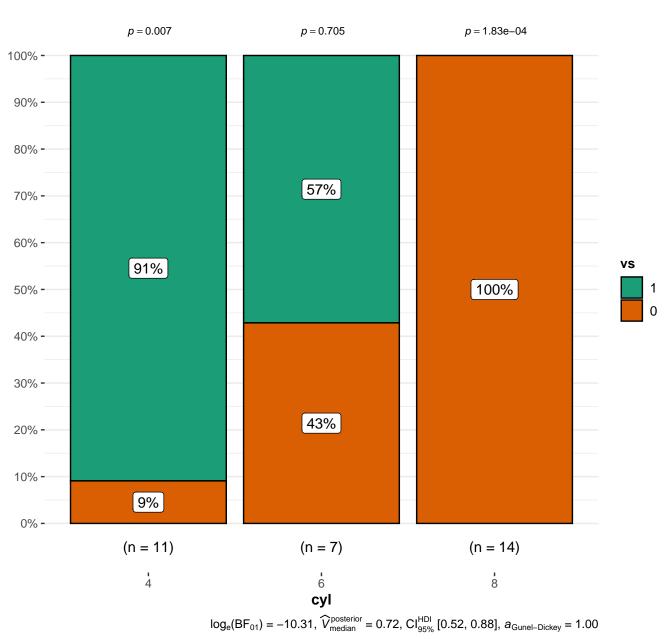


Dataset: Iris Flower dataset Edgar Anderson collected this data b а versicolor setosa 4.5 -4.0 -3.0 -Sepal.Width 3.5 **-**Sepal.Width 2.5 -3.0 -2.5 -2.0 -4.5 5.0 5.5 5.5 5.0 6.0 6.5 7.0 Sepal.Length Sepal.Length

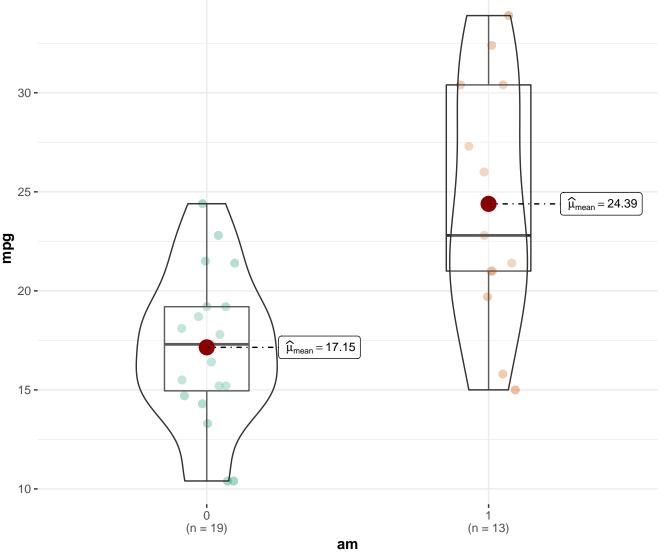
Note: Only two species of flower are displayed

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



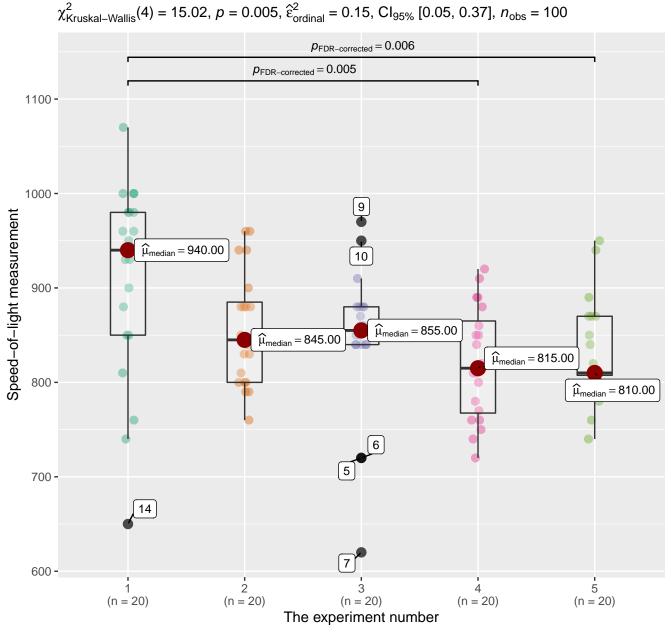
Fuel efficiency by type of car transmission

