

Dataset: Iris Flower dataset

(a) setosa

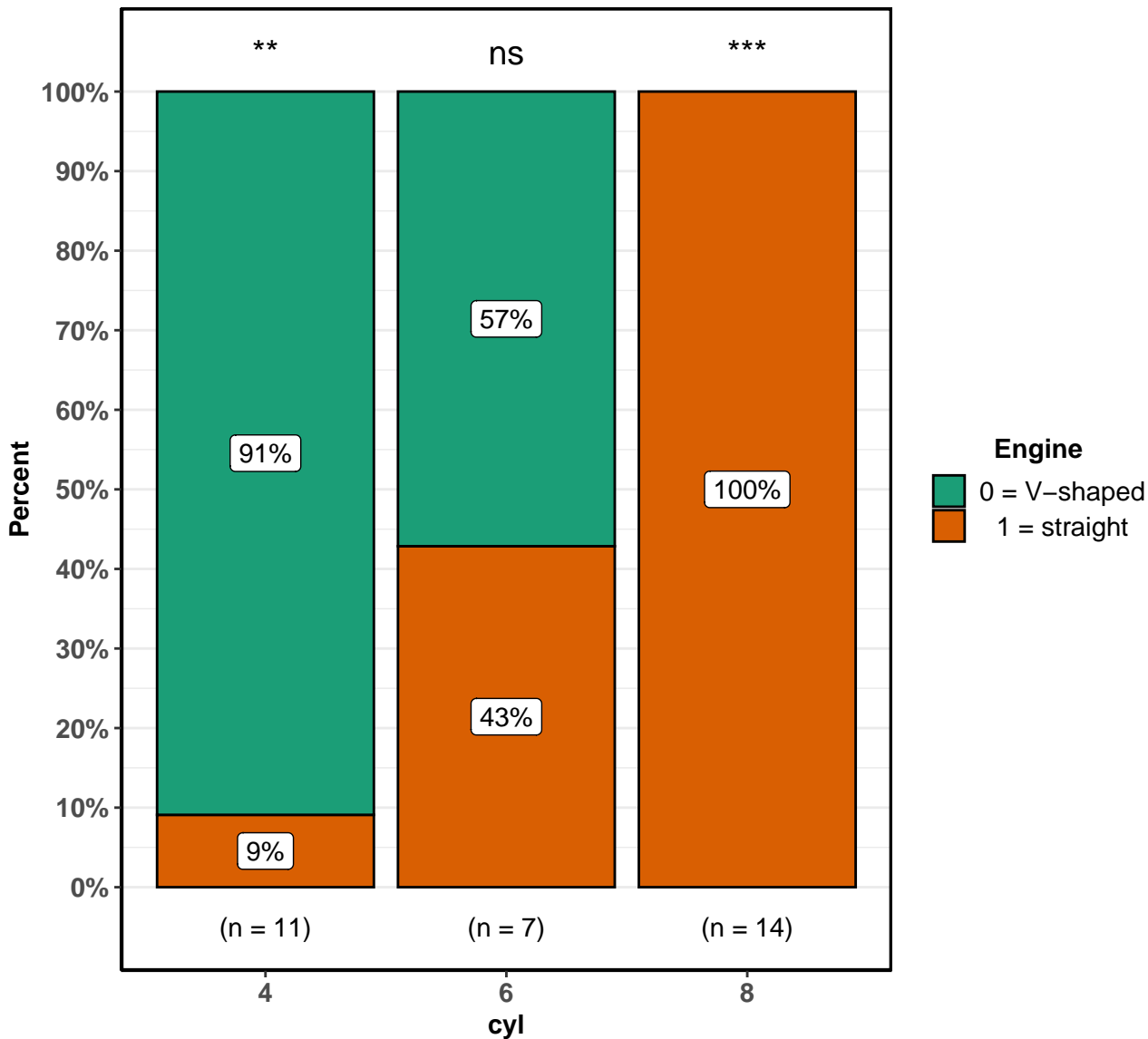


(b) versicolor



Note: Only two species of flower are displayed

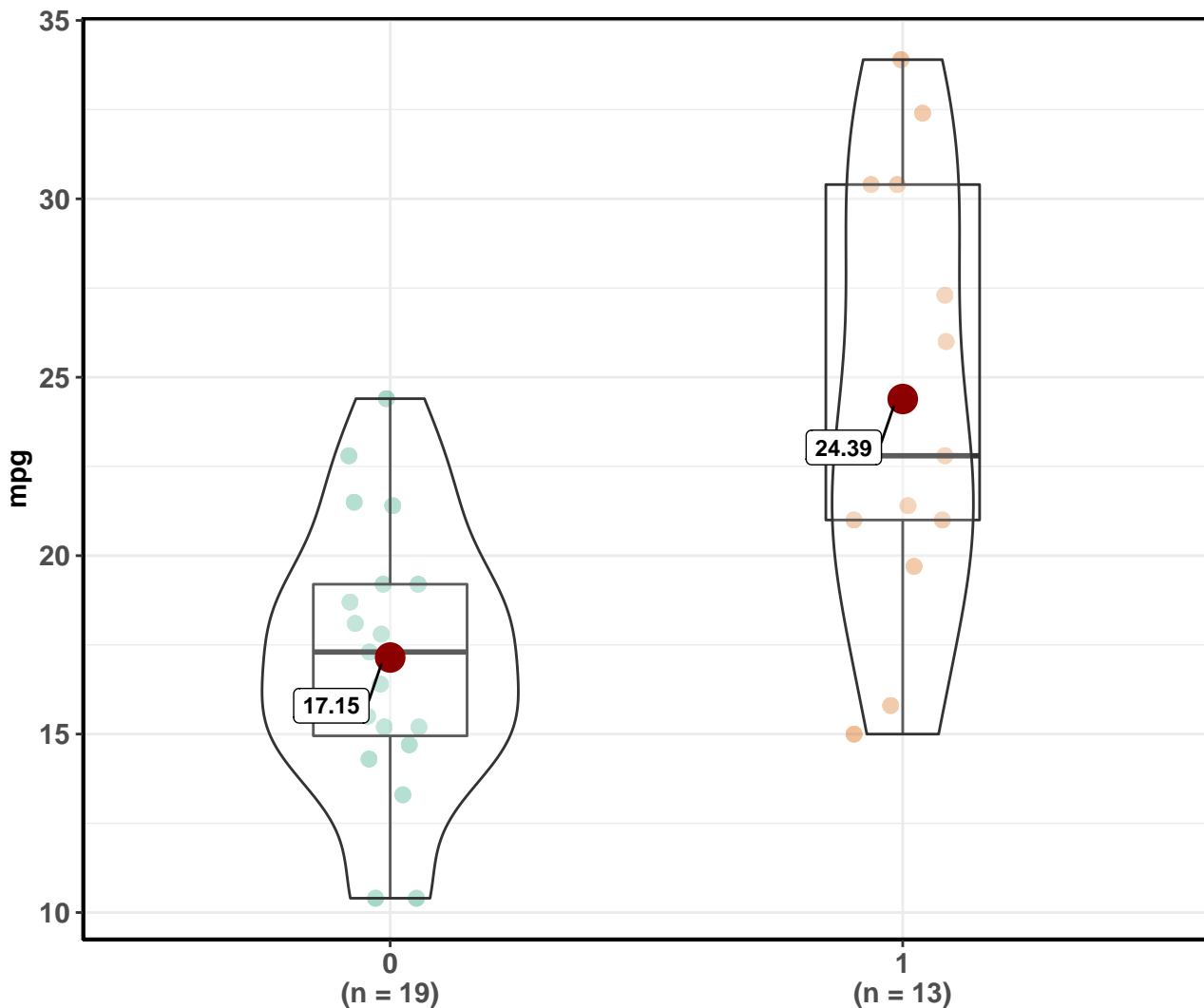
$\chi^2_{\text{Pearson}}(2) = 21.34, p = < 0.001, V_{\text{Cramer}} = 0.82, \text{CI}_{95\%} [0.41, 0.68], n = 32$



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

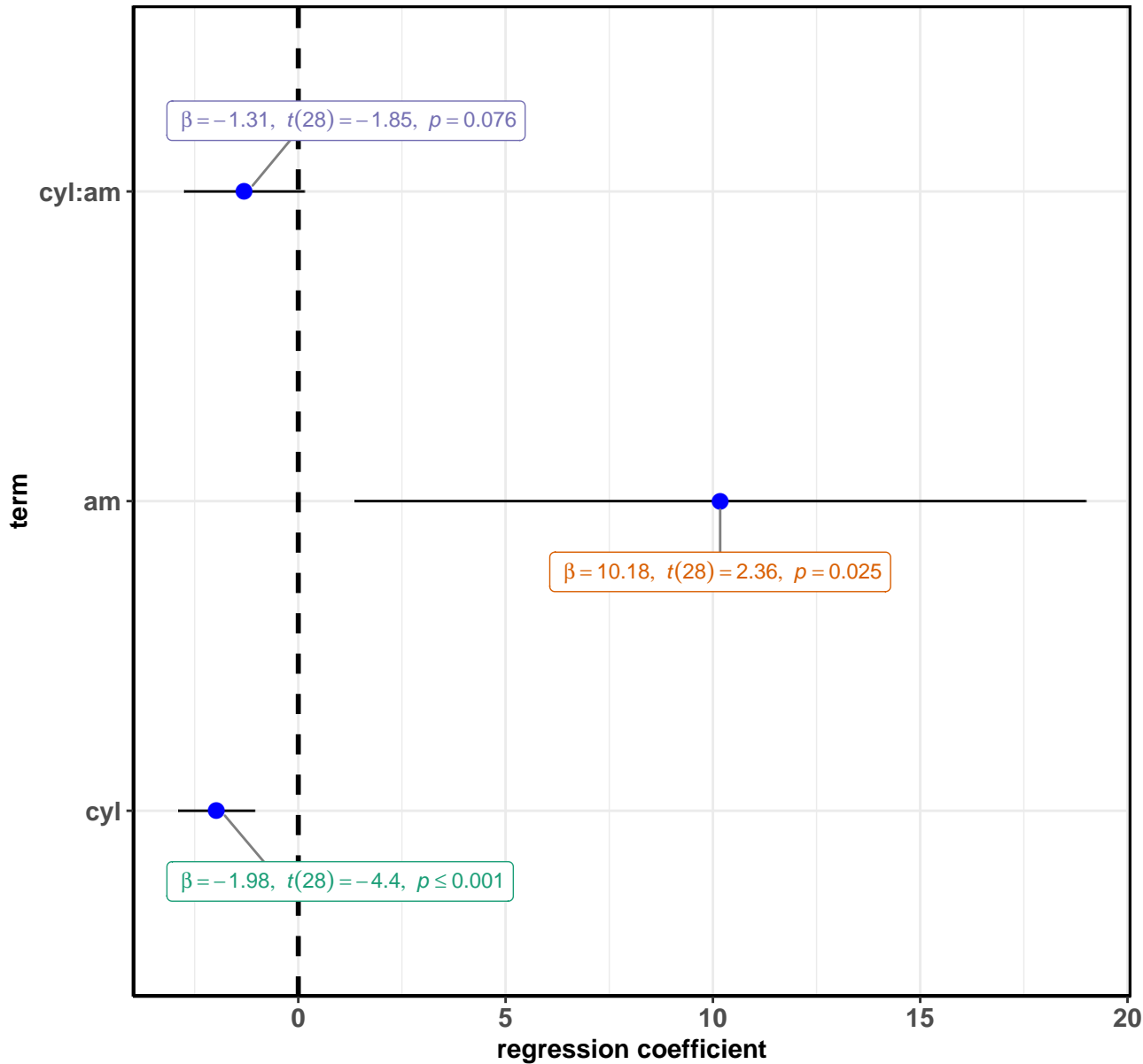
Fuel efficiency by type of car transmission

