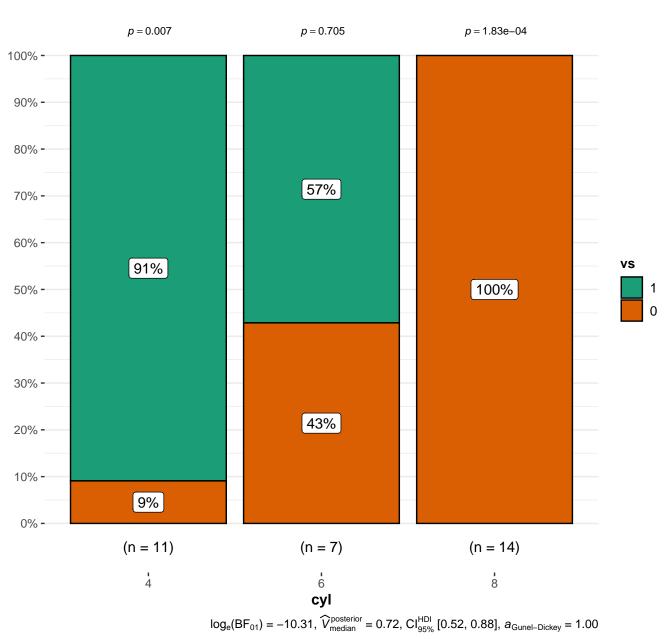


Dataset: Iris Flower dataset Edgar Anderson collected this data b а versicolor setosa 4.5 -4.0 -3.0 -Sepal.Width 3.5 **-**Sepal.Width 2.5 -3.0 -2.5 -2.0 -4.5 5.0 5.5 5.5 5.0 6.0 6.5 7.0 Sepal.Length Sepal.Length

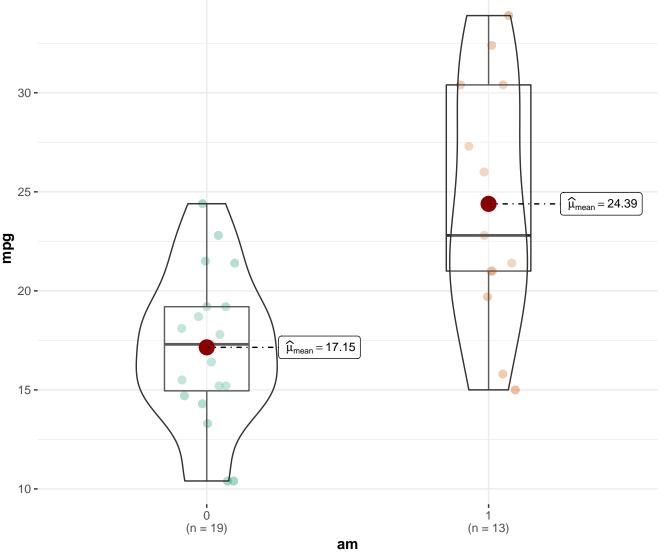
Note: Only two species of flower are displayed

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



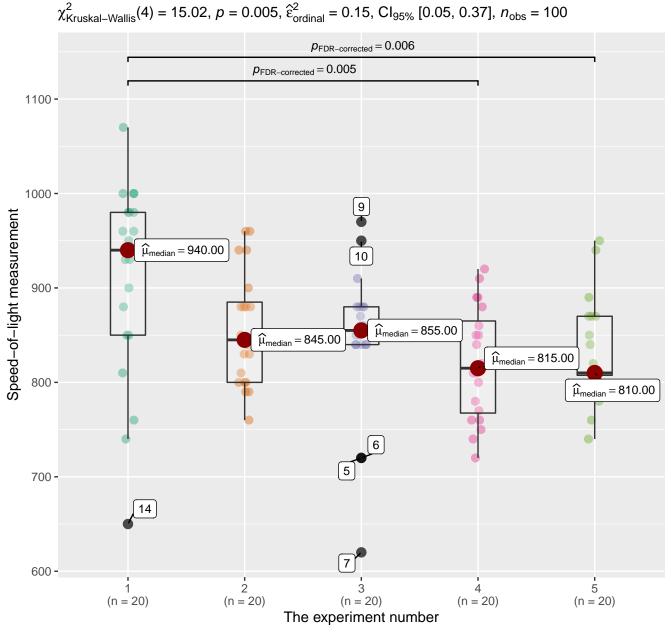
Fuel efficiency by type of car transmission

