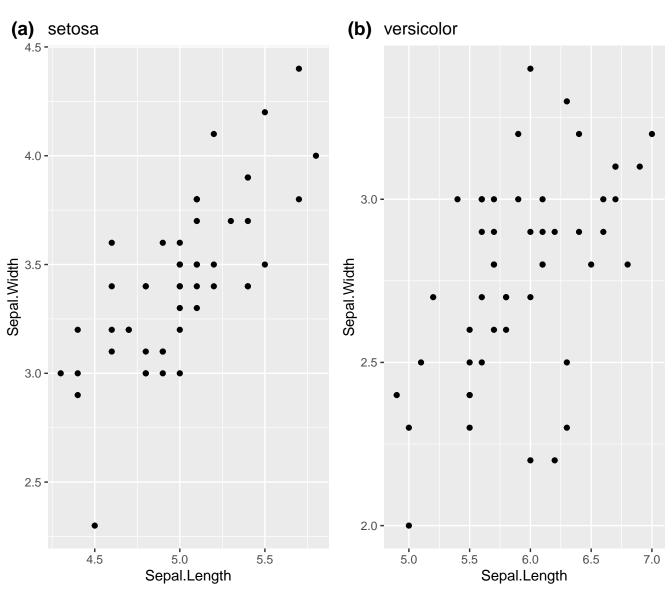
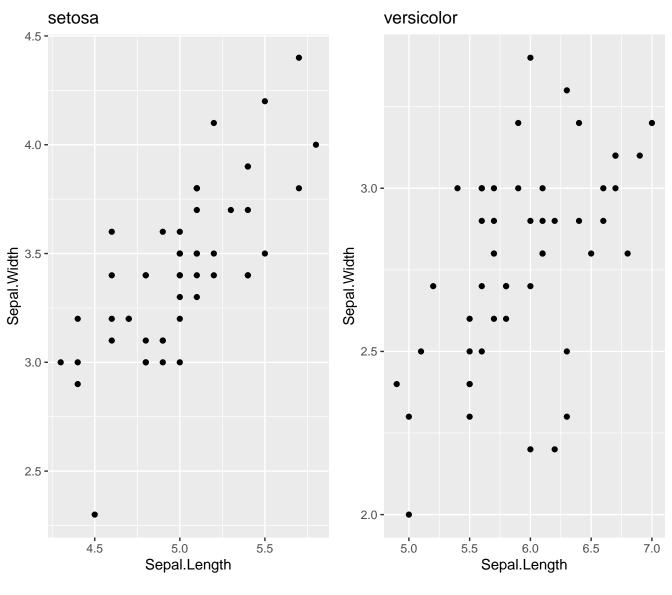
# **Dataset: Iris Flower dataset**



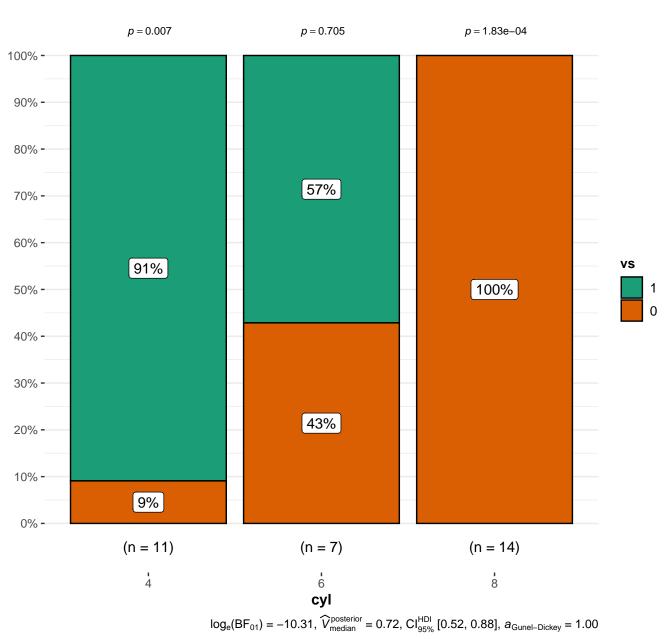
Note: Only two species of flower are displayed

## Dataset: Iris Flower dataset



Note: Only two species of flower are displayed

 $\chi^2_{\text{Pearson}}(2) = 21.34, \ p = 2.32 \text{e} - 05, \ \widehat{V}_{\text{Cramer}} = 0.79, \ \text{Cl}_{95\%} \ [0.40, \ 1.11], \ n_{\text{obs}} = 32$ 



# Fuel efficiency by type of car transmission

(n = 19)

