

# Correlaciones

Mónica Mejía Antonio

2022-06-27

#\_\_\_\_\_ COEFICIENTE DE CORRELACION \_\_\_\_\_

## Utilidad

Esta metodología sirve para identificar la relación entre 2 variables de tipo **cuantitativo**, los datos se distribuyen de forma normal. Area: Estadística Paramétrica. Y se utiliza la matriz “penguins.xlsx” como ejemplo

#Librerías 1. Abrir librería

```
library(readxl)
```

```
penguins<-read_excel("penguins.xlsx")
```

#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)
## $ ID           : chr [1:344] "i1" "i2" "i3" "i4" ...
## $ especie      : chr [1:344] "Adelie" "Adelie" "Adelie" "Adelie" ...
## $ 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_alata_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" ...
## $ año          : num [1:344] 2007 2007 2007 2007 2007 ...
```

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"
```

[illegible]

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]
```

Verificación de la matriz

```
str(adelie)
```

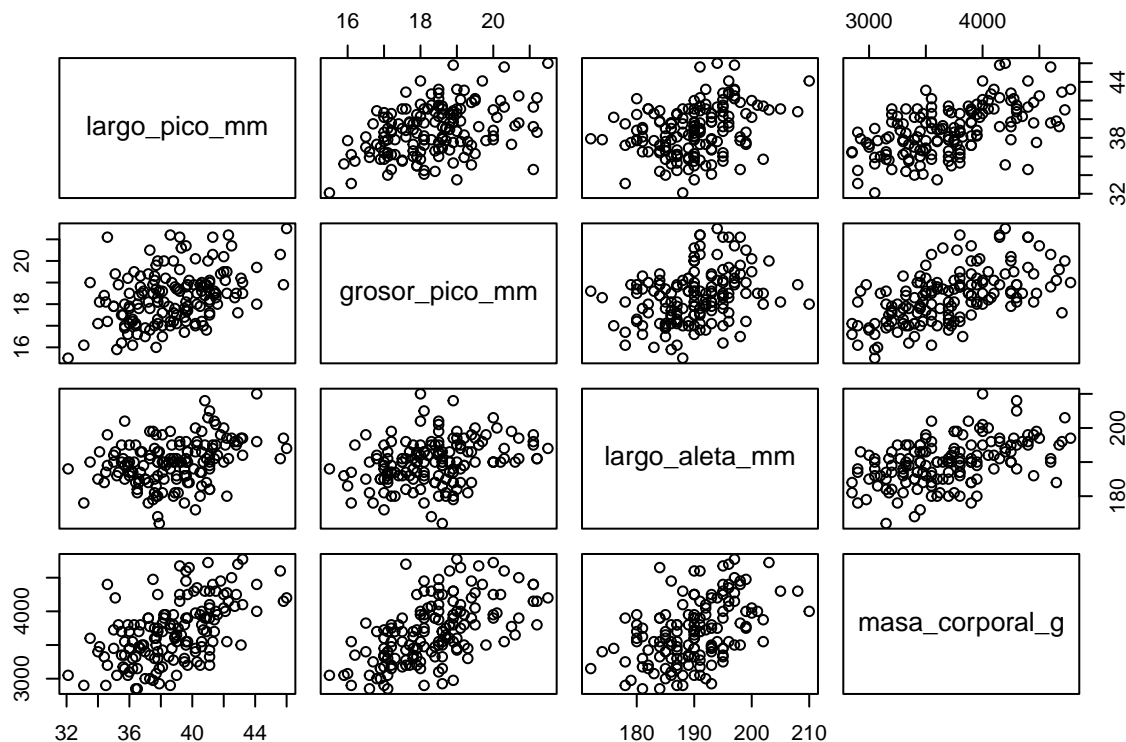
```
## tibble [152 x 4] (S3: tbl_df/tbl/data.frame)
## $ largo_pico_mm : num [1:152] 39.1 39.5 40.3 37.8 36.7 39.3 38.9 39.2 34.1 42 ...
## $ grosor_pico_mm : num [1:152] 18.7 17.4 18 18.1 19.3 20.6 17.8 19.6 18.1 20.2 ...
## $ largo_aleta_mm : num [1:152] 181 186 195 190 193 190 181 195 193 190 ...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

#Metodologia 1.- Calculo de la correlacion de pearson

```
cor_adelie<-cor(adelie)
```

2.- Generacion del grafico de correlacion

```
plot(adelie)
```



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

```
library(knitr)
```

```
kable(cor_adelie)
```

	<u>largo_pico_mm</u>	<u>grosor_pico_mm</u>	<u>largo_aleta_mm</u>	<u>masa_corporal_g</u>
<u>largo_pico_mm</u>	1.0000000	0.3917580	0.3256178	0.5486177

	largo_pico_mm	grosor_pico_mm	largo_aleta_mm	masa_corporal_g
grosor_pico_mm	0.3917580	1.0000000	0.3075689	0.5760619
largo_aleta_mm	0.3256178	0.3075689	1.0000000	0.4682015
masa_corporal_g	0.5486177	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: Estadística Paramétrica. Y se utiliza la matriz “marvel.xlsx” como ejemplo

#Librerías 1.Abrir librería

```
library(readxl)
```

```
marvel<-read_excel("marvel.xlsx")
```

#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" ...
##  $ Release            : num [1:39] 2008 2008 2010 2011 2011 ...
##  $ Budget             : chr [1:39] "1400000000" "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)]
```

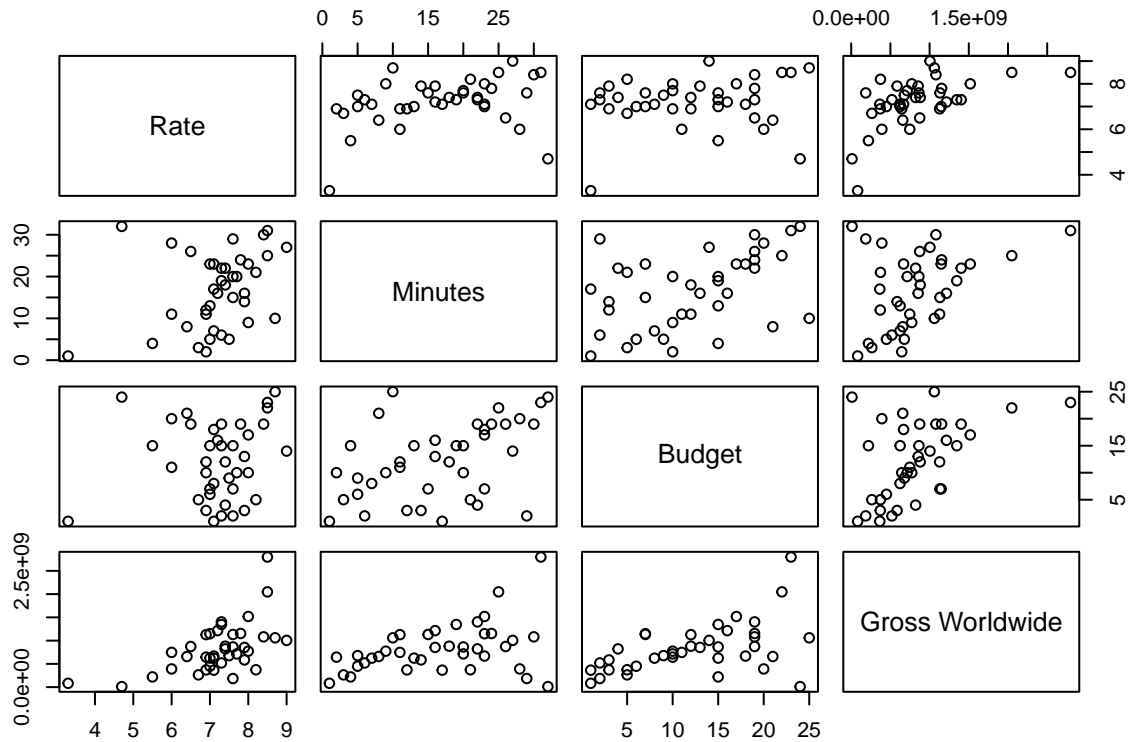
5.- Verificar que el nombre de las variables