 $t_{\text{Welch}}(18.33) = -3.77, p = 0.001, \ \hat{g}_{\text{Hedge}} = -1.44, \ \text{Cl}_{95\%} \ [-2.21, -0.65], \ n_{\text{obs}} = 32$

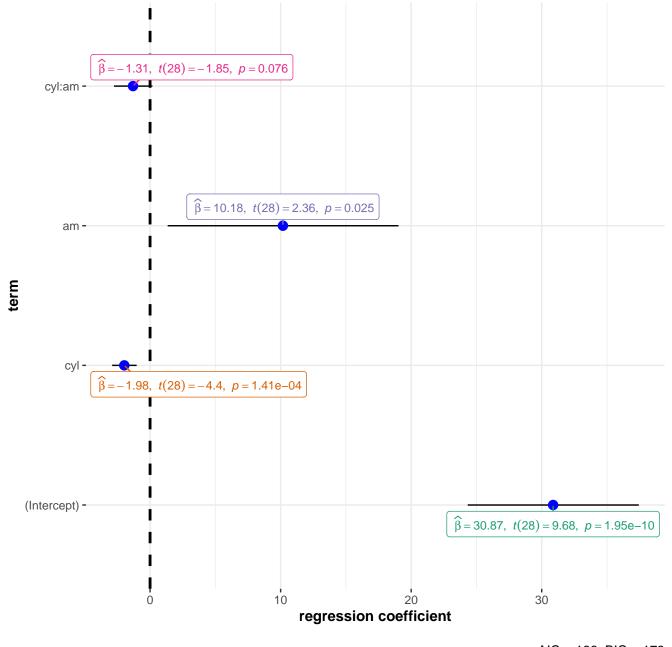


Transmission (0 = automatic, 1 = manual)

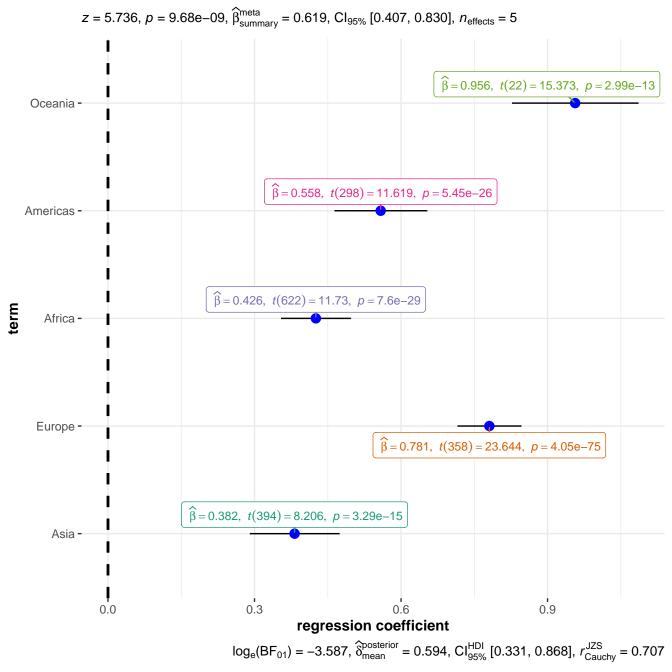
 $log_{e}(BF_{01}) = -4.46, \ \widehat{\delta}_{median}^{posterior} = 6.44, \ Cl_{95\%}^{HDI} \ [2.68, \ 10.05], \ r_{Cauchy}^{JZS} = 0.71$