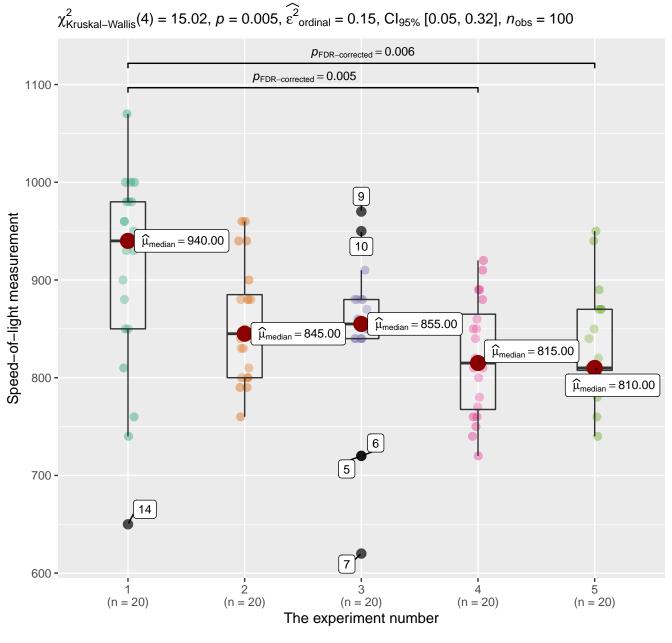
10 -

 $t_{\mathsf{Welch}}(18.33) = -3.77, \, p = 0.001, \, \widehat{g}_{\mathsf{Hedge}} = -1.38, \, \mathsf{Cl}_{95\%} \, [-2.12, \, -0.50], \, n_{\mathsf{obs}} = 32$ 35 -30 -25 - $\widehat{\mu}_{mean} = 24.39$ 20 - $\widehat{\mu}_{mean} = 17.15$ 15**-**

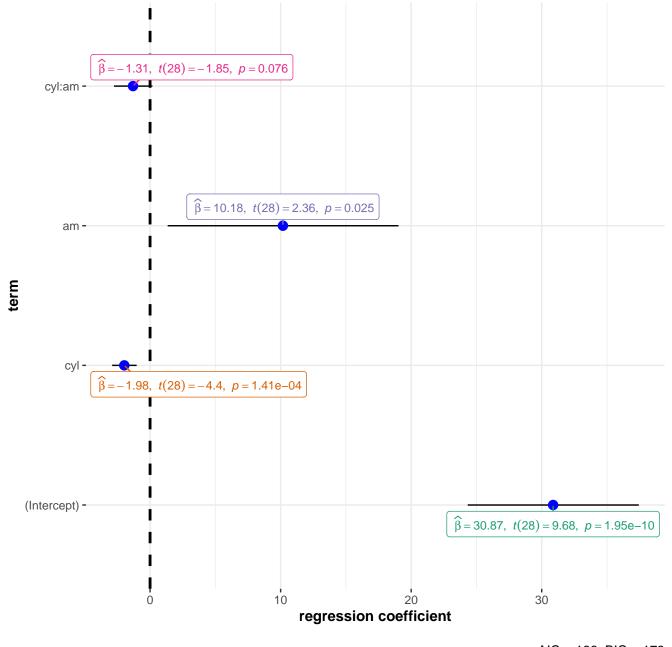
**am**Transmission (0 = automatic, 1 = manual)

(n = 13)

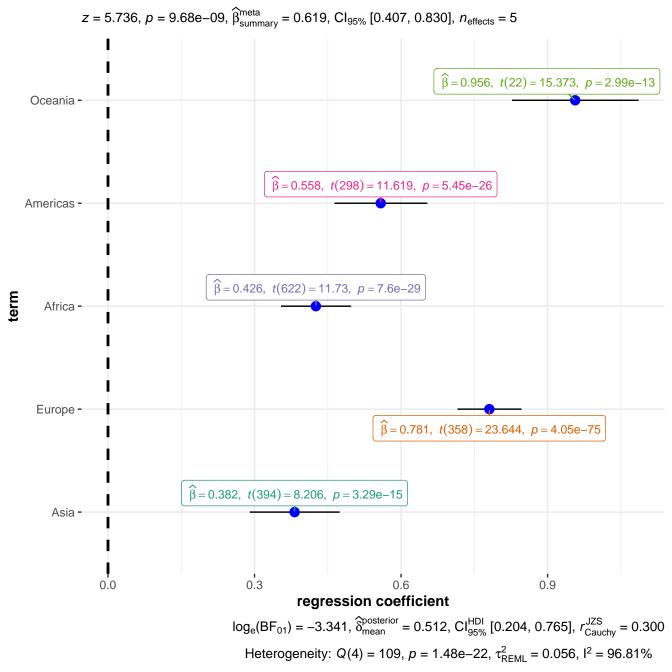
 $log_e(BF_{01}) = -4.46$ ,  $\widehat{\delta}_{median}^{posterior} = 6.44$ ,  $Cl_{95\%}^{HDI}$  [2.68, 10.05],  $r_{Cauchy}^{JZS} = 0.71$ 

