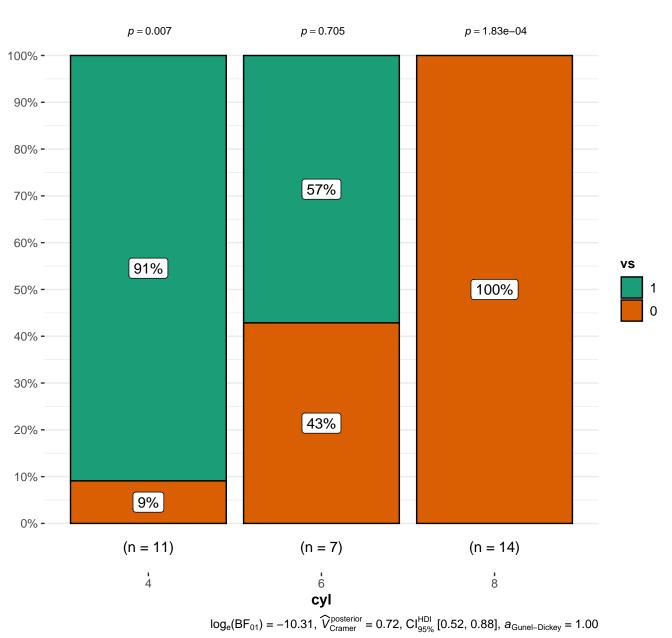
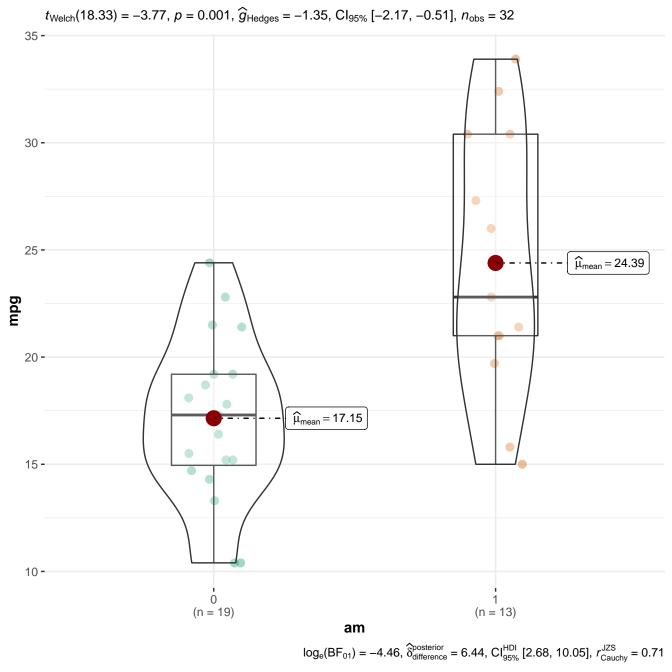
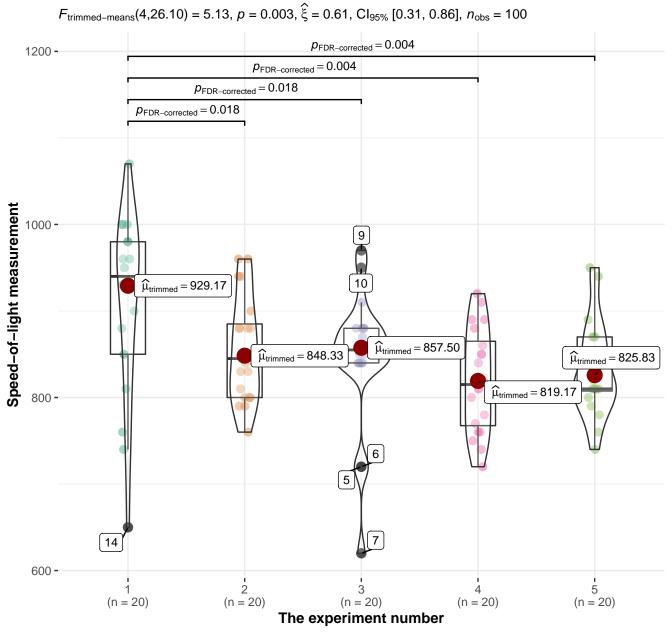
Dataset: Iris Flower dataset Edgar Anderson collected this data b а versicolor setosa 4.5 -4.0 -3.0 -Sepal.Width 3.5 **-**Sepal.Width 2.5 -3.0 -2.5 -2.0 -4.5 5.0 5.5 5.5 5.0 6.0 6.5 7.0 Sepal.Length Sepal.Length