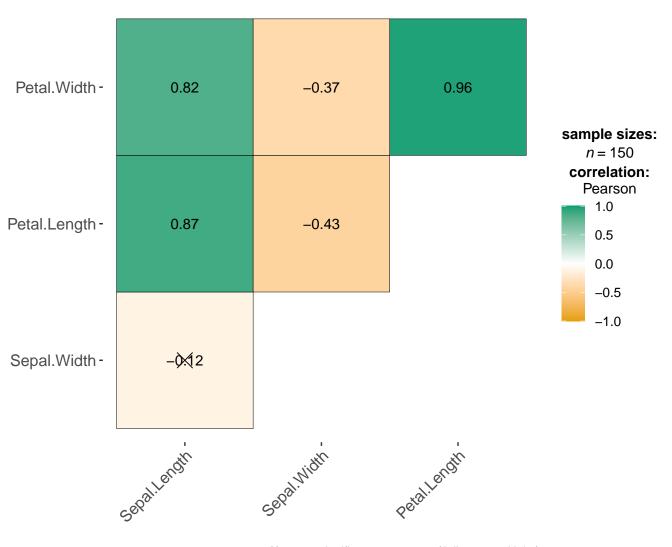


Pairwise test: Dunn test; Comparisons shown: only significant

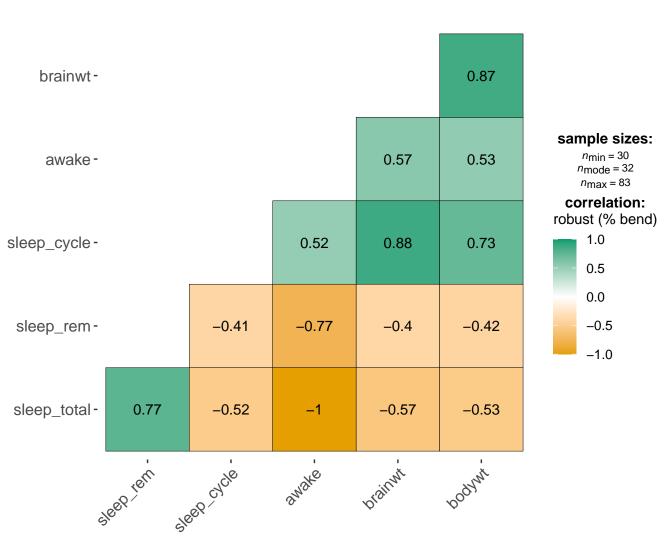


AIC = 166, BIC = 173





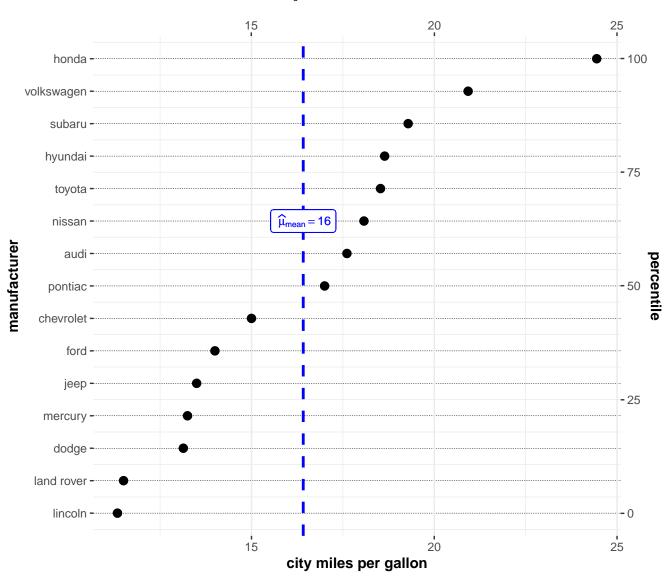
X = non-significant at p < 0.05 (Adjustment: Holm)



