# Correlaciones

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#	COEFICIENTE DE CORRELACION	

# Utilidad

Esta metodologia sirve para identificar la relación entre 2 variables de tipo **cuantitativo**, los datos se distribuyen de forma normal. Area: Estadistica Parametrica. Y se utiliza la matriz "penguins.xlsx" como ejemplo

#Librerias 1. Abrir librería

```
library(readxl)
```

```
penguins<-read_excel("penguins.xlsx")</pre>
```

#Exploración de variables

1.- Dimensión

```
dim(penguins)
```

```
## [1] 344 9
```

2.- Tipo de variables

str(penguins)

```
## tibble [344 x 9] (S3: tbl_df/tbl/data.frame)
                     : chr [1:344] "i1" "i2" "i3" "i4" ...
   $ ID
                     : chr [1:344] "Adelie" "Adelie" "Adelie" "Adelie" ...
   $ especie
##
##
   $ isla
                     : chr [1:344] "Torgersen" "Torgersen" "Torgersen" "Torgersen" ...
  $ largo pico mm : num [1:344] 39.1 39.5 40.3 37.8 36.7 39.3 38.9 39.2 34.1 42 ...
##
  $ grosor pico mm : num [1:344] 18.7 17.4 18 18.1 19.3 20.6 17.8 19.6 18.1 20.2 ...
   $ largo_aleta_mm : num [1:344] 181 186 195 190 193 190 181 195 193 190 ...
   $ masa_corporal_g: num [1:344] 3750 3800 3250 3700 3450 ...
   $ genero
                     : chr [1:344] "male" "female" "female" "female" ...
##
                     : num [1:344] 2007 2007 2007 2007 2007 ...
##
   $ año
```

3.- Identificar la especie Adelie

#### penguins\$especie

```
##
     [1] "Adelie"
                       "Adelie"
                                   "Adelie"
                                                "Adelie"
                                                              "Adelie"
                                                                           "Adelie"
     [7] "Adelie"
                       "Adelie"
                                   "Adelie"
                                                 "Adelie"
                                                              "Adelie"
                                                                           "Adelie"
##
    [13] "Adelie"
                                   "Adelie"
                                                 "Adelie"
                                                                           "Adelie"
##
                       "Adelie"
                                                              "Adelie"
##
    [19] "Adelie"
                      "Adelie"
                                   "Adelie"
                                                 "Adelie"
                                                              "Adelie"
                                                                           "Adelie"
    [25] "Adelie"
                      "Adelie"
                                   "Adelie"
                                                "Adelie"
                                                              "Adelie"
                                                                          "Adelie"
##
   [31] "Adelie"
                       "Adelie"
                                   "Adelie"
                                                "Adelie"
                                                              "Adelie"
                                                                           "Adelie"
##
```

```
[37] "Adelie"
                      "Adelie"
                                   "Adelie"
                                                "Adelie"
                                                            "Adelie"
                                                                         "Adelie"
##
    [43] "Adelie"
##
                      "Adelie"
                                   "Adelie"
                                               "Adelie"
                                                            "Adelie"
                                                                         "Adelie"
                                                "Adelie"
##
    [49] "Adelie"
                      "Adelie"
                                   "Adelie"
                                                            "Adelie"
                                                                         "Adelie"
    [55] "Adelie"
                      "Adelie"
                                   "Adelie"
                                                "Adelie"
                                                            "Adelie"
                                                                         "Adelie"
##
##
    [61] "Adelie"
                      "Adelie"
                                   "Adelie"
                                                "Adelie"
                                                            "Adelie"
                                                                         "Adelie"
    [67] "Adelie"
##
                      "Adelie"
                                   "Adelie"
                                               "Adelie"
                                                            "Adelie"
                                                                         "Adelie"
##
    [73] "Adelie"
                      "Adelie"
                                   "Adelie"
                                               "Adelie"
                                                            "Adelie"
                                                                         "Adelie"
    [79] "Adelie"
                      "Adelie"
##
                                   "Adelie"
                                               "Adelie"
                                                            "Adelie"
                                                                         "Adelie"
##
    [85] "Adelie"
                      "Adelie"
                                   "Adelie"
                                                "Adelie"
                                                            "Adelie"
                                                                         "Adelie"
##
    [91] "Adelie"
                      "Adelie"
                                   "Adelie"
                                               "Adelie"
                                                            "Adelie"
                                                                         "Adelie"
    [97] "Adelie"
                      "Adelie"
                                   "Adelie"
                                                "Adelie"
                                                            "Adelie"
                                                                         "Adelie"
   [103] "Adelie"
                                               "Adelie"
##
                      "Adelie"
                                   "Adelie"
                                                            "Adelie"
                                                                         "Adelie"
##
   [109] "Adelie"
                      "Adelie"
                                   "Adelie"
                                               "Adelie"
                                                            "Adelie"
                                                                         "Adelie"
##
   [115] "Adelie"
                      "Adelie"
                                   "Adelie"
                                               "Adelie"
                                                            "Adelie"
                                                                         "Adelie"
   [121] "Adelie"
                      "Adelie"
                                   "Adelie"
                                               "Adelie"
                                                                         "Adelie"
                                                            "Adelie"
   [127] "Adelie"
                      "Adelie"
                                   "Adelie"
                                                "Adelie"
                                                            "Adelie"
                                                                         "Adelie"
##
   [133] "Adelie"
                      "Adelie"
                                   "Adelie"
                                               "Adelie"
                                                            "Adelie"
                                                                         "Adelie"
   [139] "Adelie"
                      "Adelie"
                                   "Adelie"
                                               "Adelie"
                                                            "Adelie"
                                                                         "Adelie"
  [145] "Adelie"
                      "Adelie"
                                   "Adelie"
                                                "Adelie"
                                                            "Adelie"
                                                                         "Adelie"
## [151] "Adelie"
                      "Adelie"
                                   "Gentoo"
                                               "Gentoo"
                                                            "Gentoo"
                                                                         "Gentoo"
## [157] "Gentoo"
                      "Gentoo"
                                   "Gentoo"
                                               "Gentoo"
                                                            "Gentoo"
                                                                         "Gentoo"
## [163] "Gentoo"
                      "Gentoo"
                                   "Gentoo"
                                               "Gentoo"
                                                            "Gentoo"
                                                                         "Gentoo"
## [169] "Gentoo"
                      "Gentoo"
                                   "Gentoo"
                                               "Gentoo"
                                                            "Gentoo"
                                                                         "Gentoo"
   [175] "Gentoo"
                      "Gentoo"
                                                            "Gentoo"
##
                                   "Gentoo"
                                                "Gentoo"
                                                                         "Gentoo"
## [181] "Gentoo"
                      "Gentoo"
                                   "Gentoo"
                                               "Gentoo"
                                                            "Gentoo"
                                                                         "Gentoo"
  [187] "Gentoo"
                      "Gentoo"
                                   "Gentoo"
                                                "Gentoo"
                                                            "Gentoo"
                                                                         "Gentoo"
  [193] "Gentoo"
                      "Gentoo"
                                   "Gentoo"
                                               "Gentoo"
                                                            "Gentoo"
                                                                         "Gentoo"
##
   [199] "Gentoo"
##
                      "Gentoo"
                                   "Gentoo"
                                                "Gentoo"
                                                            "Gentoo"
                                                                         "Gentoo"
## [205] "Gentoo"
                                   "Gentoo"
                                               "Gentoo"
                                                            "Gentoo"
                      "Gentoo"
                                                                         "Gentoo"
## [211] "Gentoo"
                      "Gentoo"
                                   "Gentoo"
                                                "Gentoo"
                                                            "Gentoo"
                                                                         "Gentoo"
## [217]
         "Gentoo"
                      "Gentoo"
                                   "Gentoo"
                                                "Gentoo"
                                                            "Gentoo"
                                                                         "Gentoo"
##
   [223] "Gentoo"
                      "Gentoo"
                                   "Gentoo"
                                                "Gentoo"
                                                            "Gentoo"
                                                                         "Gentoo"
   [229] "Gentoo"
                      "Gentoo"
                                   "Gentoo"
                                               "Gentoo"
                                                            "Gentoo"
                                                                         "Gentoo"
  [235] "Gentoo"
                      "Gentoo"
                                               "Gentoo"
                                                            "Gentoo"
##
                                   "Gentoo"
                                                                         "Gentoo"
   [241] "Gentoo"
                      "Gentoo"
                                   "Gentoo"
                                               "Gentoo"
                                                            "Gentoo"
                                                                         "Gentoo"
## [247] "Gentoo"
                      "Gentoo"
                                   "Gentoo"
                                               "Gentoo"
                                                            "Gentoo"
                                                                         "Gentoo"
## [253] "Gentoo"
                      "Gentoo"
                                   "Gentoo"
                                               "Gentoo"
                                                            "Gentoo"
                                                                         "Gentoo"
## [259] "Gentoo"
                      "Gentoo"
                                   "Gentoo"
                                                "Gentoo"
                                                            "Gentoo"
                                                                         "Gentoo"
## [265] "Gentoo"
                      "Gentoo"
                                   "Gentoo"
                                                "Gentoo"
                                                            "Gentoo"
                                                                         "Gentoo"
## [271] "Gentoo"
                      "Gentoo"
                                   "Gentoo"
                                               "Gentoo"
                                                            "Gentoo"
                                                                         "Gentoo"
  [277] "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap"
   [283] "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap"
   [289] "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap"
##
   [295] "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap"
##
  [301] "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap"
   [307] "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap"
##
   [313] "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap"
##
   [319] "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap"
   [325] "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap"
   [331] "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap"
   [337] "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap" "Chinstrap"
   [343] "Chinstrap" "Chinstrap"
```