```
colnames(marvel)
```

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

6.- Realizar un plot de exploración

```
plot(marvel)
```



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
## 2 Budget
```

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] "Budget100000000"     "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"
```

```
## [55] "Budget321000000." "Budget356000000" "Budget47000000."
## [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 ...
## $ Minutes112 : num 0 0 0 0 0 0 0 1 0 0 ...
## $ Minutes112. : num 0 1 0 0 0 0 0 0 0 0 ...
## $ Minutes114 : num 0 0 0 0 0 0 0 0 0 0 ...
## $ 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 0 0 0 0 0 0 0 0 0 0 ...
## $ Minutes120 : num 0 0 0 0 0 0 0 0 0 0 ...
## $ Minutes121 : num 0 0 0 0 0 0 0 0 0 1 ...
## $ Minutes122 : num 0 0 0 0 0 0 0 0 0 0 ...
## $ Minutes123 : num 0 0 0 0 0 0 0 0 0 0 ...
## $ Minutes124 : num 0 0 0 0 1 0 0 0 0 0 ...
## $ Minutes124. : num 0 0 1 0 0 0 0 0 0 0 ...
## $ Minutes126 : num 1 0 0 0 0 0 0 0 0 0 ...
## $ Minutes129 : num 0 0 0 0 0 0 0 0 0 0 ...
## $ 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 ...
## $ Minutes134 : num 0 0 0 0 0 0 0 0 0 0 ...
## $ 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 0 0 0 0 0 0 0 0 0 0 ...
## $ Minutes149 : num 0 0 0 0 0 0 0 0 0 0 ...
## $ Minutes151 : num 0 0 0 0 0 0 0 0 0 0 ...
## $ Minutes152 : num 0 0 0 0 0 0 0 0 0 0 ...
## $ Minutes154 : num 0 0 0 0 0 0 0 0 0 0 ...
## $ 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 : num 0 0 0 0 0 0 0 0 0 0 ...
## $ Minutes81 : num 0 0 0 0 0 0 0 0 0 0 ...
## $ Budget100000000 : num 0 0 0 0 0 0 0 0 0 0 ...
## $ Budget130000000 : num 0 0 0 0 0 0 0 0 0 0 ...
## $ Budget140000000 : num 1 0 0 0 1 0 0 0 0 0 ...
## $ Budget149000000 : num 0 0 0 0 0 0 0 0 0 0 ...
## $ Budget150000000 : num 0 1 0 0 0 0 0 0 0 0 ...
## $ Budget150000000. : num 0 0 0 1 0 0 0 0 0 0 ...
## $ 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 0 0 0 0 0 0 0 0 0 0 ...
## $ Budget175000000. : num 0 0 0 0 0 0 0 0 0 0 ...
## $ Budget180000000 : num 0 0 0 0 0 0 0 0 0 0 ...
## $ Budget185000000 : num 0 0 0 0 0 0 0 0 0 0 ...
## $ Budget200000000 : num 0 0 1 0 0 0 0 0 0 0 ...
## $ Budget200000000. : num 0 0 0 0 0 0 1 0 0 0 ...
```

```
## $ Budget220000000 : num 0 0 0 0 0 1 0 0 0 0 ...
## $ Budget225000000 : num 0 0 0 0 0 0 0 0 0 0 ...
## $ Budget250000000 : num 0 0 0 0 0 0 0 0 0 0 ...
## $ Budget270000000 : num 0 0 0 0 0 0 0 0 0 0 ...
## $ Budget300000000 : num 0 0 0 0 0 0 0 0 0 0 ...
## $ Budget321000000. : num 0 0 0 0 0 0 0 0 0 0 ...
## $ 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 0 0 0 0 0 0 0 0 0 0 ...
## $ 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")
```

5.- Visualizar el objeto