$t(18.33) = -3.77, p = 0.001, g = -1.38, \text{CI}_{95\%} [-2.17, -0.51], n = 32$

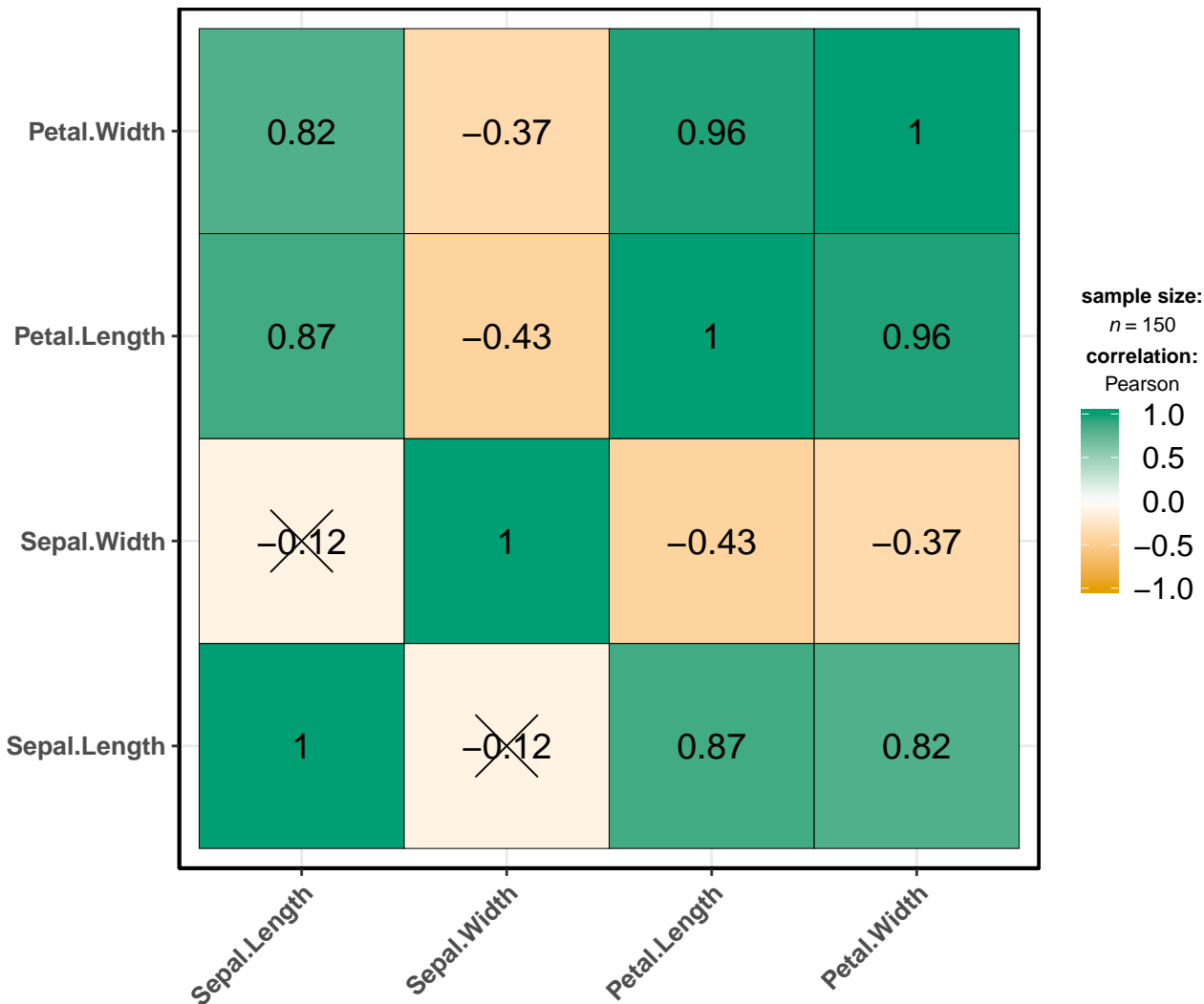


Transmission (0 = automatic, 1 = manual)