4.- Seleccionar las observaciones de la 1 a la 152 y las variables cuantitativas

## colnames(penguins)

```
## [1] "ID" "especie" "isla" "largo_pico_mm"
## [5] "grosor_pico_mm" "largo_aleta_mm" "masa_corporal_g" "genero"
## [9] "año"
adelie<-penguins[1:152,4:7]</pre>
```

Verificación de la matriz

str(adelie)

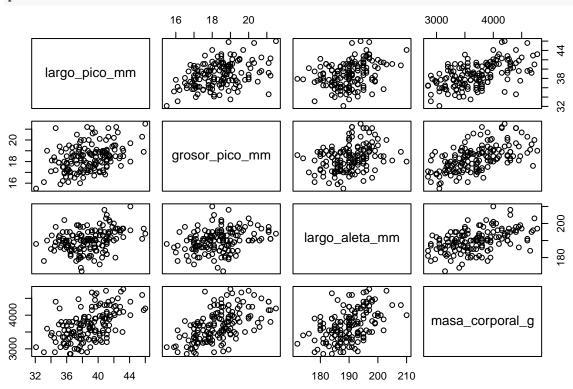
```
## tibble [152 x 4] (S3: tbl_df/tbl/data.frame)
## $ largo_pico_mm : num [1:152] 39.1 39.5 40.3 37.8 36.7 39.3 38.9 39.2 34.1 42 ...
## $ grosor_pico_mm : num [1:152] 18.7 17.4 18 18.1 19.3 20.6 17.8 19.6 18.1 20.2 ...
## $ largo_aleta_mm : num [1:152] 181 186 195 190 193 190 181 195 193 190 ...
## $ masa_corporal_g: num [1:152] 3750 3800 3250 3700 3450 ...
```

#Metodologia 1.- Calculo de la correlacion de pearson

cor\_adelie<-cor(adelie)</pre>

## 2.- Generacion del grafico de correlacion

#### plot(adelie)



3.- Organización de la tabla de correlaciones #Librerias Knitr

#### library(knitr)

### kable(cor\_adelie)

	largo_pico_mm	grosor_pico_mm	largo_aleta_mm	masa_corporal_g
largo_pico_mm	1.0000000	0.3917580	0.3256178	0.5486177

	largo_pico_mm	grosor_pico_mm	largo_aleta_mm	masa_corporal_g
grosor_pico_mm largo_aleta_mm masa_corporal_g	0.3917580 $0.3256178$ $0.5486177$	$\begin{array}{c} 1.00000000 \\ 0.3075689 \\ 0.5760619 \end{array}$	$\begin{array}{c} 0.3075689 \\ 1.0000000 \\ 0.4682015 \end{array}$	0.5760619 0.4682015 1.0000000

#———— # Correlacion de Spearman #—

Esta metodologia sirve para identificar la relación entre 2 variables de tipo **cuantitativo**, los datos se distribuyen de forma no normal. Area: Estadistica Parametrica. Y se utiliza la matriz "marvel.xlsx" como ejemplo

#Librerias 1. Abrir librería

## library(readxl)

```
marvel<-read_excel("marvel.xlsx")</pre>
```

#Exploración de variables

1.- Dimensión

#### dim(marvel)

```
## [1] 39 11
```

2.- Tipo de variables

#### str(marvel)

```
## tibble [39 x 11] (S3: tbl_df/tbl/data.frame)
```

```
## $ ID : num [1:39] 1 2 3 4 5 6 7 8 9 10 ...
```