```
spearman
```

```
##              Rate Minutes104 Minutes112 Minutes112. Minutes114
## Rate              1.000000000 -0.27420842 -0.14432022 -0.17318427 -0.24534438
## Minutes104        -0.274208422  1.000000000 -0.02631579 -0.02631579 -0.02631579
## Minutes112        -0.144320222 -0.02631579  1.000000000 -0.02631579 -0.02631579
## Minutes112.       -0.173184267 -0.02631579 -0.02631579  1.000000000 -0.02631579
## Minutes114        -0.245344378 -0.02631579 -0.02631579 -0.02631579  1.000000000
## 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
## Minutes120        -0.202048311 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## 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
## Minutes136         0.144787531 -0.03771571 -0.03771571 -0.03771571 -0.03771571
## 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
## Minutes149         0.238128367 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## 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
## Minutes164         0.216480333 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes181         0.238128367 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Minutes81         -0.259776400 -0.02631579 -0.02631579 -0.02631579 -0.02631579
## Budget100000000   -0.237865230  0.69774071 -0.03771571 -0.03771571 -0.03771571
## Budget130000000   0.062051799 -0.03771571 -0.03771571 -0.03771571 -0.03771571
## Budget140000000   0.005170983 -0.03771571 -0.03771571 -0.03771571 -0.03771571
```



## Budget149000000	0.036080056	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget150000000	0.020683933	-0.03771571	-0.03771571	0.69774071	-0.03771571
## Budget150000000.	-0.101024156	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget160000000	-0.010341967	-0.03771571	-0.03771571	-0.03771571	-0.03771571
## Budget162000000	-0.057728089	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget165000000	0.057728089	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget170000000	0.089886901	-0.04682929	0.56195149	-0.04682929	-0.04682929
## 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
## Budget200000000	-0.135340406	-0.05484085	-0.05484085	-0.05484085	0.47985743
## Budget200000000.	-0.028864044	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget220000000	0.180400278	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget225000000	-0.057728089	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget250000000	0.082708026	-0.05484085	-0.05484085	-0.05484085	-0.05484085
## Budget270000000	-0.223696344	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget300000000	-0.202048311	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget321000000.	0.238128367	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## 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
## X.Gross.Worldwide.	0.528908456	-0.25944753	-0.07206876	-0.21620627	-0.23062002
##	Minutes115	Minutes117	Minutes118	Minutes120	Minutes121
## Rate	-0.03102590	0.00000000	-0.05772809	-0.20204831	0.18040028
## Minutes104	-0.03771571	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Minutes112	-0.03771571	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Minutes112.	-0.03771571	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Minutes114	-0.03771571	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## 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
## Minutes129	-0.03771571	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Minutes130	-0.05405405	-0.03771571	-0.03771571	-0.03771571	-0.03771571
## 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
## Minutes140	-0.03771571	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## 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
## Minutes151	-0.03771571	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## 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
## Budget100000000	-0.05405405	-0.03771571	-0.03771571	-0.03771571	-0.03771571
## Budget130000000	-0.05405405	0.69774071	-0.03771571	-0.03771571	-0.03771571
## 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
## Budget165000000	0.69774071	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget170000000	-0.06711561	-0.04682929	-0.04682929	-0.04682929	0.56195149
## Budget175000000	-0.03771571	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget175000000.	-0.05405405	-0.03771571	-0.03771571	-0.03771571	-0.03771571
## Budget180000000	-0.03771571	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget185000000	-0.03771571	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget200000000	-0.07859775	-0.05484085	-0.05484085	-0.05484085	-0.05484085
## Budget200000000.	-0.03771571	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget220000000	-0.03771571	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget225000000	-0.03771571	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget250000000	-0.07859775	-0.05484085	-0.05484085	-0.05484085	-0.05484085
## Budget270000000	-0.03771571	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## 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
## Budget47000000.	-0.03771571	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## 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
## Minutes114	-0.02631579	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## 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	1.00000000	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## Minutes123	-0.03771571	1.00000000	-0.03771571	-0.03771571	-0.03771571
## 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
## Minutes129	-0.02631579	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## 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
## 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
## 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
## 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
## Minutes162	-0.02631579	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## Minutes164	-0.02631579	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## Minutes181	-0.02631579	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## Minutes81	-0.02631579	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## Budget100000000	-0.03771571	-0.05405405	-0.03771571	-0.03771571	-0.03771571
## Budget130000000	-0.03771571	-0.05405405	-0.03771571	-0.03771571	-0.03771571
## Budget140000000	-0.03771571	-0.05405405	0.69774071	-0.03771571	0.69774071
## 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
## Budget160000000	-0.03771571	-0.05405405	-0.03771571	-0.03771571	-0.03771571
## Budget162000000	-0.02631579	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## Budget165000000	-0.02631579	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## Budget170000000	-0.04682929	-0.06711561	-0.04682929	-0.04682929	-0.04682929
## Budget175000000	-0.02631579	0.69774071	-0.02631579	-0.02631579	-0.02631579
## Budget175000000.	-0.03771571	0.47297297	-0.03771571	-0.03771571	-0.03771571
## Budget180000000	-0.02631579	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## Budget185000000	-0.02631579	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## Budget200000000	-0.05484085	-0.07859775	-0.05484085	0.47985743	-0.05484085
## 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
## Budget300000000	-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
## Budget55000000.	1.00000000	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## X.Gross.Worldwide.	0.11531001	0.10328874	-0.18737877	-0.08648251	-0.11531001
##	Minutes129	Minutes130	Minutes132	Minutes133	Minutes134
## Rate	0.08659213	0.08790672	-0.05772809	0.03608006	0.00000000
## 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
## Minutes114	-0.02631579	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## 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
## Minutes126	-0.02631579	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## Minutes129	1.00000000	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## Minutes130	-0.03771571	1.00000000	-0.03771571	-0.03771571	-0.03771571
## Minutes132	-0.02631579	-0.03771571	1.00000000	-0.02631579	-0.02631579

## 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
## 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
## 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
## Minutes162	-0.02631579	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## Minutes164	-0.02631579	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## Minutes181	-0.02631579	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## Minutes81	-0.02631579	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## 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
## Budget160000000	0.69774071	-0.05405405	-0.03771571	-0.03771571	-0.03771571
## Budget162000000	-0.02631579	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## Budget165000000	-0.02631579	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## Budget170000000	-0.04682929	-0.06711561	-0.04682929	-0.04682929	-0.04682929
## Budget175000000	-0.02631579	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## Budget175000000.	