jan;Feb;Dec uuid:2401cf50-8859-44d9-bd14-1bf9128766f2  
## 16 3 Jan;Feb;Mar uuid:143f7478-0126-4fbc-86e0-5d324339206b  
## 17 3 none uuid:a457eab8-971b-4417-a971-2e55b8702816  
## 18 3 none uuid:ef04b3eb-b47d-412e-9b09-4f5e08fc66f9  
## 19 3 none uuid:59738c17-1cda-49ee-a563-acd76f6bc487  
## 20 3 Nov uuid:87998c33-c8d2-49ec-9dae-c123735957ec  
## 21 3 Oct;Nov uuid:ece89122-ea99-4378-b67e-a170127ec4e6  
## 22 3 none uuid:bf373763-dca5-4906-901b-d1bacb4f0286  
## 23 3 Jan;Feb;Nov;Dec uuid:394033e8-a6e2-4e39-bfac-458753a1ed78  
## 24 3 none uuid:268bfd97-991c-473f-bd51-bc80676c65c6  
## 25 3 none uuid:44e427d1-a448-4bf2-b529-7d67b2266c06  
## 26 3 Jan;Feb;Mar;Oct;Nov;Dec uuid:06d39051-38ef-4757-b68b-3327b1f16b9d  
## 27 3 Jan;Sept;Oct uuid:ac3da862-9e6c-4962-94b6-f4c31624f207  
## 28 3 none uuid:4178a296-903a-4a8e-9cfa-0cd6143476e8  
## 29 3 Jan;Feb uuid:76206b0b-af74-4344-b24f-81e839f0d7b0  
## 30 3 Jan;Feb;Dec uuid:bb2bb365-7d7d-4fe9-9353-b21269676119  
## 31 3 Oct;Nov;Dec uuid:468797c1-4a65-4f35-9c83-e28ce46972a2  
## 32 3 none uuid:01210861-aba1-4268-98d0-0260e05f5155  
## 33 3 Aug;Sept;Oct;Nov uuid:e4f4d6ba-e698-45a5-947f-ba6da88cc22b  
## 34 3 Jan;Dec uuid:9a096a12-b335-468c-b3cc-1191180d62de  
## 35 3 Sept;Oct;Nov uuid:92613d0d-e7b1-4d62-8ea4-451d7cd0a982  
## 36 3 none uuid:62f3f7af-f0f3-4f88-b9e0-acf8baa49ae4  
## 37 2 Feb;Mar uuid:40aac732-94df-496c-97ba-5b67f59bcc7a  
## 38 3 Jan;Feb;Dec uuid:43ec6132-478c-4f87-878d-fb3c0c4d0c74  
## 39 3 Nov uuid:c17e374c-280b-4e78-bf21-74a7c1c73492  
## 40 3 Jan;Nov;Dec uuid:f94409a6-e461-4e4c-a6fb-0072d3d58b00  
## 41 3 none uuid:5ccc2e5a-ea90-48b5-8542-69400d5334df  
## 42 3 Nov;Dec uuid:ffc83162-ff24-4a87-8709-eff17abc0b3b  
## pepole\_per\_room Total\_meal  
## 1 4 24  
## 2 8 24  
## 3 2 36  
## 4 2 21  
## 5 4 22  
## 6 4 21  
## 7 10 38  
## 8 10 30  
## 9 9 27  
## 10 8 24  
## 11 9 27  
## 12 4 33  
## 13 6 36  
## 14 4 22  
## 15 10 30  
## 16 3 24  
## 17 3 30  
## 18 3 24  
## 19 10 30  
## 20 10 30  
## 21 7 21  
## 22 6 33  
## 23 2 21  
## 24 7 21  
## 25 4 21  
## 26 3 36  
## 27 4 21  
## 28 8 51  
## 29 6 36  
## 30 14 42  
## 31 3 45  
## 32 4 33  
## 33 8 45  
## 34 5 30  
## 35 7 21  
## 36 9 27  
## 37 11 22  
## 38 6 36  
## 39 15 45  
## 40 9 27  
## 41 2 21  
## 42 4 21

view(after\_clean\_and\_filter)  
  
"another way to write mutate"

## [1] "another way to write mutate"

grouped <- Datafile %>%   
 group\_by(village) %>%   
 summarise(mean = mean(no\_membrs), max= max(no\_membrs)) %>%   
 ungroup()  
  
view(grouped)

"code from me: How to creat data in table with spesific values"

## [1] "code from me: How to creat data in table with spesific values"

dff <- data.frame(  
 Name = c ("a", "B", "C"),  
 Age = c (5, 42, 37)  
)

"Usualy we use summary after group by"

## [1] "Usualy we use summary after group by"

Datafile %>%  
 group\_by(no\_meals) %>%   
 summarise(count = n())

## # A tibble: 2 × 2  
## no\_meals count  
## <int> <int>  
## 1 2 52  
## 2 3 79

Datafile %>%  
 group\_by(no\_meals) %>%   
 count()

## # A tibble: 2 × 2  
## # Groups: no\_meals [2]  
## no\_meals n  
## <int> <int>  
## 1 2 52  
## 2 3 79

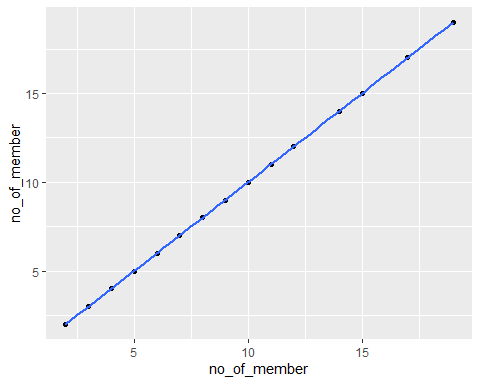
import ggplot

library(ggplot2)

# ggplot

ggplot(Datafile, aes(x=no\_of\_member, y=no\_of\_member))+  
 geom\_point() +  
 geom\_smooth() +  
 coord\_flip() +  
 theme(legend.position = "none")