## \$ Original Title : chr [1:39] "Iron Man" "The Incredible Hulk" "Iron Man 2" "Thor" ...

## \$ Company : chr [1:39] "Marvel" "Marvel" "Marvel" "Marvel" ...

## \$ Rate : num [1:39] 7.9 6.7 7 7 6.9 8 7.2 6.9 7.7 8 ...

## \$ Metascore : num [1:39] 79 61 57 57 66 69 62 54 70 76 ...

## \$ Minutes : chr [1:39] "126" "112 " "124 " "115" ...

## # D-1----

## \$ Release : num [1:39] 2008 2008 2010 2011 2011 ...

## \$ Budget : chr [1:39] "140000000" "1500000000" "2000000000" "1500000000" ...

## \$ Opening Weekend USA: num [1:39] 9.86e+07 5.54e+07 1.28e+08 6.57e+07 6.51e+07 ...

## \$ Gross USA : num [1:39] 3.19e+08 1.35e+08 3.12e+08 1.81e+08 1.77e+08 ...

# \$ Gross Worldwide : num [1:39] 5.85e+08 2.63e+08 6.24e+08 4.49e+08 3.71e+08 ...

3.- Nombre y posición de la variable

#### colnames(marvel)

## [1] "ID" "Original Title" "Company"

## [4] "Rate" "Metascore" "Minutes"

## [7] "Release" "Budget" "Opening Weekend USA"
## [10] "Gross USA" "Gross Worldwide"

4.- Seleccionar las variables: rate, minutos, budget y gross.worldwide

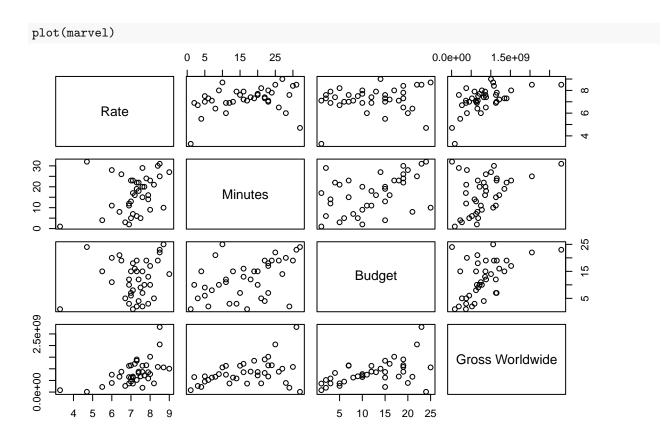
```
marvel < -marvel[,c(4,6,8,11)]
```

5.- Verificar que el nombre de las variables

## colnames(marvel)

## [1] "Rate" "Minutes" "Budget" "Gross Worldwide"

6.- Realizar un plot de exploracion



# Realizamos correlación Spearman poniendo todas las variables como numéricas

# Librerías

```
library(caret)
## Loading required package: ggplot2
## Loading required package: lattice
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
library(funModeling)
## Loading required package: Hmisc
## Loading required package: survival
```

```
##
## Attaching package: 'survival'
## The following object is masked from 'package:caret':
##
##
       cluster
## Loading required package: Formula
## Attaching package: 'Hmisc'
  The following objects are masked from 'package:dplyr':
##
##
       src, summarize
  The following objects are masked from 'package:base':
##
##
       format.pval, units
## funModeling v.1.9.4 :)
## Examples and tutorials at livebook.datascienceheroes.com
    / Now in Spanish: librovivodecienciadedatos.ai
1.- Comprobar las variables de tipo factor o caracter
status=df_status(marvel, print_results = F)
filter(status, type %in% c("factor", "character")) %>% select(variable)
     variable
## 1 Minutes
       Budget
## 2
2.- Convertir las variables a numéricas
dmy = dummyVars(" ~ .", data = marvel)
marvel_2 = data.frame(predict(dmy, newdata = marvel))
3.- Comprobar las nuevas variables
colnames(marvel_2)
##
    [1] "Rate"
                              "Minutes104"
                                                    "Minutes112"
##
    [4] "Minutes112."
                              "Minutes114"
                                                    "Minutes115"
   [7] "Minutes117"
                              "Minutes118"
                                                    "Minutes120"
## [10] "Minutes121"
                              "Minutes122"
                                                    "Minutes123"
## [13] "Minutes124"
                              "Minutes124."
                                                    "Minutes126"
## [16] "Minutes129"
                              "Minutes130"
                                                    "Minutes132"
## [19] "Minutes133"
                              "Minutes134"
                                                    "Minutes136"
## [22] "Minutes140"
                              "Minutes141"
                                                    "Minutes143"
## [25] "Minutes147"
                              "Minutes149"
                                                    "Minutes151"
## [28]
       "Minutes152"
                              "Minutes154"
                                                    "Minutes162"
## [31]
       "Minutes164"
                              "Minutes181"
                                                    "Minutes81"
## [34] "Budget10000000"
                              "Budget130000000"
                                                    "Budget140000000"
## [37]
        "Budget149000000"
                              "Budget150000000"
                                                    "Budget150000000."
## [40] "Budget160000000"
                              "Budget162000000"
                                                    "Budget165000000"
## [43] "Budget170000000"
                              "Budget175000000"
                                                    "Budget175000000."
## [46] "Budget180000000"
                              "Budget185000000"
                                                    "Budget200000000"
## [49]
       "Budget200000000."
                              "Budget220000000"
                                                    "Budget225000000"
## [52] "Budget250000000"
                              "Budget270000000"
                                                    "Budget300000000"
```

```
[58] "Budget55000000."
                              "X.Gross.Worldwide."
str(marvel_2)
   'data.frame':
                    39 obs. of
                                59 variables:
##
    $ Rate
                         : num
                               7.9 6.7 7 7 6.9 8 7.2 6.9 7.7 8 ...
##
    $ Minutes104
                         : num
                               0 0 0 0 0 0 0 0 0 0 ...
##
                               0 0 0 0 0 0 0 1 0 0 ...
    $ Minutes112
                         : num
##
    $ Minutes112.
                         : num
                               0 1 0 0 0 0 0 0 0 0 ...
##
                               0 0 0 0 0 0 0 0 0 0 ...
   $ Minutes114
                         : num
##
    $ Minutes115
                        : num
                               0 0 0 1 0 0 0 0 0 0 ...
##
   $ Minutes117
                         : num
                               0 0 0 0 0 0 0 0 0 0 ...
##
    $ Minutes118
                         : num
                               0000000000...
##
    $ Minutes120
                        : num
                                0 0 0 0 0 0 0 0 0 0 ...
##
    $ Minutes121
                               0000000001...
                        : num
##
   $ Minutes122
                        : num
                                0 0 0 0 0 0 0 0 0 0 ...
##
   $ Minutes123
                        : num
                               0000000000...
##
    $ Minutes124
                        : num
                                0 0 0 0 1 0 0 0 0 0 ...
##
   $ Minutes124.
                               0 0 1 0 0 0 0 0 0 0 ...
                         : num
##
   $ Minutes126
                                1 0 0 0 0 0 0 0 0 0 ...
                         : num
##
    $ Minutes129
                               0 0 0 0 0 0 0 0 0 0 ...
                         : num
##
    $ Minutes130
                         : num
                                0 0
                                   0 0 0 0 1 0 0 0 ...
##
    $ Minutes132
                         : num
                               0 0 0 0 0 0 0 0 0 0 ...
##
    $ Minutes133
                         : num
                               0 0 0 0 0 0 0 0 0 0 ...
##
                               0 0 0 0 0 0 0 0 0 0 ...
    $ Minutes134
                         : num
##
    $ Minutes136
                         : num
                               0 0
                                   0 0 0 0 0 0 1 0 ...
##
   $ Minutes140
                         : num
                               0 0 0 0 0 0 0 0 0 0 ...
##
    $ Minutes141
                         : num
                                0 0 0 0 0 0 0 0 0 0 ...
    $ Minutes143
##
                         : num
                               0 0 0 0 0 1 0 0 0 0 ...
##
    $ Minutes147
                         : num
                               0000000000...
##
    $ Minutes149
                         : num
                               0 0 0 0 0 0 0 0 0 0 ...
##
   $ Minutes151
                               0000000000...
                         : num
##
   $ Minutes152
                         : num
                                0 0 0 0 0 0 0 0 0 0 ...
   $ Minutes154
                               00000000000...
##
                         : num
##
   $ Minutes162
                         : num
                                0 0 0 0 0 0 0 0 0 0 ...
##
    $ Minutes164
                         : num
                               0 0 0 0 0 0 0 0 0 0 ...
##
    $ Minutes181
                                0 0
                                   0 0 0 0 0 0 0
                         : num
##
    $ Minutes81
                         : num
                               0 0 0 0 0 0 0 0 0 0 ...
##
                                   0 0 0 0 0 0 0 0 ...
    $ Budget10000000
                         : num
                               0 0 0 0 0 0 0 0 0 0 ...
##
     Budget130000000
                         : num
##
    $
     Budget140000000
                         : num
                               1 0 0 0 1 0 0 0 0 0
##
    $
                               0 0 0 0 0 0 0 0 0 0 ...
     Budget149000000
                         : num
##
    $ Budget150000000
                         : num
                                0 1 0 0 0 0 0 0 0 0 ...
##
    $
                               0 0 0 1 0 0 0 0 0 0 ...
     Budget150000000.
                         : num
##
    $ Budget160000000
                         : num
                               0 0 0 0 0 0 0 0 0 0 ...
##
    $ Budget162000000
                         : num
                               0 0 0 0 0 0 0 0 0 0 ...
##
    $ Budget165000000
                         : num
                               0 0 0 0 0 0 0 0 0 0 ...
##
     Budget170000000
                         : num
                               0 0 0 0 0 0 0 1 1 1 ...
##
    $ Budget175000000
                         : num
                               0000000000...
##
    $ Budget175000000.
                                0 0 0 0 0 0 0 0 0 0 ...
                        : num
##
    $ Budget180000000
                         : num
                               0 0 0 0 0 0 0 0 0 0 ...
##
    $
     Budget185000000
                         : num
                                0 0 0 0 0 0 0 0 0 0 ...
##
    $ Budget20000000
                               0 0 1 0 0 0 0 0 0 0 ...
                         : num
    $ Budget20000000.
                        : num
                               0 0 0 0 0 0 1 0 0 0 ...
```

"Budget356000000"

"Budget47000000."