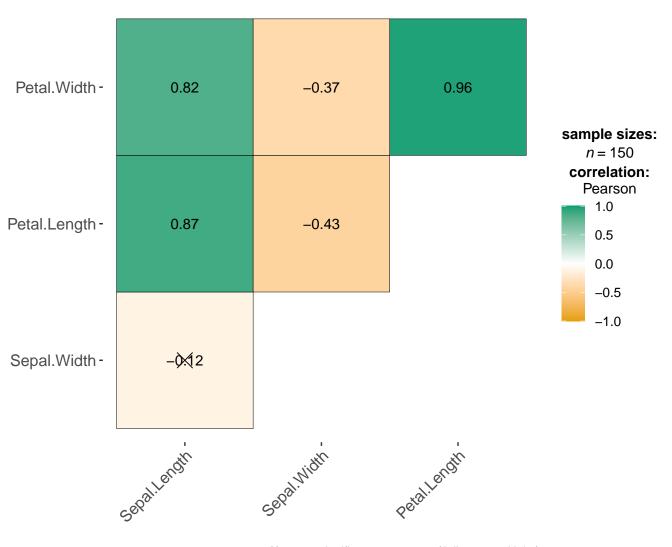


Pairwise test: Dunn test; Comparisons shown: only significant

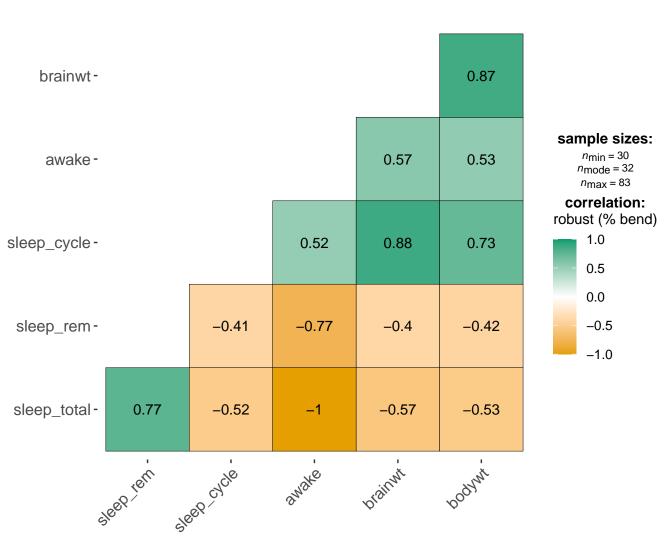


AIC = 166, BIC = 173





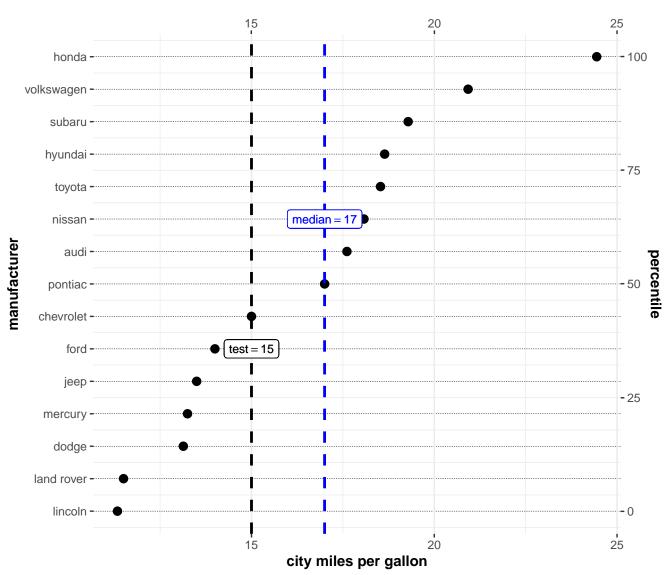
X = non-significant at p < 0.05 (Adjustment: Holm)



X = non-significant at p < 0.05 (Adjustment: Holm)