## `geom\_smooth()` using method = 'loess' and formula 'y ~ x'



Datafile

## key\_ID village interview\_date no\_membrs years\_liv  
## 1 1 God 2016-11-17T00:00:00Z 3 4  
## 2 1 God 2016-11-17T00:00:00Z 7 9  
## 3 3 God 2016-11-17T00:00:00Z 10 15  
## 4 4 God 2016-11-17T00:00:00Z 7 6  
## 5 5 God 2016-11-17T00:00:00Z 7 40  
## 6 6 God 2016-11-17T00:00:00Z 3 3  
## 7 7 God 2016-11-17T00:00:00Z 6 38  
## 8 8 Chirodzo 2016-11-16T00:00:00Z 12 70  
## 9 9 Chirodzo 2016-11-16T00:00:00Z 8 6  
## 10 10 Chirodzo 2016-12-16T00:00:00Z 12 23  
## 11 11 God 2016-11-21T00:00:00Z 6 20  
## 12 12 God 2016-11-21T00:00:00Z 7 20  
## 13 13 God 2016-11-21T00:00:00Z 6 8  
## 14 14 God 2016-11-21T00:00:00Z 10 20  
## 15 15 God 2016-11-21T00:00:00Z 5 30  
## 16 16 God 2016-11-24T00:00:00Z 6 47  
## 17 17 God 2016-11-21T00:00:00Z 8 20  
## 18 18 God 2016-11-21T00:00:00Z 4 20  
## 19 19 God 2016-11-21T00:00:00Z 9 23  
## 20 20 God 2016-11-21T00:00:00Z 6 1  
## 21 21 God 2016-11-21T00:00:00Z 8 20  
## 22 22 God 2016-11-21T00:00:00Z 4 20  
## 23 23 Ruaca 2016-11-21T00:00:00Z 10 20  
## 24 24 Ruaca 2016-11-21T00:00:00Z 6 4  
## 25 25 Ruaca 2016-11-21T00:00:00Z 11 6  
## 26 26 Ruaca 2016-11-21T00:00:00Z 3 20  
## 27 27 Ruaca 2016-11-21T00:00:00Z 7 36  
## 28 28 Ruaca 2016-11-21T00:00:00Z 2 2  
## 29 29 Ruaca 2016-11-21T00:00:00Z 7 10  
## 30 30 Ruaca 2016-11-21T00:00:00Z 7 22  
## 31 31 Ruaca 2016-11-21T00:00:00Z 3 2  
## 32 32 Ruaca 2016-11-21T00:00:00Z 19 69  
## 33 33 Ruaca 2016-11-21T00:00:00Z 8 34  
## 34 34 Chirodzo 2016-11-17T00:00:00Z 8 18  
## 35 35 Chirodzo 2016-11-17T00:00:00Z 5 45  
## 36 36 Chirodzo 2016-11-17T00:00:00Z 6 23  
## 37 37 Chirodzo 2016-11-17T00:00:00Z 3 8  
## 38 38 God 2016-11-17T00:00:00Z 10 19  
## 39 39 God 2016-11-17T00:00:00Z 6 22  
## 40 40 God 2016-11-17T00:00:00Z 9 23  
## 41 41 God 2016-11-17T00:00:00Z 7 22  
## 42 42 God 2016-11-17T00:00:00Z 8 8  
## 43 43 Chirodzo 2016-11-17T00:00:00Z 7 29  
## 44 44 Chirodzo 2016-11-17T00:00:00Z 2 6  
## 45 45 Chirodzo 2016-11-17T00:00:00Z 9 7  
## 46 46 Chirodzo 2016-11-17T00:00:00Z 10 42  
## 47 47 Chirodzo 2016-11-17T00:00:00Z 2 2  
## 48 48 Chirodzo 2016-11-16T00:00:00Z 7 58  
## 49 49 Chirodzo 2016-11-16T00:00:00Z 6 26  
## 50 50 Chirodzo 2016-11-16T00:00:00Z 6 7  
## 51 51 Chirodzo 2016-11-16T00:00:00Z 5 30  
## 52 52 Chirodzo 2016-11-16T00:00:00Z 11 15  
## 53 21 Chirodzo 2016-11-16T00:00:00Z 8 16  
## 54 54 Chirodzo 2016-11-16T00:00:00Z 7 15  
## 55 55 Chirodzo 2016-11-16T00:00:00Z 9 23  
## 56 56 Chirodzo 2016-11-16T00:00:00Z 12 23  
## 57 57 Chirodzo 2016-11-16T00:00:00Z 4 27  
## 58 58 Chirodzo 2016-11-16T00:00:00Z 11 45  
## 59 59 Chirodzo 2016-11-16T00:00:00Z 2 60  
## 60 60 Chirodzo 2016-11-16T00:00:00Z 8 15  
## 61 61 Chirodzo 2016-11-16T00:00:00Z 10 14  
## 62 62 Chirodzo 2016-11-16T00:00:00Z 5 5  
## 63 63 Chirodzo 2016-11-16T00:00:00Z 4 10  
## 64 64 Chirodzo 2016-11-16T00:00:00Z 6 1  
## 65 65 Chirodzo 2016-11-16T00:00:00Z 8 20  
## 66 66 Chirodzo 2016-11-16T00:00:00Z 10 37  
## 67 67 Chirodzo 2016-11-16T00:00:00Z 5 31  
## 68 68 Chirodzo 2016-11-16T00:00:00Z 8 52  
## 69 69 Chirodzo 2016-11-16T00:00:00Z 4 12  
## 70 70 Chirodzo 2016-11-16T00:00:00Z 8 25  
## 71 71 Ruaca 2016-11-18T00:00:00Z 6 14  
## 72 127 Chirodzo 2016-11-16T00:00:00Z 4 18  
## 73 133 Ruaca 2016-11-23T00:00:00Z 5 25  
## 74 152 Ruaca 2016-11-24T00:00:00Z 10 16  
## 75 153 Ruaca 2016-11-24T00:00:00Z 5 41  
## 76 155 God 2016-11-24T00:00:00Z 4 4  
## 77 178 Ruaca 2016-11-25T00:00:00Z 5 79  
## 78 177 God 2016-11-25T00:00:00Z 10 13  
## 79 180 Ruaca 2016-11-25T00:00:00Z 7 50  
## 80 181 God 2016-11-25T00:00:00Z 11 25  
## 81 182 God 2016-11-25T00:00:00Z 7 21  
## 82 186 God 2016-11-28T00:00:00Z 7 24  
## 83 187 God 2016-11-28T00:00:00Z 5 43  
## 84 195 God 2016-11-28T00:00:00Z 5 48  
## 85 196 God 2016-11-28T00:00:00Z 7 49  
## 86 197 God 2016-11-28T00:00:00Z 5 19  
## 87 198 God 2016-11-28T00:00:00Z 3 49  
## 88 201 God 2016-11-21T00:00:00Z 4 6  
## 89 202 God 2016-11-17T00:00:00Z 12 12  
## 90 72 Ruaca 2017-04-26T00:00:00Z 6 24  
## 91 73 Ruaca 2017-04-26T00:00:00Z 7 9  
## 92 76 Ruaca 2017-04-26T00:00:00Z 17 48  
## 93 83 Ruaca 2017-04-27T00:00:00Z 5 22  
## 94 85 Ruaca 2017-04-27T00:00:00Z 7 40  
## 95 89 God 2017-04-27T00:00:00Z 5 10  
## 96 101 God 2017-04-27T00:00:00Z 3 4  
## 97 103 Ruaca 2017-04-27T00:00:00Z 6 96  
## 98 102 Ruaca 2017-04-28T00:00:00Z 12 15  
## 99 78 Ruaca 2017-04-28T00:00:00Z 6 48  
## 100 80 Ruaca 2017-04-28T00:00:00Z 5 12  
## 101 104 Ruaca 2017-04-28T00:00:00Z 14 52  
## 102 105 Ruaca 2017-04-28T00:00:00Z 6 40  
## 103 106 God 2017-04-30T00:00:00Z 15 22  
## 104 109 God 2017-05-03T00:00:00Z 4 12  
## 105 110 Ruaca 2017-05-03T00:00:00Z 6 22  
## 106 113 Ruaca 2017-05-03T00:00:00Z 11 26  