## [55] "Budget321000000."

```
$ Budget220000000
                              0 0 0 0 0 1 0 0 0 0 ...
                       : num
##
   $ Budget225000000
                              0000000000...
                       : num
##
   $ Budget250000000
                       : num
                               0 0 0 0 0 0 0 0 0 0 ...
##
   $ Budget27000000
                              0 0 0 0 0 0 0 0 0 0 ...
                        : num
   $ Budget30000000
                       : num
                              0 0 0 0 0 0 0 0 0 0 ...
   $ Budget321000000.
##
                              0 0 0 0 0 0 0 0 0 0 ...
                       : num
    $ Budget356000000
                        : num
                              0 0 0 0 0 0 0 0 0 0 ...
##
    $ Budget47000000.
                        : num
                              0 0 0 0 0 0 0 0 0 0 ...
    $ Budget55000000.
                       : num
                              0000000000...
    $ X.Gross.Worldwide.: num
                              5.85e+08 2.63e+08 6.24e+08 4.49e+08 3.71e+08 ...
```

### 4.- Realizar la correlación de spearman

```
spearman<-cor(marvel_2, method = "spearman")</pre>
```

## 5.- Visualizar el objeto

#### spearman

```
##
                                   Minutes104 Minutes112 Minutes112.
## Rate
                      1.000000000 -0.27420842 -0.14432022 -0.17318427 -0.24534438
                     -0.274208422 1.00000000 -0.02631579 -0.02631579 -0.02631579
## Minutes104
                     -0.144320222 -0.02631579 1.00000000 -0.02631579 -0.02631579
## Minutes112
                     -0.173184267 -0.02631579 -0.02631579 1.00000000 -0.02631579
## Minutes112.
## Minutes114
                     -0.245344378 -0.02631579 -0.02631579 -0.02631579 1.00000000
## Minutes115
                     -0.031025900 -0.03771571 -0.03771571 -0.03771571 -0.03771571
## Minutes117
                      0.000000000 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes118
                     -0.057728089 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                     -0.202048311 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes120
## Minutes121
                      0.180400278 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes122
                      0.259776400 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes123
                     -0.263720146 -0.03771571 -0.03771571 -0.03771571 -0.03771571
## Minutes124
                     -0.144320222 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes124.
                     -0.101024156 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes126
                      0.151536233 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes129
                      0.086592133 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes130
                      0.087906715 -0.03771571 -0.03771571 -0.03771571 -0.03771571
## Minutes132
                     -0.057728089 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes133
                      0.036080056 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes134
                      0.000000000 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                      0.144787531 - 0.03771571 - 0.03771571 - 0.03771571 - 0.03771571
## Minutes136
## Minutes140
                      0.202048311 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes141
                      0.025854916 -0.03771571 -0.03771571 -0.03771571 -0.03771571
## Minutes143
                      0.012840986 -0.04682929 -0.04682929 -0.04682929 -0.04682929
## Minutes147
                      0.129888200 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                      0.238128367 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes149
## Minutes151
                     -0.187616289 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes152
                      0.274208422 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes154
                     -0.223696344 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes162
                      0.086592133 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                      0.216480333 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes164
## Minutes181
                      0.238128367 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes81
                     -0.259776400 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Budget10000000
                     ## Budget13000000
                      0.062051799 -0.03771571 -0.03771571 -0.03771571 -0.03771571
## Budget14000000
                      0.005170983 -0.03771571 -0.03771571 -0.03771571 -0.03771571
```

```
## Budget149000000
                       0.036080056 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                       ## Budget150000000
  Budget150000000.
                      -0.101024156 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                      -0.010341967 -0.03771571 -0.03771571 -0.03771571 -0.03771571
  Budget160000000
  Budget162000000
                      -0.057728089 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                       0.057728089 -0.02631579 -0.02631579 -0.02631579 -0.02631579
  Budget165000000
                       0.089886901 -0.04682929 0.56195149 -0.04682929 -0.04682929
## Budget17000000
## Budget175000000
                      -0.223696344 -0.02631579 -0.02631579 -0.02631579 -0.02631579
  Budget175000000.
                      -0.077564749 -0.03771571 -0.03771571 -0.03771571 -0.03771571
   Budget180000000
                       0.151536233 -0.02631579 -0.02631579 -0.02631579 -0.02631579
   Budget185000000
                       0.274208422 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                      -0.135340406 -0.05484085 -0.05484085 -0.05484085 0.47985743
  Budget200000000
  Budget200000000.
                      -0.028864044 -0.02631579 -0.02631579 -0.02631579 -0.02631579
   Budget220000000
                       0.180400278 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                      -0.057728089 -0.02631579 -0.02631579 -0.02631579 -0.02631579
  Budget225000000
  Budget250000000
                       0.082708026 -0.05484085 -0.05484085 -0.05484085 -0.05484085
                      -0.223696344 -0.02631579 -0.02631579 -0.02631579 -0.02631579
  Budget270000000
   Budget300000000
                      -0.202048311 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                       0.238128367 -0.02631579 -0.02631579 -0.02631579 -0.02631579
  Budget321000000.
  Budget356000000
                       0.238128367 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Budget47000000.
                      -0.259776400 -0.02631579 -0.02631579 -0.02631579 -0.02631579
  Budget55000000.
                       0.259776400 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                       0.528908456 -0.25944753 -0.07206876 -0.21620627 -0.23062002
## X.Gross.Worldwide.
                                  Minutes117 Minutes118 Minutes120 Minutes121
                       Minutes115
## Rate
                      -0.03102590 \quad 0.00000000 \quad -0.05772809 \quad -0.20204831 \quad 0.18040028
## Minutes104
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes112
## Minutes112.
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes114
## Minutes115
                      1.00000000 -0.03771571 -0.03771571 -0.03771571 -0.03771571
## Minutes117
                      -0.03771571 1.00000000 -0.02631579 -0.02631579 -0.02631579
## Minutes118
                      -0.03771571 -0.02631579 1.00000000 -0.02631579 -0.02631579
## Minutes120
                      -0.03771571 -0.02631579 -0.02631579 1.00000000 -0.02631579
## Minutes121
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 1.00000000
## Minutes122
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes123
                      -0.05405405 -0.03771571 -0.03771571 -0.03771571 -0.03771571
## Minutes124
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes124.
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes126
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes129
                      -0.05405405 -0.03771571 -0.03771571 -0.03771571 -0.03771571
## Minutes130
## Minutes132
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes133
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes134
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes136
                      -0.05405405 -0.03771571 -0.03771571 -0.03771571 -0.03771571
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes140
## Minutes141
                      -0.05405405 -0.03771571 -0.03771571 -0.03771571 -0.03771571
## Minutes143
                      -0.06711561 -0.04682929 -0.04682929 -0.04682929 -0.04682929
## Minutes147
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes149
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes151
## Minutes152
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes154
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes162
                     -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
```

```
## Minutes164
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes181
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes81
                     -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Budget10000000
                     -0.05405405 -0.03771571 -0.03771571 -0.03771571 -0.03771571
  Budget130000000
                      Budget140000000
                     -0.05405405 -0.03771571 -0.03771571 -0.03771571 -0.03771571
## Budget149000000
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Budget150000000
                      -0.05405405 -0.03771571 -0.03771571 -0.03771571 -0.03771571
  Budget150000000.
                      0.69774071 -0.02631579 -0.02631579 -0.02631579 -0.02631579
  Budget160000000
                      -0.05405405 -0.03771571 -0.03771571 -0.03771571 -0.03771571
  Budget162000000
                      -0.03771571 -0.02631579 1.00000000 -0.02631579 -0.02631579
                      0.69774071 -0.02631579 -0.02631579 -0.02631579 -0.02631579
  Budget165000000
  Budget170000000
                      -0.06711561 -0.04682929 -0.04682929 -0.04682929 0.56195149
   Budget175000000
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                      -0.05405405 -0.03771571 -0.03771571 -0.03771571 -0.03771571
  Budget175000000.
  Budget180000000
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
  Budget185000000
   Budget200000000
                      -0.07859775 -0.05484085 -0.05484085 -0.05484085 -0.05484085
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
  Budget200000000.
  Budget220000000
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
  Budget225000000
                     -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                      -0.07859775 -0.05484085 -0.05484085 -0.05484085 -0.05484085
## Budget250000000
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Budget27000000
  Budget300000000
                      -0.03771571 -0.02631579 -0.02631579 1.00000000 -0.02631579
  Budget321000000.
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
  Budget356000000
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
  Budget47000000.
  Budget55000000.
                      -0.03771571 -0.02631579 -0.02631579 -0.02631579 -0.02631579
  X.Gross.Worldwide. -0.12394649 -0.12972376 -0.10089626 -0.05765501 0.01441375
##
                      Minutes122 Minutes123 Minutes124 Minutes124.
                                                                       Minutes126
## Rate
                      0.25977640 -0.26372015 -0.14432022 -0.10102416
                                                                       0.15153623
  Minutes104
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes112
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes112.
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes114
                      -0.03771571 -0.05405405 -0.03771571 -0.03771571 -0.03771571
## Minutes115
## Minutes117
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes118
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes120
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes121
## Minutes122
                      1.00000000 -0.03771571 -0.02631579 -0.02631579 -0.02631579
                      -0.03771571 1.00000000 -0.03771571 -0.03771571 -0.03771571
## Minutes123
## Minutes124
                      -0.02631579 -0.03771571 1.00000000 -0.02631579 -0.02631579
## Minutes124.
                     -0.02631579 -0.03771571 -0.02631579 1.00000000 -0.02631579
## Minutes126
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 1.00000000
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes129
## Minutes130
                      -0.03771571 -0.05405405 -0.03771571 -0.03771571 -0.03771571
## Minutes132
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes133
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes134
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
                     -0.03771571 -0.05405405 -0.03771571 -0.03771571 -0.03771571
## Minutes136
## Minutes140
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes141
                     -0.03771571 -0.05405405 -0.03771571 -0.03771571 -0.03771571
## Minutes143
                     -0.04682929 -0.06711561 -0.04682929 -0.04682929 -0.04682929
```

```
## Minutes147
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes149
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes151
## Minutes152
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes154
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes162
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes164
## Minutes181
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes81
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Budget10000000
                     -0.03771571 -0.05405405 -0.03771571 -0.03771571 -0.03771571
## Budget13000000
                      -0.03771571 -0.05405405 -0.03771571 -0.03771571 -0.03771571
                      -0.03771571 -0.05405405 0.69774071 -0.03771571 0.69774071
## Budget14000000
## Budget149000000
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
  Budget150000000
                      -0.03771571 -0.05405405 -0.03771571 -0.03771571 -0.03771571
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Budget15000000.
## Budget16000000
                      -0.03771571 -0.05405405 -0.03771571 -0.03771571 -0.03771571
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
  Budget162000000
   Budget165000000
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
                      -0.04682929 -0.06711561 -0.04682929 -0.04682929 -0.04682929
  Budget170000000
  Budget175000000
                      -0.02631579 0.69774071 -0.02631579 -0.02631579 -0.02631579
  Budget175000000.
                      -0.03771571 0.47297297 -0.03771571 -0.03771571 -0.03771571
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
  Budget180000000