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

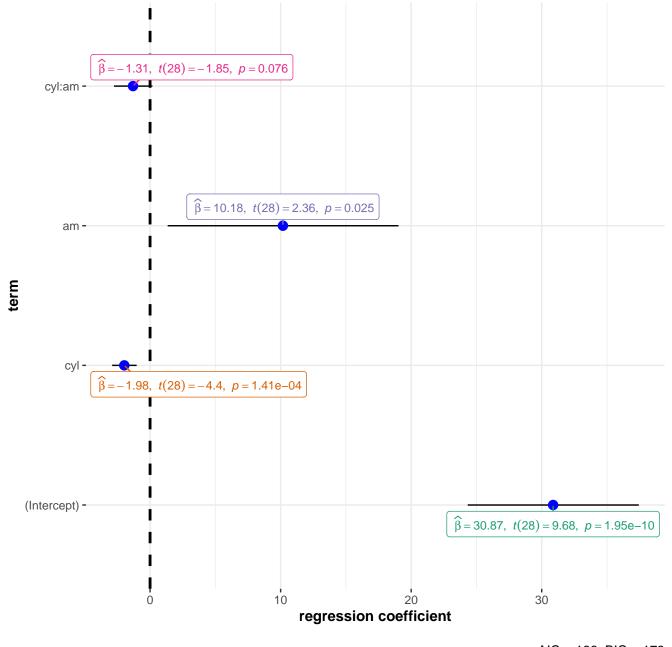


Transmission (0 = automatic, 1 = manual)

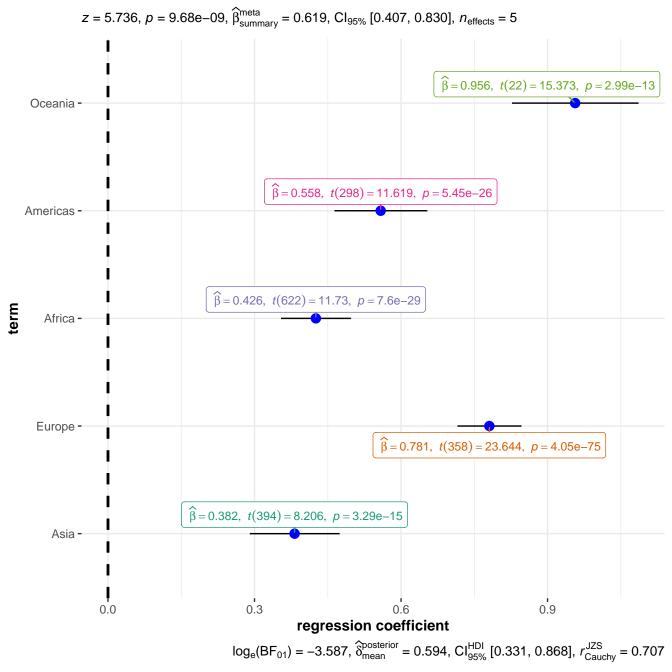
 $log_{e}(BF_{01}) = -4.46, \ \widehat{\delta}_{median}^{posterior} = 6.44, \ Cl_{95\%}^{HDI} \ [2.68, \ 10.05], \ r_{Cauchy}^{JZS} = 0.71$

