Regression tables

library(huxtable)

A short example illustrating the use of regresssion tables.

summary(mtcars)

## mpg cyl disp hp   
## Min. :10.40 Min. :4.000 Min. : 71.1 Min. : 52.0   
## 1st Qu.:15.43 1st Qu.:4.000 1st Qu.:120.8 1st Qu.: 96.5   
## Median :19.20 Median :6.000 Median :196.3 Median :123.0   
## Mean :20.09 Mean :6.188 Mean :230.7 Mean :146.7   
## 3rd Qu.:22.80 3rd Qu.:8.000 3rd Qu.:326.0 3rd Qu.:180.0   
## Max. :33.90 Max. :8.000 Max. :472.0 Max. :335.0   
## drat wt qsec vs   
## Min. :2.760 Min. :1.513 Min. :14.50 Min. :0.0000   
## 1st Qu.:3.080 1st Qu.:2.581 1st Qu.:16.89 1st Qu.:0.0000   
## Median :3.695 Median :3.325 Median :17.71 Median :0.0000   
## Mean :3.597 Mean :3.217 Mean :17.85 Mean :0.4375   
## 3rd Qu.:3.920 3rd Qu.:3.610 3rd Qu.:18.90 3rd Qu.:1.0000   
## Max. :4.930 Max. :5.424 Max. :22.90 Max. :1.0000   
## am gear carb   
## Min. :0.0000 Min. :3.000 Min. :1.000   
## 1st Qu.:0.0000 1st Qu.:3.000 1st Qu.:2.000   
## Median :0.0000 Median :4.000 Median :2.000   
## Mean :0.4062 Mean :3.688 Mean :2.812   
## 3rd Qu.:1.0000 3rd Qu.:4.000 3rd Qu.:4.000   
## Max. :1.0000 Max. :5.000 Max. :8.000

lm1 <- lm(mpg ~ cyl, data = mtcars)  
lm2 <- lm(mpg ~ cyl + disp + hp, data = mtcars)  
lm3 <- lm(mpg ~ disp + gear + carb + am, data = mtcars)

huxreg(lm1, lm2, lm3)

|  |  |  |  |
| --- | --- | --- | --- |
|  | (1) | (2) | (3) |
| (Intercept) | 37.885 \*\*\* | 34.185 \*\*\* | 23.319 \*\*\* |
|  | (2.074) | (2.591) | (4.626) |
| cyl | -2.876 \*\*\* | -1.227 |  |
|  | (0.322) | (0.797) |  |
| disp |  | -0.019 | -0.022 \*\* |
|  |  | (0.010) | (0.006) |
| hp |  | -0.015 |  |
|  |  | (0.015) |  |
| gear |  |  | 1.431 |
|  |  |  | (1.289) |
| carb |  |  | -1.622 \*\*\* |
|  |  |  | (0.417) |
| am |  |  | 2.669 |
|  |  |  | (1.631) |
| N | 32 | 32 | 32 |
| R2 | 0.726 | 0.768 | 0.836 |
| logLik | -81.653 | -79.009 | -73.473 |
| AIC | 169.306 | 168.018 | 158.946 |
| \*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05. | | | |

huxreg(  
 lm1, lm2, lm3,   
 error\_format = "[{statistic}]",   
 note = "{stars}. T statistics in brackets."  
 )

|  |  |  |  |
| --- | --- | --- | --- |
|  | (1) | (2) | (3) |
| (Intercept) | 37.885 \*\*\* | 34.185 \*\*\* | 23.319 \*\*\* |
|  | [18.268] | [13.195] | [5.041] |
| cyl | -2.876 \*\*\* | -1.227 |  |
|  | [-8.920] | [-1.540] |  |
| disp |  | -0.019 | -0.022 \*\* |
|  |  | [-1.811] | [-3.439] |
| hp |  | -0.015 |  |
|  |  | [-1.002] |  |
| gear |  |  | 1.431 |
|  |  |  | [1.109] |
| carb |  |  | -1.622 \*\*\* |
|  |  |  | [-3.888] |
| am |  |  | 2.669 |
|  |  |  | [1.636] |
| N | 32 | 32 | 32 |
| R2 | 0.726 | 0.768 | 0.836 |
| logLik | -81.653 | -79.009 | -73.473 |
| AIC | 169.306 | 168.018 | 158.946 |
| \*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05. T statistics in brackets. | | | |

Suppose that we discover that the observations number 4 to 6, 13 and 17 should not be included.

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