-0.03771571	-0.05405405	-0.03771571	0.69774071	-0.03771571
## Budget180000000	-0.02631579	0.69774071	-0.02631579	-0.02631579	-0.02631579
## Budget185000000	-0.02631579	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## Budget200000000	-0.05484085	-0.07859775	-0.05484085	-0.05484085	0.47985743
## Budget200000000.	-0.02631579	0.69774071	-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
## Budget300000000	-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
## Budget55000000.	-0.02631579	-0.03771571	-0.02631579	-0.02631579	-0.02631579
## X.Gross.Worldwide.	0.15855127	0.17559085	-0.20179252	0.08648251	0.21620627
##	Minutes136	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
## Minutes112.	-0.03771571	-0.02631579	-0.03771571	-0.04682929	-0.02631579
## 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
## Minutes120	-0.03771571	-0.02631579	-0.03771571	-0.04682929	-0.02631579
## 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
## Minutes126	-0.03771571	-0.02631579	-0.03771571	-0.04682929	-0.02631579
## Minutes129	-0.03771571	-0.02631579	-0.03771571	-0.04682929	-0.02631579
## Minutes130	-0.05405405	-0.03771571	-0.05405405	-0.06711561	-0.03771571
## Minutes132	-0.03771571	-0.02631579	-0.03771571	-0.04682929	-0.02631579
## 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
## Minutes143	-0.06711561	-0.04682929	-0.06711561	1.00000000	-0.04682929
## Minutes147	-0.03771571	-0.02631579	-0.03771571	-0.04682929	1.00000000
## Minutes149	-0.03771571	-0.02631579	-0.03771571	-0.04682929	-0.02631579
## Minutes151	-0.03771571	-0.02631579	-0.03771571	-0.04682929	-0.02631579
## Minutes152	-0.03771571	-0.02631579	-0.03771571	-0.04682929	-0.02631579
## Minutes154	-0.03771571	-0.02631579	-0.03771571	-0.04682929	-0.02631579
## Minutes162	-0.03771571	-0.02631579	-0.03771571	-0.04682929	-0.02631579
## Minutes164	-0.03771571	-0.02631579	-0.03771571	-0.04682929	-0.02631579
## Minutes181	-0.03771571	-0.02631579	-0.03771571	-0.04682929	-0.02631579
## Minutes81	-0.03771571	-0.02631579	-0.03771571	-0.04682929	-0.02631579
## Budget100000000	-0.05405405	-0.03771571	-0.05405405	-0.06711561	-0.03771571
## Budget130000000	-0.05405405	-0.03771571	-0.05405405	-0.06711561	-0.03771571
## Budget140000000	-0.05405405	-0.03771571	-0.05405405	-0.06711561	-0.03771571
## 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
## Budget170000000	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
## Budget180000000	-0.03771571	-0.02631579	-0.03771571	-0.04682929	-0.02631579
## Budget185000000	-0.03771571	-0.02631579	-0.03771571	-0.04682929	-0.02631579
## Budget200000000	0.30456628	-0.05484085	-0.07859775	-0.09759001	-0.05484085
## Budget200000000.	-0.03771571	-0.02631579	-0.03771571	-0.04682929	-0.02631579
## Budget220000000	-0.03771571	-0.02631579	-0.03771571	0.56195149	-0.02631579
## Budget225000000	-0.03771571	-0.02631579	-0.03771571	0.56195149	-0.02631579
## Budget250000000	-0.07859775	-0.05484085	0.30456628	-0.09759001	0.47985743
## Budget270000000	-0.03771571	-0.02631579	-0.03771571	-0.04682929	-0.02631579
## 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
## Budget47000000.	-0.03771571	-0.02631579	-0.03771571	-0.04682929	-0.02631579
## Budget55000000.	-0.03771571	-0.02631579	-0.03771571	-0.04682929	-0.02631579
## 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
## Minutes112	-0.02631579	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## 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
## Minutes120	-0.02631579	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## 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
## Minutes124	-0.02631579	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Minutes124.	-0.02631579	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Minutes126	-0.02631579	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Minutes129	-0.02631579	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Minutes130	-0.03771571	-0.03771571	-0.03771571	-0.03771571	-0.03771571
## Minutes132	-0.02631579	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## 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
## Minutes141	-0.03771571	-0.03771571	-0.03771571	-0.03771571	-0.03771571
## 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
## Minutes81	-0.02631579	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget100000000	-0.03771571	-0.03771571	-0.03771571	-0.03771571	-0.03771571
## Budget130000000	-0.03771571	-0.03771571	-0.03771571	-0.03771571	0.69774071
## Budget140000000	-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
## Budget160000000	-0.03771571	-0.03771571	-0.03771571	-0.03771571	-0.03771571
## Budget162000000	-0.02631579	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget165000000	-0.02631579	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget170000000	-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
## Budget180000000	-0.02631579	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget185000000	-0.02631579	-0.02631579	1.00000000	-0.02631579	-0.02631579
## 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	-0.05484085	0.47985743	-0.05484085	-0.05484085	-0.05484085
## Budget270000000	-0.02631579	-0.02631579	-0.02631579	1.00000000	-0.02631579
## Budget300000000	-0.02631579	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget321000000.	1.00000000	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget356000000	-0.02631579	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget47000000.	-0.02631579	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## Budget55000000.	-0.02631579	-0.02631579	-0.02631579	-0.02631579	-0.02631579
## X.Gross.Worldwide.	0.25944753	0.07206876	0.10089626	-0.15855127	-0.24503378
##	Minutes164	Minutes181	Minutes81	Budget100000000	

## Rate	0.21648033	0.23812837	-0.25977640	-0.23786523
## Minutes104	-0.02631579	-0.02631579	-0.02631579	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
## Budget100000000	-0.03771571	-0.03771571	-0.03771571	1.00000000
## 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
## Budget150000000	-0.03771571	-0.03771571	-0.03771571	-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
## Budget175000000	-0.02631579	-0.02631579	-0.02631579	-0.03771571
## Budget175000000.	-0.03771571	-0.03771571	-0.03771571	-0.05405405
## Budget180000000	-0.02631579	-0.02631579	-0.02631579	-0.03771571
## Budget185000000	-0.02631579	-0.02631579	-0.02631579	-0.03771571
## 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
## Budget270000000	-0.02631579	-0.02631579	-0.02631579	-0.03771571
## Budget300000000	-0.02631579	-0.02631579	-0.02631579	-0.03771571

## Budget321000000.	-0.02631579	-0.02631579	-0.02631579	-0.03771571
## Budget356000000	-0.02631579	1.00000000	-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.	0.12972376	0.27386128	-0.27386128	-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	
## Minutes117	0.69774071	-0.037715714	-0.02631579	
## Minutes118	-0.03771571	-0.037715714	-0.02631579	
## Minutes120	-0.03771571	-0.037715714	-0.02631579	
## Minutes121	-0.03771571	-0.037715714	-0.02631579	
## Minutes122	-0.03771571	-0.037715714	-0.02631579	
## Minutes123	-0.05405405	-0.054054054	-0.03771571	
## Minutes124	-0.03771571	0.697740715	-0.02631579	
## Minutes124.	-0.03771571	-0.037715714	-0.02631579	
## Minutes126	-0.03771571	0.697740715	-0.02631579	
## Minutes129	-0.03771571	-0.037715714	-0.02631579	
## Minutes130	-0.05405405	-0.054054054	-0.03771571	
## Minutes132	-0.03771571	-0.037715714	-0.02631579	
## Minutes133	-0.03771571	-0.037715714	-0.02631579	
## Minutes134	-0.03771571	-0.037715714	-0.02631579	
## Minutes136	-0.05405405	-0.054054054	-0.03771571	
## Minutes140	-0.03771571	-0.037715714	-0.02631579	
## Minutes141	-0.05405405	-0.054054054	0.69774071	
## Minutes143	-0.06711561	-0.067115606	-0.04682929	
## Minutes147	-0.03771571	-0.037715714	-0.02631579	
## Minutes149	-0.03771571	-0.037715714	-0.02631579	
## Minutes151	-0.03771571	-0.037715714	-0.02631579	
## Minutes152	-0.03771571	-0.037715714	-0.02631579	
## Minutes154	-0.03771571	-0.037715714	-0.02631579	
## Minutes162	0.69774071	-0.037715714	-0.02631579	
## Minutes164	-0.03771571	-0.037715714	-0.02631579	
## Minutes181	-0.03771571	-0.037715714	-0.02631579	
## Minutes81	-0.03771571	-0.037715714	-0.02631579	
## Budget100000000	-0.05405405	-0.054054054	-0.03771571	
## Budget130000000	1.00000000	-0.054054054	-0.03771571	
## Budget140000000	-0.05405405	1.000000000	-0.03771571	
## Budget149000000	-0.03771571	-0.037715714	1.00000000	
## Budget150000000	-0.05405405	-0.054054054	-0.03771571	
## Budget150000000.	