## 107 118 Ruaca 2017-05-04T00:00:00Z 5 25  
## 108 125 Ruaca 2017-05-04T00:00:00Z 5 14  
## 109 119 Ruaca 2017-05-04T00:00:00Z 3 14  
## 110 115 Ruaca 2017-05-11T00:00:00Z 4 16  
## 111 108 God 2017-05-11T00:00:00Z 15 22  
## 112 116 Ruaca 2017-05-11T00:00:00Z 5 25  
## 113 117 Ruaca 2017-05-11T00:00:00Z 10 28  
## 114 144 Ruaca 2017-05-18T00:00:00Z 7 5  
## 115 143 Ruaca 2017-05-18T00:00:00Z 10 24  
## 116 150 Ruaca 2017-05-18T00:00:00Z 7 8  
## 117 159 God 2017-05-18T00:00:00Z 4 24  
## 118 160 God 2017-06-03T00:00:00Z 7 13  
## 119 165 Ruaca 2017-06-03T00:00:00Z 9 14  
## 120 166 Ruaca 2017-06-03T00:00:00Z 11 16  
## 121 167 Ruaca 2017-06-03T00:00:00Z 8 24  
## 122 174 Ruaca 2017-06-03T00:00:00Z 12 25  
## 123 175 Ruaca 2017-06-03T00:00:00Z 7 36  
## 124 189 Ruaca 2017-06-03T00:00:00Z 15 16  
## 125 191 Ruaca 2017-06-03T00:00:00Z 10 5  
## 126 192 Chirodzo 2017-06-03T00:00:00Z 9 20  
## 127 126 Ruaca 2017-05-18T00:00:00Z 3 7  
## 128 193 Ruaca 2017-06-04T00:00:00Z 7 10  
## 129 194 Ruaca 2017-06-04T00:00:00Z 4 5  
## 130 199 Chirodzo 2017-06-04T00:00:00Z 7 17  
## 131 200 Chirodzo 2017-06-04T00:00:00Z 8 20  
## respondent\_wall\_type rooms memb\_assoc affect\_conflicts liv\_count  
## 1 muddaub 1 <NA> <NA> 1  
## 2 muddaub 1 yes once 3  
## 3 burntbricks 1 <NA> <NA> 1  
## 4 burntbricks 1 <NA> <NA> 2  
## 5 burntbricks 1 <NA> <NA> 4  
## 6 muddaub 1 <NA> <NA> 1  
## 7 muddaub 1 no never 1  
## 8 burntbricks 3 yes never 2  
## 9 burntbricks 1 no never 3  
## 10 burntbricks 5 no never 2  
## 11 sunbricks 1 <NA> <NA> 2  
## 12 burntbricks 3 yes never 2  
## 13 burntbricks 1 no never 3  
## 14 burntbricks 3 <NA> <NA> 3  
## 15 sunbricks 2 yes once 3  
## 16 muddaub 1 <NA> <NA> 4  
## 17 sunbricks 1 <NA> <NA> 1  
## 18 muddaub 1 <NA> <NA> 3  
## 19 burntbricks 2 <NA> <NA> 2  
## 20 burntbricks 1 <NA> <NA> 1  
## 21 burntbricks 1 no never 3  
## 22 muddaub 1 <NA> <NA> 1  
## 23 burntbricks 4 <NA> <NA> 3  
## 24 burntbricks 2 no never 3  
## 25 burntbricks 3 no never 2  
## 26 burntbricks 2 no never 2  
## 27 burntbricks 2 <NA> <NA> 3  
## 28 muddaub 1 no more\_once 1  
## 29 burntbricks 2 yes frequently 1  
## 30 muddaub 2 <NA> <NA> 1  
## 31 muddaub 1 <NA> <NA> 1  
## 32 muddaub 2 yes more\_once 5  
## 33 muddaub 1 no more\_once 2  
## 34 burntbricks 3 yes more\_once 3  
## 35 muddaub 1 yes more\_once 2  
## 36 sunbricks 1 yes once 3  
## 37 burntbricks 1 <NA> <NA> 2  
## 38 muddaub 1 yes never 3  
## 39 muddaub 1 <NA> <NA> 1  
## 40 burntbricks 1 yes never 1  
## 41 muddaub 1 <NA> <NA> 2  
## 42 sunbricks 1 no never 3  
## 43 muddaub 1 no never 2  
## 44 muddaub 1 <NA> <NA> 3  
## 45 muddaub 1 no never 4  
## 46 burntbricks 2 no once 2  
## 47 muddaub 1 yes once 1  
## 48 muddaub 1 <NA> <NA> 3  
## 49 burntbricks 2 <NA> <NA> 2  
## 50 muddaub 1 yes never 1  
## 51 muddaub 1 <NA> <NA> 1  
## 52 burntbricks 3 no never 3  
## 53 burntbricks 3 yes frequently 2  
## 54 muddaub 1 no never 1  
## 55 muddaub 2 <NA> <NA> 1  
## 56 burntbricks 2 yes never 2  
## 57 burntbricks 1 no never 1  
## 58 burntbricks 3 no never 3  
## 59 muddaub 3 <NA> <NA> 3  
## 60 burntbricks 2 no never 4  
## 61 muddaub 1 yes more\_once 3  
## 62 muddaub 1 <NA> <NA> 1  
## 63 muddaub 1 <NA> <NA> 1  
## 64 muddaub 1 <NA> <NA> 1  
## 65 burntbricks 3 no once 3  
## 66 burntbricks 3 yes frequently 4  
## 67 burntbricks 2 no more\_once 4  
## 68 burntbricks 3 no more\_once 3  
## 69 muddaub 1 no more\_once 1  
## 70 burntbricks 2 no more\_once 4  
## 71 burntbricks 1 yes more\_once 3  
## 72 burntbricks 8 <NA> <NA> 1  
## 73 burntbricks 2 no never 5  
## 74 burntbricks 1 yes once 3  
## 75 burntbricks 1 <NA> <NA> 1  
## 76 burntbricks 1 <NA> <NA> 1  
## 77 burntbricks 2 yes frequently 3  
## 78 sunbricks 1 no more\_once 2  
## 79 muddaub 1 no never 3  
## 80 sunbricks 2 yes more\_once 3  
## 81 muddaub 3 no more\_once 2  
## 82 muddaub 1 no more\_once 2  
## 83 muddaub 2 yes more\_once 4  
## 84 burntbricks 1 no never 3  
## 85 burntbricks 2 yes more\_once 3  
## 86 burntbricks 2 no more\_once 3  
## 87 burntbricks 1 no never 1  
## 88 muddaub 2 <NA> <NA> 2  
## 89 burntbricks 4 yes more\_once 3  
## 90 muddaub 1 yes more\_once 3  
## 91 burntbricks 2 yes more\_once 3  
## 92 burntbricks 2 yes more\_once 4  
## 93 burntbricks 1 yes never 2  
## 94 sunbricks 1 no never 2  
## 95 burntbricks 2 no never 3  
## 96 muddaub 1 no never 1  
## 97 sunbricks 1 no never 5  
## 98 burntbricks 2 yes frequently 2  
## 99 burntbricks 1 no more\_once 2  
## 100 muddaub 1 no more\_once 1  
## 101 sunbricks 1 yes never 4  
## 102 sunbricks 1 yes frequently 2  
## 103 sunbricks 5 no never 2  
## 104 sunbricks 1 <NA> <NA> 3  
## 105 sunbricks 3 no never 3  
## 106 burntbricks 3 no never 4  
## 107 muddaub 