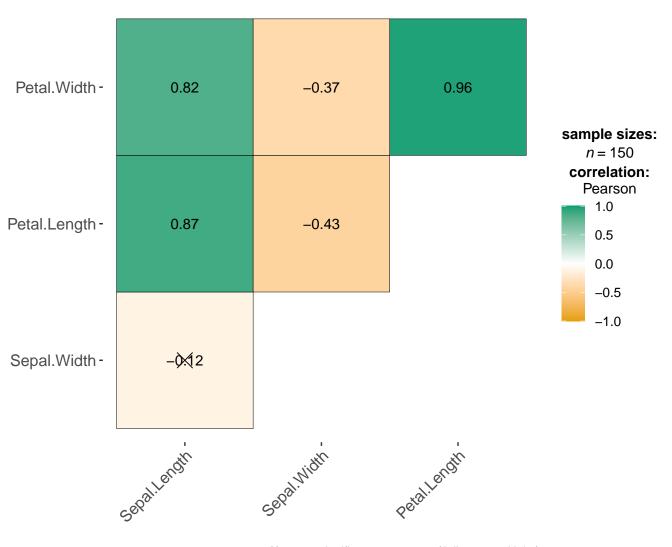


Pairwise test: Dunn test; Comparisons shown: only significant

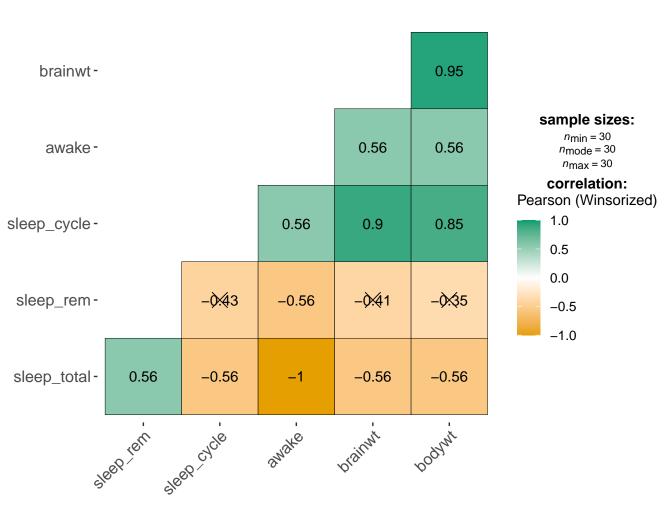


AIC = 166, BIC = 173





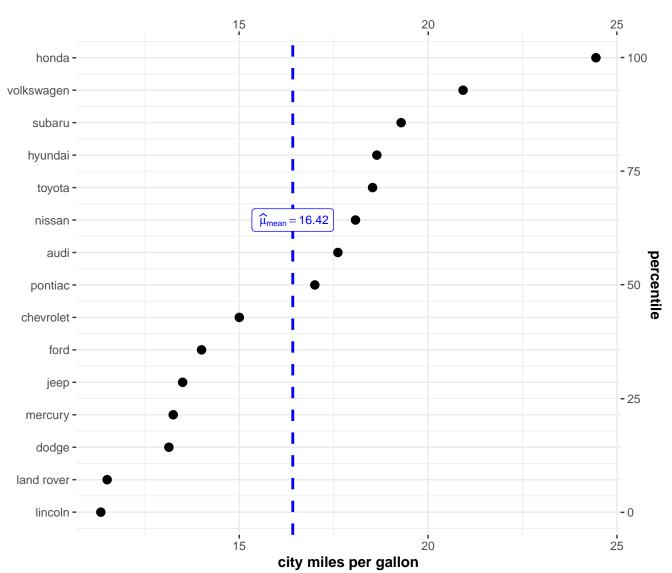
X = non-significant at p < 0.05 (Adjustment: Holm)