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Budget185000000
                      -0.05484085 -0.07859775 -0.05484085 0.47985743 -0.05484085
  Budget200000000
  Budget200000000.
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
  Budget220000000
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
  Budget225000000
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
  Budget250000000
                      -0.05484085 -0.07859775 -0.05484085 -0.05484085 -0.05484085
  Budget270000000
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Budget30000000
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Budget321000000.
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
  Budget356000000
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
  Budget47000000.
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
                       1.00000000 -0.03771571 -0.02631579 -0.02631579 -0.02631579
  Budget55000000.
  X.Gross.Worldwide.
                       0.11531001
                                  0.10328874 -0.18737877 -0.08648251 -0.11531001
                                  Minutes130 Minutes132 Minutes133 Minutes134
                      Minutes129
## Rate
                       ## Minutes104
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes112
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes112.
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes114
## Minutes115
                      -0.03771571 -0.05405405 -0.03771571 -0.03771571 -0.03771571
## Minutes117
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes118
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes120
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes121
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes122
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes123
                      -0.03771571 -0.05405405 -0.03771571 -0.03771571 -0.03771571
## Minutes124
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes124.
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
                      -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes126
## Minutes129
                      1.00000000 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes130
                      -0.03771571 1.00000000 -0.03771571 -0.03771571 -0.03771571
                     -0.02631579 -0.03771571 1.00000000 -0.02631579 -0.02631579
## Minutes132
```

```
## Minutes133
                     -0.02631579 -0.03771571 -0.02631579 1.00000000 -0.02631579
## Minutes134
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 1.00000000
## Minutes136
                     -0.03771571 -0.05405405 -0.03771571 -0.03771571 -0.03771571
## Minutes140
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes141
                     -0.03771571 -0.05405405 -0.03771571 -0.03771571 -0.03771571
                     -0.04682929 -0.06711561 -0.04682929 -0.04682929 -0.04682929
## Minutes143
## Minutes147
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes149
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes151
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes152
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes154
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes162
## Minutes164
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes181
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Minutes81
  Budget100000000
                     -0.03771571 -0.05405405 0.69774071 -0.03771571 -0.03771571
  Budget130000000
                     -0.03771571 -0.05405405 -0.03771571 -0.03771571 -0.03771571
  Budget140000000
                     -0.03771571 -0.05405405 -0.03771571 -0.03771571 -0.03771571
  Budget149000000
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Budget150000000
                     -0.03771571 -0.05405405 -0.03771571 -0.03771571 -0.03771571
  Budget150000000.
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
                      0.69774071 -0.05405405 -0.03771571 -0.03771571 -0.03771571
  Budget160000000
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Budget162000000
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
  Budget165000000
  Budget170000000
                     -0.04682929 -0.06711561 -0.04682929 -0.04682929 -0.04682929
  Budget175000000
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
                     -0.03771571 -0.05405405 -0.03771571 0.69774071 -0.03771571
  Budget175000000.
  Budget180000000
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
  Budget185000000
## Budget20000000
                     -0.05484085 -0.07859775 -0.05484085 -0.05484085 0.47985743
  Budget200000000.
                     Budget220000000
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
  Budget225000000
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
                     -0.05484085 -0.07859775 -0.05484085 -0.05484085 -0.05484085
  Budget250000000
  Budget270000000
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Budget30000000
## Budget321000000.
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Budget356000000
## Budget47000000.
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
                     -0.02631579 -0.03771571 -0.02631579 -0.02631579 -0.02631579
## Budget55000000.
  X.Gross.Worldwide.
                      0.15855127
                                  0.17559085 -0.20179252
                                                         0.08648251
                                                                     0.21620627
##
                      Minutes 136
                                 Minutes140 Minutes141 Minutes143
                                                                     Minutes147
## Rate
                      0.14478753
                                 0.20204831 0.02585492 0.01284099
                                                                     0.12988820
## Minutes104
                     -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
## Minutes112
                     -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
                     -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
## Minutes112.
## Minutes114
                     -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
## Minutes115
                     -0.05405405 -0.03771571 -0.05405405 -0.06711561 -0.03771571
## Minutes117
                     -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
## Minutes118
                     -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
                     -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
## Minutes120
## Minutes121
                     -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
## Minutes122
                     -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
## Minutes123
                     -0.05405405 -0.03771571 -0.05405405 -0.06711561 -0.03771571
```

```
## Minutes124
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
## Minutes124.
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
## Minutes126
## Minutes129
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
## Minutes130
                      -0.05405405 -0.03771571 -0.05405405 -0.06711561 -0.03771571
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
## Minutes132
## Minutes133
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
## Minutes134
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
## Minutes136
                       1.00000000 -0.03771571 -0.05405405 -0.06711561 -0.03771571
## Minutes140
                      -0.03771571 1.00000000 -0.03771571 -0.04682929 -0.02631579
## Minutes141
                      -0.05405405 -0.03771571 1.00000000 -0.06711561 -0.03771571
                      -0.06711561 -0.04682929 -0.06711561 1.00000000 -0.04682929
## Minutes143
## Minutes147
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929
                                                                       1.00000000
## Minutes149
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
## Minutes151
## Minutes152
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
## Minutes154
## Minutes162
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
## Minutes164
## Minutes181
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
## Minutes81
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
                      -0.05405405 -0.03771571 -0.05405405 -0.06711561 -0.03771571
## Budget10000000
                      -0.05405405 -0.03771571 -0.05405405 -0.06711561 -0.03771571
## Budget13000000
                      -0.05405405 -0.03771571 -0.05405405 -0.06711561 -0.03771571
## Budget14000000
## Budget149000000
                      -0.03771571 -0.02631579 0.69774071 -0.04682929 -0.02631579
  Budget150000000
                      -0.05405405 0.69774071 -0.05405405 -0.06711561 -0.03771571
  Budget150000000.
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
  Budget160000000
                      -0.05405405 -0.03771571 -0.05405405 0.36913583 -0.03771571
  Budget162000000
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
## Budget165000000
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
## Budget17000000
                       0.36913583 -0.04682929 -0.06711561 -0.08333333 -0.04682929
  Budget175000000
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
   Budget175000000.
                      -0.05405405 -0.03771571 -0.05405405 -0.06711561 -0.03771571
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
  Budget180000000
  Budget185000000
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
                       0.30456628 -0.05484085 -0.07859775 -0.09759001 -0.05484085
## Budget20000000
  Budget200000000.
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
                      -0.03771571 -0.02631579 -0.03771571 0.56195149 -0.02631579
## Budget22000000
  Budget225000000
                      -0.03771571 -0.02631579 -0.03771571
                                                           0.56195149 -0.02631579
                      -0.07859775 -0.05484085 0.30456628 -0.09759001 0.47985743
  Budget250000000
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
  Budget270000000
  Budget300000000
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
  Budget321000000.
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
  Budget356000000
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
## Budget4700000.
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
                      -0.03771571 -0.02631579 -0.03771571 -0.04682929 -0.02631579
## Budget55000000.
  X.Gross.Worldwide.
                       0.03098662 -0.17296502 0.18591973
                                                           0.22229531
                                                                       0.18737877
##
                       Minutes149 Minutes151
                                              Minutes152 Minutes154
                                                                       Minutes162
## Rate
                       0.23812837 -0.18761629
                                              0.27420842 -0.22369634
                                                                       0.08659213
## Minutes104
                      -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                      -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes112
## Minutes112.
                      -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes114
                      -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes115
                      -0.03771571 -0.03771571 -0.03771571 -0.03771571 -0.03771571
```

```
## Minutes117
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes118
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes120
## Minutes121
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes122
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes123
                     -0.03771571 -0.03771571 -0.03771571 -0.03771571 -0.03771571
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes124
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes124.
## Minutes126
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes129
## Minutes130
                     -0.03771571 -0.03771571 -0.03771571 -0.03771571 -0.03771571
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes132
## Minutes133
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes134
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes136
                     -0.03771571 -0.03771571 -0.03771571 -0.03771571 -0.03771571
## Minutes140
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                     -0.03771571 -0.03771571 -0.03771571 -0.03771571 -0.03771571
## Minutes141
## Minutes143
                     -0.04682929 -0.04682929 -0.04682929 -0.04682929 -0.04682929
## Minutes147
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes149
                      1.00000000 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes151
                     -0.02631579 1.00000000 -0.02631579 -0.02631579 -0.02631579
## Minutes152
                     -0.02631579 -0.02631579 1.00000000 -0.02631579 -0.02631579
## Minutes154
                     -0.02631579 -0.02631579 -0.02631579 1.00000000 -0.02631579
## Minutes162
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579
                                                                    1.00000000
## Minutes164
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes181
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes81
  Budget100000000
                     -0.03771571 -0.03771571 -0.03771571 -0.03771571 -0.03771571
  Budget130000000
                     -0.03771571 -0.03771571 -0.03771571 -0.03771571 0.69774071
## Budget14000000
                     -0.03771571 -0.03771571 -0.03771571 -0.03771571 -0.03771571
## Budget149000000
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Budget150000000
                     -0.03771571 -0.03771571 -0.03771571 -0.03771571 -0.03771571
  Budget150000000.
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                     -0.03771571 -0.03771571 -0.03771571 -0.03771571 -0.03771571
  Budget160000000
  Budget162000000
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Budget165000000
## Budget17000000
                     -0.04682929 -0.04682929 -0.04682929 -0.04682929 -0.04682929
## Budget175000000
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
  Budget175000000.
                     -0.03771571 -0.03771571 -0.03771571 -0.03771571 -0.03771571
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
  Budget180000000
                     -0.02631579 -0.02631579 1.00000000 -0.02631579 -0.02631579
  Budget185000000
  Budget200000000
                     -0.05484085 -0.05484085 -0.05484085 -0.05484085 -0.05484085
  Budget200000000.
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
  Budget220000000
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Budget225000000
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                     ## Budget250000000
  Budget270000000