-0.03771571	-0.037715714	-0.02631579	
## Budget160000000	-0.05405405	-0.054054054	-0.03771571	
## Budget162000000	-0.03771571	-0.037715714	-0.02631579	
## Budget165000000	-0.03771571	-0.037715714	-0.02631579	
## Budget170000000	-0.06711561	-0.067115606	-0.04682929	
## Budget175000000	-0.03771571	-0.037715714	-0.02631579	
## Budget175000000.	-0.05405405	-0.054054054	-0.03771571	
## Budget180000000	-0.03771571	-0.037715714	-0.02631579	
## Budget185000000	-0.03771571	-0.037715714	-0.02631579	
## Budget200000000	-0.07859775	-0.078597749	-0.05484085	



## Budget200000000.	-0.03771571	-0.037715714	-0.02631579
## Budget220000000	-0.03771571	-0.037715714	-0.02631579
## Budget225000000	-0.03771571	-0.037715714	-0.02631579
## Budget250000000	-0.07859775	-0.078597749	-0.05484085
## Budget270000000	-0.03771571	-0.037715714	-0.02631579
## Budget300000000	-0.03771571	-0.037715714	-0.02631579
## Budget321000000.	-0.03771571	-0.037715714	-0.02631579
## Budget356000000	-0.03771571	-0.037715714	-0.02631579
## Budget47000000.	-0.03771571	-0.037715714	-0.02631579
## Budget55000000.	-0.03771571	-0.037715714	-0.02631579
## X.Gross.Worldwide.	-0.26855072	-0.216906349	0.02882750
##	Budget150000000	Budget150000000.	Budget160000000
## Rate	0.02068393	-0.10102416	-0.01034197
## Minutes104	-0.03771571	-0.02631579	-0.03771571
## Minutes112	-0.03771571	-0.02631579	-0.03771571
## Minutes112.	0.69774071	-0.02631579	-0.03771571
## Minutes114	-0.03771571	-0.02631579	-0.03771571
## Minutes115	-0.05405405	0.69774071	-0.05405405
## Minutes117	-0.03771571	-0.02631579	-0.03771571
## Minutes118	-0.03771571	-0.02631579	-0.03771571
## Minutes120	-0.03771571	-0.02631579	-0.03771571
## Minutes121	-0.03771571	-0.02631579	-0.03771571
## Minutes122	-0.03771571	-0.02631579	-0.03771571
## Minutes123	-0.05405405	-0.03771571	-0.05405405
## Minutes124	-0.03771571	-0.02631579	-0.03771571
## Minutes124.	-0.03771571	-0.02631579	-0.03771571
## Minutes126	-0.03771571	-0.02631579	-0.03771571
## Minutes129	-0.03771571	-0.02631579	0.69774071
## Minutes130	-0.05405405	-0.03771571	-0.05405405
## Minutes132	-0.03771571	-0.02631579	-0.03771571
## Minutes133	-0.03771571	-0.02631579	-0.03771571
## Minutes134	-0.03771571	-0.02631579	-0.03771571
## Minutes136	-0.05405405	-0.03771571	-0.05405405
## Minutes140	0.69774071	-0.02631579	-0.03771571
## Minutes141	-0.05405405	-0.03771571	-0.05405405
## Minutes143	-0.06711561	-0.04682929	0.36913583
## Minutes147	-0.03771571	-0.02631579	-0.03771571
## Minutes149	-0.03771571	-0.02631579	-0.03771571
## Minutes151	-0.03771571	-0.02631579	-0.03771571
## Minutes152	-0.03771571	-0.02631579	-0.03771571
## Minutes154	-0.03771571	-0.02631579	-0.03771571
## Minutes162	-0.03771571	-0.02631579	-0.03771571
## Minutes164	-0.03771571	-0.02631579	-0.03771571
## Minutes181	-0.03771571	-0.02631579	-0.03771571
## Minutes81	-0.03771571	-0.02631579	-0.03771571
## Budget100000000	-0.05405405	-0.03771571	-0.05405405
## Budget130000000	-0.05405405	-0.03771571	-0.05405405
## Budget140000000	-0.05405405	-0.03771571	-0.05405405
## Budget149000000	-0.03771571	-0.02631579	-0.03771571
## Budget150000000	1.00000000	-0.03771571	-0.05405405
## Budget150000000.	-0.03771571	1.00000000	-0.03771571
## Budget160000000	-0.05405405	-0.03771571	1.00000000
## Budget162000000	-0.03771571	-0.02631579	-0.03771571
## Budget165000000	-0.03771571	-0.02631579	-0.03771571

## Budget170000000	-0.06711561	-0.04682929	-0.06711561
## Budget175000000	-0.03771571	-0.02631579	-0.03771571
## Budget175000000.	-0.05405405	-0.03771571	-0.05405405
## Budget180000000	-0.03771571	-0.02631579	-0.03771571
## Budget185000000	-0.03771571	-0.02631579	-0.03771571
## Budget200000000	-0.07859775	-0.05484085	-0.07859775
## Budget200000000.	-0.03771571	-0.02631579	-0.03771571
## Budget220000000	-0.03771571	-0.02631579	-0.03771571
## Budget225000000	-0.03771571	-0.02631579	-0.03771571
## Budget250000000	-0.07859775	-0.05484085	-0.07859775
## Budget270000000	-0.03771571	-0.02631579	-0.03771571
## Budget300000000	-0.03771571	-0.02631579	-0.03771571
## Budget321000000.	-0.03771571	-0.02631579	-0.03771571
## Budget356000000	-0.03771571	-0.02631579	-0.03771571
## Budget47000000.	-0.03771571	-0.02631579	-0.03771571
## Budget55000000.	-0.03771571	-0.02631579	-0.03771571
## X.Gross.Worldwide.	-0.27887959	-0.14413752	0.23756410
##	Budget162000000	Budget165000000	Budget170000000
## Rate	-0.05772809	0.05772809	0.08988690
## Minutes104	-0.02631579	-0.02631579	-0.04682929
## Minutes112	-0.02631579	-0.02631579	0.56195149
## Minutes112.	-0.02631579	-0.02631579	-0.04682929
## Minutes114	-0.02631579	-0.02631579	-0.04682929
## Minutes115	-0.03771571	0.69774071	-0.06711561
## Minutes117	-0.02631579	-0.02631579	-0.04682929
## Minutes118	1.00000000	-0.02631579	-0.04682929
## Minutes120	-0.02631579	-0.02631579	-0.04682929
## Minutes121	-0.02631579	-0.02631579	0.56195149
## Minutes122	-0.02631579	-0.02631579	-0.04682929
## Minutes123	-0.03771571	-0.03771571	-0.06711561
## Minutes124	-0.02631579	-0.02631579	-0.04682929
## Minutes124.	-0.02631579	-0.02631579	-0.04682929
## Minutes126	-0.02631579	-0.02631579	-0.04682929
## Minutes129	-0.02631579	-0.02631579	-0.04682929
## Minutes130	-0.03771571	-0.03771571	-0.06711561
## Minutes132	-0.02631579	-0.02631579	-0.04682929
## Minutes133	-0.02631579	-0.02631579	-0.04682929
## Minutes134	-0.02631579	-0.02631579	-0.04682929
## Minutes136	-0.03771571	-0.03771571	0.36913583
## Minutes140	-0.02631579	-0.02631579	-0.04682929
## Minutes141	-0.03771571	-0.03771571	-0.06711561
## Minutes143	-0.04682929	-0.04682929	-0.08333333
## Minutes147	-0.02631579	-0.02631579	-0.04682929
## Minutes149	-0.02631579	-0.02631579	-0.04682929
## Minutes151	-0.02631579	-0.02631579	-0.04682929
## Minutes152	-0.02631579	-0.02631579	-0.04682929
## Minutes154	-0.02631579	-0.02631579	-0.04682929
## Minutes162	-0.02631579	-0.02631579	-0.04682929
## Minutes164	-0.02631579	-0.02631579	-0.04682929
## Minutes181	-0.02631579	-0.02631579	-0.04682929
## Minutes81	-0.02631579	-0.02631579	-0.04682929
## Budget100000000	-0.03771571	-0.03771571	-0.06711561
## Budget130000000	-0.03771571	-0.03771571	-0.06711561
## Budget140000000	-0.03771571	-0.03771571	-0.06711561

## Budget149000000	-0.02631579	-0.02631579	-0.04682929
## Budget150000000	-0.03771571	-0.03771571	-0.06711561
## Budget150000000.	-0.02631579	-0.02631579	-0.04682929
## Budget160000000	-0.03771571	-0.03771571	-0.06711561
## Budget162000000	1.00000000	-0.02631579	-0.04682929
## Budget165000000	-0.02631579	1.00000000	-0.04682929
## Budget170000000	-0.04682929	-0.04682929	1.00000000
## Budget175000000	-0.02631579	-0.02631579	-0.04682929
## Budget175000000.	-0.03771571	-0.03771571	-0.06711561
## Budget180000000	-0.02631579	-0.02631579	-0.04682929
## Budget185000000	-0.02631579	-0.02631579	-0.04682929
## Budget200000000	-0.05484085	-0.05484085	-0.09759001
## Budget200000000.	-0.02631579	-0.02631579	-0.04682929
## Budget220000000	-0.02631579	-0.02631579	-0.04682929
## Budget225000000	-0.02631579	-0.02631579	-0.04682929
## Budget250000000	-0.05484085	-0.05484085	-0.09759001
## Budget270000000	-0.02631579	-0.02631579	-0.04682929
## Budget300000000	-0.02631579	-0.02631579	-0.04682929
## Budget321000000.	-0.02631579	-0.02631579	-0.04682929
## Budget356000000	-0.02631579	-0.02631579	-0.04682929
## Budget47000000.	-0.02631579	-0.02631579	-0.04682929
## Budget55000000.	-0.02631579	-0.02631579	-0.04682929
## X.Gross.Worldwide.	-0.10089626	-0.02882750	-0.04274910
##	Budget175000000	Budget175000000.	Budget180000000
## Rate	-0.22369634	-0.07756475	0.15153623
## Minutes104	-0.02631579	-0.03771571	-0.02631579
## Minutes112	-0.02631579	-0.03771571	-0.02631579
## Minutes112.	