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

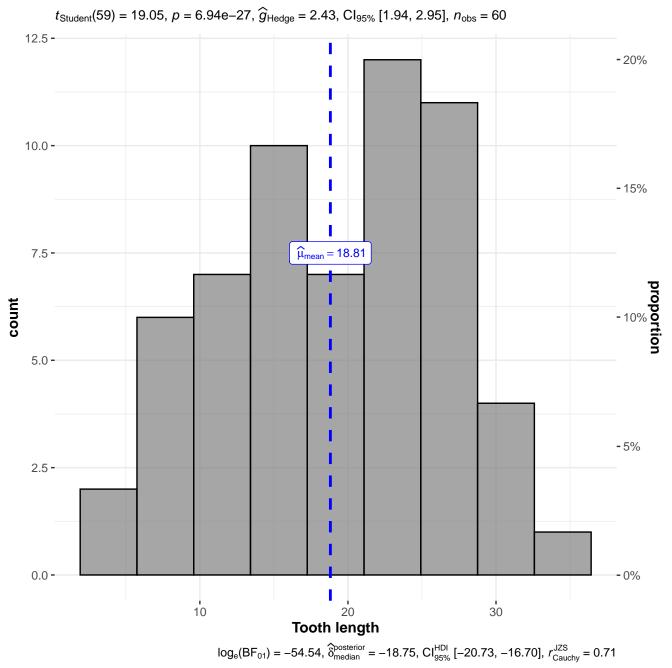
Fuel economy data

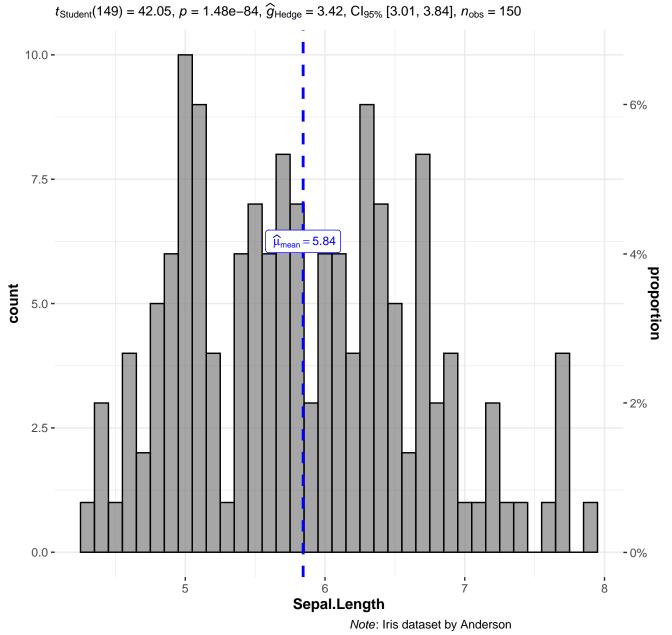
 $t_{\text{Student}}(14) = 17.07, p = 9.07e-11, \hat{g}_{\text{Hedge}} = 4.17, \text{Cl}_{95\%} [2.65, 5.96], n_{\text{obs}} = 15$



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

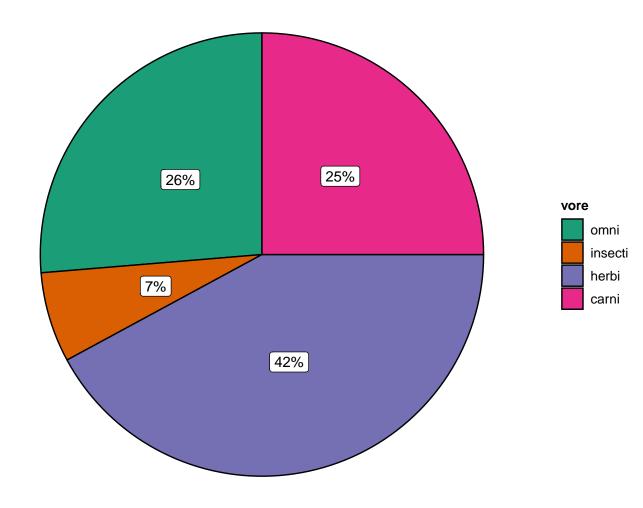
 $log_{e}(BF_{01}) = -18.28, \ \widehat{\delta}_{median}^{posterior} = -16.26, \ CI_{95\%}^{HDI} \ [-18.38, -14.20], \ r_{Cauchy}^{JZS} = 0.71$