1 <NA> <NA> 1  
## 108 burntbricks 1 no more\_once 2  
## 109 muddaub 1 no never 4  
## 110 sunbricks 2 <NA> <NA> 3  
## 111 burntbricks 2 no never 4  
## 112 burntbricks 3 <NA> <NA> 3  
## 113 muddaub 4 <NA> <NA> 1  
## 114 burntbricks 4 no frequently 4  
## 115 burntbricks 2 no frequently 3  
## 116 muddaub 1 no never 1  
## 117 sunbricks 1 no never 1  
## 118 burntbricks 2 yes frequently 2  
## 119 burntbricks 1 no never 3  
## 120 muddaub 1 no never 1  
## 121 muddaub 1 no never 3  
## 122 burntbricks 2 no never 3  
## 123 burntbricks 1 no never 4  
## 124 sunbricks 1 no never 3  
## 125 burntbricks 4 no never 1  
## 126 burntbricks 1 no once 1  
## 127 burntbricks 1 no more\_once 3  
## 128 cement 3 no more\_once 3  
## 129 muddaub 1 no more\_once 1  
## 130 burntbricks 2 yes more\_once 2  
## 131 burntbricks 2 <NA> <NA> 3  
## items\_owned  
## 1 bicycle;television;solar\_panel;table  
## 2 cow\_cart;bicycle;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 3 solar\_torch  
## 4 bicycle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 5 motorcyle;radio;cow\_plough;mobile\_phone  
## 6 <NA>  
## 7 motorcyle;cow\_plough  
## 8 motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;table;fridge  
## 9 television;solar\_panel;solar\_torch  
## 10 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;table  
## 11 radio;cow\_plough  
## 12 cow\_cart;bicycle;radio;cow\_plough;table  
## 13 bicycle;radio;cow\_plough;mobile\_phone  
## 14 bicycle;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 15 bicycle;radio;cow\_plough;solar\_panel;table  
## 16 radio;cow\_plough;solar\_panel;solar\_torch  
## 17 mobile\_phone  
## 18 bicycle;mobile\_phone  
## 19 bicycle;radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 20 bicycle;cow\_plough;solar\_torch  
## 21 <NA>  
## 22 radio  
## 23 cow\_cart;bicycle;television;radio;cow\_plough;solar\_panel;electricity;mobile\_phone  
## 24 radio;table;sofa\_set;mobile\_phone  
## 25 cow\_cart;motorcyle;television;radio;cow\_plough;solar\_panel;solar\_torch;table;sofa\_set;mobile\_phone  
## 26 radio;cow\_plough;table;mobile\_phone  
## 27 bicycle;radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 28 <NA>  
## 29 motorcyle;bicycle;radio;table;mobile\_phone  
## 30 bicycle;radio;mobile\_phone  
## 31 <NA>  
## 32 cow\_cart;motorcyle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 33 cow\_cart;lorry;motorcyle;sterio;cow\_plough;solar\_panel;mobile\_phone  
## 34 television;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 35 bicycle;cow\_plough  
## 36 cow\_cart;bicycle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 37 bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 38 bicycle;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 39 <NA>  
## 40 bicycle;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 41 motorcyle;bicycle;radio;cow\_plough;table  
## 42 mobile\_phone  
## 43 cow\_plough;mobile\_phone  
## 44 radio;solar\_torch  
## 45 motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 46 motorcyle;computer;television;sterio;solar\_panel;solar\_torch;table;mobile\_phone  
## 47 solar\_torch;mobile\_phone  
## 48 radio  
## 49 bicycle;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 50 solar\_torch  
## 51 radio  
## 52 motorcyle;television;radio;cow\_plough;solar\_panel;mobile\_phone  
## 53 bicycle;radio;mobile\_phone  
## 54 <NA>  
## 55 television;cow\_plough;mobile\_phone  
## 56 motorcyle;bicycle;mobile\_phone  
## 57 radio  
## 58 motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;mobile\_phone  
## 59 <NA>  
## 60 cow\_plough  
## 61 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 62 bicycle;radio;mobile\_phone  
## 63 <NA>  
## 64 bicycle;solar\_torch;table;sofa\_set;mobile\_phone  
## 65 motorcyle;radio;cow\_plough;table  
## 66 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 67 motorcyle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 68 motorcyle;television;sterio;solar\_panel;mobile\_phone  
## 69 bicycle;radio;solar\_torch;mobile\_phone  
## 70 cow\_cart;bicycle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 71 radio;cow\_plough;mobile\_phone  
## 72 mobile\_phone  
## 73 cow\_cart;car;lorry;motorcyle;bicycle;television;sterio;cow\_plough;solar\_panel;solar\_torch;electricity;table;sofa\_set;mobile\_phone;fridge  
## 74 motorcyle;bicycle;radio;sterio;cow\_plough;solar\_panel;mobile\_phone  
## 75 <NA>  
## 76 electricity  
## 77 radio;cow\_plough;solar\_panel;mobile\_phone  
## 78 motorcyle;television;cow\_plough;solar\_panel;mobile\_phone  
## 79 cow\_plough;solar\_panel  
## 80 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;mobile\_phone  
## 81 solar\_panel  
## 82 cow\_plough;mobile\_phone  
## 83 