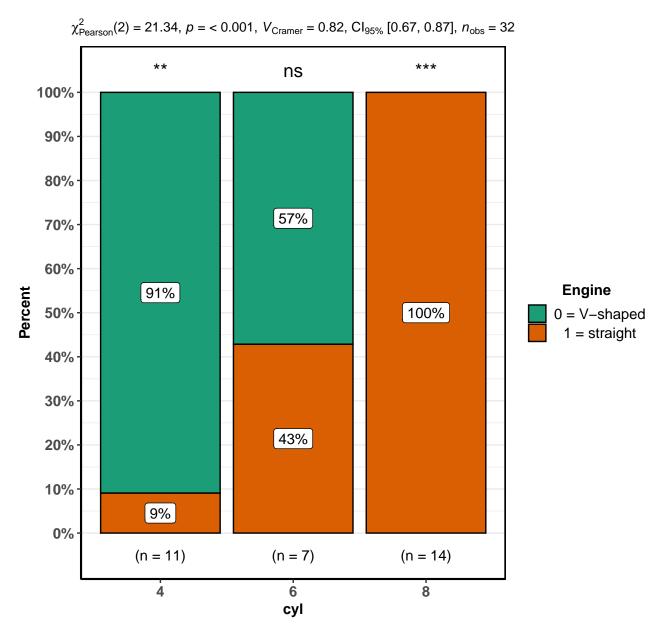
# **Dataset: Iris Flower dataset**

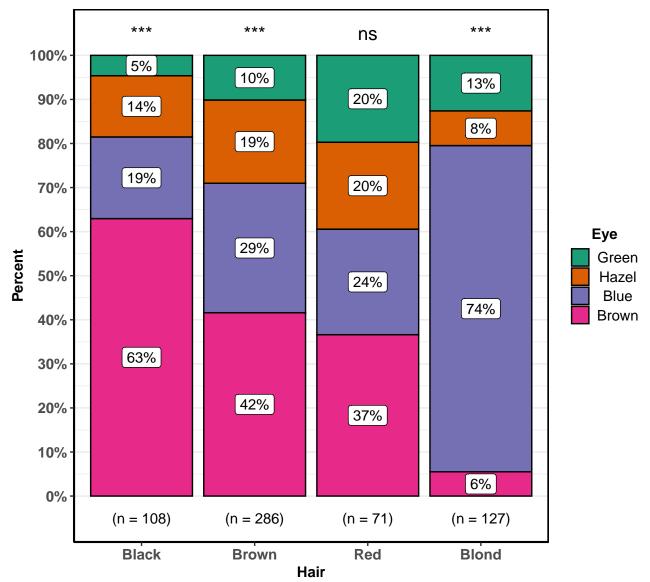


Note: Only two species of flower are displayed



In favor of null:  $log_e(BF_{01}) = -10.31$ , sampling = independent multinomial, a = 1.00

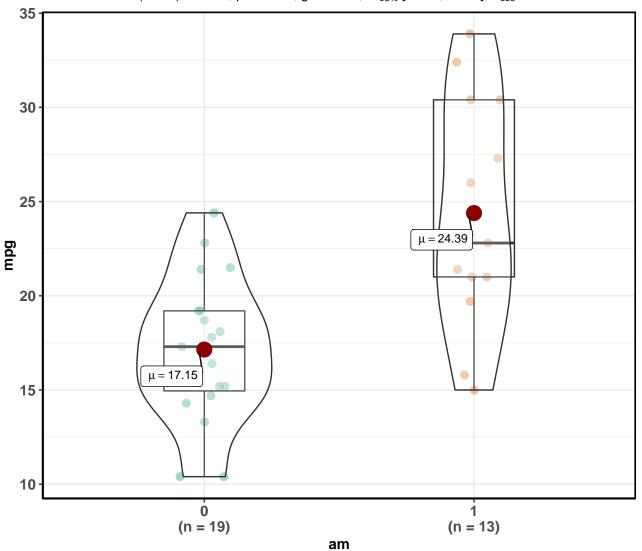
 $\chi^2_{\rm Pearson}(9) = 138.29, \, \rho = <0.001, \, V_{\rm Cramer} = 0.28, \, {\rm CI}_{95\%} \, [0.23, \, 0.31], \, n_{\rm obs} = 592 \, {\rm CI}_{100} \, [0.23, \, 0.31], \, n_{\rm$ 



In favor of null:  $log_e(BF_{01}) = -56.78$ , sampling = independent multinomial, a = 1.00

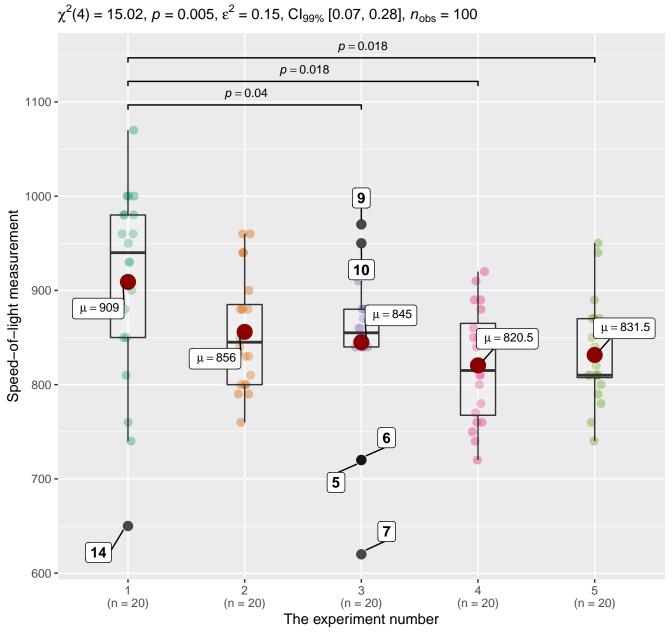
### Fuel efficiency by type of car transmission

t(18.33) = -3.77, p = 0.001, g = -1.38,  $Cl_{95\%}$  [-2.17, -0.51],  $n_{obs} = 32$ 