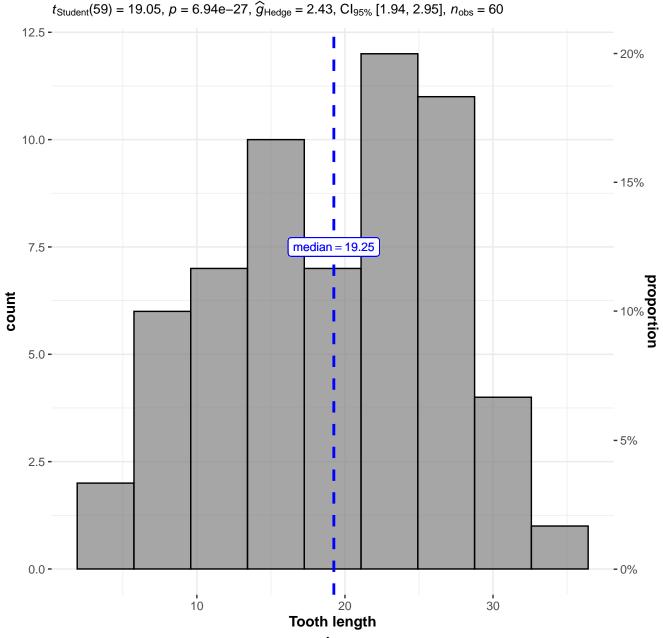
#### Fuel economy data

 $t_{\text{Student}}(14) = 1.47, p = 0.163, \hat{g}_{\text{Hedge}} = 0.36, \text{Cl}_{99\%} [-0.31, 1.04], n_{\text{obs}} = 15$ 

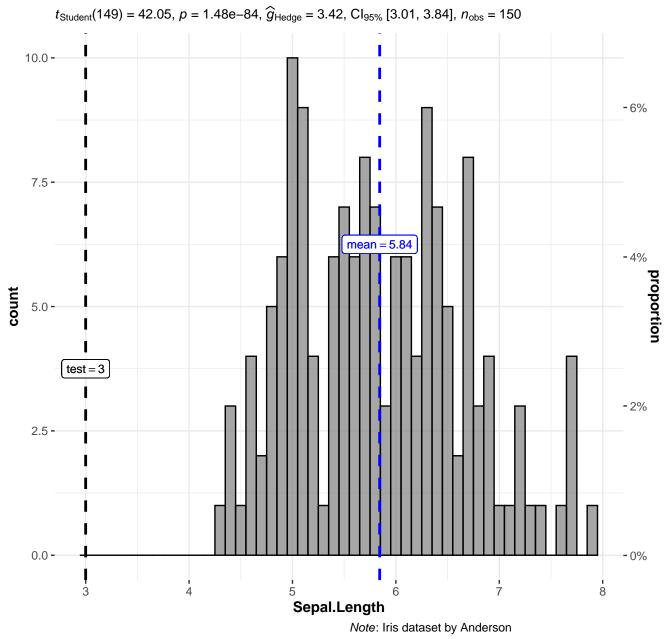


Source: EPA dataset on http://fueleconomy.gov

 $log_{e}(BF_{01}) = 0.44, \ \widehat{\delta}_{median}^{posterior} = -1.26, \ CI_{95\%}^{HDI} \ [-3.38, \ 0.80], \ r_{Cauchy}^{JZS} = 0.71$ 

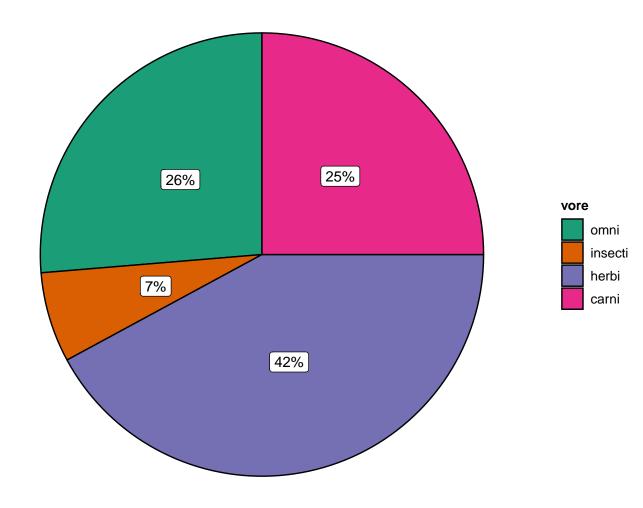


 $log_{e}(BF_{01}) = -54.54, \ \widehat{\delta}_{median}^{posterior} = -18.71, \ Cl_{95\%}^{HDI} \ [-20.60, \, -16.62], \ r_{Cauchy}^{JZS} = 0.71$ 