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 84 cow\_cart;bicycle;radio;cow\_plough;solar\_torch  
## 85 radio;cow\_plough;mobile\_phone  
## 86 bicycle;television;radio;cow\_plough;solar\_torch;table;mobile\_phone  
## 87 <NA>  
## 88 bicycle;radio;solar\_torch;mobile\_phone  
## 89 cow\_cart;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 90 bicycle;radio;cow\_plough  
## 91 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 92 bicycle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 93 radio;cow\_plough;solar\_torch  
## 94 radio;cow\_plough  
## 95 bicycle;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 96 bicycle;solar\_torch  
## 97 cow\_cart;cow\_plough;solar\_panel;sofa\_set;mobile\_phone  
## 98 cow\_plough;table;sofa\_set;mobile\_phone  
## 99 cow\_plough  
## 100 cow\_cart;bicycle;radio;cow\_plough;solar\_panel;solar\_torch  
## 101 cow\_cart;bicycle;cow\_plough  
## 102 motorcyle;radio;cow\_plough;solar\_panel;mobile\_phone  
## 103 cow\_cart;motorcyle;bicycle;radio;sterio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 104 cow\_cart;bicycle;radio;cow\_plough;table  
## 105 bicycle;radio;cow\_plough;table;mobile\_phone  
## 106 cow\_cart;motorcyle;bicycle;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 107 radio;solar\_torch;mobile\_phone  
## 108 bicycle;radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 109 bicycle;cow\_plough;solar\_panel;mobile\_phone  
## 110 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 111 cow\_cart;bicycle;radio;cow\_plough;solar\_panel;table;mobile\_phone  
## 112 motorcyle;bicycle;television;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 113 motorcyle;television;radio;solar\_panel;solar\_torch;table;mobile\_phone  
## 114 cow\_cart;television;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 115 cow\_cart;motorcyle;television;radio;cow\_plough;solar\_torch;table;mobile\_phone  
## 116 mobile\_phone  
## 117 radio;solar\_panel;solar\_torch  
## 118 cow\_cart;cow\_plough;solar\_torch;mobile\_phone  
## 119 cow\_cart;motorcyle;bicycle;television;radio;cow\_plough;solar\_torch;electricity;table;sofa\_set;mobile\_phone;fridge  
## 120 bicycle;solar\_torch;mobile\_phone  
## 121 motorcyle;radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## 122 car;lorry;motorcyle;radio;sterio;cow\_plough;solar\_panel;solar\_torch;table;sofa\_set;mobile\_phone;fridge  
## 123 motorcyle;bicycle;radio;sterio;cow\_plough;solar\_panel;table;mobile\_phone  
## 124 motorcyle;radio;sterio;cow\_plough;solar\_panel;table;mobile\_phone  
## 125 radio;cow\_plough;solar\_panel;solar\_torch;mobile\_phone  
## 126 bicycle;television;radio;sterio;solar\_panel;solar\_torch;table;mobile\_phone  
## 127 motorcyle;radio;solar\_panel  
## 128 car;lorry;television;radio;sterio;cow\_plough;solar\_torch;electricity;table;sofa\_set;mobile\_phone;fridge  
## 129 radio;solar\_panel;solar\_torch;mobile\_phone  
## 130 cow\_cart;lorry;motorcyle;computer;television;radio;sterio;cow\_plough;solar\_panel;solar\_torch;electricity;mobile\_phone  
## 131 radio;cow\_plough;solar\_panel;solar\_torch;table;mobile\_phone  
## no\_meals months\_lack\_food  
## 1 2 Jan  
## 2 2 Jan;Sept;Oct;Nov;Dec  
## 3 2 Jan;Feb;Mar;Oct;Nov;Dec  
## 4 2 Sept;Oct;Nov;Dec  
## 5 2 Aug;Sept;Oct;Nov  
## 6 2 Aug;Sept;Oct  
## 7 3 Nov  
## 8 2 Jan  
## 9 3 Jan;Dec  
## 10 3 Jan;Oct;Nov;Dec  
## 11 2 Oct;Nov  
## 12 3 Sept;Oct  
## 13 2 Sept;Oct;Nov  
## 14 3 June;July;Aug;Sept;Oct;Nov  
## 15 2 Jan;Feb;Mar;Apr;May;June;July;Aug;Sept;Oct;Nov  
## 16 3 Jan;Feb  
## 17 2 Nov;Dec  
## 18 2 Oct;Nov  
## 19 3 Oct;Nov;Dec  
## 20 2 Oct;Nov  
## 21 2 Jan;Feb;Mar;Oct;Nov;Dec  
## 22 2 Jan;Feb;Mar;Apr;Aug;Sept;Oct;Nov;Dec  
## 23 3 none  
## 24 2 Nov;Dec  
## 25 2 Jan;Feb;Oct  
## 26 2 none  
## 27 3 none  
## 28 3 Aug;Sept;Oct  
## 29 3 Jan;Feb  
## 30 2 Jan;Feb  
## 31 3 none  
## 32 2 none  
## 33 2 none  
## 34 2 Jan;Dec  
## 35 3 Jan;Sept;Oct;Nov;Dec  
## 36 3 none  
## 37 3 Jan;Nov;Dec  
## 38 3 Nov  
## 39 3 Nov  
## 40 3 Sept;Oct;Nov  
## 41 3 Oct;Nov  
## 42 3 Jan;Nov;Dec  
## 43 2 Jan;Feb;Oct;Nov;Dec  
## 44 2 Jan;Dec  
## 45 3 none  
## 46 2 Sept;Oct;Nov  
## 47 3 none  
## 48 3 June;July;Aug;Sept;Oct;Nov  
## 49 3 Jan;Nov;Dec  
## 50 2 June;July;Aug;Sept;Oct;Nov;Dec  
## 51 3 Oct;Nov  
## 52 3 Aug;Sept;Oct;Nov  
## 53 2 Nov  
## 54 2 Sept;Oct;Nov  
## 55 2 Oct;Nov  
## 56 3 none  
## 57 2 none  
## 58 2 none  
## 59 2 none  
## 60 2 none  
## 61 3 Jan;Feb;Dec  
## 62 3 Aug;Sept;Oct;Nov  
## 63 3 Jan;Oct;Nov;Dec  
## 64 3 Jan;Feb;Dec  
## 65 3 Jan;Feb;Mar  
## 66 3 none  
## 67 3 none  
## 68 3 none  
## 69 3 none  
## 70 2 none  
## 71 2 Aug;Sept;Oct;Nov  
## 72 2 Aug;Sept;Oct  
## 73 3 Jan;Oct;Nov  
## 74 3 none  
## 75 2 