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

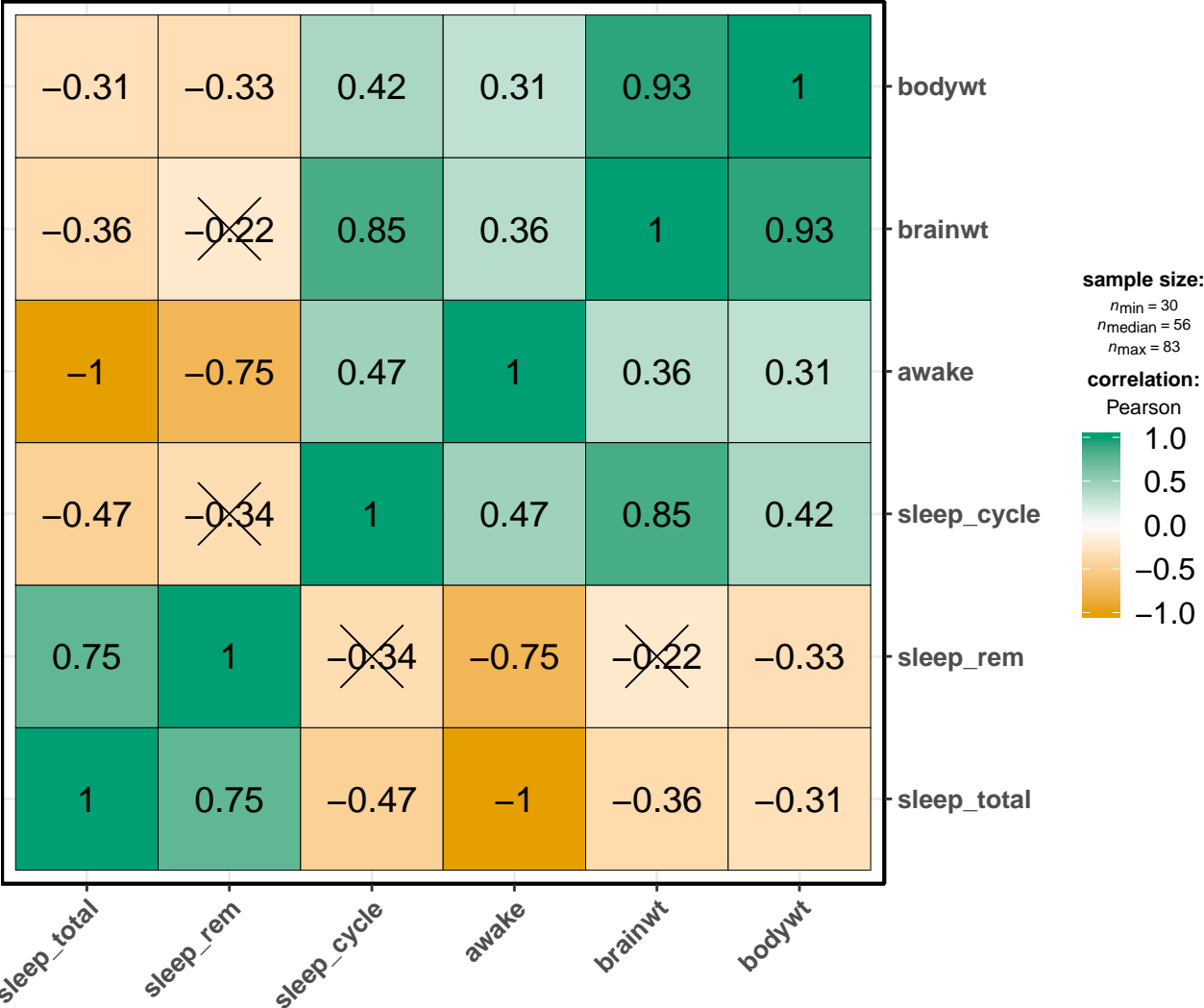


AIC = 166, BIC = 173, log-likelihood = -78



X = correlation non-significant at $p < 0.05$

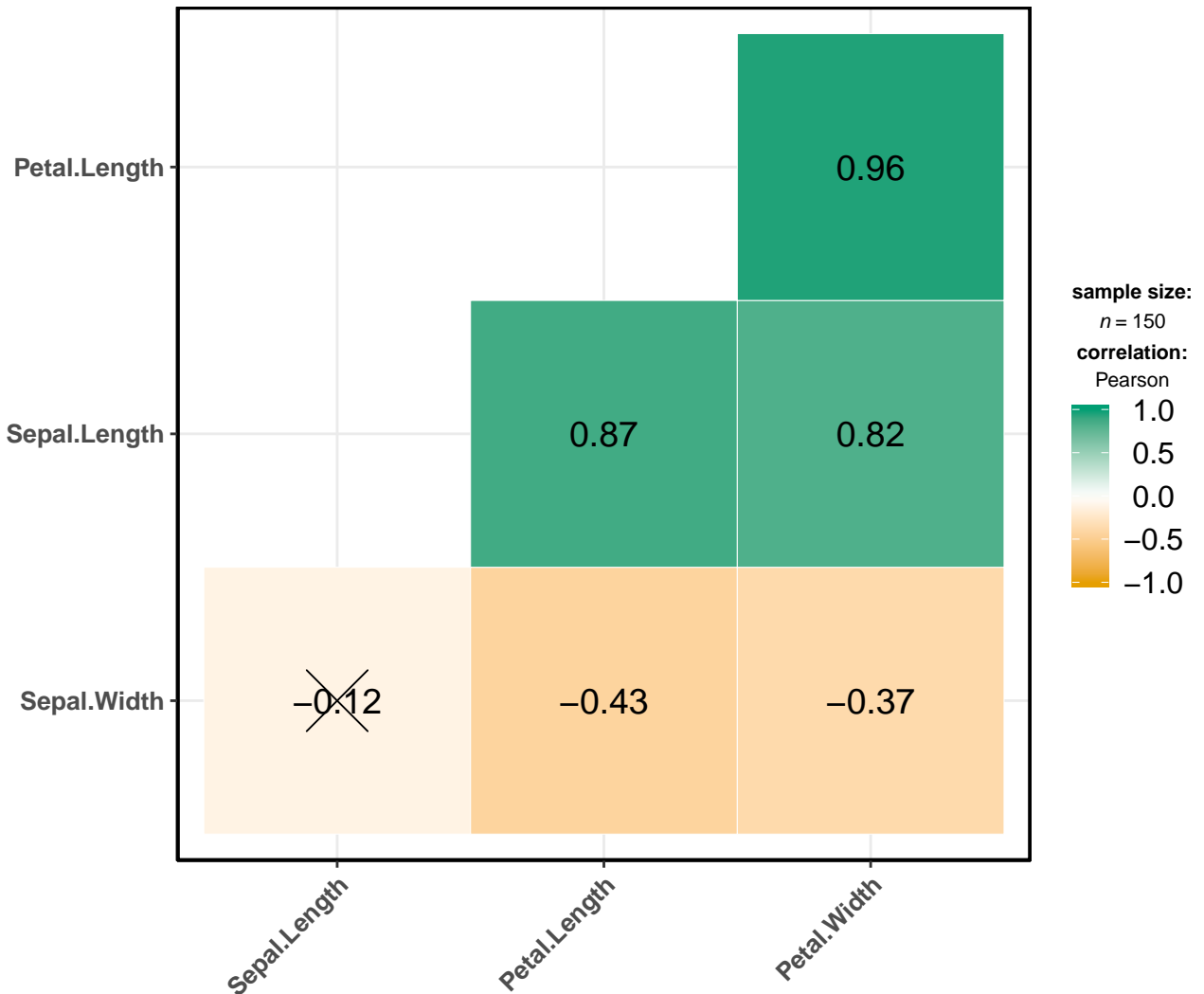
Adjustment (p-value): None



X = correlation non-significant at $p < 0.05$

Adjustment (p-value): None

Dataset: Iris

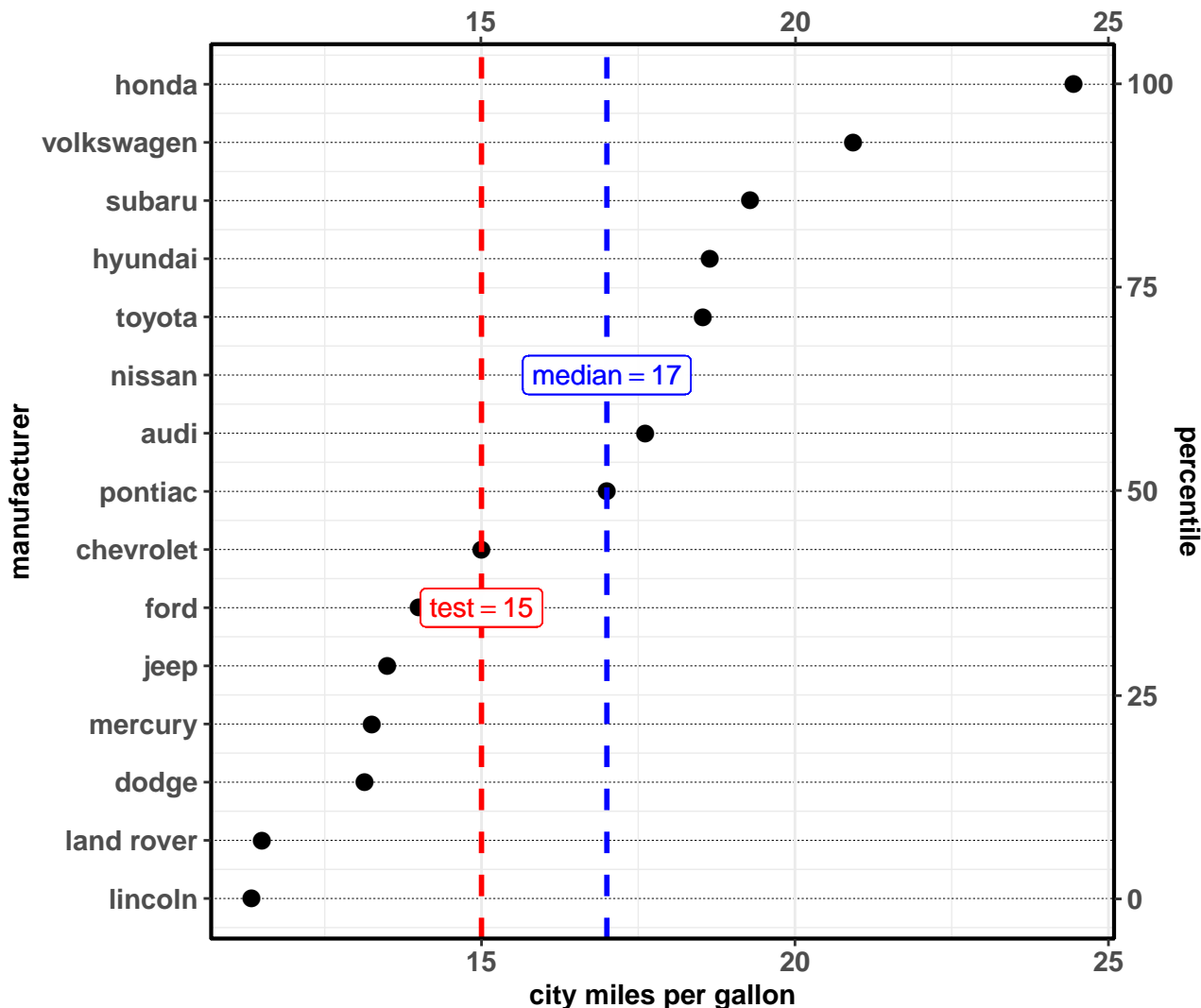


X = correlation non-significant at $p < 0.01$

Adjustment (p-value): None

Fuel economy data

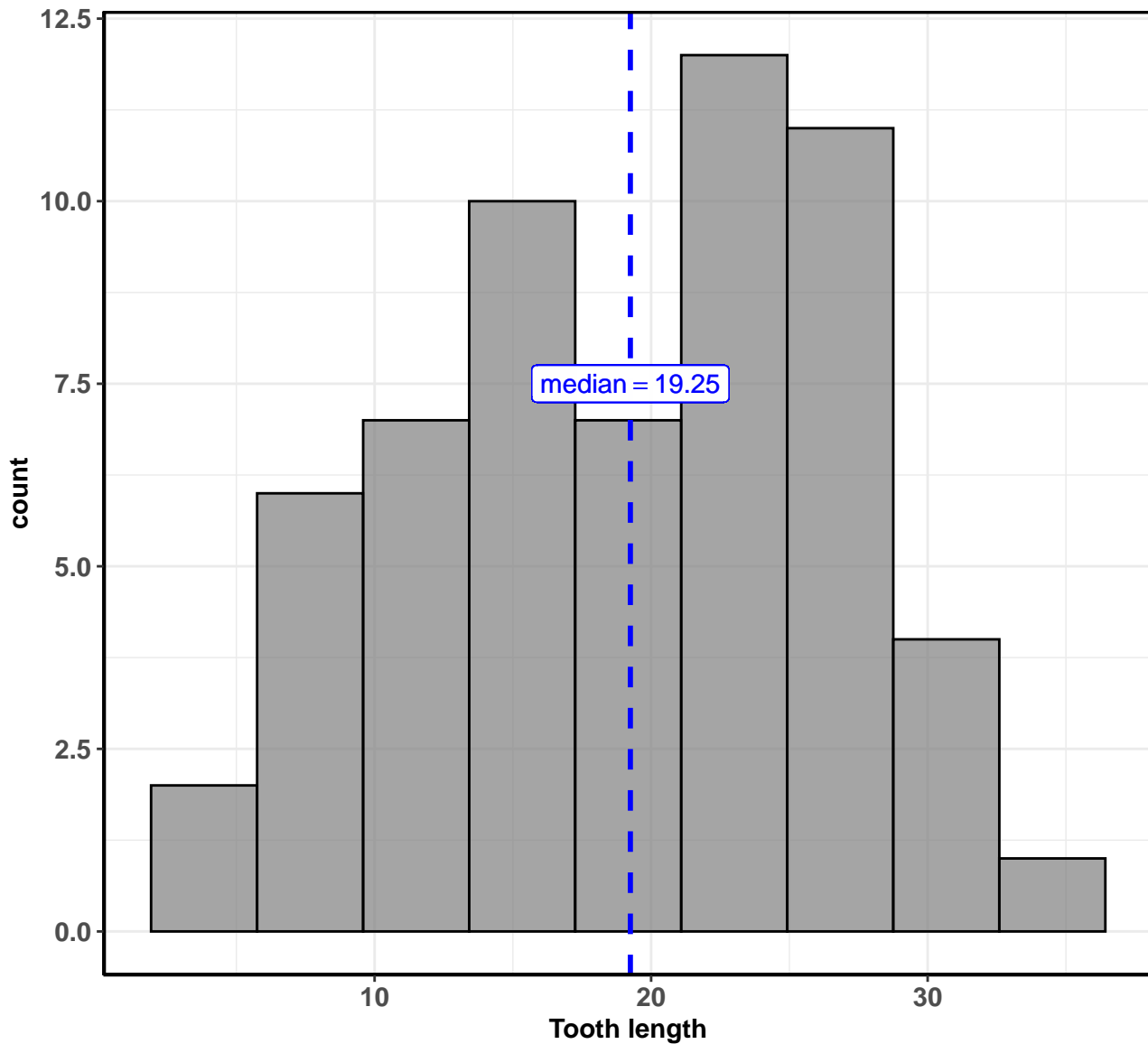
$t(14) = 1.47$, $p = 0.163$, $g = 0.36$, $CI_{99\%} [-0.33, 1.10]$, $n = 15$