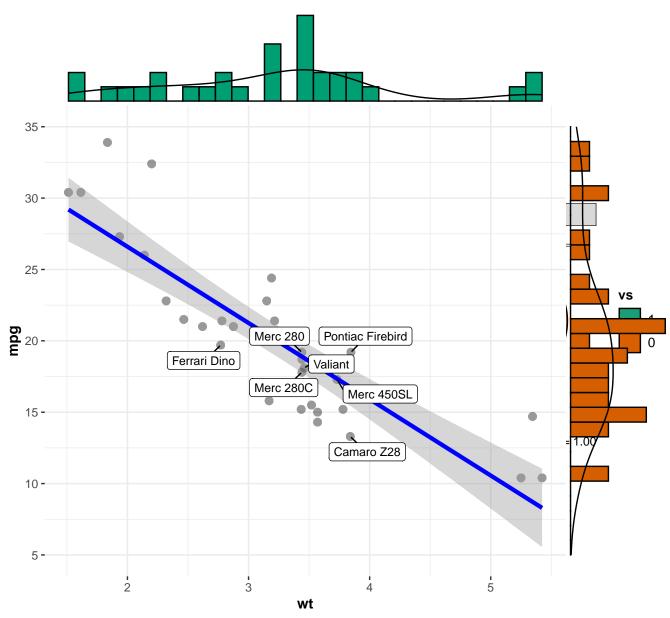


 $log_{e}(BF_{01}) = -186.14, \ \widehat{\delta}_{median}^{posterior} = -2.84, \ Cl_{95\%}^{HDI} \ [-2.97, -2.70], \ r_{Cauchy}^{JZS} = 0.80$ 

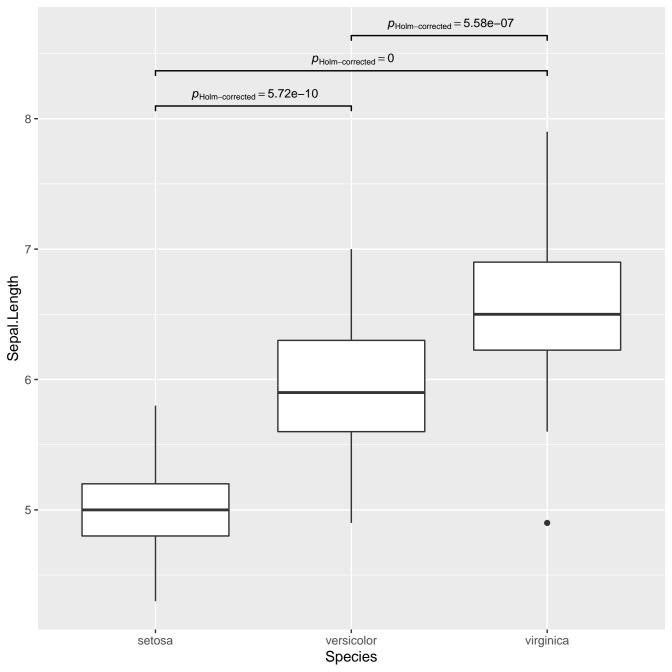
$$\chi^2_{\rm gof}(3) = 19.26, \, p = 2.41 {\rm e} - 04, \, \widehat{V}_{\rm Cramer} = 0.27, \, {\rm Cl}_{95\%} \, [0.11, \, 0.38], \, n_{\rm obs} = 76$$