Note: Only two species of flower are displayed

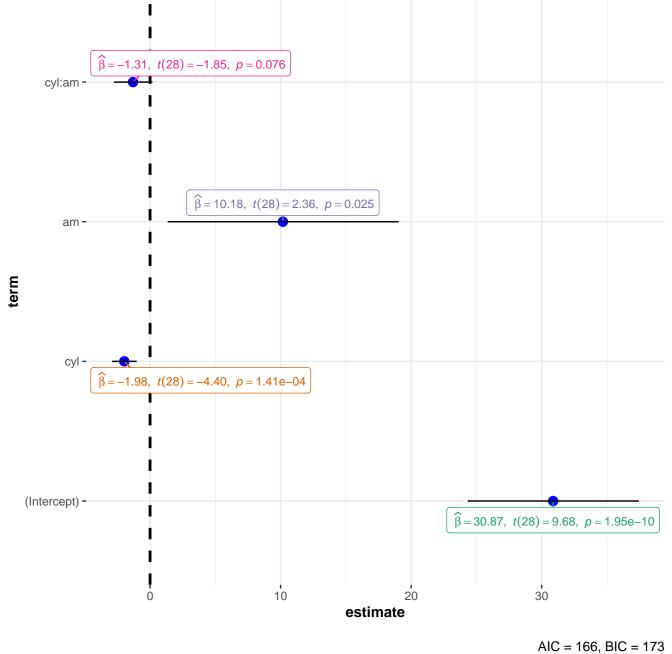
 $\chi^2_{\text{Pearson}}(2) = 21.34, p = 2.32e-05, \widehat{V}_{\text{Cramer}} = 0.79, \text{Cl}_{95\%} [0.44, 1.00], n_{\text{obs}} = 32$ 