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

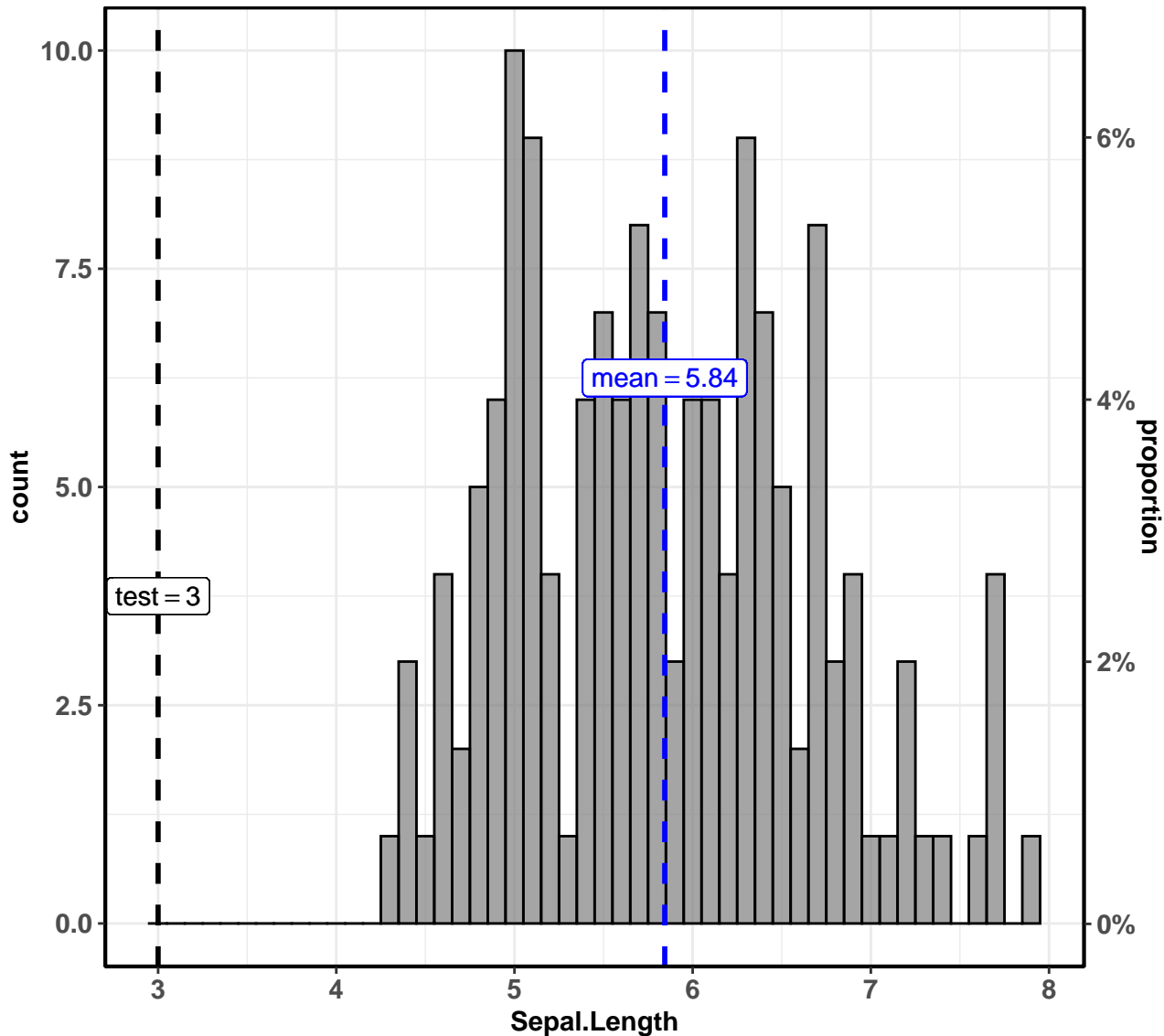
In favor of null: $\log_e(BF_{01}) = 0.44$, $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

$t(59) = 19.05, p = < 0.001, g = 2.43, CI_{95\%} [1.96, 2.99], n = 60$



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

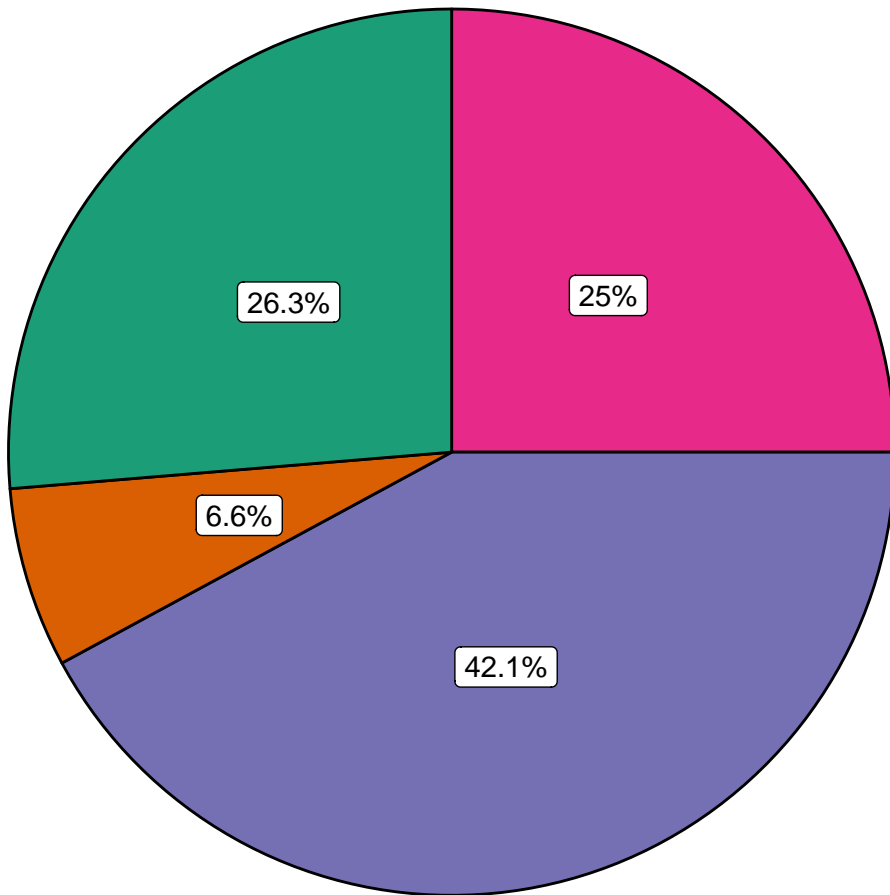
$t(149) = 42.05$, $p = < 0.001$, $g = 3.42$, $CI_{95\%} [3.02, 3.86]$, $n = 150$







Note: Iris dataset by Fisher.

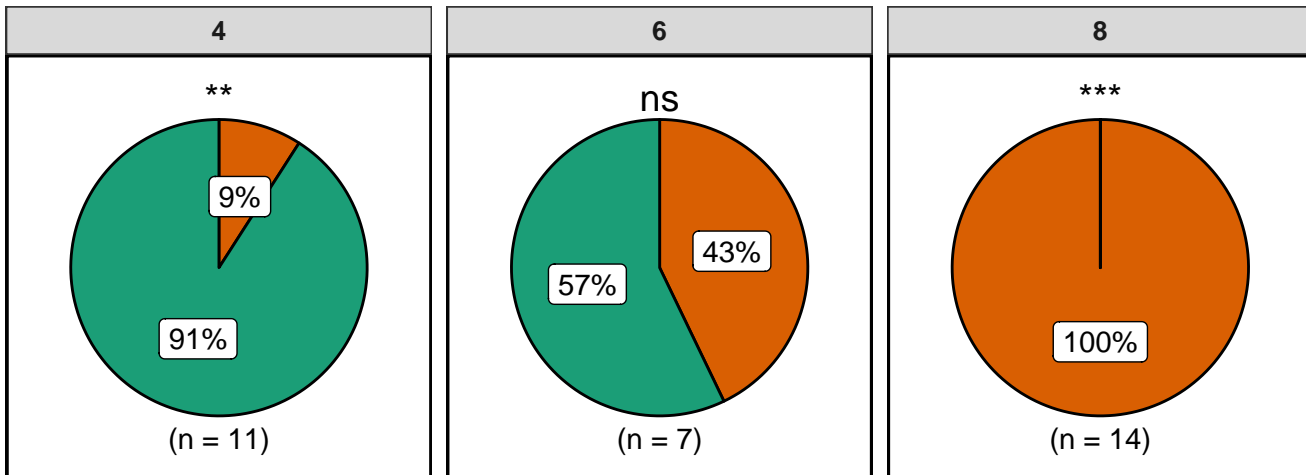
In favor of null: $\log_e(BF_{01}) = -186.14$, $r_{\text{Cauchy}}^{\text{JZS}} = 0.80$



