Reproducible Research with Table Data

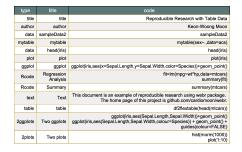
Keon-Woong Moon

2020-01-29 22:22:06

```
require(moonBook)
require(rrtable)
require(ggplot2)
```

sampleData2

```
df2flextable( sampleData2 ,vanilla= FALSE )
```



mytable

```
mytable2flextable( mytable(sex~.,data=acs) ,vanilla= FALSE )
```

	Female	Male			
sex	(N=287)	(N=570)	р		
age	68.7 ± 10.7	60.6 ± 11.2	< 0.001		
cardiogenicShock					
- No	275 (95.8%)	530 (93.0%)	0.136		
- Yes	12 (4.2%)	40 (7.0%)			
entry					
- Femoral	119 (41.5%)	193 (33.9%)	0.035		
- Radial	168 (58.5%)	377 (66.1%)			
Dx					
- NSTEMI	50 (17.4%)	103 (18.1%)			
- STEMI	84 (29.3%)	220 (38.6%)	0.012		
- Unstable Angina	153 (53.3%)	247 (43.3%)			
EF	56.3 ± 10.1	55.6 ± 9.4	0.387		
height	153.8 ± 6.2	167.9 ± 6.1	< 0.001		
weight	57.2 ± 9.3	68.7 ± 10.3	< 0.001		
ВМІ	24.2 ± 3.6	24.3 ± 3.2	0.611		
obesity					
- No	194 (67.6%)	373 (65.4%)	0.580		
- Yes	93 (32.4%)	197 (34.6%)			
TC	188.9 ± 51.1	183.3 ± 45.9	0.124		
LDLC	117.8 ± 41.2	116.0 ± 41.1	0.561		
HDLC	39.0 ± 11.5	37.8 ± 10.9	0.145		
TG	119.9 ± 76.2	127.9 ± 97.3	0.195		
DM					
- No	173 (60.3%)	380 (66.7%)	0.077		
- Yes	114 (39.7%)	190 (33.3%)			
HBP					
- No	83 (28.9%)	273 (47.9%)	< 0.001		
- Yes	204 (71.1%)	297 (52.1%)			
smoking					
- Ex-smoker	49 (17.1%)	155 (27.2%)	< 0.001		
- Never	209 (72.8%)	123 (21 ² .6%)	< 0.001		
- Smoker	29 (10.1%)	292 (51.2%)			

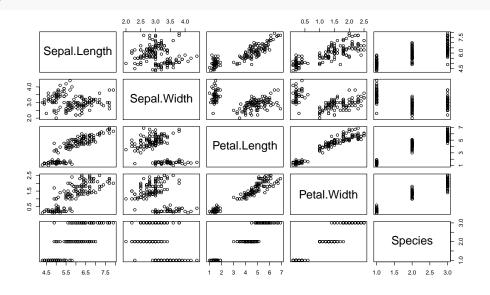
head(iris)

df2flextable(head(iris) ,vanilla= FALSE)

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
5.10	3.50	1.40	0.20	setosa
4.90	3.00	1.40	0.20	setosa
4.70	3.20	1.30	0.20	setosa
4.60	3.10	1.50	0.20	setosa
5.00	3.60	1.40	0.20	setosa
5.40	3.90	1.70	0.40	setosa

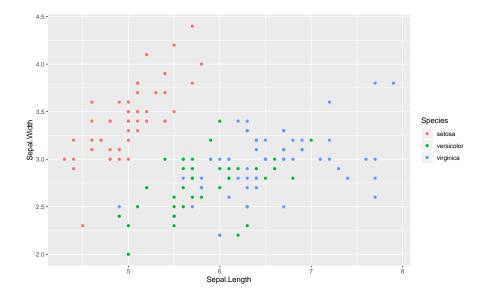
plot

plot(iris)



ggplot

ggplot(iris,aes(x=Sepal.Length,y=Sepal.Width,color=Species))+geom_point()



Regression Analysis

```
fit=lm(mpg~wt*hp,data=mtcars)
summary(fit)
```

```
Call:
```

lm(formula = mpg ~ wt * hp, data = mtcars)

Residuals:

Min 1Q Median 3Q Max -3.0632 -1.6491 -0.7362 1.4211 4.5513

Coefficients:

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 2.153 on 28 degrees of freedom Multiple R-squared: 0.8848, Adjusted R-squared: 0.8724 F-statistic: 71.66 on 3 and 28 DF, p-value: 2.981e-13

Summary

summary(mtcars)

mpg cyl		disp	hp	drat	
Min. :10.40	Min. :4.000	Min. : 71.1	Min. : 52.0	Min. :2.760	
1st Qu.:15.43	1st Qu.:4.000	1st Qu.:120.8	1st Qu.: 96.5	1st Qu.:3.080	
Median :19.20	Median:6.000	Median :196.3	Median :123.0	Median :3.695	

```
Mean
       :20.09
                Mean
                        :6.188
                                 Mean
                                        :230.7
                                                 Mean
                                                         :146.7
                                                                  Mean
                                                                         :3.597
3rd Qu.:22.80
                3rd Qu.:8.000
                                 3rd Qu.:326.0
                                                 3rd Qu.:180.0
                                                                  3rd Qu.:3.920
       :33.90
                        :8.000
{\tt Max.}
                Max.
                                 Max.
                                        :472.0
                                                 Max.
                                                         :335.0
                                                                  Max.
                                                                         :4.930
      wt
                     qsec
                                       ٧s
                                                                         gear
                                                         am
Min.
       :1.513
                Min.
                        :14.50
                                 Min.
                                        :0.0000
                                                  Min.
                                                          :0.0000
                                                                    Min.
                                                                           :3.000
1st Qu.:2.581
                1st Qu.:16.89
                                 1st Qu.:0.0000
                                                  1st Qu.:0.0000
                                                                    1st Qu.:3.000
Median :3.325
                Median :17.71
                                 Median :0.0000
                                                  Median :0.0000
                                                                    Median :4.000
Mean
       :3.217
                        :17.85
                                        :0.4375
                                                  Mean
                                                          :0.4062
                                                                           :3.688
                Mean
                                 Mean
                                                                    Mean
3rd Qu.:3.610
                3rd Qu.:18.90
                                 3rd Qu.:1.0000
                                                  3rd Qu.:1.0000
                                                                    3rd Qu.:4.000
Max.
       :5.424
                       :22.90
                                        :1.0000
                                                  Max. :1.0000
                                                                    Max.
                                                                           :5.000
                Max.
                                 Max.
     carb
Min.
       :1.000
1st Qu.:2.000
Median :2.000
Mean
      :2.812
3rd Qu.:4.000
Max.
       :8.000
```

Text

This document is an example of reproducible research using webr package. The home page of this project is github.com/cardiomoon/webr.

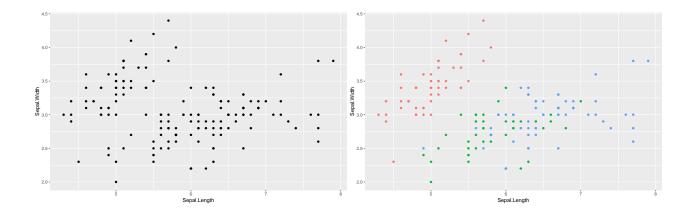
table

df2flextable(head(mtcars))

mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
21.00	6.00	160.00	110.00	3.90	2.62	16.46	0.00	1.00	4.00	4.00
21.00	6.00	160.00	110.00	3.90	2.88	17.02	0.00	1.00	4.00	4.00
22.80	4.00	108.00	93.00	3.85	2.32	18.61	1.00	1.00	4.00	1.00
21.40	6.00	258.00	110.00	3.08	3.21	19.44	1.00	0.00	3.00	1.00
18.70	8.00	360.00	175.00	3.15	3.44	17.02	0.00	0.00	3.00	2.00
18.10	6.00	225.00	105.00	2.76	3.46	20.22	1.00	0.00	3.00	1.00

Two ggplots

```
ggplot(iris,aes(Sepal.Length,Sepal.Width))+geom_point()
ggplot(iris,aes(Sepal.Length,Sepal.Width,colour=Species)) + geom_point() + guides(colour=FALSE)
```



Two plots