-0.02631579	-0.03771571	-0.02631579
## Minutes114	-0.02631579	-0.03771571	-0.02631579
## Minutes115	-0.03771571	-0.05405405	-0.03771571
## Minutes117	-0.02631579	-0.03771571	-0.02631579
## Minutes118	-0.02631579	-0.03771571	-0.02631579
## Minutes120	-0.02631579	-0.03771571	-0.02631579
## Minutes121	-0.02631579	-0.03771571	-0.02631579
## Minutes122	-0.02631579	-0.03771571	-0.02631579
## Minutes123	0.69774071	0.47297297	-0.03771571
## Minutes124	-0.02631579	-0.03771571	-0.02631579
## Minutes124.	-0.02631579	-0.03771571	-0.02631579
## Minutes126	-0.02631579	-0.03771571	-0.02631579
## Minutes129	-0.02631579	-0.03771571	-0.02631579
## Minutes130	-0.03771571	-0.05405405	0.69774071
## Minutes132	-0.02631579	-0.03771571	-0.02631579
## Minutes133	-0.02631579	0.69774071	-0.02631579
## Minutes134	-0.02631579	-0.03771571	-0.02631579
## Minutes136	-0.03771571	-0.05405405	-0.03771571
## Minutes140	-0.02631579	-0.03771571	-0.02631579
## Minutes141	-0.03771571	-0.05405405	-0.03771571
## Minutes143	-0.04682929	-0.06711561	-0.04682929
## Minutes147	-0.02631579	-0.03771571	-0.02631579
## Minutes149	-0.02631579	-0.03771571	-0.02631579
## Minutes151	-0.02631579	-0.03771571	-0.02631579
## Minutes152	-0.02631579	-0.03771571	-0.02631579
## Minutes154	-0.02631579	-0.03771571	-0.02631579
## Minutes162	-0.02631579	-0.03771571	-0.02631579

## Minutes164	-0.02631579	-0.03771571	-0.02631579
## Minutes181	-0.02631579	-0.03771571	-0.02631579
## Minutes81	-0.02631579	-0.03771571	-0.02631579
## Budget100000000	-0.03771571	-0.05405405	-0.03771571
## Budget130000000	-0.03771571	-0.05405405	-0.03771571
## Budget140000000	-0.03771571	-0.05405405	-0.03771571
## Budget149000000	-0.02631579	-0.03771571	-0.02631579
## Budget150000000	-0.03771571	-0.05405405	-0.03771571
## Budget150000000.	-0.02631579	-0.03771571	-0.02631579
## Budget160000000	-0.03771571	-0.05405405	-0.03771571
## Budget162000000	-0.02631579	-0.03771571	-0.02631579
## Budget165000000	-0.02631579	-0.03771571	-0.02631579
## Budget170000000	-0.04682929	-0.06711561	-0.04682929
## Budget175000000	1.00000000	-0.03771571	-0.02631579
## Budget175000000.	-0.03771571	1.00000000	-0.03771571
## Budget180000000	-0.02631579	-0.03771571	1.00000000
## Budget185000000	-0.02631579	-0.03771571	-0.02631579
## Budget200000000	-0.05484085	-0.07859775	-0.05484085
## Budget200000000.	-0.02631579	-0.03771571	-0.02631579
## Budget220000000	-0.02631579	-0.03771571	-0.02631579
## Budget225000000	-0.02631579	-0.03771571	-0.02631579
## Budget250000000	-0.05484085	-0.07859775	-0.05484085
## Budget270000000	-0.02631579	-0.03771571	-0.02631579
## Budget300000000	-0.02631579	-0.03771571	-0.02631579
## Budget321000000.	-0.02631579	-0.03771571	-0.02631579
## Budget356000000	-0.02631579	-0.03771571	-0.02631579
## Budget47000000.	-0.02631579	-0.03771571	-0.02631579
## Budget55000000.	-0.02631579	-0.03771571	-0.02631579
## X.Gross.Worldwide.	0.00000000	0.16526198	0.04324125
##	Budget185000000	Budget200000000	Budget200000000.
## Rate	0.27420842	-0.13534041	-0.02886404
## Minutes104	-0.02631579	-0.05484085	-0.02631579
## Minutes112	-0.02631579	-0.05484085	-0.02631579
## Minutes112.	-0.02631579	-0.05484085	-0.02631579
## Minutes114	-0.02631579	0.47985743	-0.02631579
## Minutes115	-0.03771571	-0.07859775	-0.03771571
## Minutes117	-0.02631579	-0.05484085	-0.02631579
## Minutes118	-0.02631579	-0.05484085	-0.02631579
## Minutes120	-0.02631579	-0.05484085	-0.02631579
## Minutes121	-0.02631579	-0.05484085	-0.02631579
## Minutes122	-0.02631579	-0.05484085	-0.02631579
## Minutes123	-0.03771571	-0.07859775	-0.03771571
## Minutes124	-0.02631579	-0.05484085	-0.02631579
## Minutes124.	-0.02631579	0.47985743	-0.02631579
## Minutes126	-0.02631579	-0.05484085	-0.02631579
## Minutes129	-0.02631579	-0.05484085	-0.02631579
## Minutes130	-0.03771571	-0.07859775	0.69774071
## Minutes132	-0.02631579	-0.05484085	-0.02631579
## Minutes133	-0.02631579	-0.05484085	-0.02631579
## Minutes134	-0.02631579	0.47985743	-0.02631579
## Minutes136	-0.03771571	0.30456628	-0.03771571
## Minutes140	-0.02631579	-0.05484085	-0.02631579
## Minutes141	-0.03771571	-0.07859775	-0.03771571
## Minutes143	-0.04682929	-0.09759001	-0.04682929

## Minutes147	-0.02631579	-0.05484085	-0.02631579
## Minutes149	-0.02631579	-0.05484085	-0.02631579
## Minutes151	-0.02631579	-0.05484085	-0.02631579
## Minutes152	1.00000000	-0.05484085	-0.02631579
## Minutes154	-0.02631579	-0.05484085	-0.02631579
## Minutes162	-0.02631579	-0.05484085	-0.02631579
## Minutes164	-0.02631579	-0.05484085	-0.02631579
## Minutes181	-0.02631579	-0.05484085	-0.02631579
## Minutes81	-0.02631579	-0.05484085	-0.02631579
## Budget100000000	-0.03771571	-0.07859775	-0.03771571
## Budget130000000	-0.03771571	-0.07859775	-0.03771571
## Budget140000000	-0.03771571	-0.07859775	-0.03771571
## Budget149000000	-0.02631579	-0.05484085	-0.02631579
## Budget150000000	-0.03771571	-0.07859775	-0.03771571
## Budget150000000.	-0.02631579	-0.05484085	-0.02631579
## Budget160000000	-0.03771571	-0.07859775	-0.03771571
## Budget162000000	-0.02631579	-0.05484085	-0.02631579
## Budget165000000	-0.02631579	-0.05484085	-0.02631579
## Budget170000000	-0.04682929	-0.09759001	-0.04682929
## Budget175000000	-0.02631579	-0.05484085	-0.02631579
## Budget175000000.	-0.03771571	-0.07859775	-0.03771571
## Budget180000000	-0.02631579	-0.05484085	-0.02631579
## Budget185000000	1.00000000	-0.05484085	-0.02631579
## Budget200000000	-0.05484085	1.00000000	-0.05484085
## Budget200000000.	-0.02631579	-0.05484085	1.00000000
## Budget220000000	-0.02631579	-0.05484085	-0.02631579
## Budget225000000	-0.02631579	-0.05484085	-0.02631579
## Budget250000000	-0.05484085	-0.11428571	-0.05484085
## Budget270000000	-0.02631579	-0.05484085	-0.02631579
## Budget300000000	-0.02631579	-0.05484085	-0.02631579
## Budget321000000.	-0.02631579	-0.05484085	-0.02631579
## Budget356000000	-0.02631579	-0.05484085	-0.02631579
## Budget47000000.	-0.02631579	-0.05484085	-0.02631579
## Budget55000000.	-0.02631579	-0.05484085	-0.02631579
## X.Gross.Worldwide.	0.10089626	-0.02252818	0.20179252
##	Budget220000000	Budget225000000	Budget250000000
## Rate	0.18040028	-0.05772809	0.08270803
## Minutes104	-0.02631579	-0.02631579	-0.05484085
## Minutes112	-0.02631579	-0.02631579	-0.05484085
## Minutes112.	-0.02631579	-0.02631579	-0.05484085
## Minutes114	-0.02631579	-0.02631579	-0.05484085
## Minutes115	-0.03771571	-0.03771571	-0.07859775
## Minutes117	-0.02631579	-0.02631579	-0.05484085
## Minutes118	-0.02631579	-0.02631579	-0.05484085
## Minutes120	-0.02631579	-0.02631579	-0.05484085
## Minutes121	-0.02631579	-0.02631579	-0.05484085
## Minutes122	-0.02631579	-0.02631579	-0.05484085
## Minutes123	-0.03771571	-0.03771571	-0.07859775
## Minutes124	-0.02631579	-0.02631579	-0.05484085
## Minutes124.	-0.02631579	-0.02631579	-0.05484085
## Minutes126	-0.02631579	-0.02631579	-0.05484085
## Minutes129	-0.02631579	-0.02631579	-0.05484085
## Minutes130	-0.03771571	-0.03771571	-0.07859775
## Minutes132	-0.02631579	-0.02631579	-0.05484085

## Minutes133	-0.02631579	-0.02631579	-0.05484085
## Minutes134	-0.02631579	-0.02631579	-0.05484085
## Minutes136	-0.03771571	-0.03771571	-0.07859775
## Minutes140	-0.02631579	-0.02631579	-0.05484085
## Minutes141	-0.03771571	-0.03771571	0.30456628
## Minutes143	0.56195149	0.56195149	-0.09759001
## Minutes147	-0.02631579	-0.02631579	0.47985743
## Minutes149	-0.02631579	-0.02631579	-0.05484085
## Minutes151	-0.02631579	-0.02631579	0.47985743
## Minutes152	-0.02631579	-0.02631579	-0.05484085
## Minutes154	-0.02631579	-0.02631579	-0.05484085
## Minutes162	-0.02631579	-0.02631579	-0.05484085
## Minutes164	-0.02631579	-0.02631579	0.47985743
## Minutes181	-0.02631579	-0.02631579	-0.05484085
## Minutes81	-0.02631579	-0.02631579	-0.05484085
## Budget100000000	-0.03771571	-0.03771571	-0.07859775
## Budget130000000	-0.03771571	-0.03771571	-0.07859775
## Budget140000000	-0.03771571	-0.03771571	-0.07859775
## Budget149000000	-0.02631579	-0.02631579	-0.05484085
## Budget150000000	-0.03771571	-0.03771571	-0.07859775
## Budget150000000.	-0.02631579	-0.02631579	-0.05484085
## Budget160000000	-0.03771571	-0.03771571	-0.07859775
## Budget162000000	-0.02631579	-0.02631579	-0.05484085
## Budget165000000	-0.02631579	-0.02631579	-0.05484085
## Budget170000000	-0.04682929	-0.04682929	-0.09759001
## Budget175000000	-0.02631579	-0.02631579	-0.05484085
## Budget175000000.	-0.03771571	-0.03771571	-0.07859775
## Budget180000000	-0.02631579	-0.02631579	-0.05484085
## Budget185000000	-0.02631579	-0.02631579	-0.05484085
## Budget200000000	-0.05484085	-0.05484085	-0.11428571
## Budget200000000.	