                     -0.02631579 -0.02631579 -0.02631579 1.00000000 -0.02631579
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
  Budget300000000
  Budget321000000.
                      1.00000000 -0.02631579 -0.02631579 -0.02631579 -0.02631579
  Budget356000000
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Budget4700000.
## Budget55000000.
                     -0.02631579 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## X.Gross.Worldwide.
                     ##
                      Minutes164 Minutes181
                                               Minutes81 Budget100000000
```

```
## Rate
                       -0.23786523
                      -0.02631579 -0.02631579 -0.02631579
## Minutes104
                                                                0.69774071
## Minutes112
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Minutes112.
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Minutes114
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Minutes115
                      -0.03771571 -0.03771571 -0.03771571
                                                               -0.05405405
## Minutes117
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Minutes118
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Minutes120
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Minutes121
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Minutes122
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Minutes123
                      -0.03771571 -0.03771571 -0.03771571
                                                               -0.05405405
## Minutes124
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Minutes124.
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Minutes126
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Minutes129
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Minutes130
                      -0.03771571 -0.03771571 -0.03771571
                                                               -0.05405405
## Minutes132
                      -0.02631579 -0.02631579 -0.02631579
                                                                0.69774071
## Minutes133
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Minutes134
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Minutes136
                      -0.03771571 -0.03771571 -0.03771571
                                                               -0.05405405
## Minutes140
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Minutes141
                      -0.03771571 -0.03771571 -0.03771571
                                                               -0.05405405
## Minutes143
                      -0.04682929 -0.04682929 -0.04682929
                                                               -0.06711561
## Minutes147
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Minutes149
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Minutes151
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Minutes152
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Minutes154
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Minutes162
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Minutes164
                       1.00000000 -0.02631579 -0.02631579
                                                               -0.03771571
  Minutes181
                      -0.02631579
                                  1.00000000 -0.02631579
                                                               -0.03771571
  Minutes81
                      -0.02631579 -0.02631579
                                              1.00000000
                                                               -0.03771571
                      -0.03771571 -0.03771571 -0.03771571
                                                                1.00000000
  Budget100000000
   Budget130000000
                      -0.03771571 -0.03771571 -0.03771571
                                                               -0.05405405
  Budget140000000
                      -0.03771571 -0.03771571 -0.03771571
                                                               -0.05405405
  Budget149000000
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
                      -0.03771571 -0.03771571 -0.03771571
  Budget150000000
                                                               -0.05405405
  Budget150000000.
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
  Budget160000000
                      -0.03771571 -0.03771571 -0.03771571
                                                               -0.05405405
   Budget162000000
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
  Budget165000000
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
  Budget170000000
                      -0.04682929 -0.04682929 -0.04682929
                                                               -0.06711561
                      -0.02631579 -0.02631579 -0.02631579
   Budget175000000
                                                               -0.03771571
  Budget175000000.
                      -0.03771571 -0.03771571 -0.03771571
                                                               -0.05405405
  Budget180000000
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
                                                               -0.03771571
  Budget185000000
                      -0.02631579 -0.02631579 -0.02631579
   Budget200000000
                      -0.05484085 -0.05484085 -0.05484085
                                                               -0.07859775
  Budget200000000.
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
   Budget220000000
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
  Budget225000000
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Budget250000000
                       0.47985743 -0.05484085 -0.05484085
                                                               -0.07859775
## Budget27000000
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
## Budget30000000
                      -0.02631579 -0.02631579 -0.02631579
                                                               -0.03771571
```

```
## Budget321000000.
                       -0.02631579 -0.02631579 -0.02631579
                                                                 -0.03771571
  Budget356000000
                                    1.00000000 -0.02631579
                       -0.02631579
                                                                 -0.03771571
   Budget47000000.
                       -0.02631579 -0.02631579
                                                1.00000000
                                                                 -0.03771571
   Budget55000000.
                       -0.02631579 -0.02631579 -0.02631579
                                                                 -0.03771571
   X.Gross.Worldwide.
                        -0.33052396
##
                       Budget130000000 Budget140000000 Budget149000000
## Rate
                            0.06205180
                                            0.005170983
                                                             0.03608006
## Minutes104
                           -0.03771571
                                           -0.037715714
                                                            -0.02631579
## Minutes112
                           -0.03771571
                                          -0.037715714
                                                            -0.02631579
## Minutes112
                           -0.03771571
                                          -0.037715714
                                                            -0.02631579
## Minutes114
                           -0.03771571
                                          -0.037715714
                                                            -0.02631579
## Minutes115
                           -0.05405405
                                          -0.054054054
                                                            -0.03771571
                                                            -0.02631579
  Minutes117
                            0.69774071
                                          -0.037715714
## Minutes118
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## Minutes143
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## Minutes164
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## Budget165000000
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   Budget220000000
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   Budget225000000
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   Budget300000000
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   Budget356000000
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  Minutes114
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## Minutes115
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## Minutes117
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## Minutes118
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## Minutes122
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## Minutes123
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## Minutes124
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## Minutes124
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## Minutes126
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## Minutes134
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## Minutes136
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## Minutes140
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## Minutes141
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## Minutes143
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## Minutes149
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## Minutes151
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## Minutes152
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## Minutes154
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## Minutes162
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## Minutes164
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## Minutes181
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   Budget165000000
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   Budget225000000
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   Budget356000000
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## Minutes115
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## Minutes117
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## Minutes121
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## Minutes122
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## Minutes123
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## Minutes124
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## Minutes124.
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## Minutes134
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## Minutes162
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##
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  Minutes115
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## Minutes117
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## Minutes164
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## Minutes181
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   Budget225000000
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  Minutes104
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## Minutes112.
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## Minutes114
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## Minutes115
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	Minutes124.			
	Minutes126 Minutes129	-0.02631579 -0.02631579	-0.02631579 -0.02631579	-0.02631579 -0.02631579
	Minutes130	-0.02631579	-0.02631579	-0.02631579
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	Minutes164	-0.02631579	-0.02631579	-0.02631579
	Minutes181	1.00000000	-0.02631579	-0.02631579
	Minutes 81	-0.02631579	1.00000000	-0.02631579
##	Budget100000000	-0.03771571	-0.03771571	-0.03771571
##	Budget130000000	-0.03771571	-0.03771571	-0.03771571
##	Budget140000000	-0.03771571	-0.03771571	-0.03771571
##	Budget149000000	-0.02631579	-0.02631579	-0.02631579
##	Budget150000000	-0.03771571	-0.03771571	-0.03771571
##	Budget150000000.	-0.02631579	-0.02631579	-0.02631579
##	Budget160000000	-0.03771571	-0.03771571	-0.03771571
##	Budget162000000	-0.02631579	-0.02631579	-0.02631579
##	Budget165000000	-0.02631579	-0.02631579	-0.02631579
##	Budget170000000	-0.04682929	-0.04682929	-0.04682929
	Budget175000000	-0.02631579	-0.02631579	-0.02631579
	Budget175000000.	-0.03771571	-0.03771571	-0.03771571
	Budget180000000	-0.02631579	-0.02631579	-0.02631579
##	Budget185000000	-0.02631579	-0.02631579	-0.02631579
##	Budget200000000	-0.05484085	-0.05484085	-0.05484085
##	Budget200000000.	-0.02631579	-0.02631579	-0.02631579
##	Budget220000000	-0.02631579	-0.02631579	-0.02631579
##	Budget225000000	-0.02631579	-0.02631579	-0.02631579
##	Budget250000000	-0.05484085	-0.05484085	-0.05484085
##	Budget270000000	-0.02631579	-0.02631579	-0.02631579
##	Budget300000000	-0.02631579	-0.02631579	-0.02631579
##	Budget321000000.	-0.02631579	-0.02631579	-0.02631579
##	Budget356000000	1.00000000	-0.02631579	-0.02631579
##	Budget47000000.	-0.02631579	1.00000000	-0.02631579
##	Budget55000000.	-0.02631579	-0.02631579	1.00000000
##	${\tt X.Gross.Worldwide.}$	0.27386128	-0.27386128	0.11531001
##		${\tt X.Gross.Worldwide.}$		

шш	D-+-	0 50000046
##	Rate	0.52890846
##	Minutes104	-0.25944753
##	Minutes112	-0.07206876
##	Minutes112.	-0.21620627
##	Minutes114	-0.23062002
##	Minutes115	-0.12394649
##	Minutes117	-0.12972376
##	Minutes118	-0.10089626
##	Minutes120	-0.05765501
##	Minutes121	0.01441375
##	Minutes122	0.11531001
##	Minutes123	0.10328874
##	Minutes124	-0.18737877
##	Minutes124.	-0.08648251
##	Minutes126	-0.11531001
##	Minutes129	0.15855127
##	Minutes130	0.17559085
##	Minutes132	-0.20179252
##	Minutes133	0.08648251
##	Minutes134	0.21620627
##	Minutes136	0.03098662
##	Minutes140	-0.17296502
##	Minutes141	0.18591973
##	Minutes143	0.22229531
##	Minutes147	0.18737877
##	Minutes149	0.25944753
##	Minutes151	0.23944733
##	Minutes152	0.10089626
##	Minutes154	-0.15855127
##		-0.13833127
##	Minutes162	0.12972376
##	Minutes164	0.12972376
	Minutes181	
##	Minutes81	-0.27386128
##	Budget100000000	-0.33052396
##	Budget13000000	-0.26855072
##	Budget14000000	-0.21690635
##	Budget14900000	0.02882750
##	Budget150000000	-0.27887959
##	Budget150000000.	-0.14413752
##	Budget16000000	0.23756410
##	Budget162000000	-0.10089626
##	Budget165000000	-0.02882750
##	Budget17000000	-0.04274910
##	Budget175000000	0.00000000
##	Budget175000000.	0.16526198
##	Budget180000000	0.04324125
##	Budget185000000	0.10089626
##	Budget20000000	-0.02252818
##	Budget200000000.	0.20179252
##	Budget220000000	0.24503378
##	Budget225000000	-0.04324125
##	Budget250000000	0.32290388
##	Budget270000000	-0.15855127
##	Budget30000000	-0.05765501