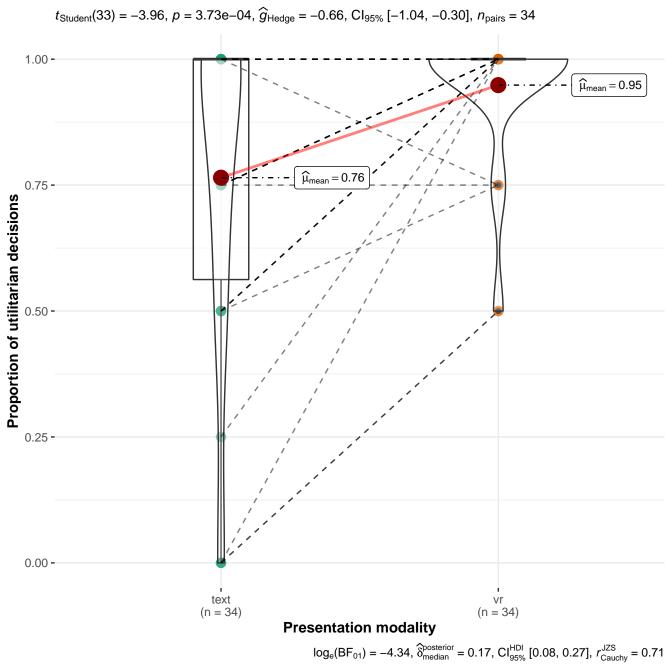


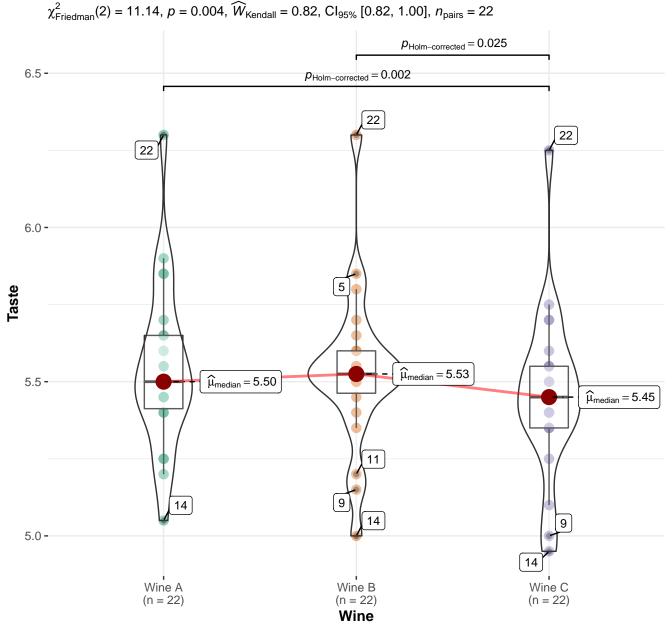
 $log_e(BF_{01}) = -3.74$ ,  $a_{Gunel-Dickey} = 1.00$ 



 $log_{e}(BF_{01}) = -17.84, \; \widehat{\rho}_{median}^{posterior} = -0.84, \; CI_{95\%}^{HDI} \; [-0.93, \, -0.73], \; r_{Cauchy}^{JZS} = 0.71$ 



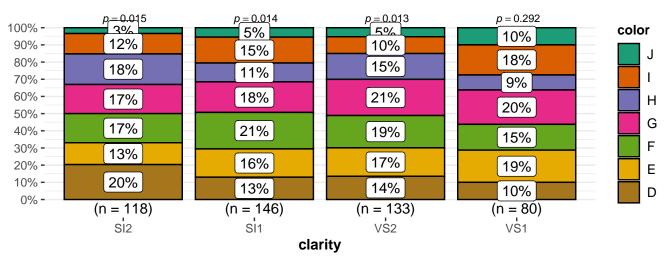




 $\label{pairwise test: Durbin-Conover test} Pairwise \ test: \ \textbf{Durbin-Conover test}; \ Comparisons \ shown: \ \textbf{only significant}$ 

## **Quality: Very Good**

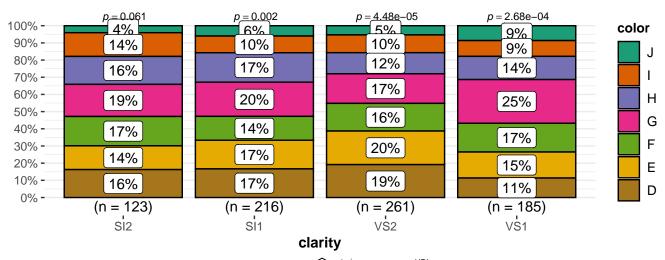
$$\chi^2_{\text{Pearson}}(18) = 17.95, p = 0.459, \hat{V}_{\text{Cramer}} = 0.00, \text{Cl}_{95\%} [0.00, 0.00], n_{\text{obs}} = 477$$



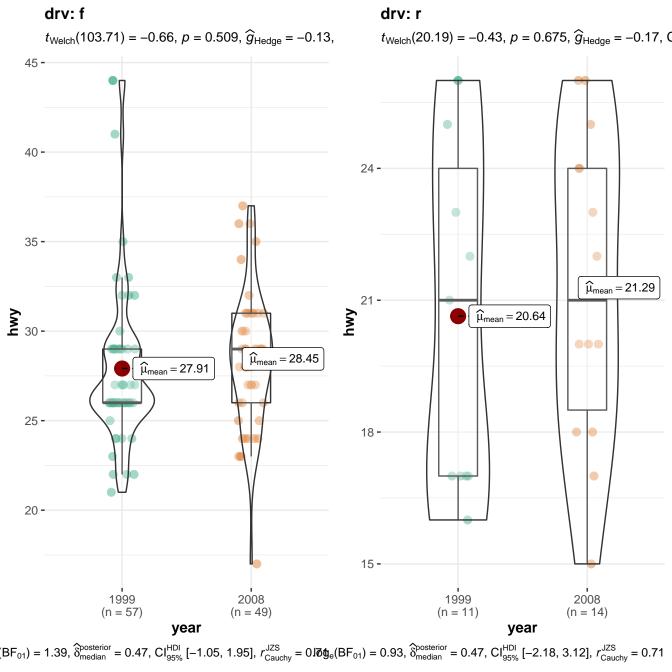
$$log_e(BF_{01}) = 16.13$$
,  $\widehat{V}_{median}^{posterior} = 0.15$ ,  $CI_{95\%}^{HDI}$  [0.11, 0.19],  $a_{Gunel-Dickey} = 1.00$ 