Transmission (0 = automatic, 1 = manual)

In favor of null:  $log_e(BF_{01}) = -4.46$ ,  $r_{Cauchy}^{JZS} = 0.71$ 

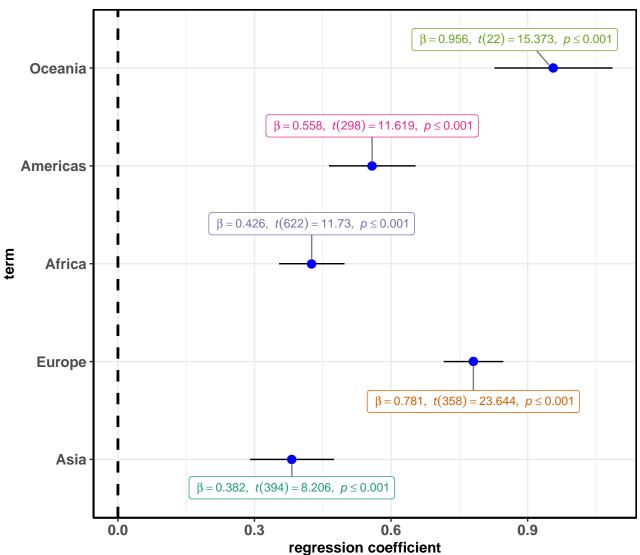


Pairwise comparisons: Dwass-Steel-Crichtlow-Fligner test; Adjustment (p-value): Benjamini & Hochberg

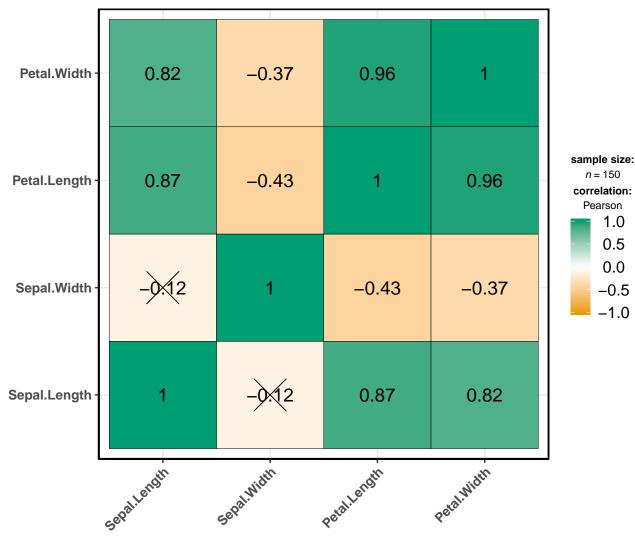


AIC = 166, BIC = 173, log-likelihood = -78

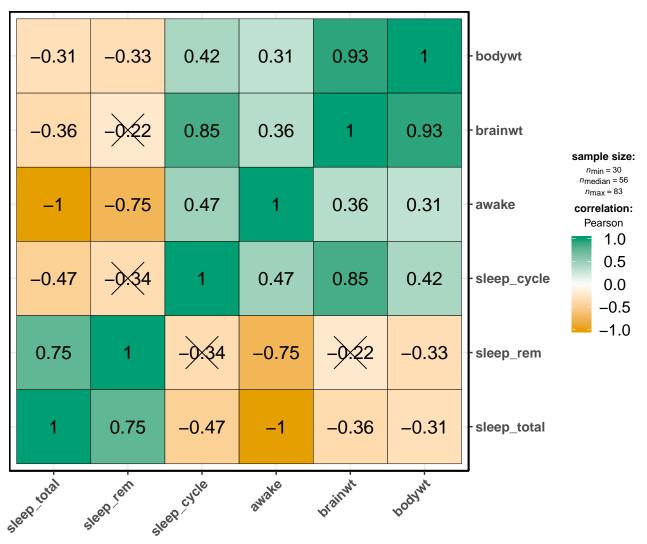
Summary effect:  $\beta$  = 0.619, Cl<sub>95%</sub> [0.407, 0.830], z = 5.736, se = 0.108, p = < 0.001