-0.02631579	-0.02631579	-0.05484085
## Budget220000000	1.00000000	-0.02631579	-0.05484085
## Budget225000000	-0.02631579	1.00000000	-0.05484085
## Budget250000000	-0.05484085	-0.05484085	1.00000000
## Budget270000000	-0.02631579	-0.02631579	-0.05484085
## Budget300000000	-0.02631579	-0.02631579	-0.05484085
## Budget321000000.	-0.02631579	-0.02631579	-0.05484085
## Budget356000000	-0.02631579	-0.02631579	-0.05484085
## Budget47000000.	-0.02631579	-0.02631579	-0.05484085
## Budget55000000.	-0.02631579	-0.02631579	-0.05484085
## X.Gross.Worldwide.	0.24503378	-0.04324125	0.32290388
##	Budget270000000	Budget300000000	Budget321000000.
## Rate	-0.22369634	-0.20204831	0.23812837
## Minutes104	-0.02631579	-0.02631579	-0.02631579
## Minutes112	-0.02631579	-0.02631579	-0.02631579
## Minutes112.	-0.02631579	-0.02631579	-0.02631579
## Minutes114	-0.02631579	-0.02631579	-0.02631579
## Minutes115	-0.03771571	-0.03771571	-0.03771571
## Minutes117	-0.02631579	-0.02631579	-0.02631579
## Minutes118	-0.02631579	-0.02631579	-0.02631579
## Minutes120	-0.02631579	1.00000000	-0.02631579
## Minutes121	-0.02631579	-0.02631579	-0.02631579
## Minutes122	-0.02631579	-0.02631579	-0.02631579
## Minutes123	-0.03771571	-0.03771571	-0.03771571

## Minutes124	-0.02631579	-0.02631579	-0.02631579
## Minutes124.	-0.02631579	-0.02631579	-0.02631579
## Minutes126	-0.02631579	-0.02631579	-0.02631579
## Minutes129	-0.02631579	-0.02631579	-0.02631579
## Minutes130	-0.03771571	-0.03771571	-0.03771571
## Minutes132	-0.02631579	-0.02631579	-0.02631579
## Minutes133	-0.02631579	-0.02631579	-0.02631579
## Minutes134	-0.02631579	-0.02631579	-0.02631579
## Minutes136	-0.03771571	-0.03771571	-0.03771571
## Minutes140	-0.02631579	-0.02631579	-0.02631579
## Minutes141	-0.03771571	-0.03771571	-0.03771571
## Minutes143	-0.04682929	-0.04682929	-0.04682929
## Minutes147	-0.02631579	-0.02631579	-0.02631579
## Minutes149	-0.02631579	-0.02631579	1.00000000
## Minutes151	-0.02631579	-0.02631579	-0.02631579
## Minutes152	-0.02631579	-0.02631579	-0.02631579
## Minutes154	1.00000000	-0.02631579	-0.02631579
## Minutes162	-0.02631579	-0.02631579	-0.02631579
## Minutes164	-0.02631579	-0.02631579	-0.02631579
## Minutes181	-0.02631579	-0.02631579	-0.02631579
## Minutes81	-0.02631579	-0.02631579	-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	1.00000000	-0.02631579	-0.02631579
## Budget300000000	-0.02631579	1.00000000	-0.02631579
## Budget321000000.	-0.02631579	-0.02631579	1.00000000
## Budget356000000	-0.02631579	-0.02631579	-0.02631579
## Budget47000000.	-0.02631579	-0.02631579	-0.02631579
## Budget55000000.	-0.02631579	-0.02631579	-0.02631579
## X.Gross.Worldwide.	-0.15855127	-0.05765501	0.25944753
##	Budget356000000	Budget47000000.	Budget55000000.
## Rate	0.23812837	-0.25977640	0.25977640
## Minutes104	-0.02631579	-0.02631579	-0.02631579
## Minutes112	-0.02631579	-0.02631579	-0.02631579
## Minutes112.	-0.02631579	-0.02631579	-0.02631579
## Minutes114	-0.02631579	-0.02631579	-0.02631579
## Minutes115	-0.03771571	-0.03771571	-0.03771571

## Minutes117	-0.02631579	-0.02631579	-0.02631579
## Minutes118	-0.02631579	-0.02631579	-0.02631579
## Minutes120	-0.02631579	-0.02631579	-0.02631579
## Minutes121	-0.02631579	-0.02631579	-0.02631579
## Minutes122	-0.02631579	-0.02631579	1.00000000
## Minutes123	-0.03771571	-0.03771571	-0.03771571
## Minutes124	-0.02631579	-0.02631579	-0.02631579
## Minutes124.	-0.02631579	-0.02631579	-0.02631579
## Minutes126	-0.02631579	-0.02631579	-0.02631579
## Minutes129	-0.02631579	-0.02631579	-0.02631579
## Minutes130	-0.03771571	-0.03771571	-0.03771571
## Minutes132	-0.02631579	-0.02631579	-0.02631579
## Minutes133	-0.02631579	-0.02631579	-0.02631579
## Minutes134	-0.02631579	-0.02631579	-0.02631579
## Minutes136	-0.03771571	-0.03771571	-0.03771571
## Minutes140	-0.02631579	-0.02631579	-0.02631579
## Minutes141	-0.03771571	-0.03771571	-0.03771571
## Minutes143	-0.04682929	-0.04682929	-0.04682929
## Minutes147	-0.02631579	-0.02631579	-0.02631579
## Minutes149	-0.02631579	-0.02631579	-0.02631579
## Minutes151	-0.02631579	-0.02631579	-0.02631579
## Minutes152	-0.02631579	-0.02631579	-0.02631579
## Minutes154	-0.02631579	-0.02631579	-0.02631579
## Minutes162	-0.02631579	-0.02631579	-0.02631579
## Minutes164	-0.02631579	-0.02631579	-0.02631579
## Minutes181	1.00000000	-0.02631579	-0.02631579
## Minutes81	-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
## X.Gross.Worldwide.	0.27386128	-0.27386128	0.11531001
##	X.Gross.Worldwide.		



## 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	0.07206876
## Minutes152	0.10089626
## Minutes154	-0.15855127
## Minutes162	-0.24503378
## Minutes164	0.12972376
## Minutes181	0.27386128
## Minutes81	-0.27386128
## Budget100000000	-0.33052396
## Budget130000000	-0.26855072
## Budget140000000	-0.21690635
## Budget149000000	0.02882750
## Budget150000000	-0.27887959
## Budget150000000.	-0.14413752
## Budget160000000	0.23756410
## Budget162000000	-0.10089626
## Budget165000000	-0.02882750
## Budget170000000	-0.04274910
## Budget175000000	0.00000000
## Budget175000000.	0.16526198
## Budget180000000	0.04324125
## Budget185000000	0.10089626
## Budget200000000	-0.02252818
## Budget200000000.	0.20179252
## Budget220000000	0.24503378
## Budget225000000	-0.04324125
## Budget250000000	0.32290388
## Budget270000000	-0.15855127
## Budget300000000	-0.05765501

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

Rate	0000000	-	-	0.0000000	0.18249764	0.16163092	0.0060000	0.0070000	0.0080000	0.0090000	0.0100000	0.0110000	0.0120000	0.0130000	0.0140000	0.0150000	0.0160000	0.0170000	0.0180000	0.0190000	0.0200000	0.0210000	0.0220000	0.0230000	0.0240000	0.0250000	0.0260000	0.0270000	0.0280000	0.0290000	0.0300000	0.0310000	0.0320000	0.0330000	0.0340000	0.0350000	0.0360000	0.0370000	0.0380000	0.0390000	0.0400000	0.0410000	0.0420000	0.0430000	0.0440000	0.0450000	0.0460000	0.0470000	0.0480000	0.0490000	0.0500000	0.0510000	0.0520000	0.0530000	0.0540000	0.0550000	0.0560000	0.0570000	0.0580000	0.0590000	0.0600000	0.0610000	0.0620000	0.0630000	0.0640000	0.0650000	0.0660000	0.0670000	0.0680000	0.0690000	0.0700000	0.0710000	0.0720000	0.0730000	0.0740000	0.0750000	0.0760000	0.0770000	0.0780000	0.0790000	0.0800000	0.0810000	0.0820000	0.0830000	0.0840000	0.0850000	0.0860000	0.0870000	0.0880000	0.0890000	0.0900000	0.0910000	0.0920000	0.0930000	0.0940000	0.0950000	0.0960000	0.0970000	0.0980000	0.0990000	0.1000000	0.1010000	0.1020000	0.1030000	0.1040000	0.1050000	0.1060000	0.1070000	0.1080000	0.1090000	0.1100000	0.1110000	0.1120000	0.1130000	0.1140000	0.1150000	0.1160000	0.1170000	0.1180000	0.1190000	0.1200000	0.1210000	0.1220000	0.1230000	0.1240000	0.1250000	0.1260000	0.1270000	0.1280000	0.1290000	0.1300000	0.1310000	0.1320000	0.1330000	0.1340000	0.1350000	0.1360000	0.1370000	0.1380000	0.1390000	0.1400000	0.1410000	0.1420000	0.1430000	0.1440000	0.1450000	0.1460000	0.1470000	0.1480000	0.1490000	0.1500000	0.1510000	0.1520000	0.1530000	0.1540000	0.1550000	0.1560000	0.1570000	0.1580000	0.1590000	0.1600000	0.1610000	0.1620000	0.1630000	0.1640000	0.1650000	0.1660000	0.1670000	0.1680000	0.1690000	0.1700000	0.1710000	0.1720000	0.1730000	0.1740000	0.1750000	0.1760000	0.1770000	0.1780000	0.1790000	0.1800000	0.1810000	0.1820000	0.1830000	0.1840000	0.1850000	0.1860000	0.1870000	0.1880000	0.1890000	0.1900000	0.1910000	0.1920000	0.1930000	0.1940000	0.1950000	0.1960000	0.1970000	0.1980000	0.1990000	0.2000000	0.2010000	0.2020000	0.2030000	0.2040000	0.2050000	0.2060000	0.2070000	0.2080000	0.2090000	0.2100000	0.2110000	0.2120000	0.2130000	0.2140000	0.2150000	0.2160000	0.2170000	0.2180000	0.2190000	0.2200000	0.2210000	0.2220000	0.2230000	0.2240000	0.2250000	0.2260000	0.2270000	0.2280000	0.2290000	0.2300000	0.2310000	0.2320000	0.2330000	0.2340000	0.2350000	0.2360000	0.2370000	0.2380000	0.2390000	0.2400000	0.2410000	0.2420000	0.2430000	0.2440000	0.2450000	0.2460000	0.2470000	0.2480000	0.2490000	0.2500000	0.2510000	0.2520000	0.2530000	0.2540000	0.2550000	0.2560000	0.2570000	0.2580000	0.2590000	0.2600000	0.2610000	0.2620000	0.2630000	0.2640000	0.2650000	0.2660000	0.2670000	0.2680000	0.2690000	0.2700000	0.2710000	0.2720000	0.2730000	0.2740000	0.2750000	0.2760000	0.2770000	0.2780000	0.2790000	0.2800000	0.2810000	0.2820000	0.2830000	0.2840000	0.2850000	0.2860000	0.2870000	0.2880000	0.2890000	0.2900000	0.2910000	0.2920000	
------	---------	---	---	-----------	------------	------------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	--

27

[illegible]

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

## #Librerías 1.Abrir librería