```
## Budget321000000. 0.25944753
## Budget356000000 0.27386128
## Budget47000000. -0.27386128
## Budget55000000. 0.11531001
## X.Gross.Worldwide. 1.00000000
```

6.- Se utiliza la funcion kable para tabla en formato markdown.

kable(spearman)

RaMiMiMiMiMiMiMiMiMiMiMiMiMiMiMiMiMiMiMi	MANANARANARANARANARANARANARANARANARANARA
Rate0000000 0.0000000.18025933764 0.151383627200636008000202326188	
0.2 <b>7.42088222838140259.72(28)483.2637220202</b> 42 0.0577281 Minutle0002000	0.187 <b>6102</b> 36963 0.2 <b>59237</b> 8652 0.1 <b>0.100203772</b> 028 <b>0</b> .26
Minutes 1100 1000	0.6977407
0.2742082602626262626262626262626262626262626	9YG\$ZQQ\$KG\\$YG\$XG\$XG\$XG\$XG\$XG\$XG\$XG\$XG\$ZG\$ZG\$Z\G\$Z\G\$Z\G\$Z\G\$XG\$XG\$X
Minutes 1112000000	0.5619
0.19492021926021921921921921921926202192192192192192192192192192192192192192	<u>91/08/2/08/1/08/1/08/1/08/1/08/1/08/1/08/</u>
Minutes1121.0000000	
0.1731286226616863172863103863863863863872863163863872863103863310386317286778677878787878787878787878787878787	
Minutes114 1.0000000	
0.295 de la comparta del la comparta de la comparta del la comparta de la comparta del la comparta de la comparta del comparta del la comparta del la comparta del la comparta del la c	
Minutes115 1.0000000	
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Minima 1.0000000	
0.02602168468468158162 $60$ 21684684681681598662168468468168158462168468151816515	
Minutes118	
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Minutes120 1.0000000	
0.2020246346346346346326534632653463263346326334633633463346334633463346	
Mi@ult804203 1.0009000	
Mi@2597704 1.0000000	
0.0 <b>2.021081081081081081081081081081081081081081</b>	
0.2635203125112511251125112511251125112511251125	
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Bu <b>dge 22000</b> 0000			0.5619515 -			
0.0 <b>2.0000080080080000</b>	08108108108108175210KIYO	BY CONTORUCION CONTORVO	817921033175181.6Q10121106	SKUBKUBKUBKUBKUBKUBKUBK	5817518175171517161817518175181751817518	
Budget225000000			0.5619515 -			
0.0 <b>6.70122661/668/668/668T512</b> K66 <b>7</b> K						
Bu <b>dge 27080</b> 0000			- 0.304 <b>56<b>63</b>9<b>854</b>7</b>	<b>1</b> 98574 0.4798574		
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Budget270000000				1.0000000		
0.2 <b>030000000000000000</b>	081081081081081752100710	ONSONDONSCIDISONSONS		NSONSONDONSO 1860/2018	5817518175171517161817518161815181618	
Budget30000000 1.	0000000					
0.2 <b>020216216216216315126</b>	5581 52602168175216 <b>2</b> 16	ONSONDONSCIDISONSONS		SKOSKOSKOSKOSKOSKOSK	5817518175171517161817518161815181618	
Bu <b>dga:32280</b> 0000			1.0000	000		
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Bu <b>dgassee</b> 00000				1.000000	00	
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Budget47000000				1.000	0000	
0.2 <b>69127021/08/68/68/68/512/6</b>	081081081081081752100710	ONSONDONSCIDISONSONS		31031031031031031031531	58.7030503030303030303030303030303030303030	
Bu <b>dgetstooo</b> 000	- 1.0000000					
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0.2 <b>6</b> 9 <b>022062806200962</b>	<b>0.18.70578</b>	<b>8525</b> 10 <b>0</b> .2017925	0.1729650	0.1685550338.273	3861 <b>1824</b> 14097)2 <b>3</b> 874968 7 <b>0</b> 008	296832277

# Realizamos la correlación Spearman con las variables numéricas originales de nuestra selección anterior