Oct;Nov  
## 76 2 Jan;Sept;Oct;Nov;Dec  
## 77 3 none  
## 78 3 Nov  
## 79 3 Oct;Nov  
## 80 3 none  
## 81 3 Jan;Feb;Nov;Dec  
## 82 3 none  
## 83 3 none  
## 84 2 Sept;Oct;Nov  
## 85 3 none  
## 86 2 Nov  
## 87 3 Nov  
## 88 2 Oct;Nov;Dec  
## 89 3 Jan;Feb;Mar;Oct;Nov;Dec  
## 90 2 Jan;Aug;Sept;Oct;Nov;Dec  
## 91 3 Jan;Sept;Oct  
## 92 3 none  
## 93 2 Aug;Sept;Oct  
## 94 2 Oct;Nov  
## 95 3 Oct;Nov  
## 96 3 Sept;Oct;Nov  
## 97 3 Jan;Feb;Dec  
## 98 3 Jan;Feb  
## 99 2 Aug;Sept;Oct  
## 100 3 none  
## 101 3 Jan;Feb;Dec  
## 102 3 Jan;Feb;Dec  
## 103 3 Oct;Nov;Dec  
## 104 3 July;Aug;Sept;Oct;Nov  
## 105 2 none  
## 106 3 none  
## 107 3 Oct;Nov;Dec  
## 108 3 Jan;Sept;Oct;Nov;Dec  
## 109 3 none  
## 110 3 none  
## 111 3 Aug;Sept;Oct;Nov  
## 112 3 Jan;Nov;Dec  
## 113 3 Jan;Feb;Nov;Dec  
## 114 2 none  
## 115 3 Jan;Dec  
## 116 3 Sept;Oct;Nov  
## 117 3 Sept;Oct;Nov  
## 118 2 Nov  
## 119 3 none  
## 120 2 Feb;Mar  
## 121 2 Jan;Nov;Dec  
## 122 3 Jan;Feb;Dec  
## 123 2 Jan;Oct;Nov;Dec  
## 124 3 Nov  
## 125 2 Oct;Nov;Dec  
## 126 3 Jan;Nov;Dec  
## 127 3 Oct;Nov;Dec  
## 128 3 none  
## 129 3 Sept;Oct;Nov  
## 130 3 Nov;Dec  
## 131 3 Oct;Nov  
## instanceID  
## 1 uuid:ec241f2c-0609-46ed-b5e8-fe575f6cefef  
## 2 uuid:099de9c9-3e5e-427b-8452-26250e840d6e  
## 3 uuid:193d7daf-9582-409b-bf09-027dd36f9007  
## 4 uuid:148d1105-778a-4755-aa71-281eadd4a973  
## 5 uuid:2c867811-9696-4966-9866-f35c3e97d02d  
## 6 uuid:daa56c91-c8e3-44c3-a663-af6a49a2ca70  
## 7 uuid:ae20a58d-56f4-43d7-bafa-e7963d850844  
## 8 uuid:d6cee930-7be1-4fd9-88c0-82a08f90fb5a  
## 9 uuid:846103d2-b1db-4055-b502-9cd510bb7b37  
## 10 uuid:8f4e49bc-da81-4356-ae34-e0d794a23721  
## 11 uuid:d29b44e3-3348-4afc-aa4d-9eb34c89d483  
## 12 uuid:e6ee6269-b467-4e37-91fc-5e9eaf934557  
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## 14 uuid:9b21467f-1116-4340-a3b1-1ab64f13c87d  
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## 17 uuid:4707f3dc-df18-4348-9c2c-eec651e89b6b  
## 18 uuid:7ffe7bd1-a15c-420c-a137-e1f006c317a3  
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## 20 uuid:d1005274-bf52-4e79-8380-3350dd7c2bac  
## 21 uuid:6570a7d0-6a0b-452c-aa2e-922500e35749  
## 22 uuid:a51c3006-8847-46ff-9d4e-d29919b8ecf9  
## 23 uuid:58b37b6d-d6cd-4414-8790-b9c68bca98de  
## 24 uuid:661457d3-7e61-45e8-a238-7415e7548f82  
## 25 uuid:45ed84c4-114e-4df0-9f5d-c800806c2bee  
## 26 uuid:1c54ee24-22c4-4ee9-b1ad-42d483c08e2e  
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## 28 uuid:1de53318-a8cf-4736-99b1-8239f8822473  
## 29 uuid:adcd7463-8943-4c67-b25f-f72311409476  
## 30 uuid:59341ead-92be-45a9-8545-6edf9f94fdc6  
## 31 uuid:cb06eb49-dd39-4150-8bbe-a599e074afe8  
## 32 uuid:25597af3-cd79-449c-a48a-fb9aea6c48bf  
## 33 uuid:0fbd2df1-2640-4550-9fbd-7317feaa4758  
## 34 uuid:14c78c45-a7cc-4b2a-b765-17c82b43feb4  
## 35 uuid:ff7496e7-984a-47d3-a8a1-13618b5683ce  
## 36 uuid:c90eade0-1148-4a12-8c0e-6387a36f45b1  
## 37 uuid:408c6c93-d723-45ef-8dee-1b1bd3fe20cd  
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## 39 uuid:c0fb6310-55af-4831-ae3d-2729556c3285  
## 40 uuid:c0b34854-eede-4e81-b183-ef58a45bfc34  
## 41 uuid:b3ba34d8-eea1-453d-bc73-c141bcbbc5e5  
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## 52 uuid:6db55cb4-a853-4000-9555-757b7fae2bcf  
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## 56 uuid:973c4ac6-f887-48e7-aeaf-4476f2cfab76  
## 57 uuid:a7184e55-0615-492d-9835-8f44f3b03a71  
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## 60 uuid:85465caf-23e4-4283-bb72-a0ef30e30176  
## 61 uuid:2401cf50-8859-44d9-bd14-1bf9128766f2  
## 62 uuid:c6597ecc-cc2a-4c35-a6dc-e62c71b345d6  
## 63 uuid:86ed4328-7688-462f-aac7-d6518414526a  
## 64 uuid:28cfd718-bf62-4d90-8100-55fafbe45d06  
## 65 uuid:143f7478-0126-4fbc-86e0-5d324339206b  
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## 73 uuid:429d279a-a519-4dcc-9f64-4673b0fd5d53  
## 74 uuid:59738c17-1cda-49ee-a563-acd76f6bc487  
## 75 uuid:7e7961ca-fa1c-4567-9bfa-a02f876e4e03  
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## 83 uuid:0a42c9ee-a840-4dda-8123-15c1bede5dfc  
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## 87 uuid:28c64954-739c-444c-a6e0-355878e471c8  
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## 104 uuid:602cd3f6-4a97-49c6-80e3-bcfd5c78dfa4  
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## 106 uuid:01210861-aba1-4268-98d0-0260e05f5155  
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## 110 uuid:628fe23d-188f-43e4-a203-a4bf3257d461  
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## 129 uuid:95c11a30-d44f-40c4-8ea8-ec34fca6bbbf  
## 130 uuid:ffc83162-ff24-4a87-8709-eff17abc0b3b  
## 131 uuid:aa77a0d7-7142-41c8-b494-483a5b68d8a7