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

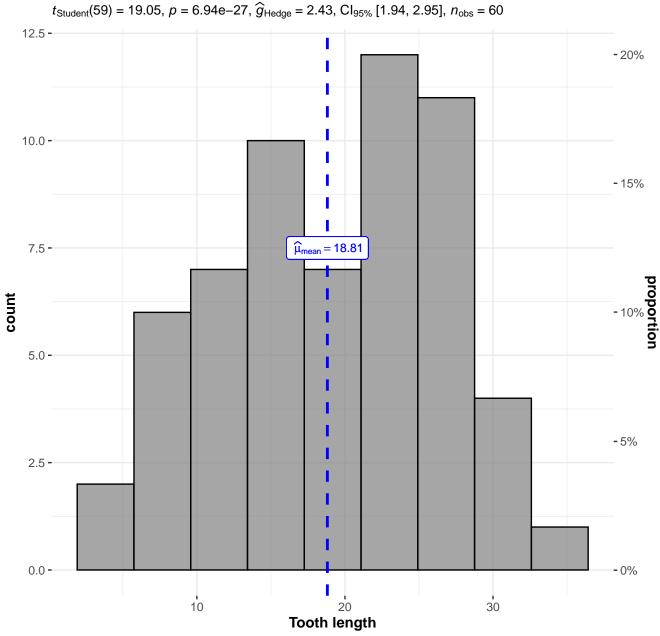
Fuel economy data

 $t_{\text{Student}}(14) = 1.47, p = 0.163, \hat{g}_{\text{Hedge}} = 0.36, \text{Cl}_{95\%} [-0.15, 0.88], n_{\text{obs}} = 15$

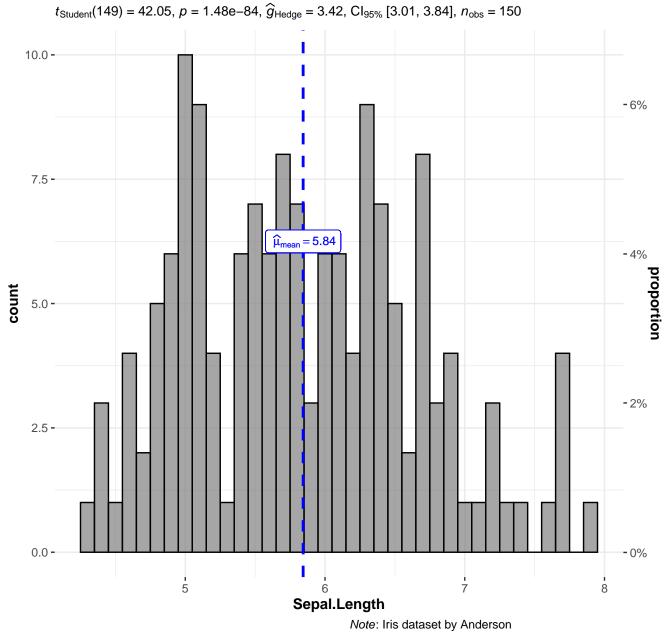


Source: EPA dataset on http://fueleconomy.gov

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

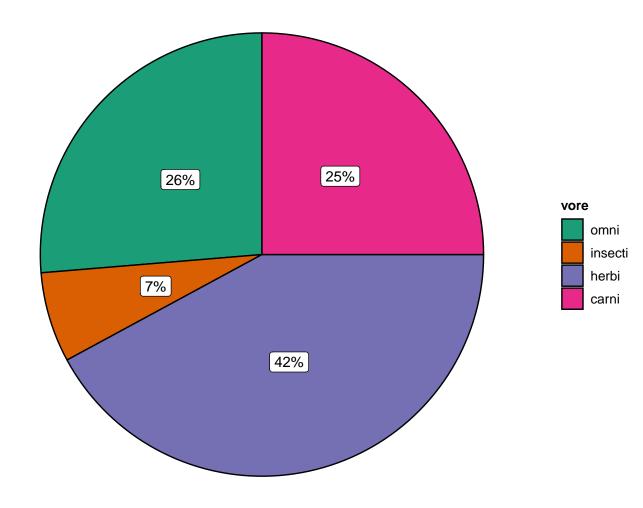


 $log_{e}(BF_{01}) = -54.54, \ \widehat{\delta}_{median}^{posterior} = -18.75, \ Cl_{95\%}^{HDI} \ [-20.73, \, -16.70], \ r_{Cauchy}^{JZS} = 0.71$