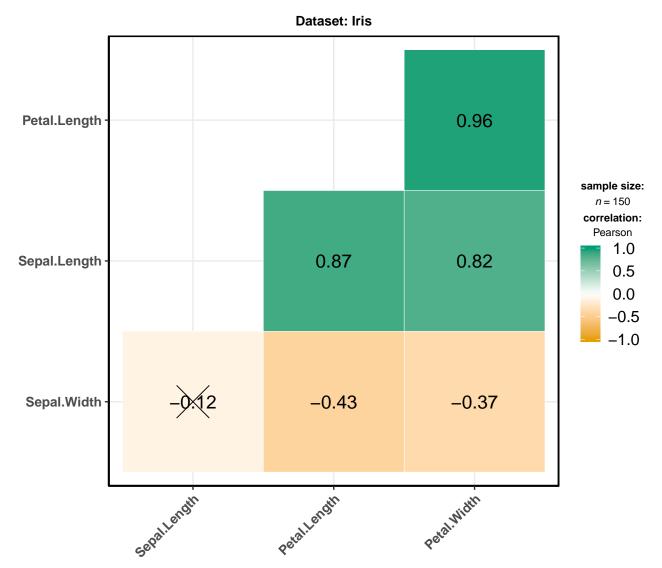
In favor of null:  $log_e(BF_{01}) = -2.680$ ,  $d_{mean}^{posterior} = 0.494$ ,  $CI_{95\%}$  [0.158, 0.778] Heterogeneity: Q(4) = 109, p = < 0.001,  $\tau_{REML}^2 = 0.056$ ,  $I^2 = 96.81\%$ 



 $\mathbf{X}$  = correlation non–significant at p < 0.05 Adjustment (p–value): None



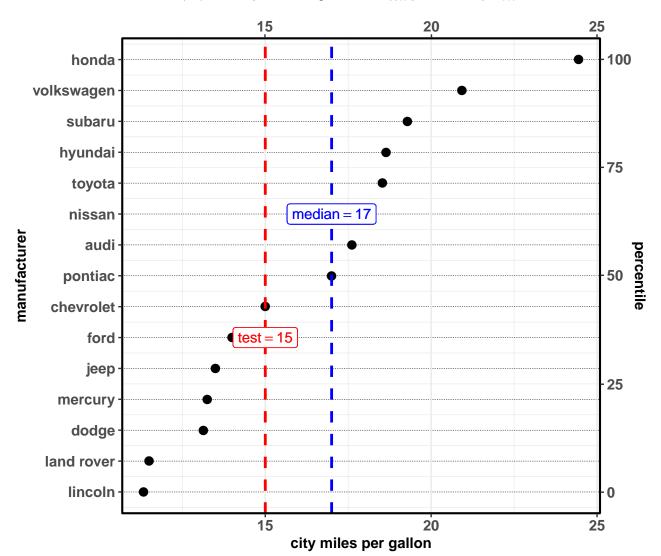
X = correlation non-significant at <math>p < 0.05Adjustment (p-value): None



 $\mathbf{X} = \text{correlation non-significant at } p < 0.01$  Adjustment (p-value): None

### Fuel economy data

t(14) = 1.47, p = 0.163, g = 0.36,  $Cl_{99\%}$  [-0.33, 1.10],  $n_{obs} = 15$ 



Source: EPA dataset on http://fueleconomy.gov

In favor of null:  $log_e(BF_{01}) = 0.44$ ,  $r_{Cauchy}^{JZS} = 0.71$ 

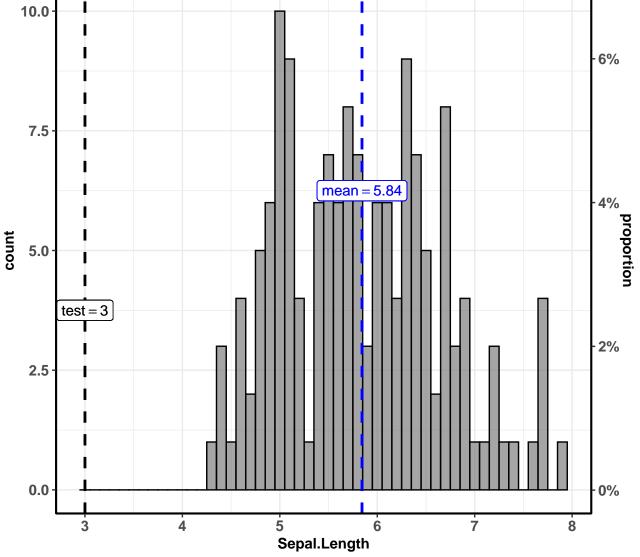
 $t(59) = 19.05, \, p = <0.001, \, g = 2.43, \, \mathsf{Cl}_{95\%} \, [1.96, \, 2.99], \, n_\mathsf{obs} = 60$ 12.5 10.0 median = 19.25 7.5 count 5.0 2.5 0.0

20 Tooth length

10

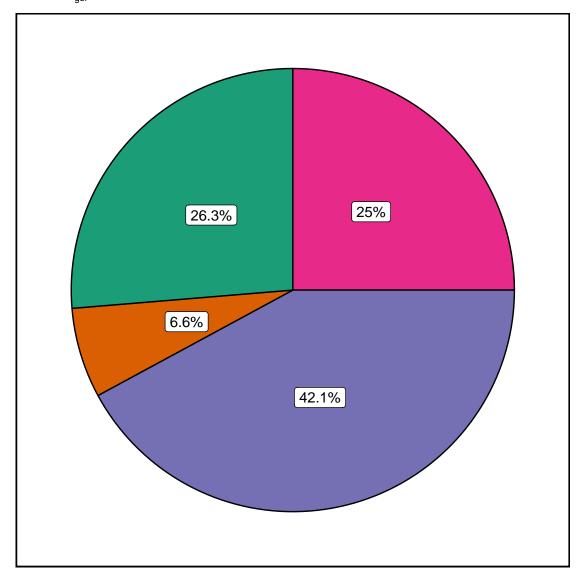
In favor of null:  $log_e(BF_{01}) = -54.54$ ,  $r_{Cauchy}^{JZS} = 0.71$ 

30



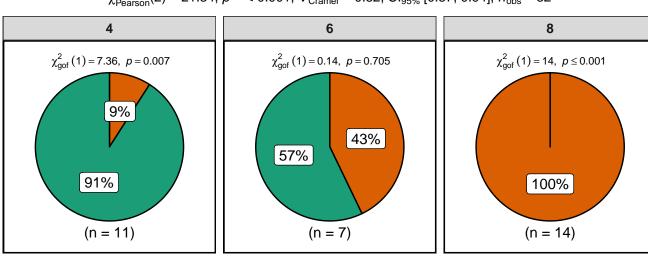
Note: Iris dataset by Fisher.