#Data from R studio to train

data()

library(gapminder)

gapData <- gapminder

#import the data from the web

ca <- read\_csv("https://raw.githubusercontent.com/scienceParkStudyGroup/r-lesson-based-on-ohi-data-training/gh-pages/data/ca.csv")

## Rows: 789 Columns: 7  
## ── Column specification ────────────────────────────────────────────────────────  
## Delimiter: ","  
## chr (5): region, state, code, park\_name, type  
## dbl (2): visitors, year  
##   
## ℹ Use `spec()` to retrieve the full column specification for this data.  
## ℹ Specify the column types or set `show\_col\_types = FALSE` to quiet this message.

ca

## # A tibble: 789 × 7  
## region state code park\_name type visitors year  
## <chr> <chr> <chr> <chr> <chr> <dbl> <dbl>  
## 1 PW CA CHIS Channel Islands National Park National Park 1200 1963  
## 2 PW CA CHIS Channel Islands National Park National Park 1500 1964  
## 3 PW CA CHIS Channel Islands National Park National Park 1600 1965  
## 4 PW CA CHIS Channel Islands National Park National Park 300 1966  
## 5 PW CA CHIS Channel Islands National Park National Park 15700 1967  
## 6 PW CA CHIS Channel Islands National Park National Park 31000 1968  
## 7 PW CA CHIS Channel Islands National Park National Park 33100 1969  
## 8 PW CA CHIS Channel Islands National Park National Park 32000 1970  
## 9 PW CA CHIS Channel Islands National Park National Park 24400 1971  
## 10 PW CA CHIS Channel Islands National Park National Park 31947 1972  
## # … with 779 more rows  
## # ℹ Use `print(n = ...)` to see more rows

#exploaring data method

glimpse(ca)

## Rows: 789  
## Columns: 7  
## $ region <chr> "PW", "PW", "PW", "PW", "PW", "PW", "PW", "PW", "PW", "PW", …  
## $ state <chr> "CA", "CA", "CA", "CA", "CA", "CA", "CA", "CA", "CA", "CA", …  
## $ code <chr> "CHIS", "CHIS", "CHIS", "CHIS", "CHIS", "CHIS", "CHIS", "CHI…  
## $ park\_name <chr> "Channel Islands National Park", "Channel Islands National P…  
## $ type <chr> "National Park", "National Park", "National Park", "National…  
## $ visitors <dbl> 1200, 1500, 1600, 300, 15700, 31000, 33100, 32000, 24400, 31…  
## $ year <dbl> 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, …

str(ca)

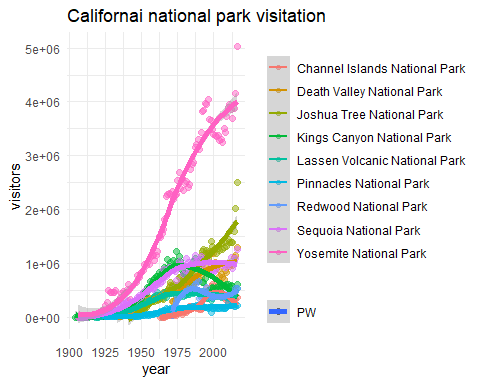
## spec\_tbl\_df [789 × 7] (S3: spec\_tbl\_df/tbl\_df/tbl/data.frame)  
## $ region : chr [1:789] "PW" "PW" "PW" "PW" ...  
## $ state : chr [1:789] "CA" "CA" "CA" "CA" ...  
## $ code : chr [1:789] "CHIS" "CHIS" "CHIS" "CHIS" ...  
## $ park\_name: chr [1:789] "Channel Islands National Park" "Channel Islands National Park" "Channel Islands National Park" "Channel Islands National Park" ...  
## $ type : chr [1:789] "National Park" "National Park" "National Park" "National Park" ...  
## $ visitors : num [1:789] 1200 1500 1600 300 15700 ...  
## $ year : num [1:789] 1963 1964 1965 1966 1967 ...  
## - attr(\*, "spec")=  
## .. cols(  
## .. region = col\_character(),  
## .. state = col\_character(),  
## .. code = col\_character(),  
## .. park\_name = col\_character(),  
## .. type = col\_character(),  
## .. visitors = col\_double(),  
## .. year = col\_double()  
## .. )  
## - attr(\*, "problems")=<externalptr>