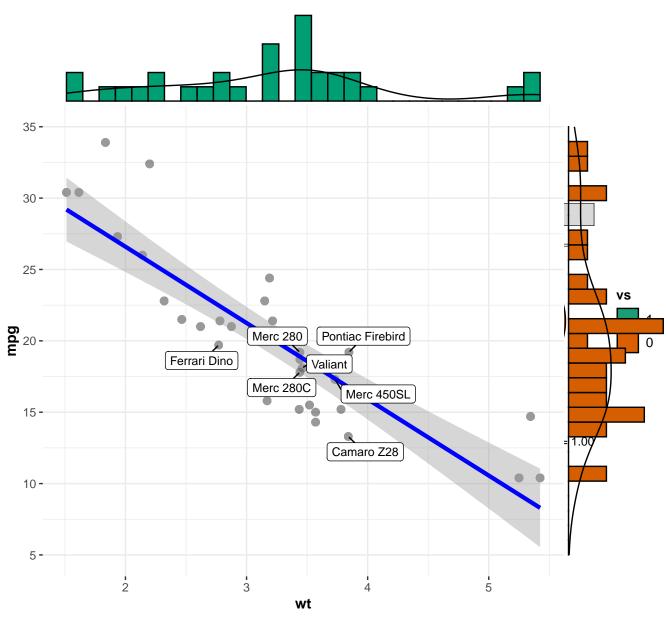


 $log_{e}(BF_{01}) = -186.14, \ \widehat{\delta}_{median}^{posterior} = -2.84, \ CI_{95\%}^{HDI} \ [-2.97, \, -2.71], \ \textit{r}_{Cauchy}^{JZS} = 0.80$

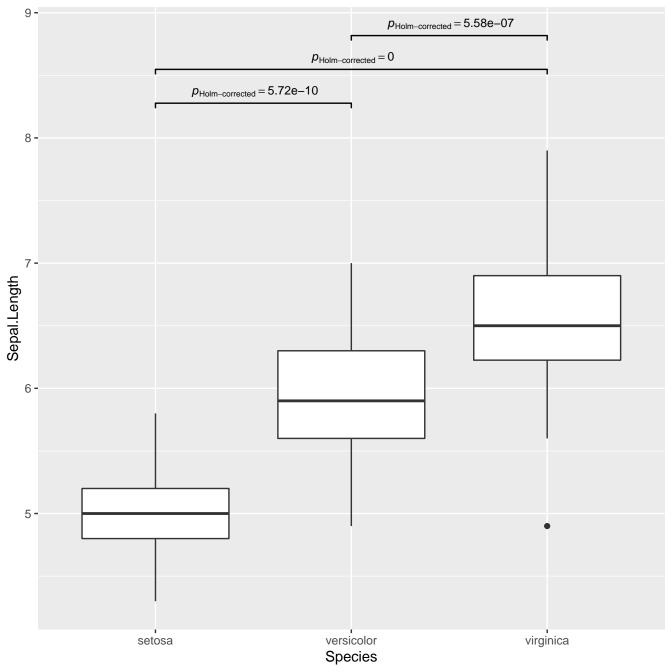
$$\chi^2_{\rm gof}(3) = 19.26, \, p = 2.41 {\rm e} - 04, \, \widehat{V}_{\rm Cramer} = 0.27, \, {\rm Cl}_{95\%} \, [0.11, \, 0.38], \, n_{\rm obs} = 76$$