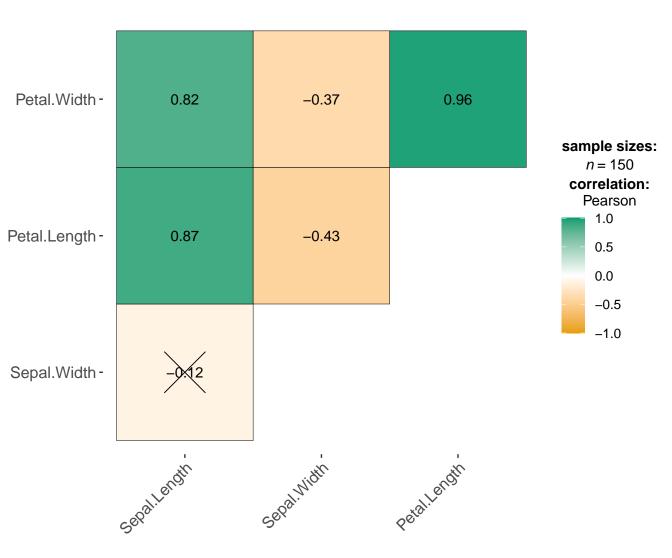






Pairwise test: Yuen's trimmed means test; Comparisons shown: only significant

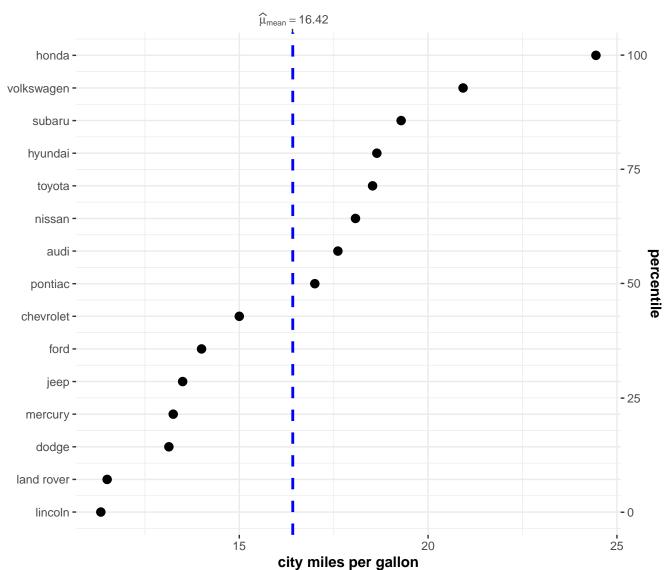




X = non-significant at p < 0.05 (Adjustment: Holm)

## Fuel economy data

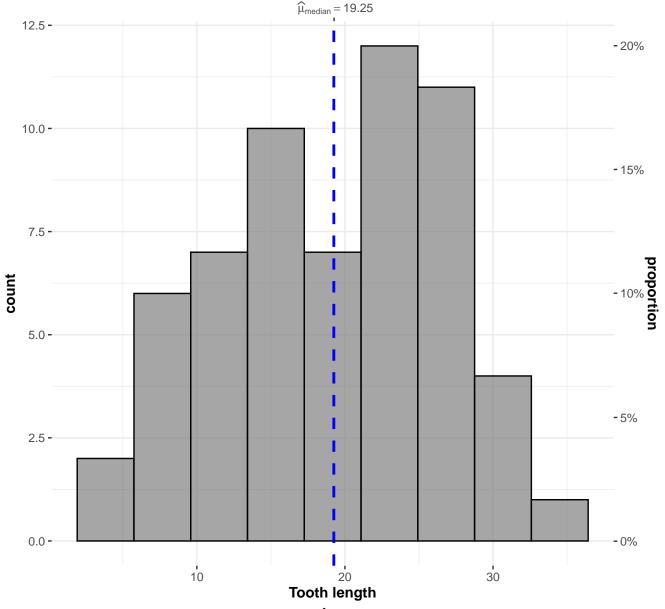
 $t_{\text{Student}}(14) = 17.07, p = 9.07e-11, \hat{g}_{\text{Hedges}} = 4.17, \text{Cl}_{95\%} [2.65, 5.96], n_{\text{obs}} = 15$ 



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

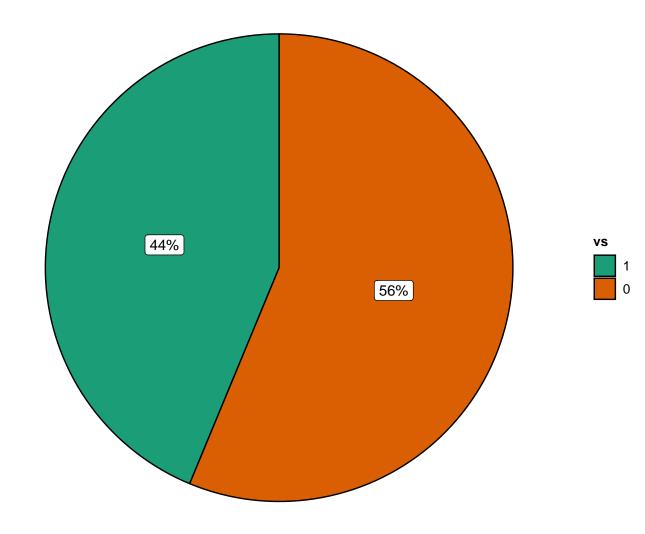
 $log_e(BF_{01}) = -18.28$ ,  $\delta_{difference}^{posterior} = -16.26$ ,  $CI_{95\%}^{HDI}$  [-18.38, -14.20],  $r_{Cauchy}^{JZS} = 0.71$ 