In favor of null:  $log_e(BF_{01}) = -186.14$ ,  $r_{Cauchy}^{JZS} = 0.80$ 



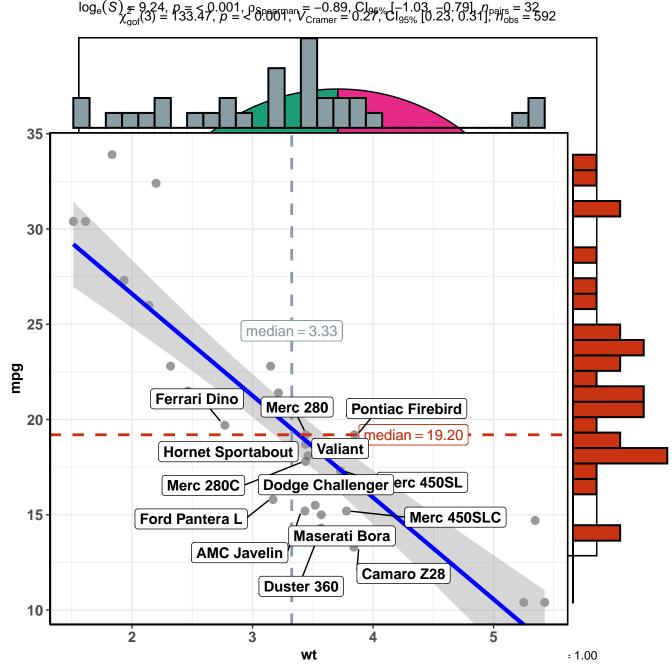


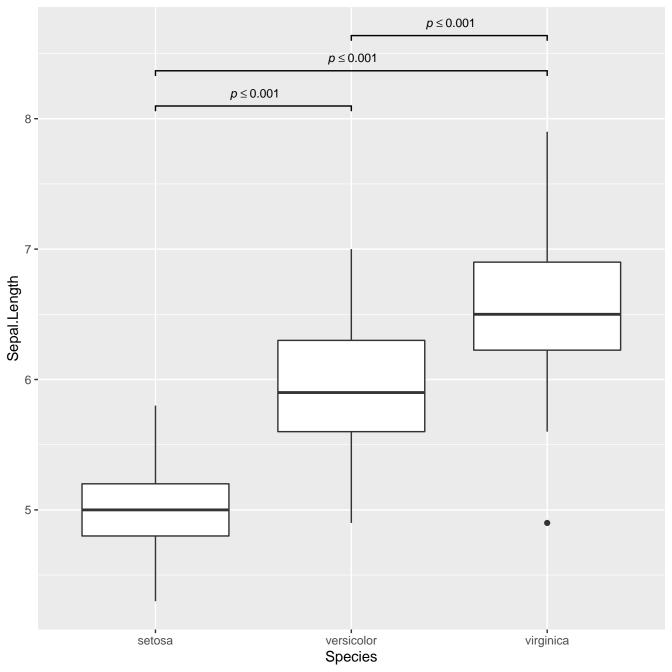
$$\chi^2_{\text{Pearson}}(2) = 21.34, p = < 0.001, V_{\text{Cramer}} = 0.82, Cl_{95\%} [0.57, 0.94], n_{\text{obs}} = 32$$

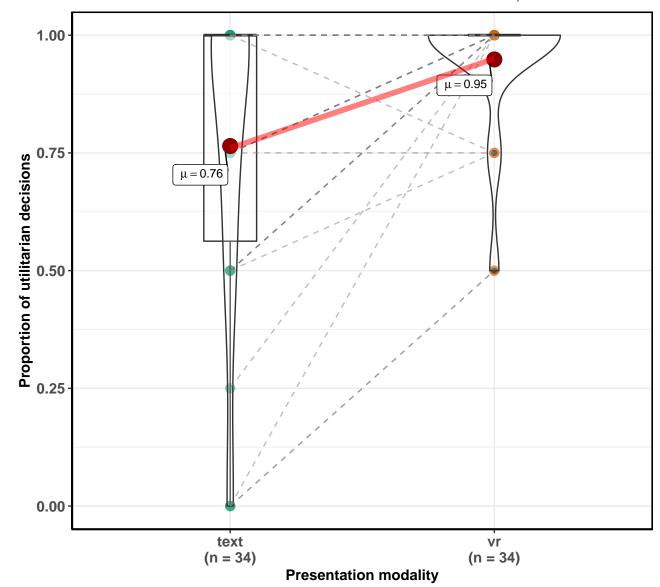


Engine 0 = V-shaped 1 = straight

In favor of null:  $log_e(BF_{01}) = -10.31$ , sampling = independent multinomial, a = 1.00