$\chi^2_{\text{gof}}(3) = 19.263$, $p = < 0.001$, $V_{\text{Cramer}} = 0.291$, $\text{CI}_{95\%} [0.181, 0.366]$, $n = 76$



vore  omni  insecti  herbi  carni

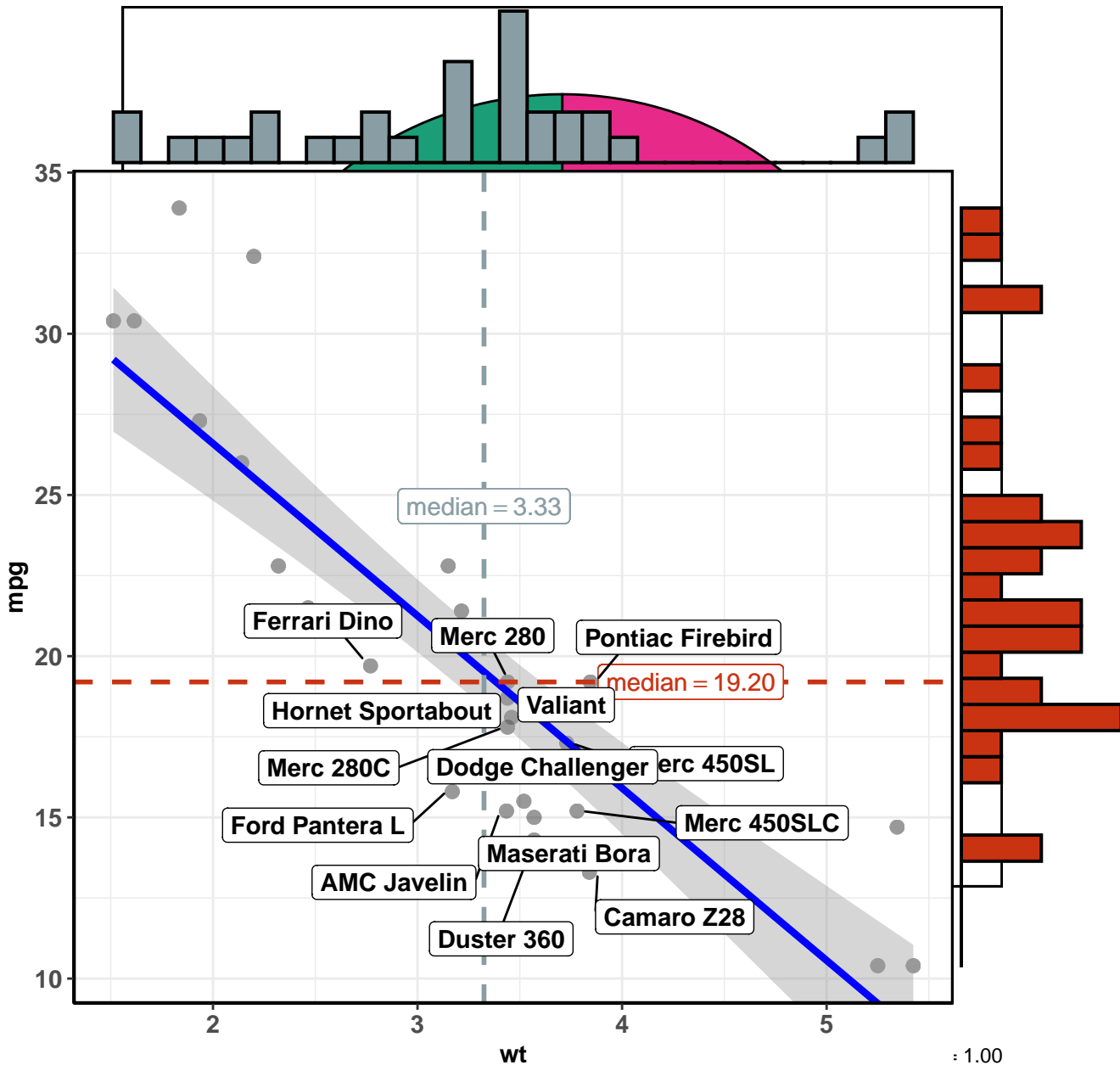
$\chi^2_{\text{Pearson}}(2) = 21.34, p = < 0.001, V_{\text{Cramer}} = 0.82, \text{CI}_{95\%} [0.46, 0.62], n = 32$