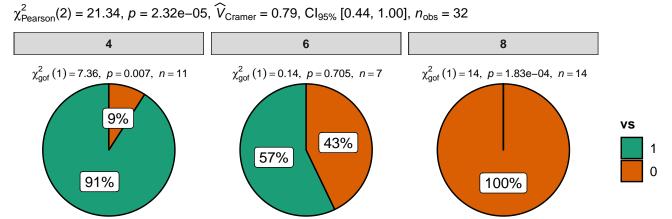
 $t_{\text{Student}}(59) = 19.05, \, p = 6.94 \text{e} - 27, \, \widehat{g}_{\text{Hedges}} = 2.43, \, \text{Cl}_{95\%} \, [1.94, \, 2.95], \, n_{\text{obs}} = 60$ 



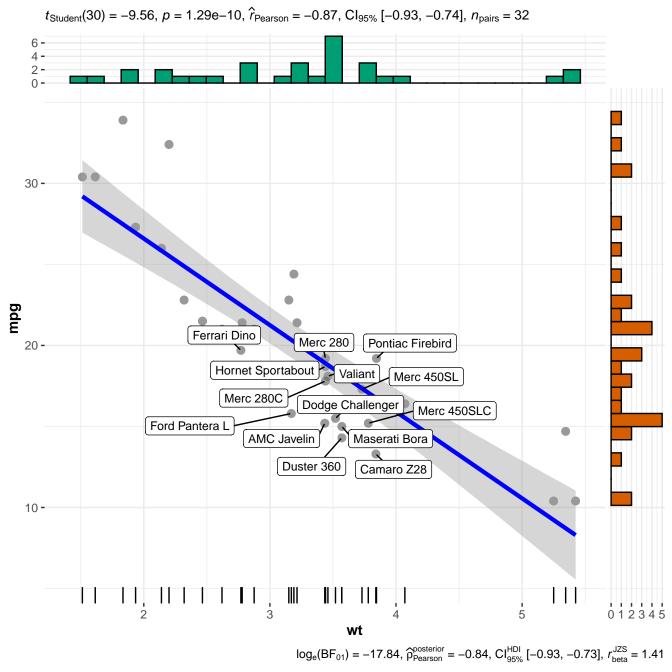
 $log_{e}(BF_{01}) = -54.54, \ \widehat{\delta}_{difference}^{posterior} = -18.68, \ CI_{95\%}^{HDI} \ [-20.65, \, -16.71], \ r_{Cauchy}^{JZS} = 0.71$ 

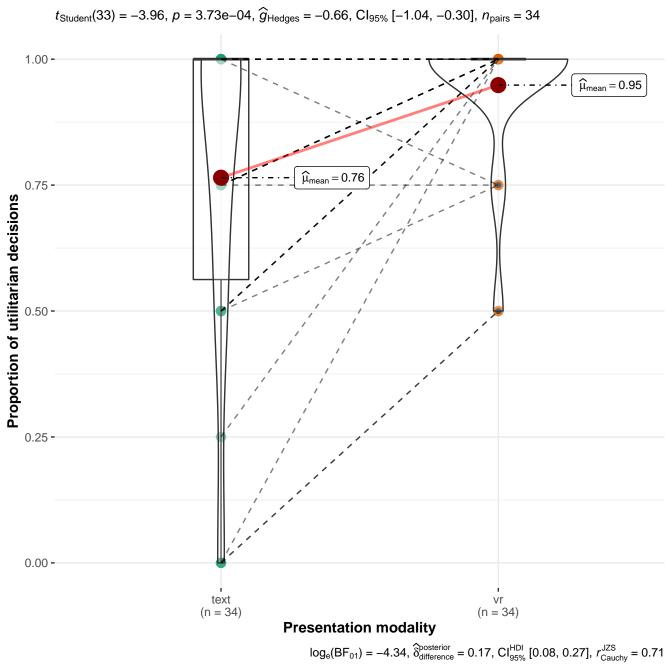
 $\chi^2_{gof}(1) = 0.50, p = 0.480, \widehat{C}_{Pearson} = 0.12, Cl_{95\%} [0.00, 1.00], n_{obs} = 32$ 