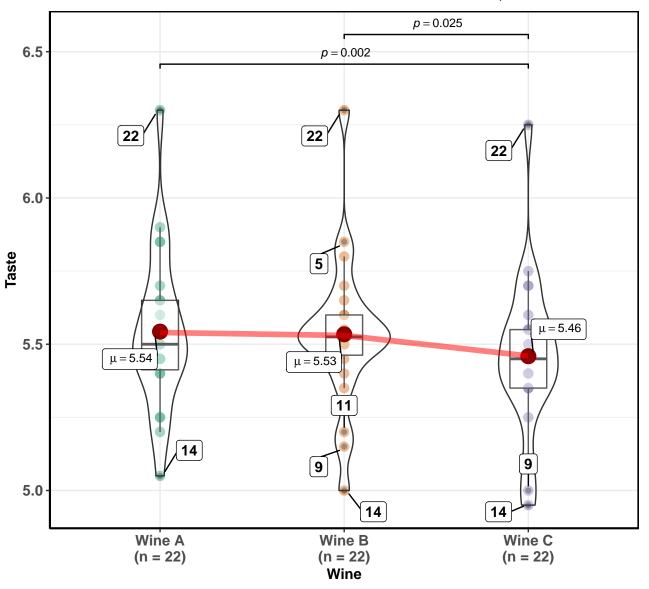




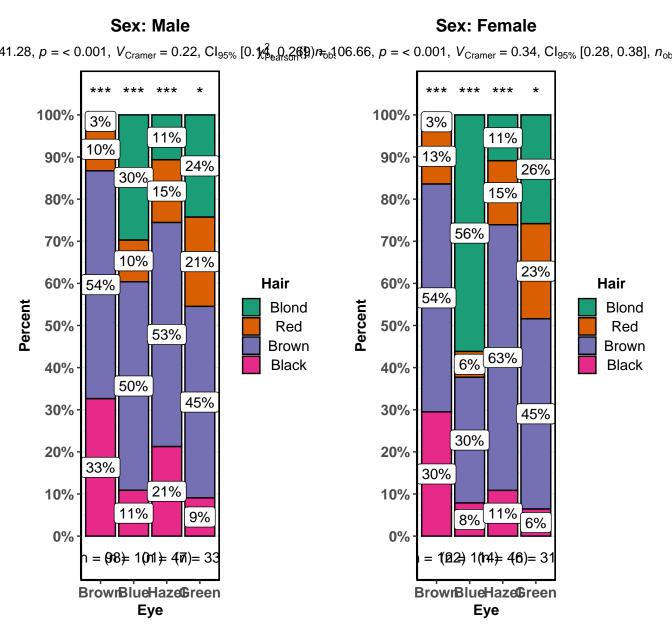


In favor of null:  $log_e(BF_{01}) = -4.34$ ,  $r_{Cauchy}^{JZS} = 0.71$ 

 $\chi^2(2) = 11.14$ , p = 0.004,  $W_{\text{Kendall}} = 0.82$ ,  $\text{CI}_{99\%}$  [0.82, 1.00],  $n_{\text{pairs}} = 22$ 



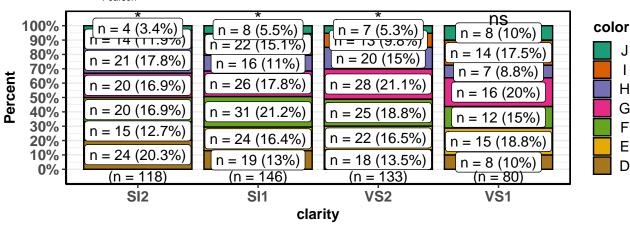
Pairwise comparisons: Durbin-Conover test; Adjustment (p-value): Holm



pling = independent multinfavoriate  $a_{\text{ell}}$  and  $a_{\text{ell}}$  and  $a_{\text{ell}}$   $a_{\text{ell}}$ 

#### **Quality: Very Good**

$$\chi^2_{\text{Pearson}}(18) = 17.95, p = 0.459, V_{\text{Cramer}} = 0.11, Cl_{95\%} [0.02, 0.11], n_{\text{obs}} = 477$$