```
\# \mbox{Librerias}1.
Abrir librería
library(readxl)
marvel_dc<-read_excel("marvel.xlsx")</pre>
#Exploración de variables
1.- Dimensión
dim(marvel_dc)
## [1] 39 11
2.- Tipo de variables
str(marvel_dc)
## tibble [39 x 11] (S3: tbl_df/tbl/data.frame)
                         : num [1:39] 1 2 3 4 5 6 7 8 9 10 ...
                        : chr [1:39] "Iron Man" "The Incredible Hulk" "Iron Man 2" "Thor" ...
## $ Original Title
## $ Company
                         : chr [1:39] "Marvel" "Marvel" "Marvel" "Marvel" ...
## $ Rate
                         : num [1:39] 7.9 6.7 7 7 6.9 8 7.2 6.9 7.7 8 ...
## $ Metascore
                         : num [1:39] 79 61 57 57 66 69 62 54 70 76 ...
## $ Minutes
                         : chr [1:39] "126" "112 " "124 " "115" ...
## $ Release
                         : num [1:39] 2008 2008 2010 2011 2011 ...
                         : chr [1:39] "140000000" "150000000" "200000000" "150000000 " ...
## $ Budget
## $ Opening Weekend USA: num [1:39] 9.86e+07 5.54e+07 1.28e+08 6.57e+07 6.51e+07 ...
```

```
## $ Gross USA : num [1:39] 3.19e+08 1.35e+08 3.12e+08 1.81e+08 1.77e+08 ...
## $ Gross Worldwide : num [1:39] 5.85e+08 2.63e+08 6.24e+08 4.49e+08 3.71e+08 ...
```

3.- Nombre y posición de la variable

colnames(marvel\_dc)

## [1] "ID" "Original Title" "Company" ## [4] "Rate" "Metascore" "Minutes"

## [7] "Release" "Budget" "Opening Weekend USA"

## [10] "Gross USA" "Gross Worldwide"

4.- Seleccionar las variables: Rate y gross.worldwide

```
marvel_dc<-marvel_dc[,c(4, 11)]</pre>
```

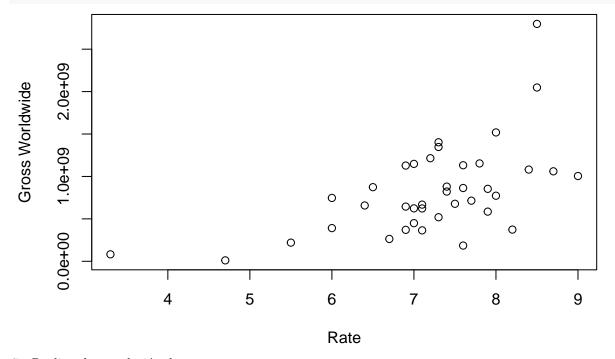
5.- Verificar que el nombre de las variables

colnames(marvel\_dc)

## [1] "Rate" "Gross Worldwide"

6.- Realizar un plot de exploracion

plot(marvel\_dc)



7.- Realizar la correlación de spearman

```
spearman<-cor(marvel_dc, method = "spearman")</pre>
```

8.- Visualizar el objeto

spearman

## Rate Gross Worldwide ## Rate 1.0000000 0.5289085 ## Gross Worldwide 0.5289085 1.0000000

9.- Se utiliza la funcion kable para tabla en formato markdown.

# kable(spearman)

	Rate	Gross Worldwide
Rate	1.0000000	0.5289085
Gross Worldwide	0.5289085	1.0000000