```
library(readxl)
```

```
marvel_dc<-read_excel("marvel.xlsx")
```

## #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)
## $ 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" ...
## $ Release : num [1:39] 2008 2008 2010 2011 2011 ...
## $ Budget : chr [1:39] "140000000" "150000000" "200000000" "150000000 " ...
## $ 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)]
```

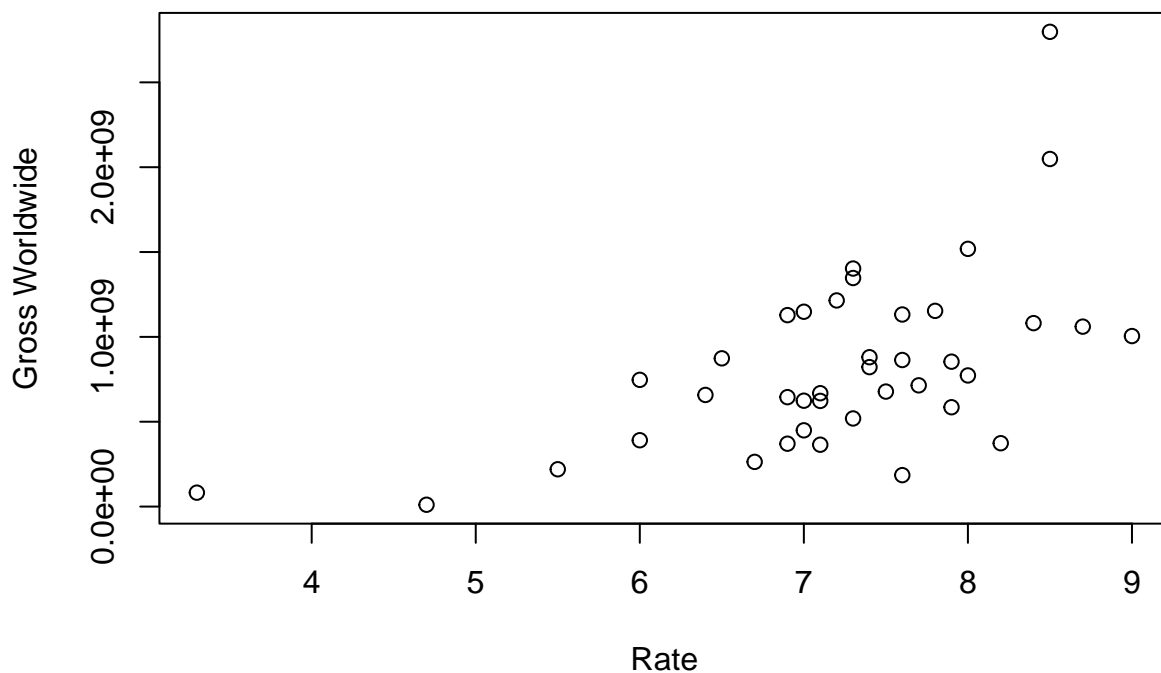
5.- Verificar que el nombre de las variables

```
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")
```

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