In favor of null:  $log_e(BF_{01}) = 4.95$ , sampling = poisson, a = 1.00

Н

G

F

Ε

color

Н

G

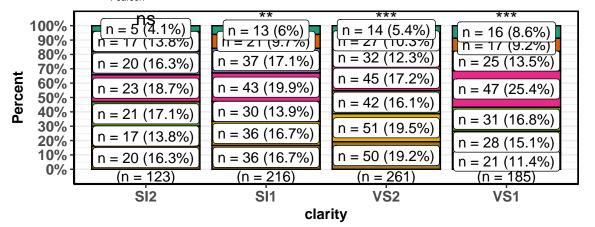
F

Ε

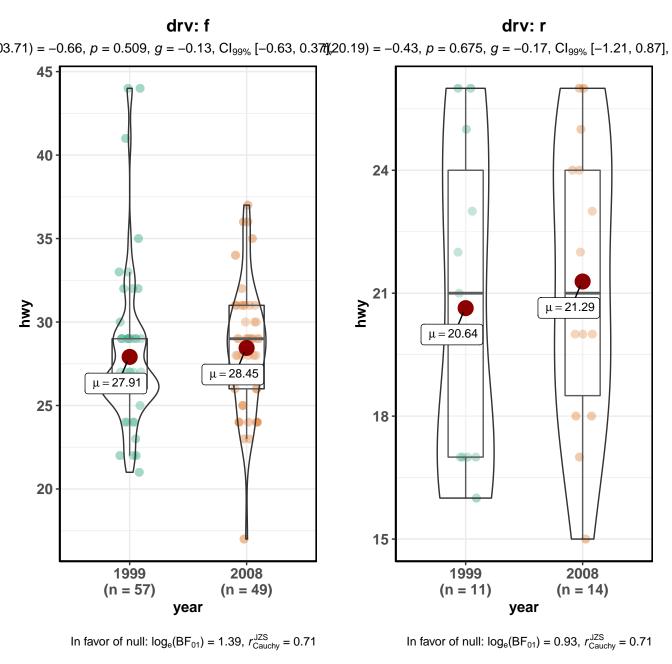
D

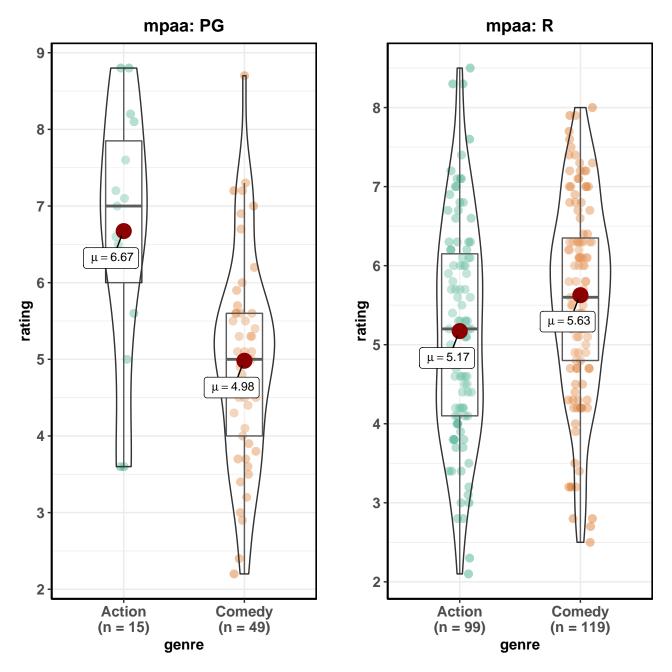
### **Quality: Ideal**

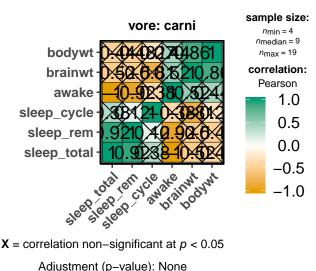
$$\chi^2_{\text{Pearson}}(18) = 17.85, p = 0.466, V_{\text{Cramer}} = 0.09, \text{Cl}_{95\%}[0.02, 0.08], n_{\text{obs}} = 785$$

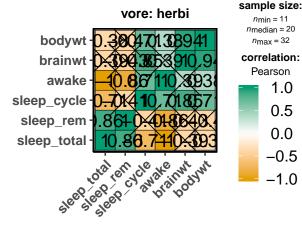


In favor of null:  $log_e(BF_{01}) = 9.05$ , sampling = poisson, a = 1.00

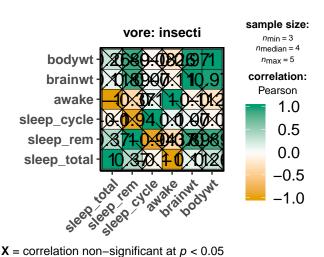




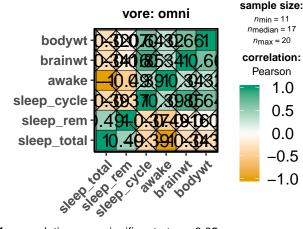




X = correlation non-significant at p < 0.05Adjustment (p-value): None



Adjustment (p-value): None



1.0

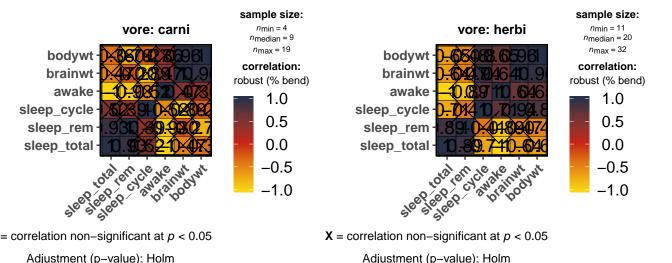
0.5

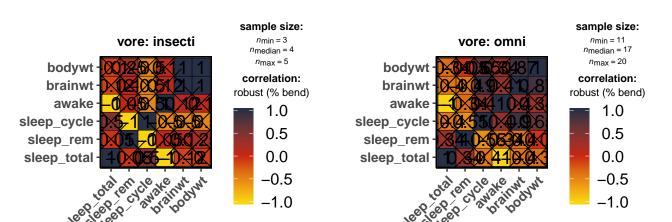
0.0

-0.5

-1.0

X = correlation non-significant at p < 0.05Adjustment (p-value): None





X = correlation non-significant at p < 0.05

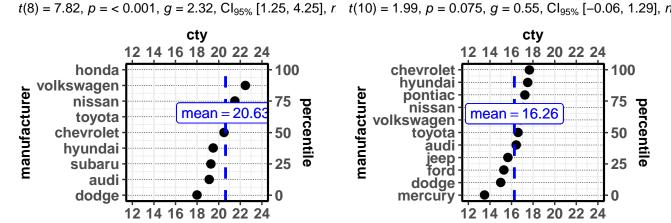
Adjustment (p-value): Holm

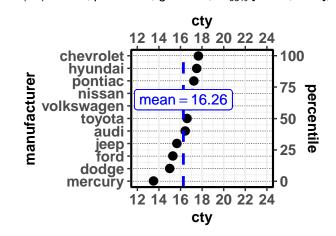
= correlation non–significant at p < 0.05