#st plot

ggplot(  
   
 ca, aes(x=year, y= visitors, colour = park\_name, size =region )  
) +  
 geom\_point(alpha = 0.5) +  
 geom\_smooth() +  
 theme(legend.position = "none") +  
 labs(x="year", y="visitors", title="Californai national park visitation")+  
 theme\_minimal() +  
 theme(  
 legend.title = element\_blank()  
   
 )

## Warning: Using size for a discrete variable is not advised.

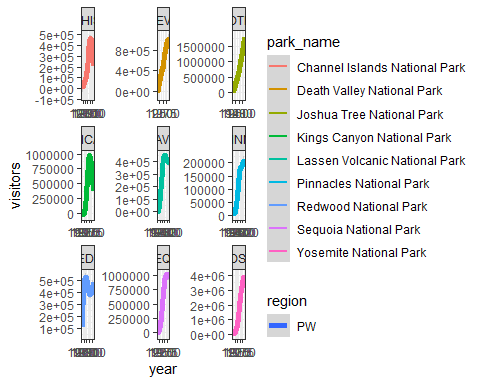
## `geom\_smooth()` using method = 'loess' and formula 'y ~ x'



ggplot(  
   
 ca, aes(x=year, y= visitors, colour = park\_name, size =region )  
) +  
 geom\_smooth() +  
 facet\_wrap(~ code, scales = "free") +   
 theme\_bw()

## Warning: Using size for a discrete variable is not advised.

## `geom\_smooth()` using method = 'loess' and formula 'y ~ x'



"R studio dral with arabic languge with xlsx bettwe than csv"

## [1] "R studio dral with arabic languge with xlsx bettwe than csv"

ca$state

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unique(ca$state)

## [1] "CA"

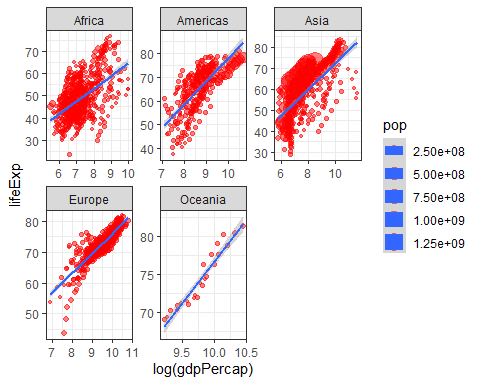
"اضافه اسم الي ملف الى ملف   
ignor  
في خانه الملفات يمين تحت يخليه ماينرفع الى الجت هب حتى لو سويت كوممت"

## [1] "اضافه اسم الي ملف الى ملف \nignor\nفي خانه الملفات يمين تحت يخليه ماينرفع الى الجت هب حتى لو سويت كوممت"

view(gapminder)

ggplot(gapminder, aes(x=log(gdpPercap),col= year, y= lifeExp, size =pop )  
) +  
 geom\_point(alpha = 0.5, color = "red" )+  
 geom\_smooth(method = lm)+  
 facet\_wrap(~ continent, scale = "free")+  
 theme\_bw()

## `geom\_smooth()` using formula 'y ~ x'

 “install.packages(”ggplotAssist”) بعد م اثبتها بتطلع لي في Addins اعلى شي فووق تحت Help اختار منها ggplot Assit ثم بتفتح لي رابط مثل 192.186.1.1 فيها صفحه تساعدني تماما على انشاء ggplot للداتا عن طريق يوزر انتر فيس، و اعرف عن طريقها كل خصائص ال ggplot

”

#“plotly هي مكتبه تول الاشكال البلوتات الى اشكال تفاعليه ولكن عشان تشتغل لازم ادخل كود البلوت في <- ثم ادخله في كود ggplotly(اسم الي حطيته)

“,”How to save plot and the output i made, dpi = وضوح وجوده الصوره, hight = “auto”, width = “auto””

“ggplotly(pplloott)”

pplloott<- ggplot(gapminder, aes(x=log(gdpPercap),col= year, y= lifeExp, size =pop )  
) +  
 geom\_point(alpha = 0.5, color = "red" )+  
 geom\_jitter()+   
 geom\_smooth(method = lm)+  
 theme\_bw()  
  
  
ggsave(here("results","h0ere.png"), pplloott, dpi = 300 )

## Saving 5 x 4 in image

## `geom\_smooth()` using formula 'y ~ x'

library(plotly)

##   
## Attaching package: 'plotly'

## The following object is masked from 'package:ggplot2':  
##   
## last\_plot

## The following object is masked from 'package:stats':  
##   
## filter

## The following object is masked from 'package:graphics':  
##   
## layout

"  
rstat  
اذا ابغا ادور عن اي شي في الار اكتب اسم الشي الي ابغا ادور عليه ثم اكتب هذى الاسم  
مثلا:  
plotly rstat install  
,,  
اذا ابغا اعرف عن اي شي   
اكتب اسمه في قوقل و اكتب  
sheetcheat.  
"

## [1] "\nrstat\nاذا ابغا ادور عن اي شي في الار اكتب اسم الشي الي ابغا ادور عليه ثم اكتب هذى الاسم\nمثلا:\nplotly rstat install\n,,\nاذا ابغا اعرف عن اي شي \nاكتب اسمه في قوقل و اكتب\nsheetcheat.\n"

"https://rweekly.org/  
this is source from learning and being collabiraive with R community"

## [1] "https://rweekly.org/\nthis is source from learning and being collabiraive with R community"

#How to save data after minpulation

write\_csv(ca, here("results","ca.csv"))

"changes in Yaml: which is in the top of this page"

## [1] "changes in Yaml: which is in the top of this page"