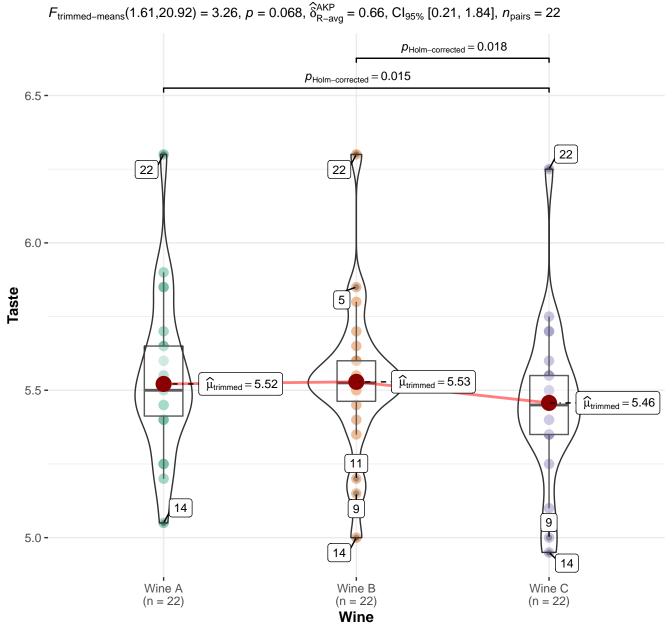




 $log_e(BF_{01}) = -10.31$ ,  $\widehat{V}_{Cramer}^{posterior} = 0.72$ ,  $CI_{95\%}^{HDI}$  [0.51, 0.87],  $a_{Gunel-Dickey} = 1.00$ 



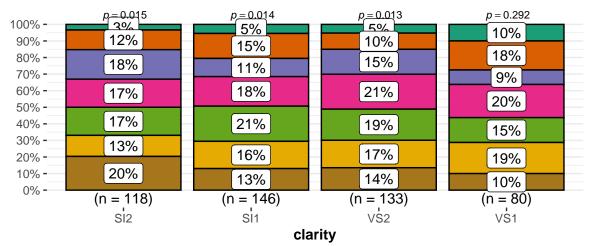




Pairwise test: Yuen's trimmed means test; Comparisons shown: only significant

## **Very Good**

$$\chi^2_{\text{Pearson}}(18) = 17.95, p = 0.459, \widehat{V}_{\text{Cramer}} = 0.00, \text{Cl}_{95\%} [0.00, 1.00], n_{\text{obs}} = 477$$