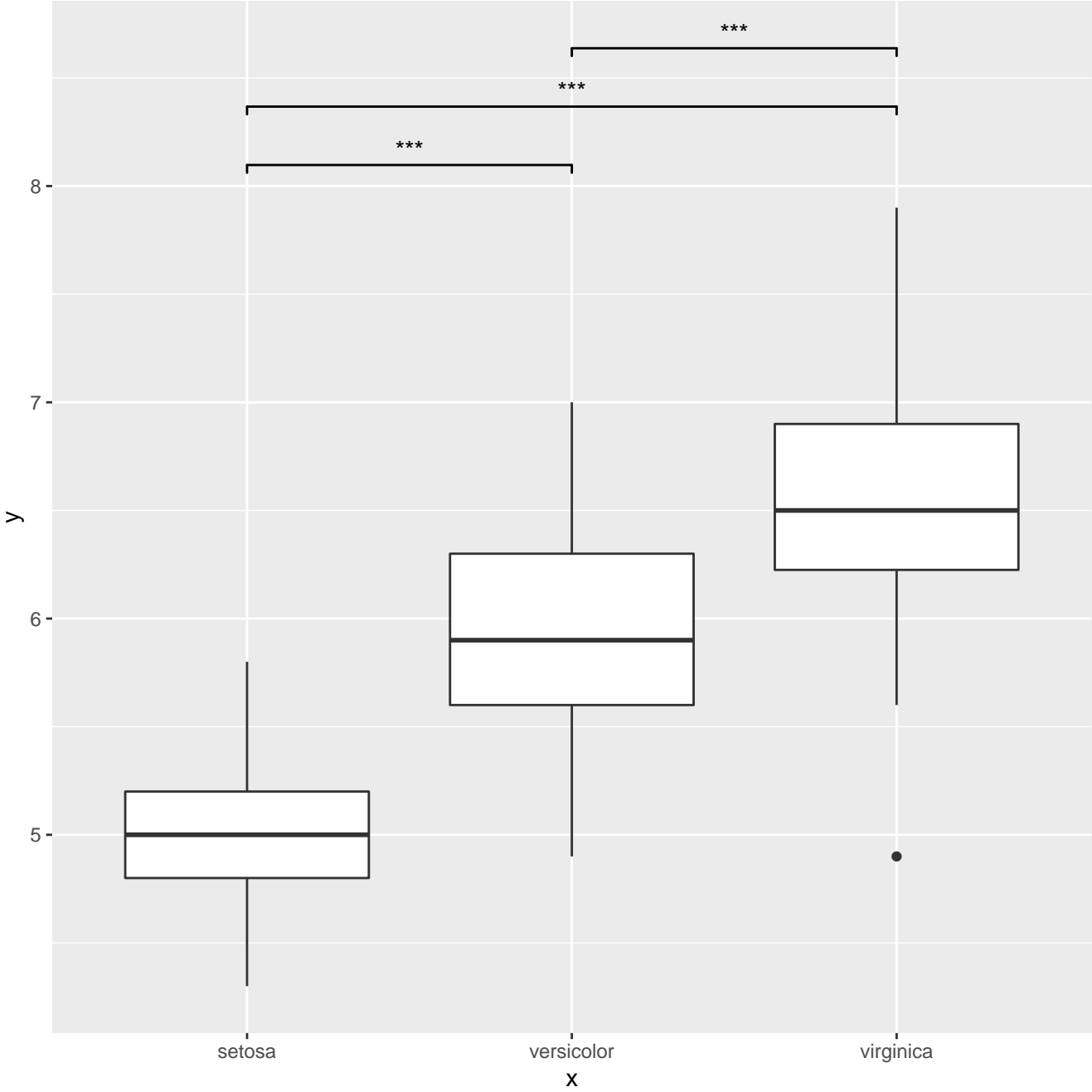


Engine  0 = V-shaped  1 = straight

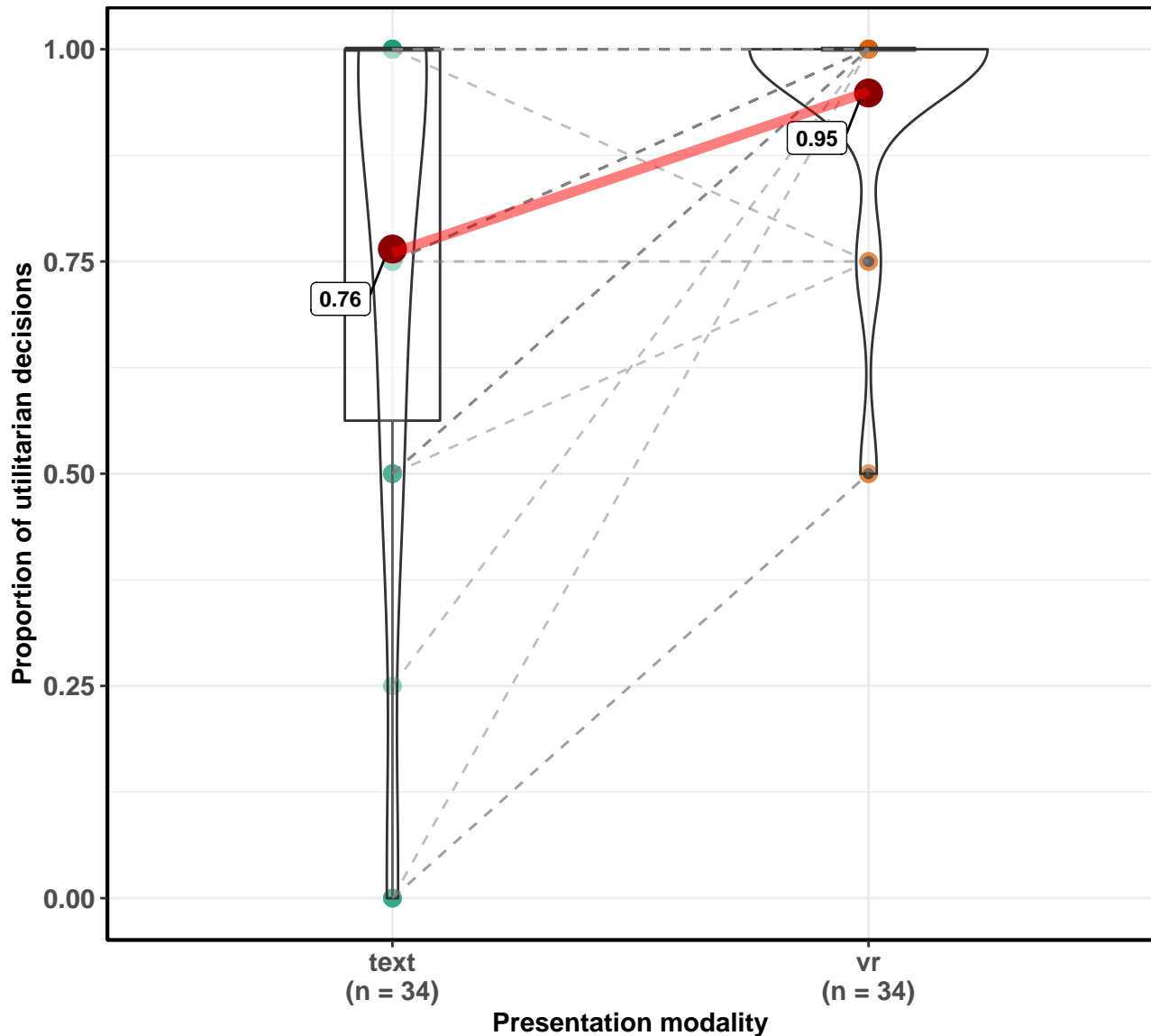
In favor of null: $\log_e(\text{BF}_{01}) = -10.31$, sampling = independent multinomial, $a = 1.00$

$\log_e(S) = 9.24$, $p = < 0.001$, $\rho_{\text{Spearman}} = -0.89$, $CI_{95\%} [-0.94, -0.78]$, $n = 32$
 $\chi^2_{\text{gof}}(3) = 133.47$, $p = < 0.001$, $V_{\text{Cramer}} = 0.27$, $CI_{95\%} [0.23, 0.31]$, $n = 592$



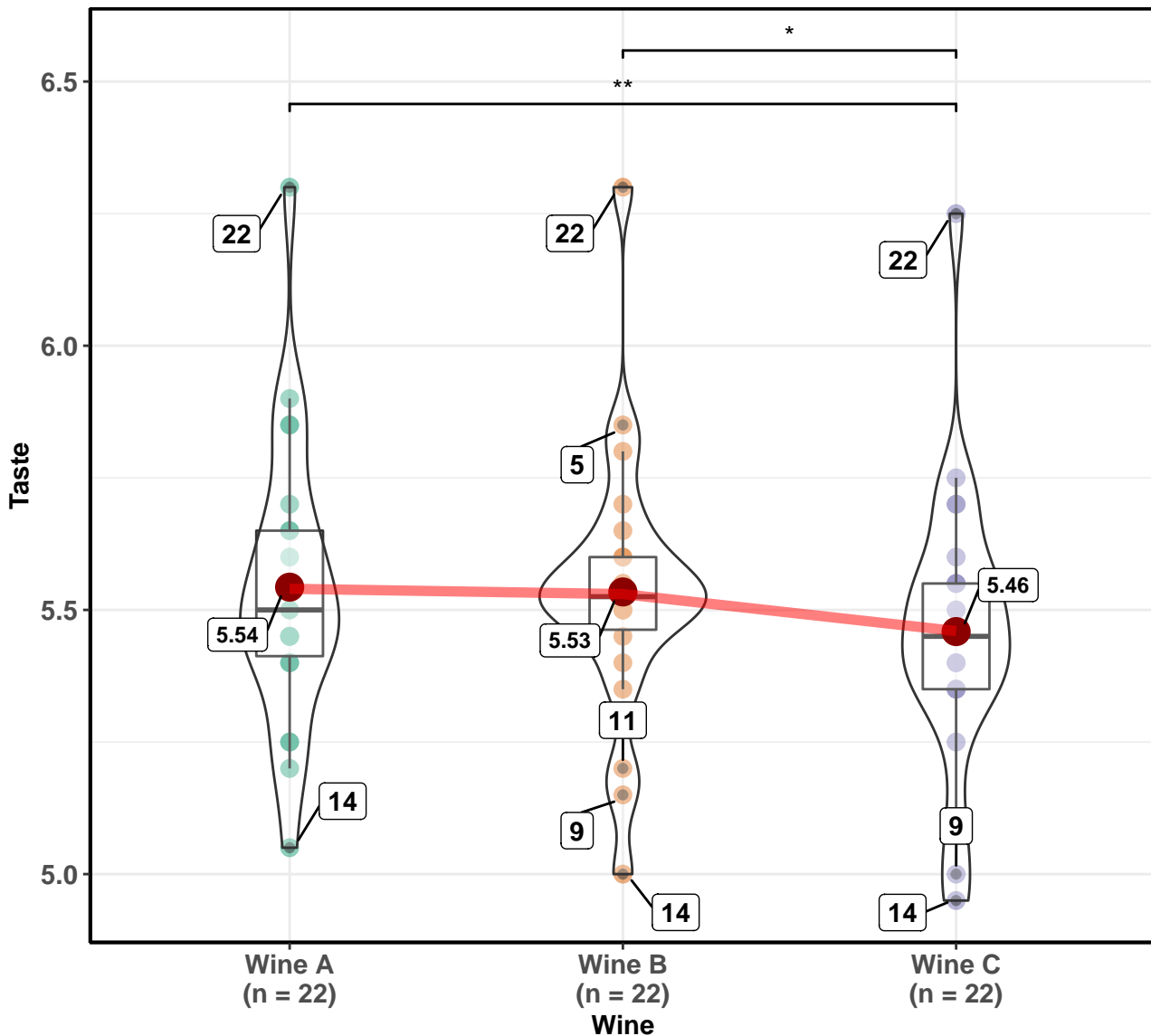


$t(33) = -3.96, p = < 0.001, g = -0.66, CI_{95\%} [-1.07, -0.31], n = 34$



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

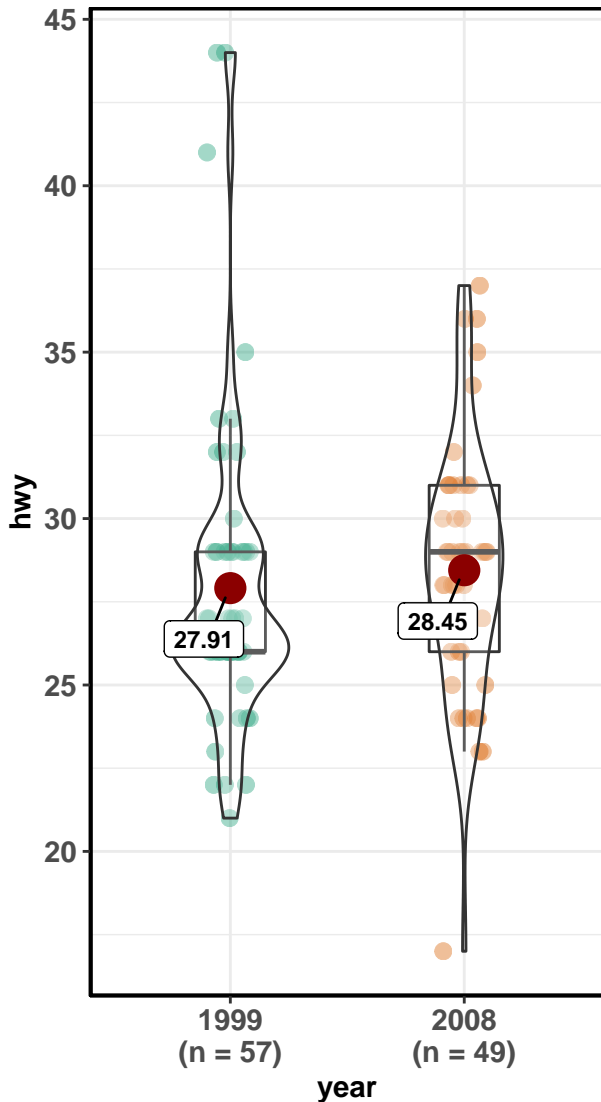
$\chi^2(2) = 11.14, p = 0.004, W_{\text{Kendall}} = 0.82, \text{CI}_{99\%} [0.60, 1.03], n = 22$



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

drv: f

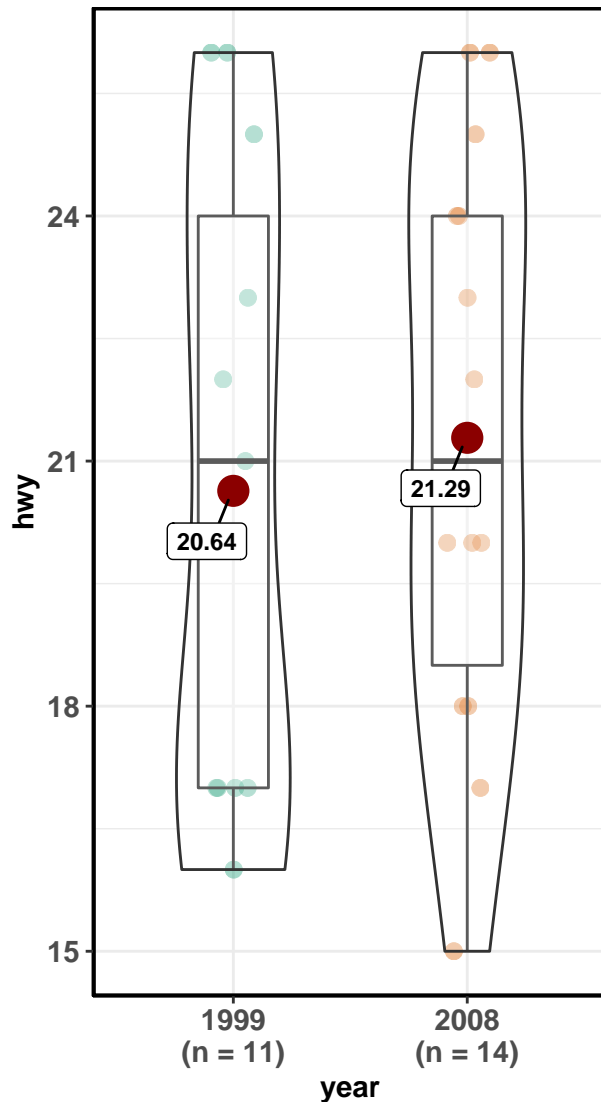
$t(20.71) = -0.66, p = 0.509, g = -0.13, CI_{99\%} [-0.63, 0.19]$