Adjustment (p-value): Holm

## cylinder count: 4

cylinder count: 6



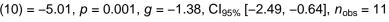


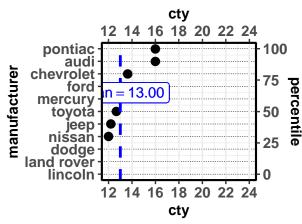
In favor of null:  $log_e(BF_{01}) = -6.20$ ,  $r_{Cauchy}^{JZS} = 0.71$ 

In favor of null:  $log_e(BF_{01}) = -0.23$ ,  $r_{Cauchy}^{JZS} = 0.71$ 

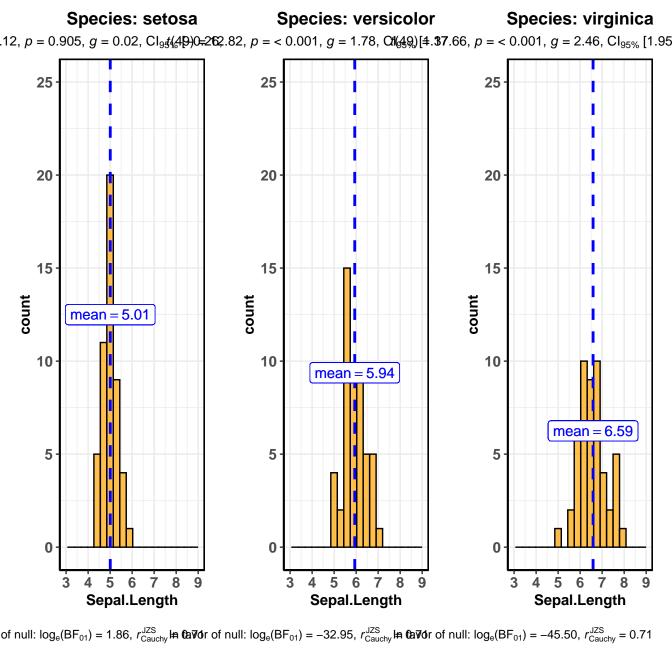
# cylinder count: 8

cty

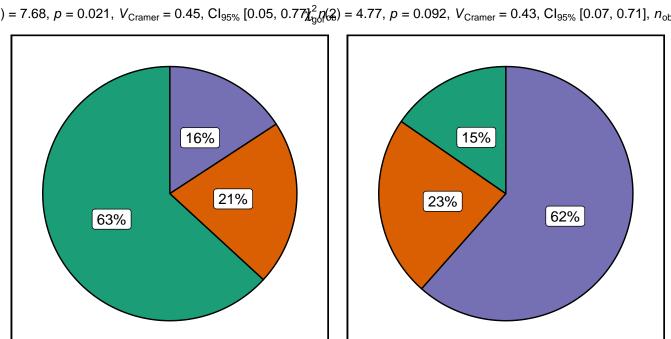


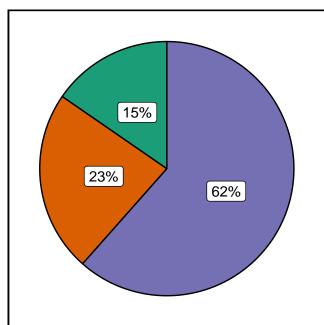


In favor of null:  $log_e(BF_{01}) = -4.24$ ,  $r_{Cauchy}^{JZS} = 0.71$ 



am: 0





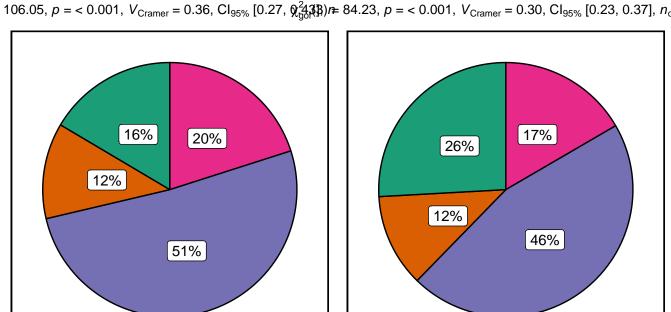
am: 1

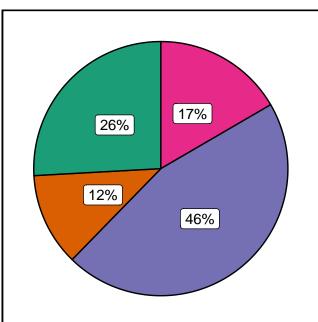
In favor of null:  $log_e(BF_{01}) = -0.16$ , a = 1.00

In favor of null:  $log_e(BF_{01}) = 0.85$ , a = 1.00

Sex: Male

Sex: Female





Red

In favor of null:  $log_e(BF_{01}) = -37.65$ , a = 1.00

Red

Brown

Hair

Blond

Black Hair

Blond

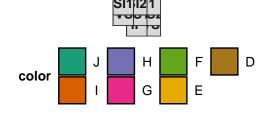
In favor of null:  $log_e(BF_{01}) = -30.42$ , a = 1.00