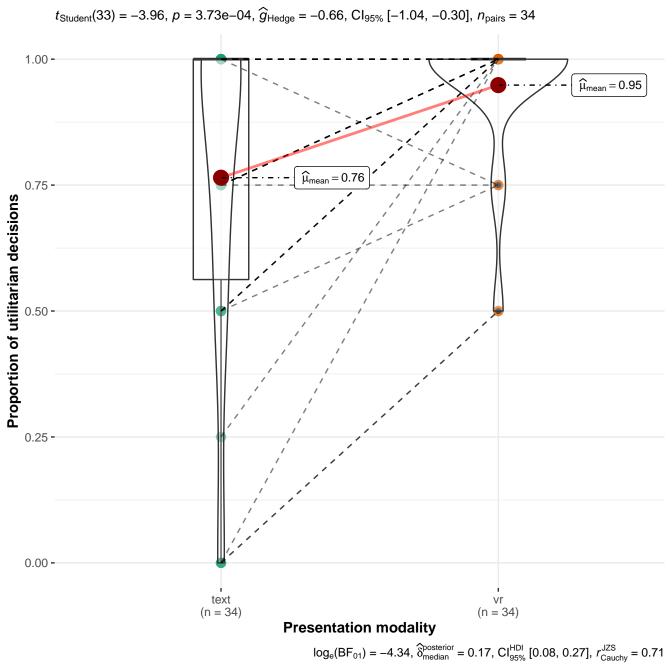


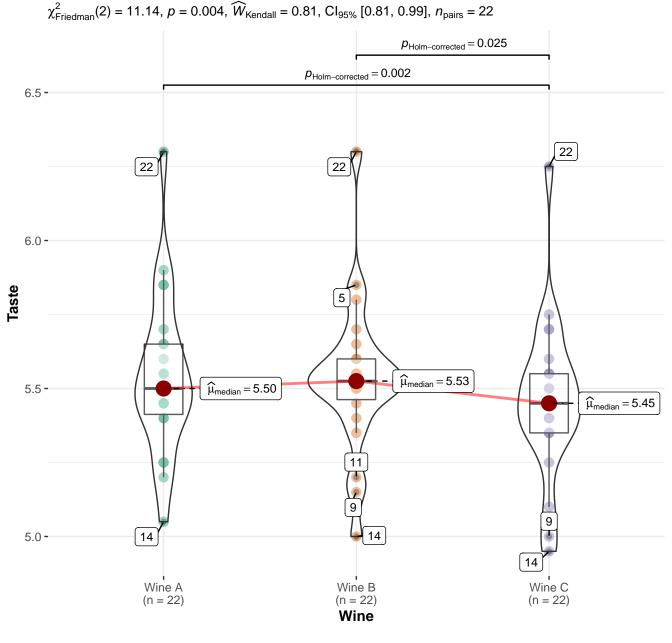
 $log_e(BF_{01}) = -3.74$, $a_{Gunel-Dickey} = 1.00$



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



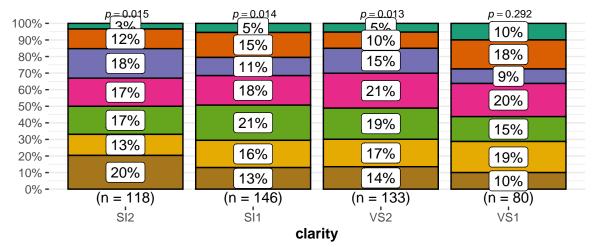




Pairwise test: Durbin-Conover test; Comparisons shown: only significant

Quality: Very Good

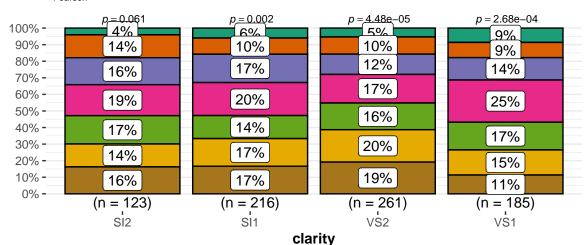
$$\chi^2_{\text{Pearson}}(18) = 17.95, p = 0.459, \hat{V}_{\text{Cramer}} = 0.00, \text{Cl}_{95\%} [0.00, 0.00], n_{\text{obs}} = 477$$