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

color

H G

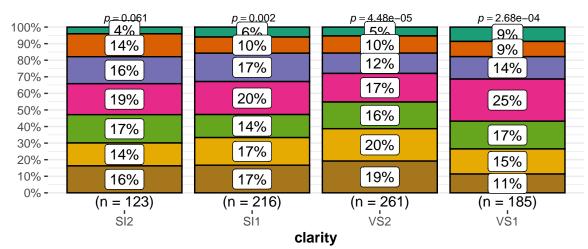
F

Ε

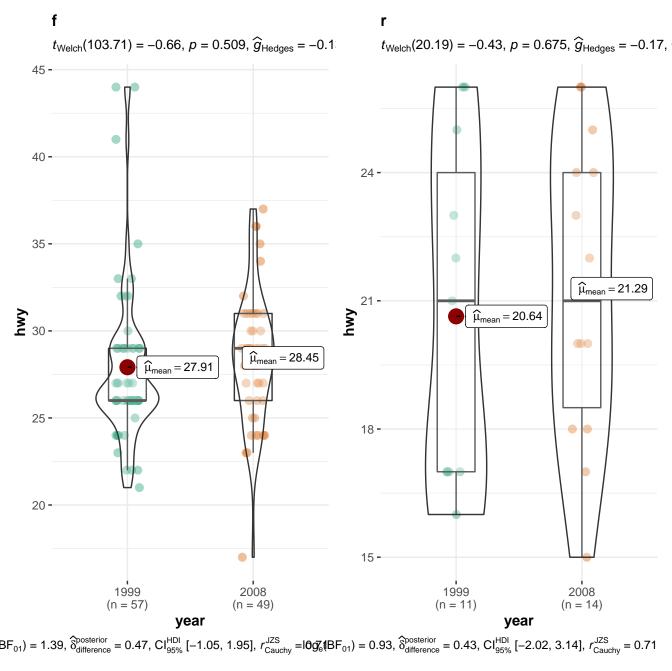
D

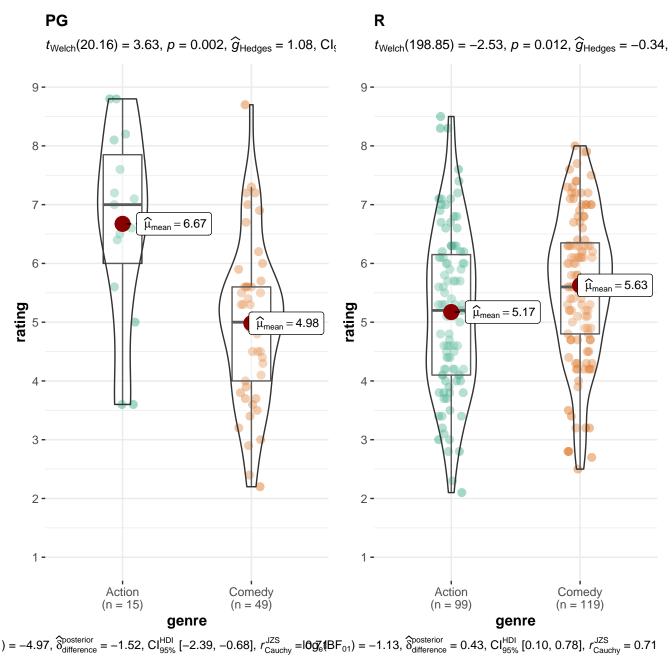
## Ideal

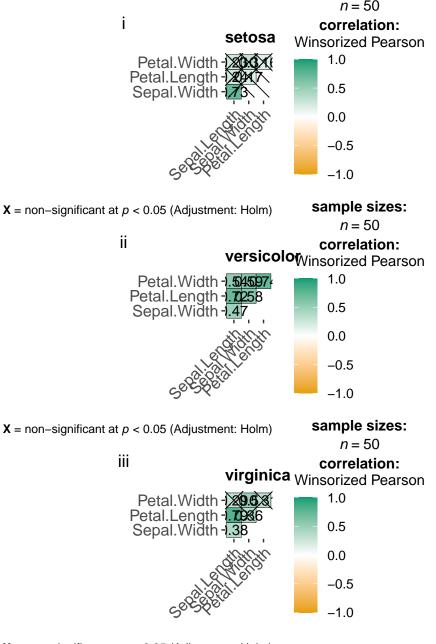
$$\chi^2_{\text{Pearson}}(18) = 17.85, p = 0.466, \hat{V}_{\text{Cramer}} = 0.00, \text{Cl}_{95\%} [0.00, 1.00], n_{\text{obs}} = 785$$