Brown

Black

### Quality: Fair

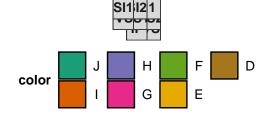
$$\chi^2_{\text{Pearson}}(42) = 55.71, p = 0.076, V_{\text{Cramer}} = 0.23, \text{Cl}_{95\%} [0.14, 0.22], n_{\text{obs}} = 172$$



vor of null:  $log_e(BF_{01}) = -7.86$ , sampling = poisson, a = 1.00

# Quality: Very Good

$$\chi^2_{\text{Pearson}}(42) = 64.05, p = 0.016, V_{\text{Cramer}} = 0.09, \text{Cl}_{95\%} [0.05, 0.09], n_{\text{obs}} = 1187$$



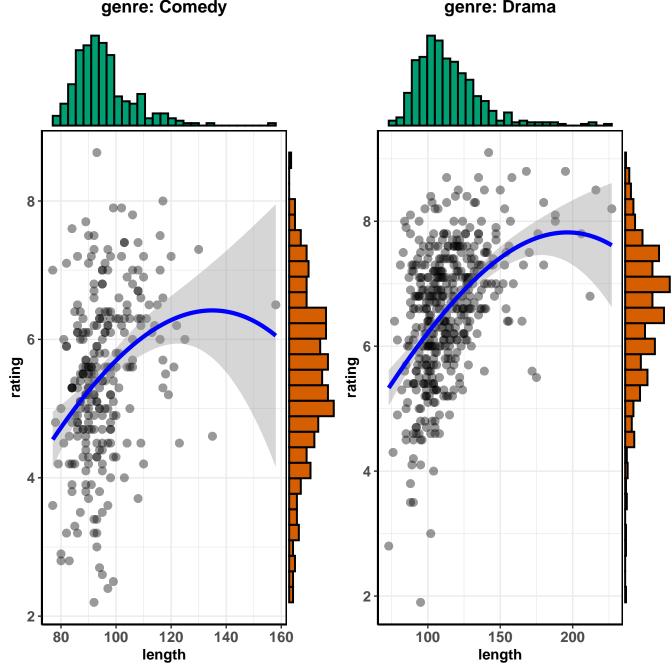
vor of null:  $log_e(BF_{01}) = 14.79$ , sampling = poisson, a = 1.00

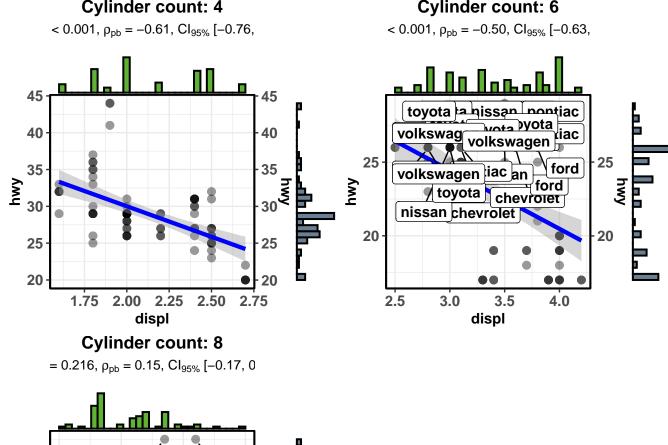
## Quality: Ideal

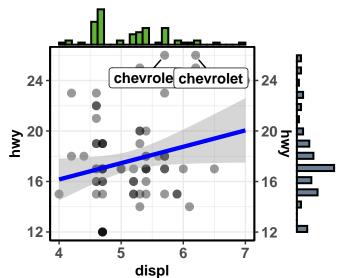
$$\chi^2_{\text{Pearson}}(42) = 153.32, p = < 0.001, V_{\text{Cramer}} = 0.11, Cl_{95\%} [0.08, 0.11], n_{\text{obs}} = 2165$$

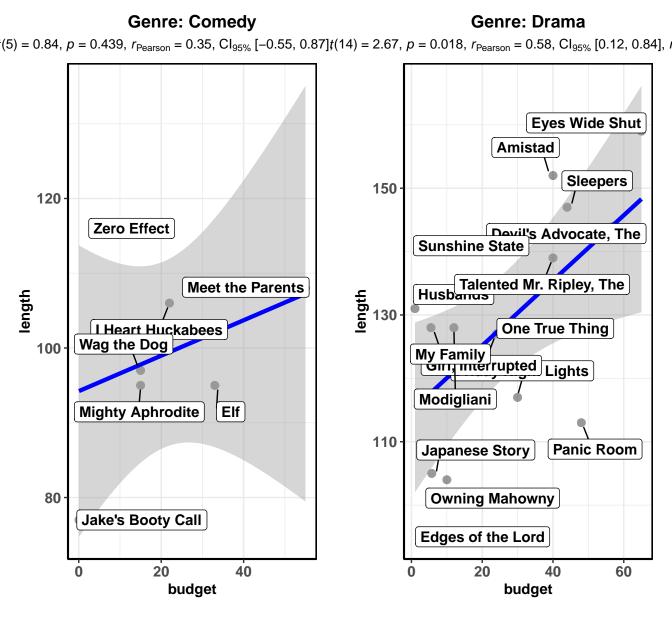


or of null:  $log_e(BF_{01}) = -25.04$ , sampling = poisson, a = 1.00









All movies have IMDB rating equal to 7.