In favor of null: $\log_e(BF_{01}) = 1.39, r_{Cauchy}^{JZS} = 0.71$

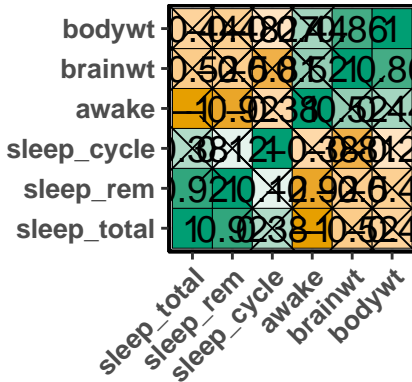
drv: r

$t(20.71) = -0.43, p = 0.675, g = -0.17, CI_{99\%} [-1.21, 0.81]$



In favor of null: $\log_e(BF_{01}) = 0.93, r_{Cauchy}^{JZS} = 0.71$

vore: carni

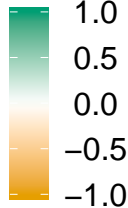


sample size:

$n_{\min} = 4$
 $n_{\text{median}} = 9$
 $n_{\max} = 19$

correlation:

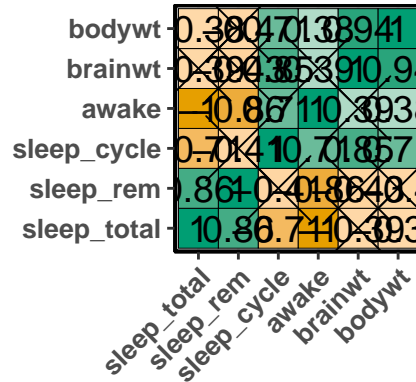
Pearson



X = correlation non-significant at $p < 0.05$

Adjustment (p-value): None

vore: herbi

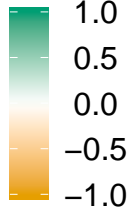


sample size:

$n_{\min} = 11$
 $n_{\text{median}} = 20$
 $n_{\max} = 32$

correlation:

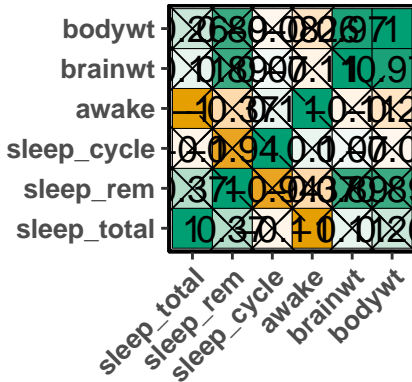
Pearson



X = correlation non-significant at $p < 0.05$

Adjustment (p-value): None

vore: insecti

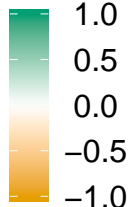


sample size:

$n_{\min} = 3$
 $n_{\text{median}} = 4$
 $n_{\max} = 5$

correlation:

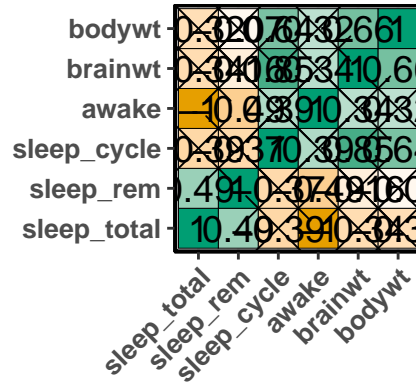
Pearson



X = correlation non-significant at $p < 0.05$

Adjustment (p-value): None

vore: omni

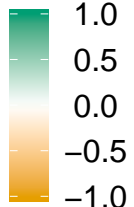


sample size:

$n_{\min} = 11$
 $n_{\text{median}} = 17$
 $n_{\max} = 20$

correlation:

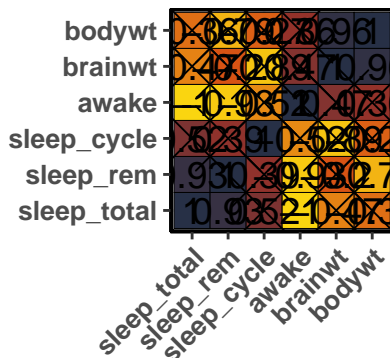
Pearson



X = correlation non-significant at $p < 0.05$

Adjustment (p-value): None

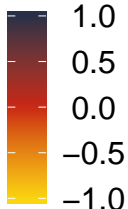
vore: carni



sample size:

$n_{\min} = 4$
 $n_{\text{median}} = 9$
 $n_{\max} = 19$

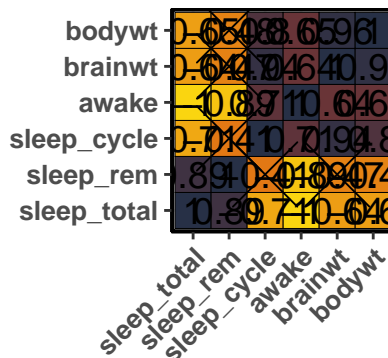
correlation:
 robust (% bend)



= correlation non-significant at $p < 0.05$

Adjustment (p-value): Holm

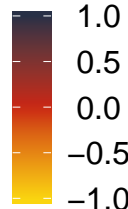
vore: herbi



sample size:

$n_{\min} = 11$
 $n_{\text{median}} = 20$
 $n_{\max} = 32$

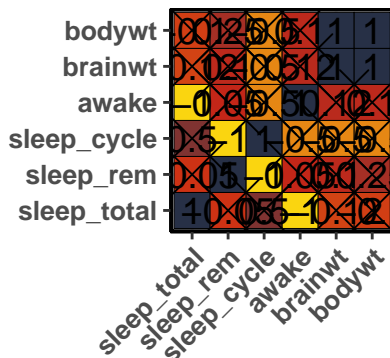
correlation:
 robust (% bend)



X = correlation non-significant at $p < 0.05$

Adjustment (p-value): Holm

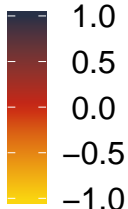
vore: insecti



sample size:

$n_{\min} = 3$
 $n_{\text{median}} = 4$
 $n_{\max} = 5$

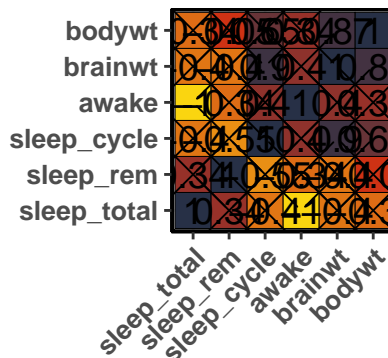
correlation:
 robust (% bend)



= correlation non-significant at $p < 0.05$

Adjustment (p-value): Holm

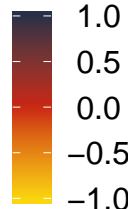
vore: omni



sample size:

$n_{\min} = 11$
 $n_{\text{median}} = 17$
 $n_{\max} = 20$

correlation:
 robust (% bend)

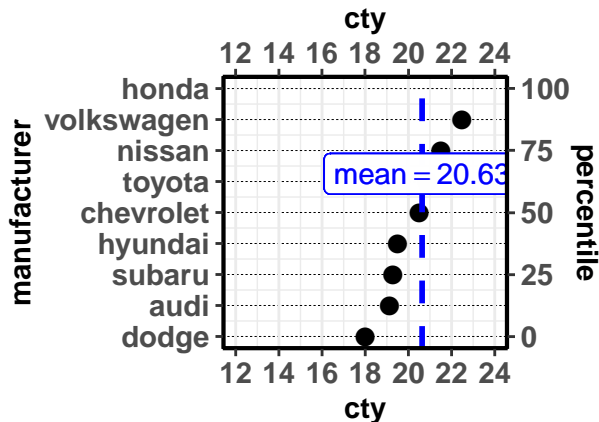


X = correlation non-significant at $p < 0.05$

Adjustment (p-value): Holm

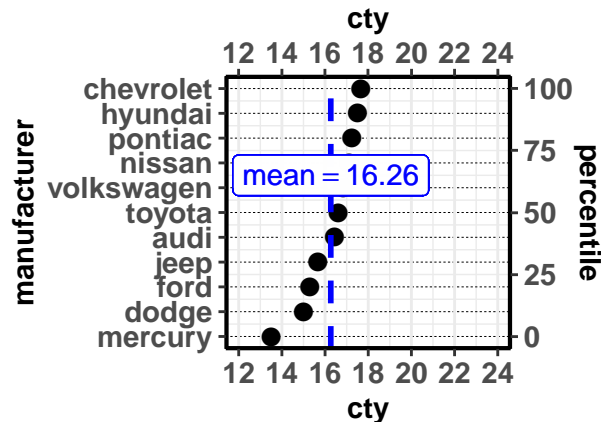
cylinder count: 4

$t(8) = 7.82, p = < 0.001, g = 2.32, CI_{95\%} [1.25, 4.25]$ $t(10) = 1.99, p = 0.075, g = 0.55, CI_{95\%} [-0.06, 1.29]$