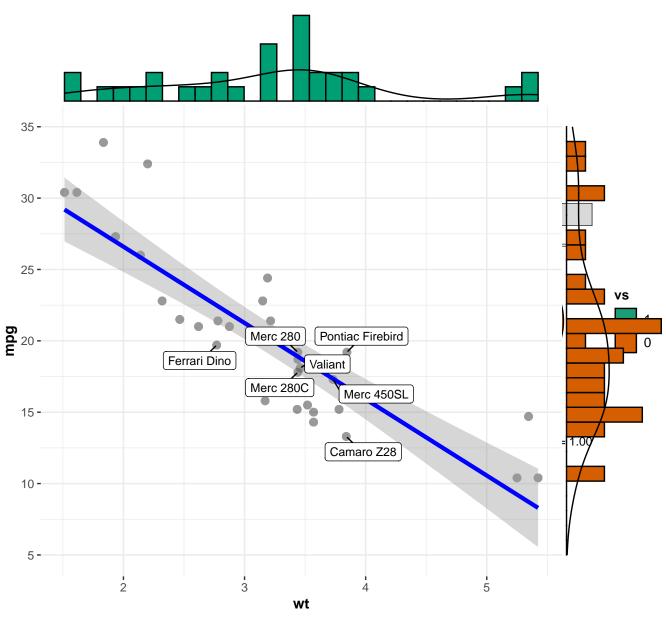


 $log_{e}(BF_{01}) = -186.14, \ \widehat{\delta}_{median}^{posterior} = -2.84, \ CI_{95\%}^{HDI} \ [-2.97, \ -2.71], \ \textit{r}_{Cauchy}^{JZS} = 0.80$

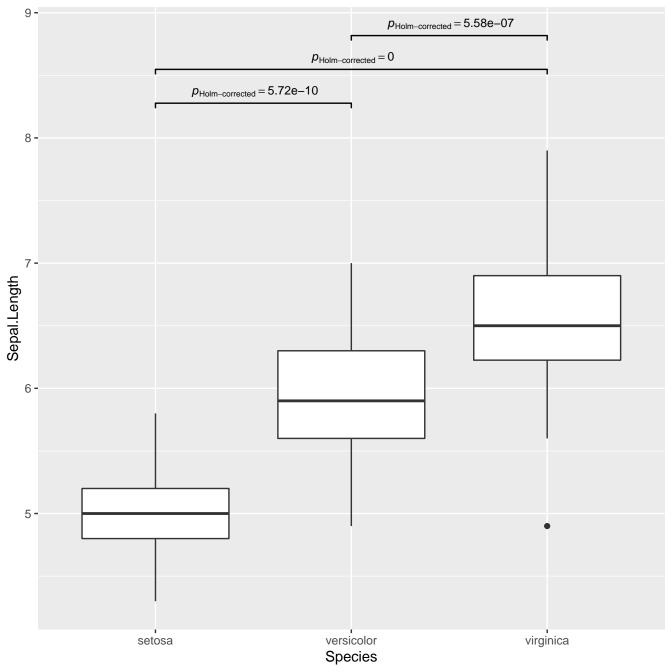
$$\chi^2_{\rm gof}(3) = 19.26, \, p = 2.41 {\rm e} - 04, \, \widehat{V}_{\rm Cramer} = 0.27, \, {\rm Cl}_{95\%} \, [0.11, \, 0.38], \, n_{\rm obs} = 76$$