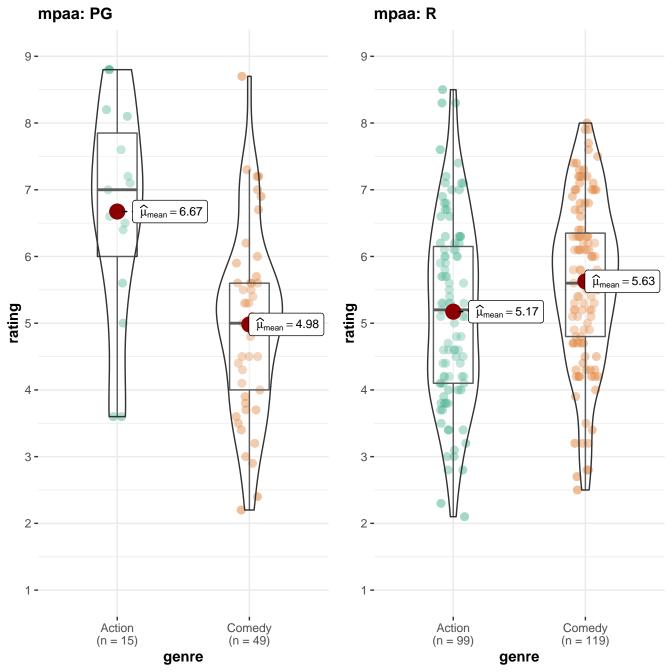
#### **Quality: Ideal**

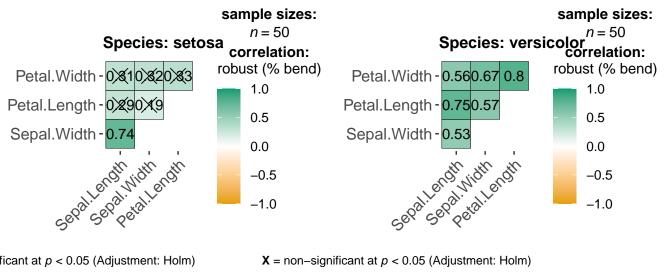
$$\chi^2_{\text{Pearson}}(18) = 17.85, p = 0.466, \hat{V}_{\text{Cramer}} = 0.00, \text{Cl}_{95\%} [0.00, 0.00], n_{\text{obs}} = 785$$

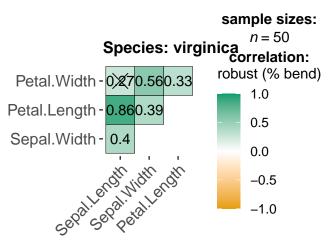


 $log_e(BF_{01}) = 20.36, \hat{V}_{median}^{posterior} = 0.12, Cl_{95\%}^{HDI} [0.09, 0.15], a_{Gunel-Dickey} = 1.00$ 