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

Quality: Ideal

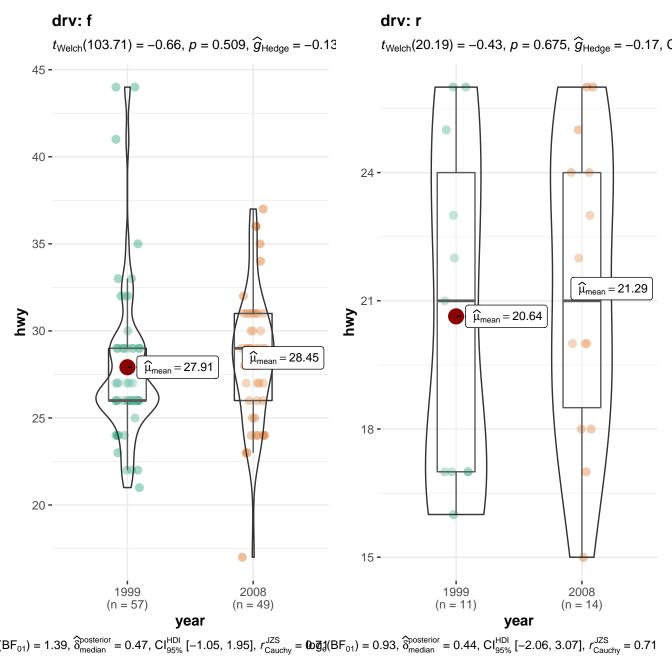
$$\chi^2_{\text{Pearson}}(18) = 17.85, p = 0.466, \hat{V}_{\text{Cramer}} = 0.00, \text{Cl}_{95\%} [0.00, 0.00], n_{\text{obs}} = 785$$

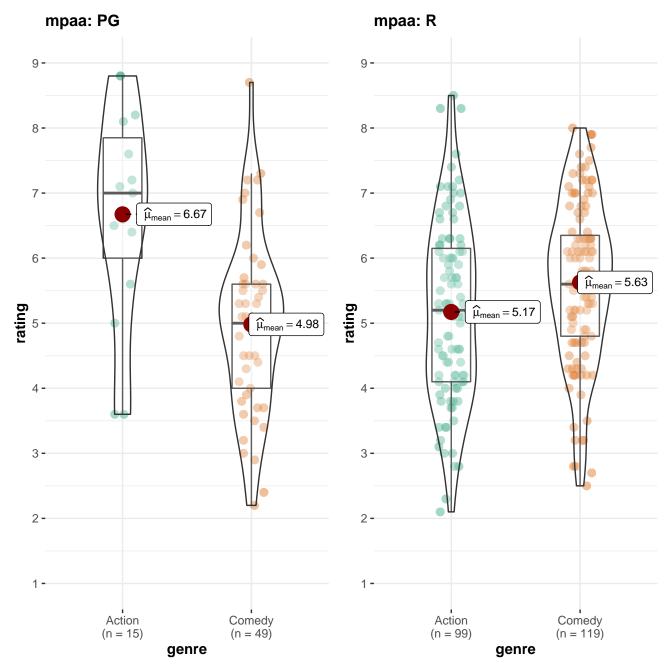


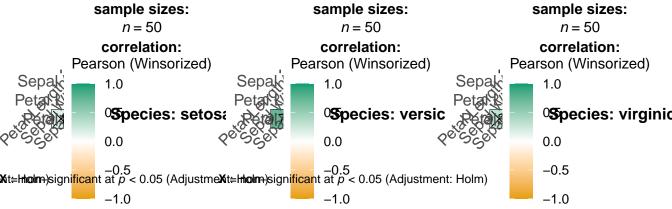
 $log_e(BF_{01}) = 20.36$, $\widehat{V}_{median}^{posterior} = 0.12$, $Cl_{95\%}^{HDI}$ [0.09, 0.15], $a_{Gunel-Dickey} = 1.00$