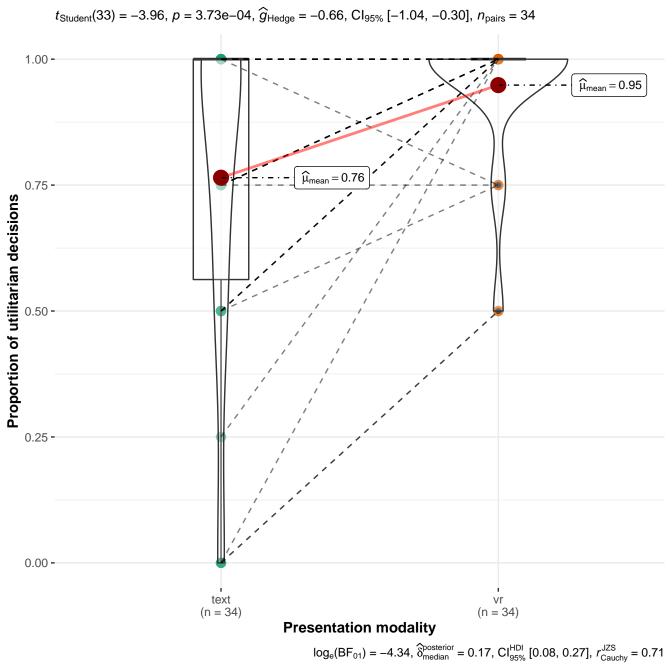


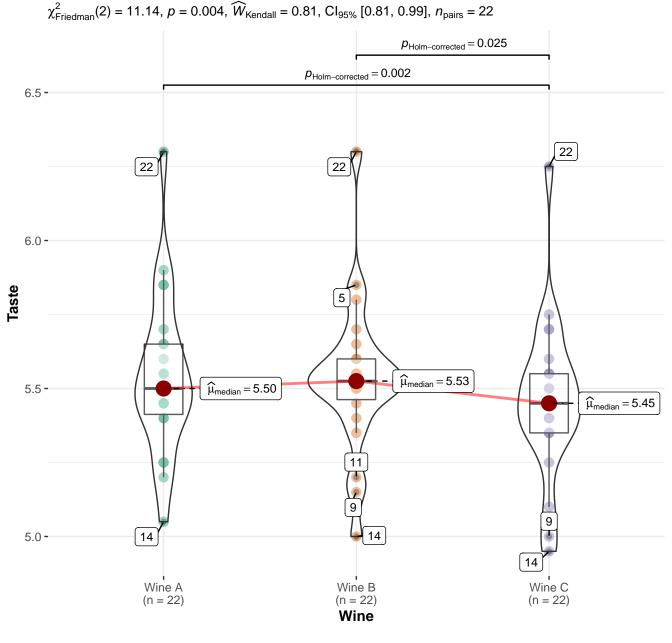
 $log_e(BF_{01}) = -3.74$, $a_{Gunel-Dickey} = 1.00$



 $log_{e}(BF_{01}) = -17.84, \; \widehat{\rho}_{median}^{posterior} = -0.84, \; CI_{95\%}^{HDI} \; [-0.92, \, -0.76], \; r_{Cauchy}^{JZS} = 1.41$



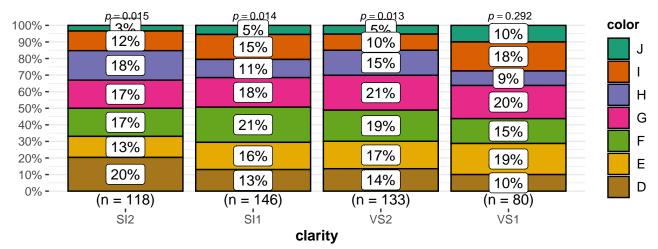




Pairwise test: Durbin-Conover test; Comparisons shown: only significant

Quality: Very Good

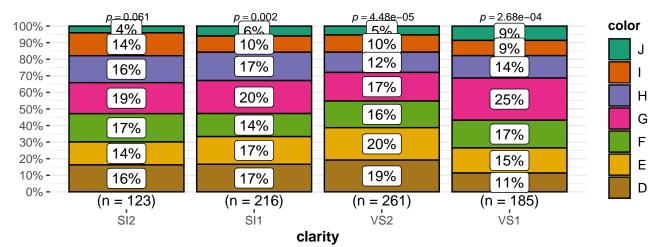
$$\chi^2_{\text{Pearson}}(18) = 17.95, \ p = 0.459, \ \widehat{V}_{\text{Cramer}} = 0.00, \ \text{Cl}_{95\%} \ [0.00, 0.00], \ n_{\text{obs}} = 477$$