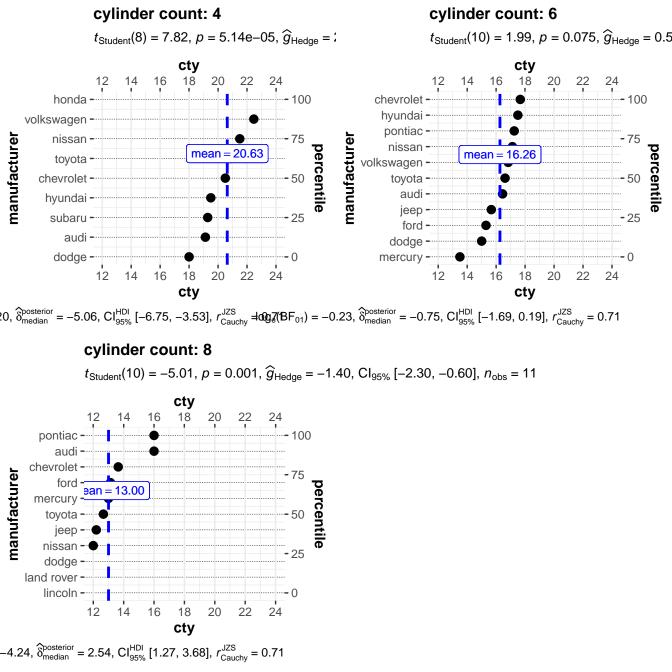


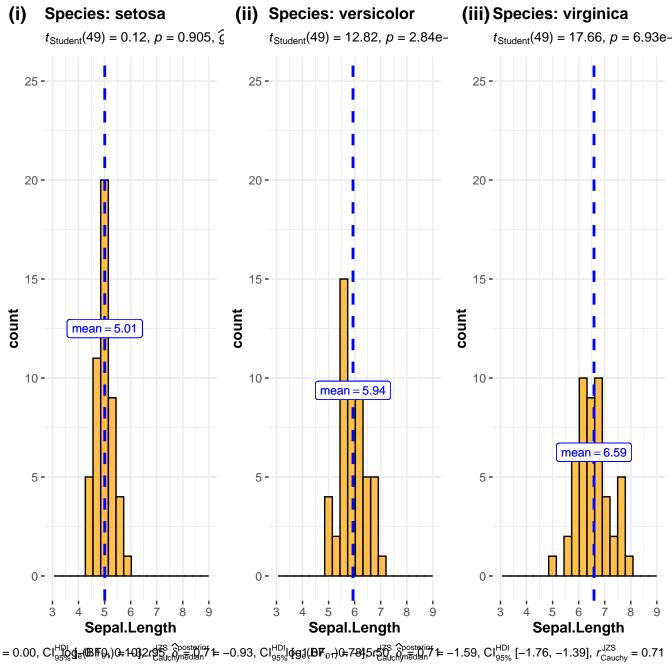


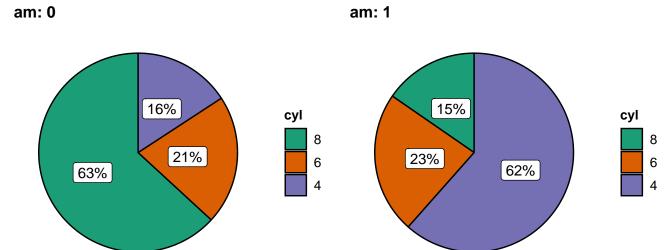




ficant at p < 0.05 (Adjustment: Holm)







genre: Comedy genre: Drama  $t_{\text{Student}}(258) = 5.20, p = 4.02e-07, \hat{r}_{\text{Pearson}}$  $t_{\text{Student}}(426) = 10.38, p = 1.19e-22, \hat{r}_{\text{Pearso}}$ 8 -rating rating

160

2 -

80

120

140

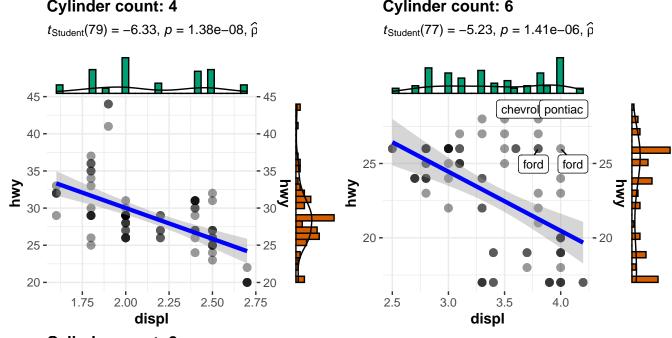
100

2 -

100

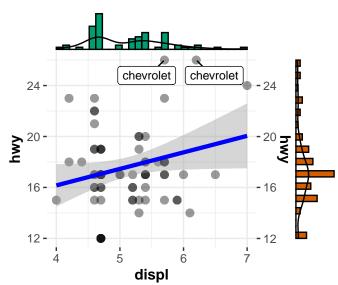
150

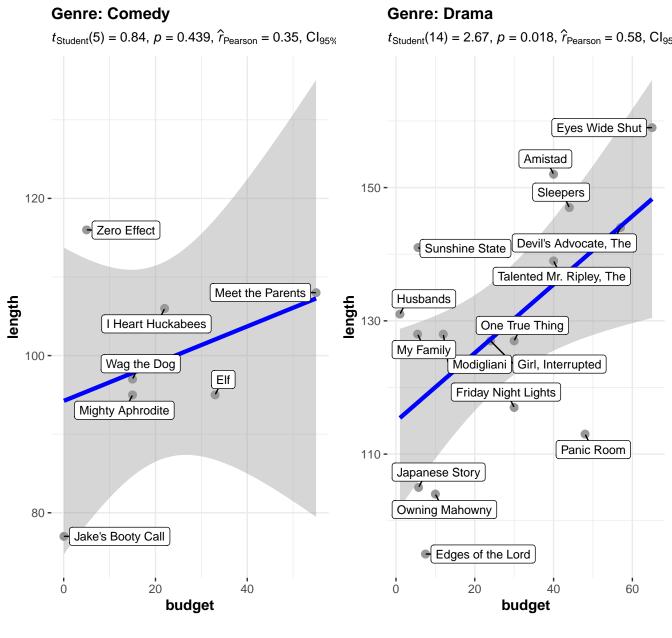
200





 $t_{\text{Student}}(68) = 1.02, p = 0.312, \hat{\rho}_{\text{\% benc}}$ 





All movies have IMDB rating equal to 7.