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

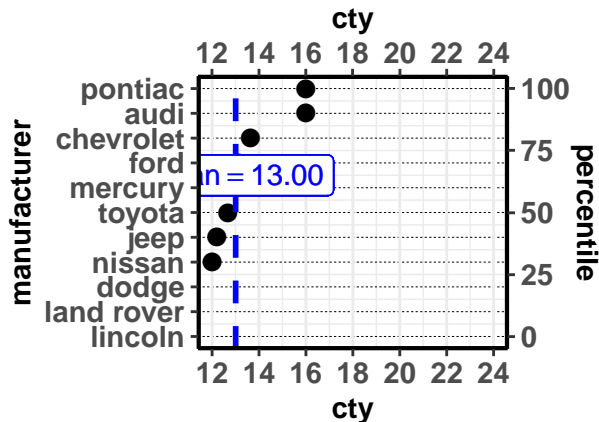
cylinder count: 6



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

cylinder count: 8

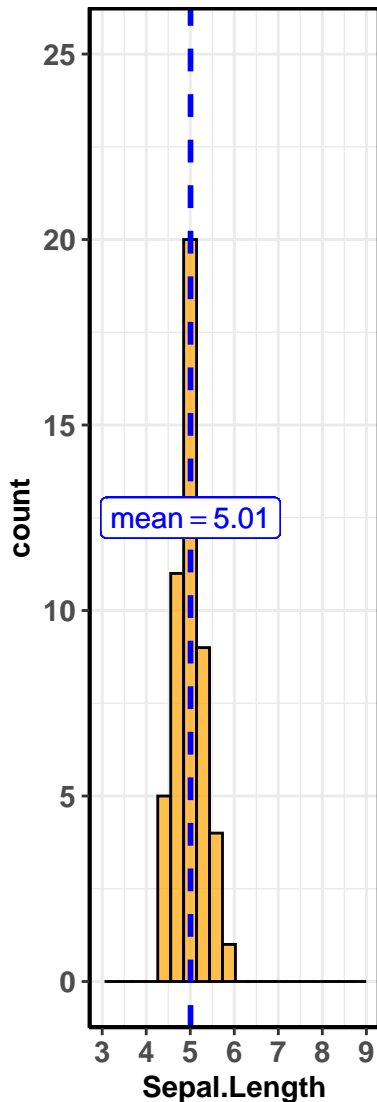
$t(8) = -5.01, p = 0.001, g = -1.38, CI_{95\%} [-2.49, -0.64], n = 11$



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

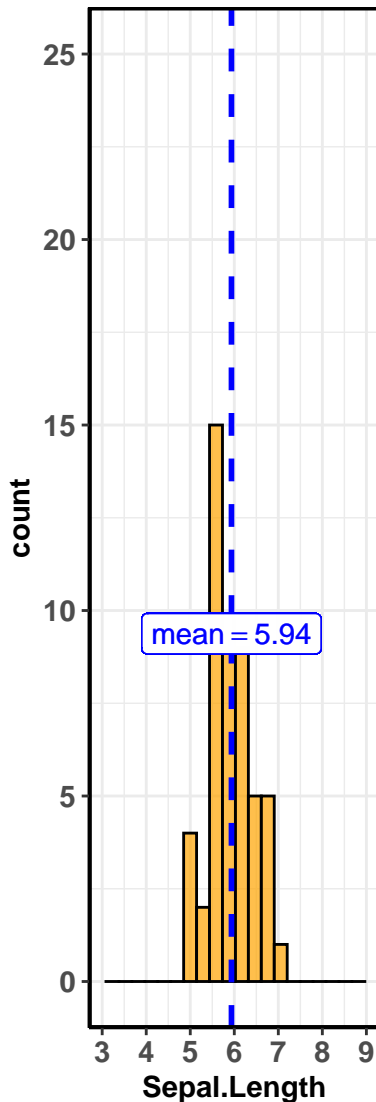
Species: setosa

12, $p = 0.905$, $g = 0.02$, $CI_{95\%} = [-0.49, 1.53]$



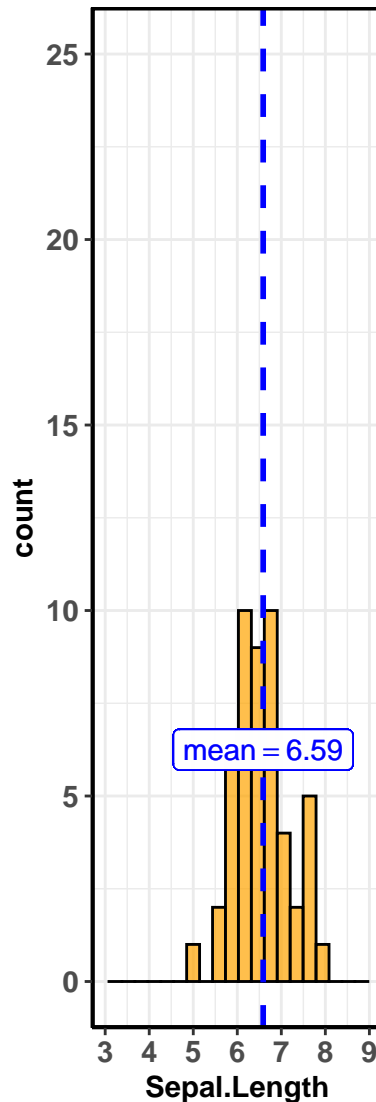
Species: versicolor

12, $p = < 0.001$, $g = 1.78$, $CI_{95\%} = [1.49, 2.07]$

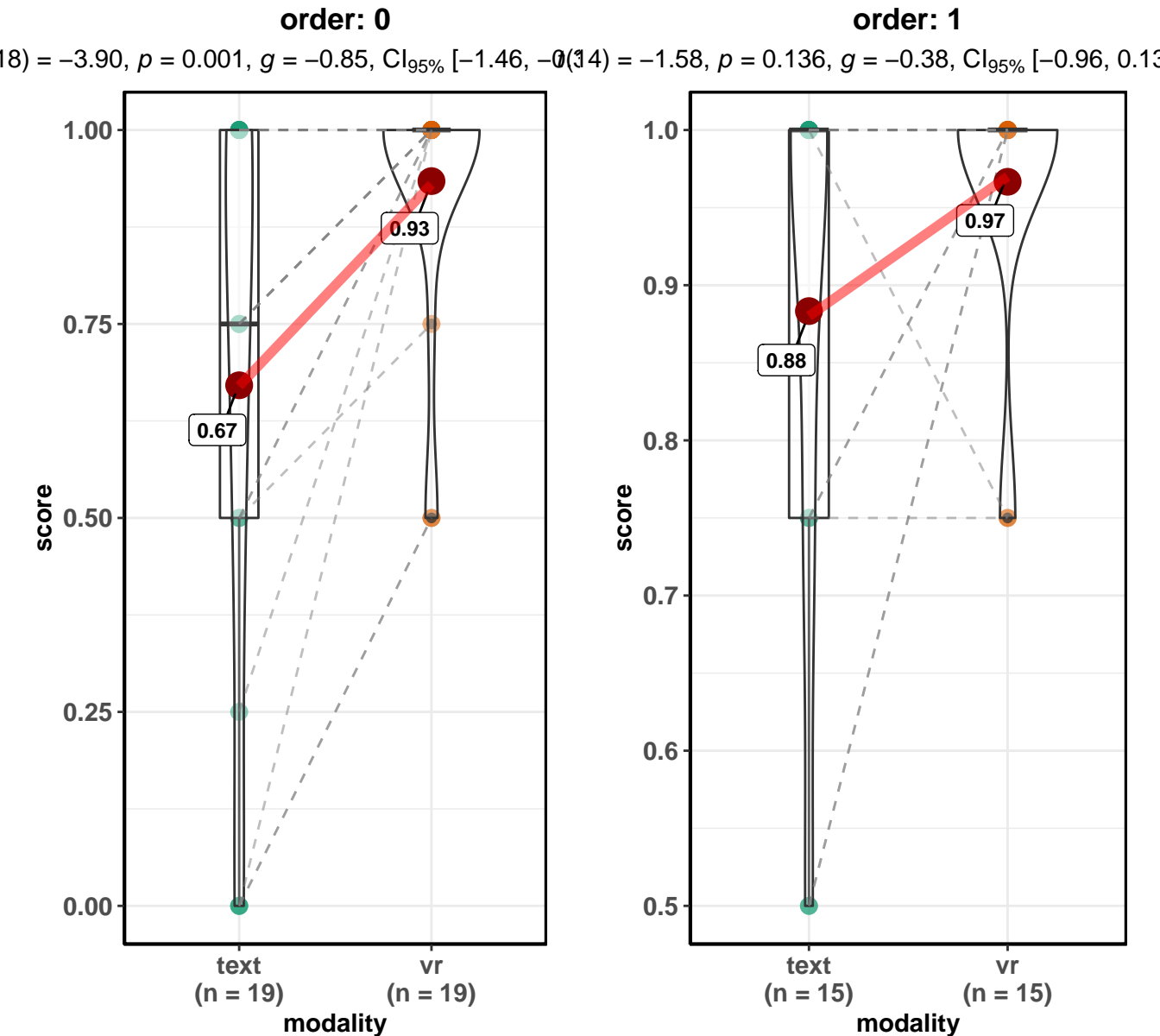


Species: virginica

12, $p = < 0.001$, $g = 2.46$, $CI_{95\%} = [1.99, 2.93]$



of null: $\log_e(BF_{01}) = 1.86$, $r_{Cauchy}^{JZS} = 0.71$ of null: $\log_e(BF_{01}) = -32.95$, $r_{Cauchy}^{JZS} = 0.71$ of null: $\log_e(BF_{01}) = -45.50$, $r_{Cauchy}^{JZS} = 0.71$



In favor of null: $\log_e(BF_{01}) = -3.56, r_{Cauchy}^{JZS} = 0.71$

In favor of null: $\log_e(BF_{01}) = 0.32, r_{Cauchy}^{JZS} = 0.71$