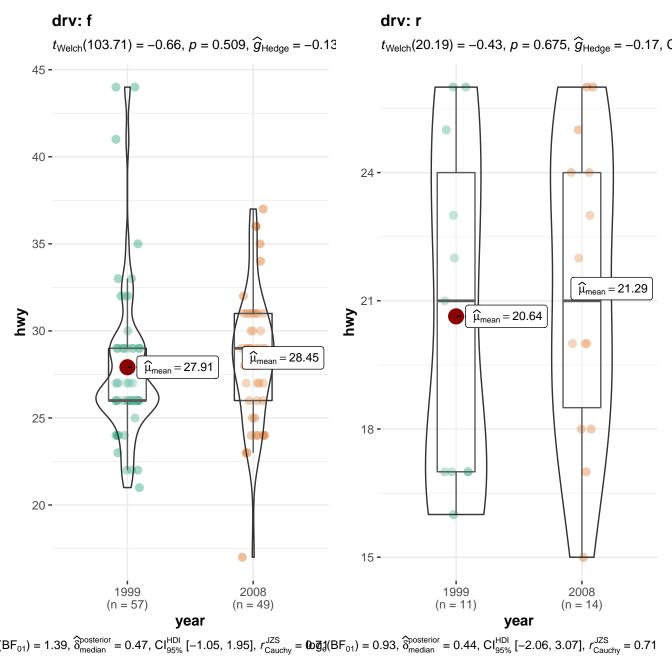
 $log_{e}(BF_{01}) = 16.13, \ \widehat{V}_{median}^{posterior} = 0.15, \ Cl_{95\%}^{HDI} \ [0.11, \ 0.19], \ a_{Gunel-Dickey} = 1.00$

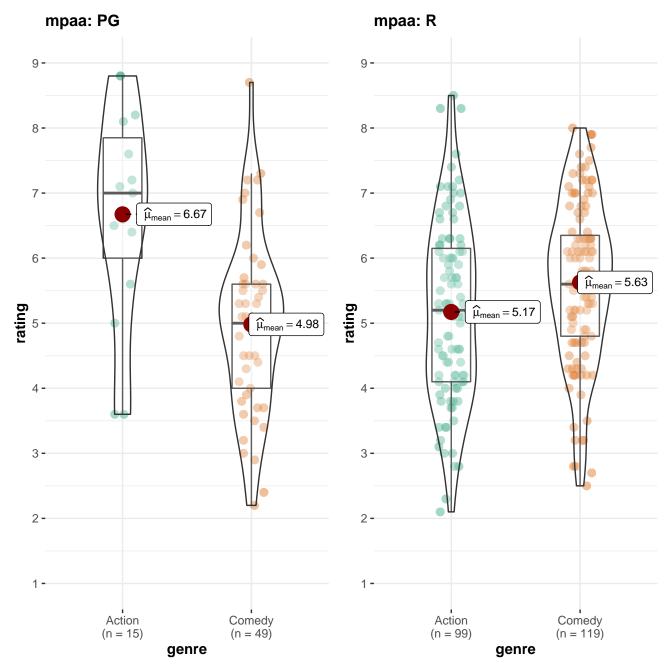
Quality: Ideal

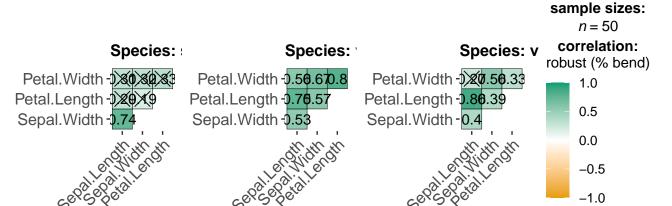
$$\chi^2_{\text{Pearson}}(18) = 17.85, p = 0.466, \hat{V}_{\text{Cramer}} = 0.00, \text{Cl}_{95\%} [0.00, 0.00], n_{\text{obs}} = 785$$



