

xtable

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事前準備

```
# パッケージの読み込み
library("xtable")

### データ例の作成 #####
n <- 100
TestData <- data.frame(Group = paste0("TEST", 1:n),
                        Data1 = sample(1:500, n, replace = TRUE),
                        Data2 = sample(200:300, n, replace = TRUE),
                        Data3 = sample(c("yes", "no"), n, replace = TRUE))
#####
```

データの始め部分をテーブルで表示

```
print(xtable(head(TestData)), comment = FALSE)
```

	Group	Data1	Data2	Data3
1	TEST1	241	236	no
2	TEST2	376	247	no
3	TEST3	277	240	no
4	TEST4	119	256	no
5	TEST5	489	287	yes
6	TEST6	405	237	yes

データを aov コマンドで処理した結果を表示

```
# 注意: 式は適当です
print(xtable(aov(Data1 ~ Data2 + Data3, TestData)), comment = FALSE)
```

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
Data2	1	111798.61	111798.61	6.36	0.0133
Data3	1	55.86	55.86	0.00	0.9551
Residuals	97	1703928.29	17566.27		

データを summary コマンドで処理した結果を表示

```
print(xtable(summary(TestData)), comment = FALSE)
```

	Group	Data1	Data2	Data3
1	TEST1 : 1	Min. : 3.0	Min. :200.0	no :65
2	TEST10 : 1	1st Qu.:138.0	1st Qu.:230.0	yes:35
3	TEST100: 1	Median :240.5	Median :253.0	
4	TEST11 : 1	Mean :247.8	Mean :252.3	
5	TEST12 : 1	3rd Qu.:350.5	3rd Qu.:279.0	
6	TEST13 : 1	Max. :498.0	Max. :300.0	
7	(Other):94			

縦方向に罫線を加える:align コマンド

```
TabeleData <- xtable(summary(TestData))  
align(TabeleData) <- "|r|l|l|l|r|"  
print(TabeleData, comment = FALSE)
```

	Group	Data1	Data2	Data3
1	TEST1 : 1	Min. : 3.0	Min. :200.0	no :65
2	TEST10 : 1	1st Qu.:138.0	1st Qu.:230.0	yes:35
3	TEST100: 1	Median :240.5	Median :253.0	
4	TEST11 : 1	Mean :247.8	Mean :252.3	
5	TEST12 : 1	3rd Qu.:350.5	3rd Qu.:279.0	
6	TEST13 : 1	Max. :498.0	Max. :300.0	
7	(Other):94			

横方向に罫線を加える:hline.after オプション

```
print(xtable(summary(TestData)), comment = FALSE,  
      hline.after = c(1, 2, 5))
```

	Group	Data1	Data2	Data3
1	TEST1 : 1	Min. : 3.0	Min. :200.0	no :65
2	TEST10 : 1	1st Qu.:138.0	1st Qu.:230.0	yes:35
3	TEST100: 1	Median :240.5	Median :253.0	
4	TEST11 : 1	Mean :247.8	Mean :252.3	
5	TEST12 : 1	3rd Qu.:350.5	3rd Qu.:279.0	
6	TEST13 : 1	Max. :498.0	Max. :300.0	
7	(Other):94			

列の幅も指定できます:align コマンド

```
TabeleData <- xtable(summary(TestData))
align(TabeleData) <- "|rp{5cm}|l|l|r|"
print(TabeleData, comment = FALSE)
```

	Group	Data1	Data2	Data3
1	TEST1 : 1	Min. : 3.0	Min. :200.0	no :65
2	TEST10 : 1	1st Qu.:138.0	1st Qu.:230.0	yes:35
3	TEST100: 1	Median :240.5	Median :253.0	
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6	TEST13 : 1	Max. :498.0	Max. :300.0	
7	(Other):94			

列行名の非表示:include.colnames, include.rownames オプション

```
print(xtable(summary(TestData)), comment = FALSE,
      include.colnames = FALSE, include.rownames = FALSE)
```

TEST1 : 1	Min. : 3.0	Min. :200.0	no :65
TEST10 : 1	1st Qu.:138.0	1st Qu.:230.0	yes:35
TEST100: 1	Median :240.5	Median :253.0	
TEST11 : 1	Mean :247.8	Mean :252.3	
TEST12 : 1	3rd Qu.:350.5	3rd Qu.:279.0	
TEST13 : 1	Max. :498.0	Max. :300.0	
(Other):94			

表示スケールを変更:scalebox オプション

```
print(xtable(summary(TestData)), comment = FALSE,
      scalebox = 1.7)
```

	Group	Data1	Data2	Data3
1	TEST1 : 1	Min. : 3.0	Min. :200.0	no :65
2	TEST10 : 1	1st Qu.:138.0	1st Qu.:230.0	yes:35
3	TEST100: 1	Median :240.5	Median :253.0	
4	TEST11 : 1	Mean :247.8	Mean :252.3	
5	TEST12 : 1	3rd Qu.:350.5	3rd Qu.:279.0	
6	TEST13 : 1	Max. :498.0	Max. :300.0	
7	(Other):94			