

# Tablr Vignette

This Tablr Vignette will introduce all function in the Tablr package.

## Required library:

1. devtools - for installing Tablr
2. survival - sample dataset mgus
3. dplyr - piping

## Optional library:

1. haven - read sav
2. data.table - fast read spss

Step 1 - install Tablr package :

```
install.packages("devtools")
install.packages("survival")
library(devtools)
library(survival)
library(dplyr)
install_github("huiwk/Tablr")
library(Tablr)
set.seed(63467)
```

Step 2 - Preparation :

```

#Modify dataset, create random missing entries
dat<-survival::mgus[,c("age","sex","alb","creat","hgb")]
N<-80
inds <- as.matrix(expand.grid(1:nrow(dat), 1:ncol(dat)))
inds <- matrix(inds[!is.na(dat[inds])], ncol=2)
selected <- inds[sample(nrow(inds), N), ]
dat[selected] <- NA

#Create Par dataset [Mean(Sd)   Median[IQR] Count(Pct)   Missing(Pct)   Order   Parameter.name
e.to.display   Parameters]
par<-data.frame(
  Mean.Sd.=c(1,0,1,1,1)%>%as.logical,
  Median.IQR.=c(1,0,1,1,1)%>%as.logical,
  Count.Pct.=c(0,1,0,0,0)%>%as.logical,
  Missing.Pct.=c(1,1,1,1,1)%>%as.logical,
  Order=c(4,2,3,1,5)%>%as.integer,
  Parameter.name.to.display=c("Age","Sex","Alb","Cr","Hgb"),
  Parameters=dat%>%names
)
All_group<-TRUE
By_group<-TRUE
dat<-data.frame(dat,Study_Design=sample(0:2,dim(dat)[1],replace=TRUE))%>%tibble #Create group
ing variable
group_var<- "Study_Design"

```

Step 2 - Function Test :

## 1. data.split.r

```

# data.split(dat,par,All_group,By_group,"Study_Design",TRUE)
data.split(dat,par$Parameters,All_group,By_group,group_var,TRUE)->d

```

## 2. get.stat.par.r

```

# data.split(dat,par,All_group,By_group,"Study_Design",TRUE)
get.stat.par(par,par$Parameters)->p

```

## 3. mean\_sd.r

```

# data.split(dat,par,All_group,By_group,"Study_Design",TRUE)
mean_sd(d,as.vector(p[["Mean.Sd."]]),2,"(",")")
mean_sd(d,as.vector(p[["Mean.Sd."]]),3,"±","")

```

## 4. median\_iqr.r

```

# data.split(dat,par,All_group,By_group,"Study_Design",TRUE)
median_iqr(d,as.vector(p[["Median.IQR."]]),2,"[",",","]")
median_iqr(d,as.vector(p[["Median.IQR."]]),3,"[",",",","]")

```

## 5. count\_pct.r

```
# data.split(dat,par,All_group,By_group,"Study_Design",TRUE)
count_pct(d,as.vector(p[["Count.Pct.]]),2,"(", "%")
```

## 6. missing\_pct.r

```
# data.split(dat,par,All_group,By_group,"Study_Design",TRUE)
missing_pct(d,as.vector(p[["Missing.Pct.]]),2,", "%")
```

## 7. Table1.r

```
# data.split(dat,par,All_group,By_group,"Study_Design",TRUE)
Table1(dat,par,All_group,By_group,group_var,
  par$Parameters,
  mean.sd.dp = 2, mean.sd.p1 = "±", mean.sd.p2 = "",
  median.iqr.dp = 2, median.iqr.p1 = "[", median.iqr.p2 = ",", median.iqr.p3 = "]",
  count.pct.dp = 2, count.pct.p1 = "(", count.pct.p2 = ")",
  missing.pct.dp = 2, missing.pct.p1 = ",", missing.pct.p2 = "%")
```