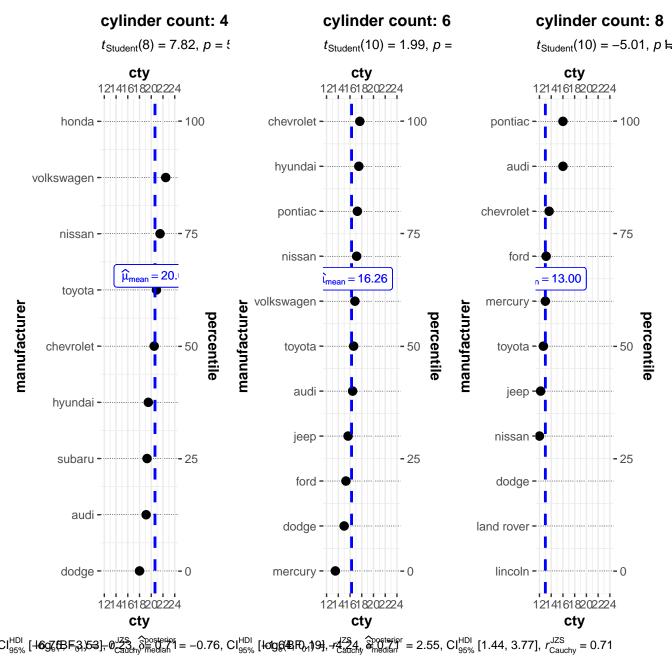
 $log_e(BF_{01}) = 20.36$, $\widehat{V}_{median}^{posterior} = 0.12$, $Cl_{95\%}^{HDI}$ [0.09, 0.15], $a_{Gunel-Dickey} = 1.00$

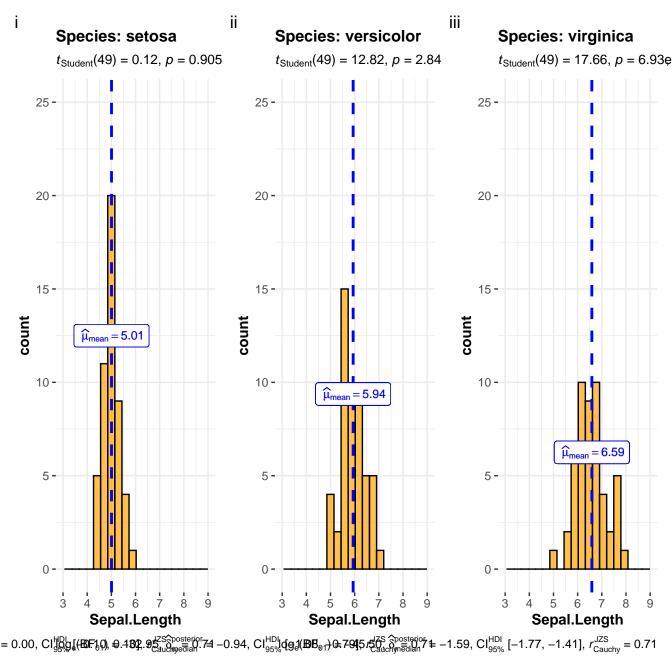




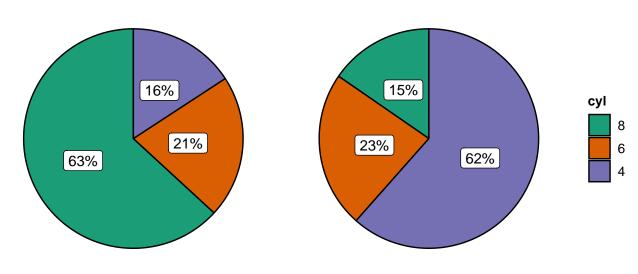


nt at p < 0.05 (AMC) justomerstightibilica) nt at p < 0.05 (AMC) justomerstightibilica) nt at p < 0.05 (Adjustment: Holm)





am: 0 am: 1



genre: Comedy

 $t_{\text{Student}}(258) = 5.20, p = 4.02e-07, \hat{r}_{\text{Pearsor}}$

genre: Drama

 $t_{\text{Student}}(426) = 10.38, p = 1.19e-22, \hat{r}_{\text{Pears}}$