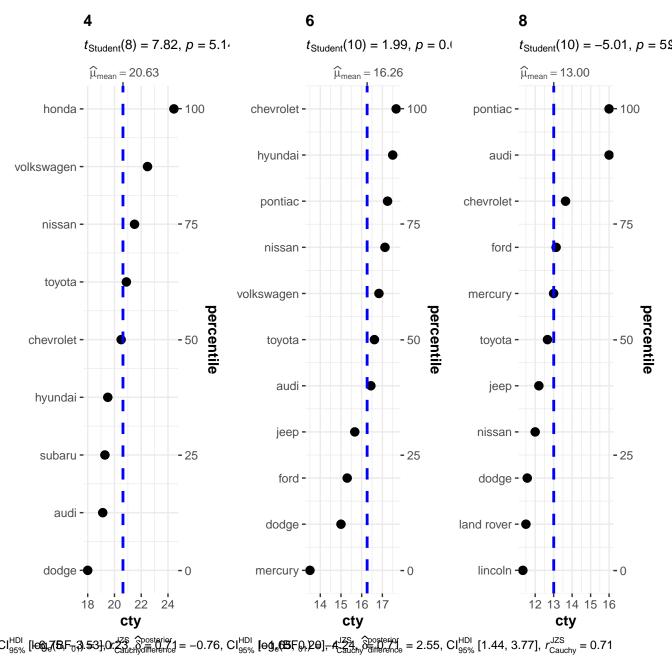
 $log_e(BF_{01}) = 20.36$ ,  $\widehat{V}_{Cramer}^{posterior} = 0.12$ ,  $Cl_{95\%}^{HDI}$  [0.09, 0.15],  $a_{Gunel-Dickey} = 1.00$ 

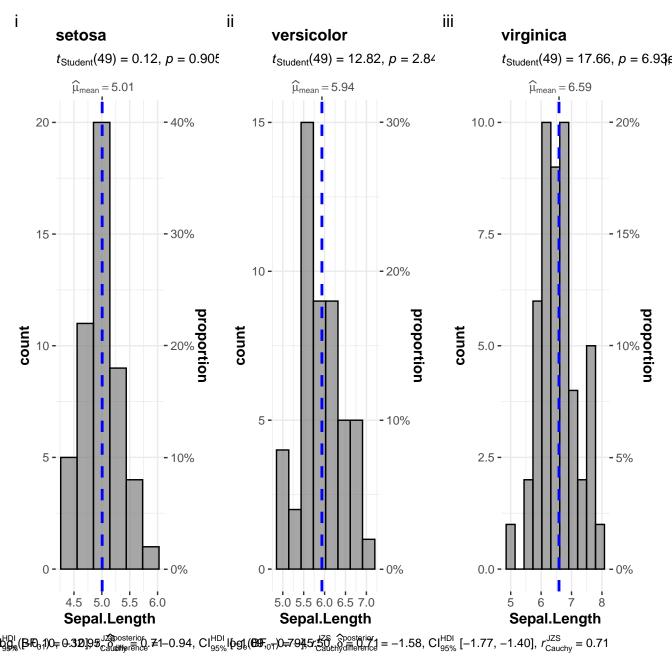






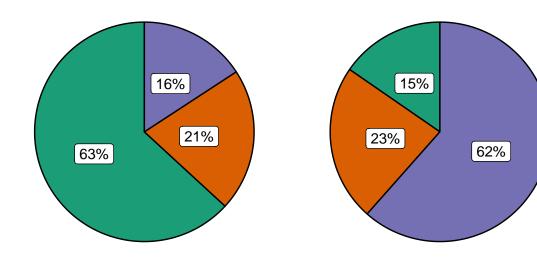
X = non-significant at p < 0.05 (Adjustment: Holm)



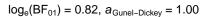


0

$$\chi_{\text{gof}}^{2}(2) = 7.68, p = 0.021, \widehat{C}_{\text{Pearson}} = 0.54, \text{Cl}_{95\%} \mid \chi_{\text{gof}}^{2}(2) = 4.77, p = 0.092, \widehat{C}_{\text{Pearson}} = 0.52, \text{Cl}_{95\%} [0.00, 1.00],$$



 $log_e(BF_{01}) = -0.16$ ,  $a_{Gunel-Dickey} = 1.00$ 



cyl

6