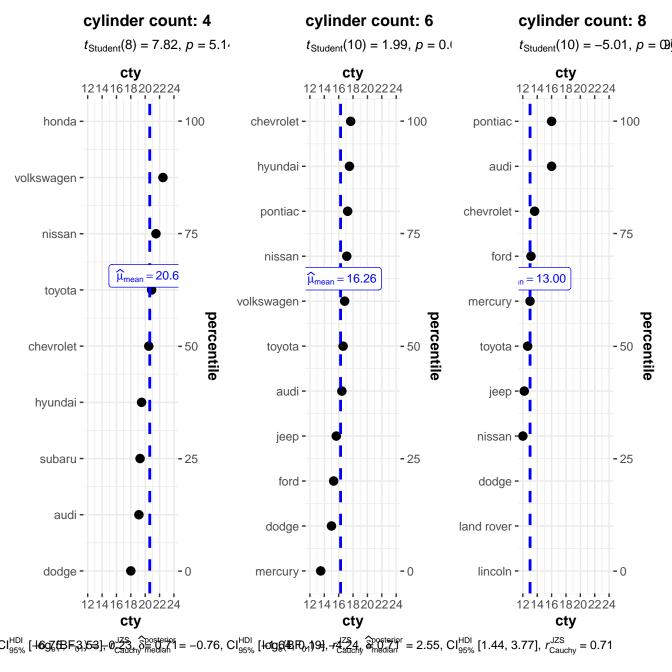
Color J I H

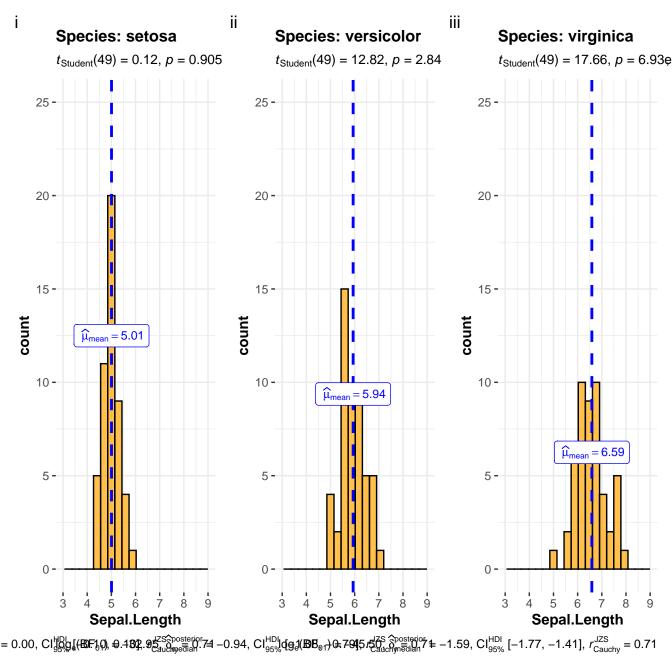
> G F E D







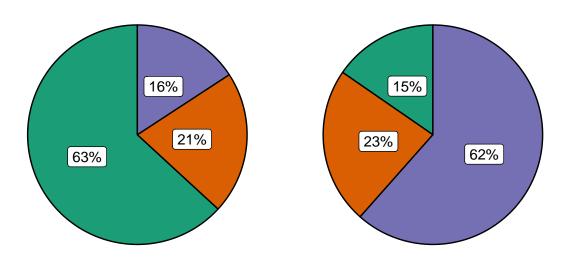




am: 0

$$\chi^2_{\text{gof}}(2) = 7.68, \ p = 0.021, \ \widehat{V}_{\text{Cramer}} = 0.41, \ \text{Cl}_{95\%} \ [\text{(} \quad \chi^2_{\text{gof}}(2) = 4.77, \ p = 0.092, \ \widehat{V}_{\text{Cramer}} = 0.35, \ \text{Cl}_{95\%} \ [\text{(}0.00, \ 0.66], \ r = 0.092, \ \text{(}0.00, \ 0.66], \ \text{(}0.00, \ 0.$$

am: 1



 $log_e(BF_{01}) = -0.13$, $a_{Gunel-Dickey} = 1.00$

 $log_e(BF_{01}) = 0.82, a_{Gunel-Dickey} = 1.00$

cyl

6

genre: Comedy

 $t_{\text{Student}}(258) = 5.88, p = 1.28e-08, \hat{r}_{\text{Winsori}}$

genre: Drama

 $t_{\text{Student}}(426) = 9.63, p = 5.66e-20, \hat{r}_{\text{Winsori}}$

