

Dataset: Iris Flower dataset

(a) setosa

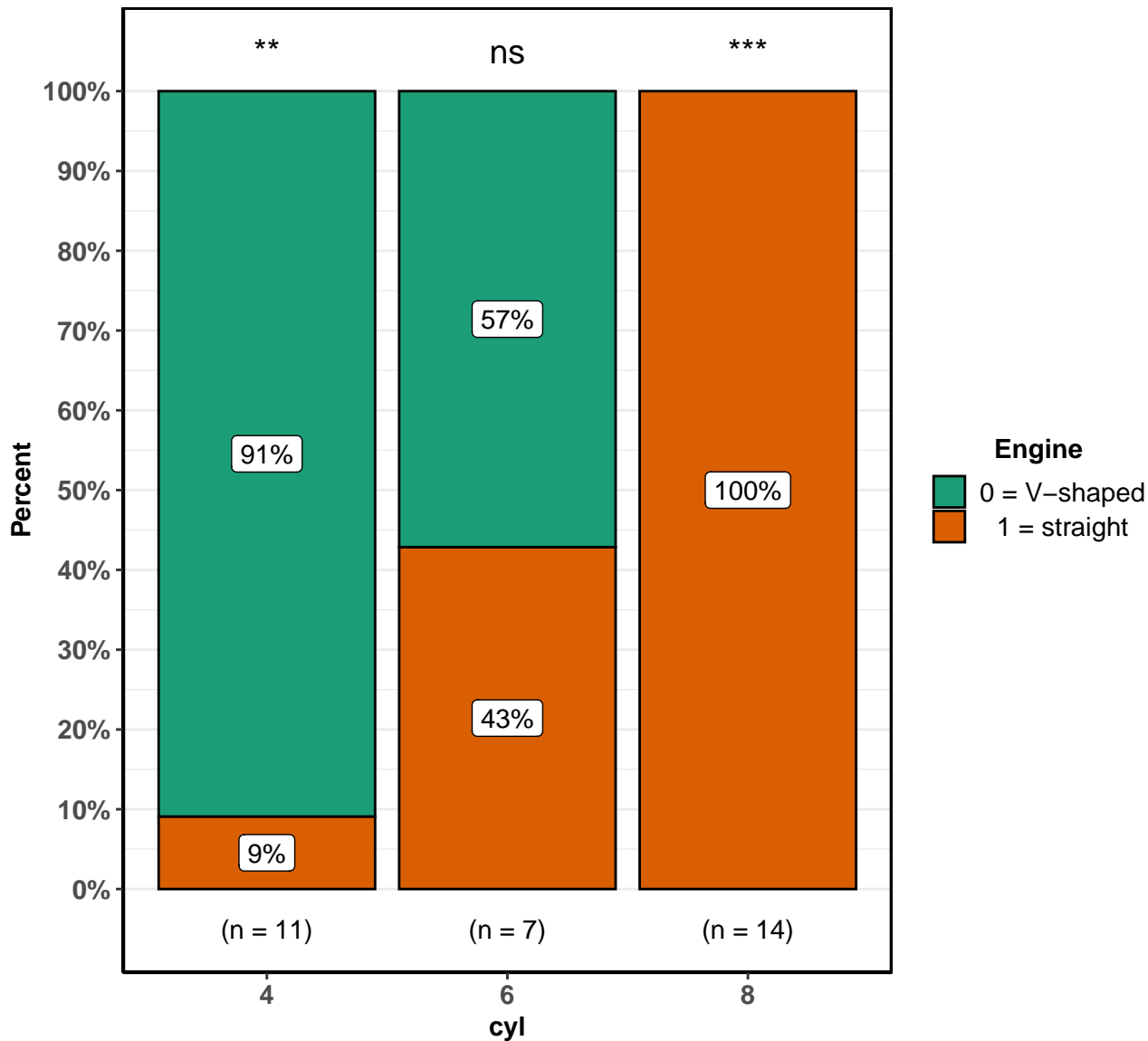


(b) versicolor



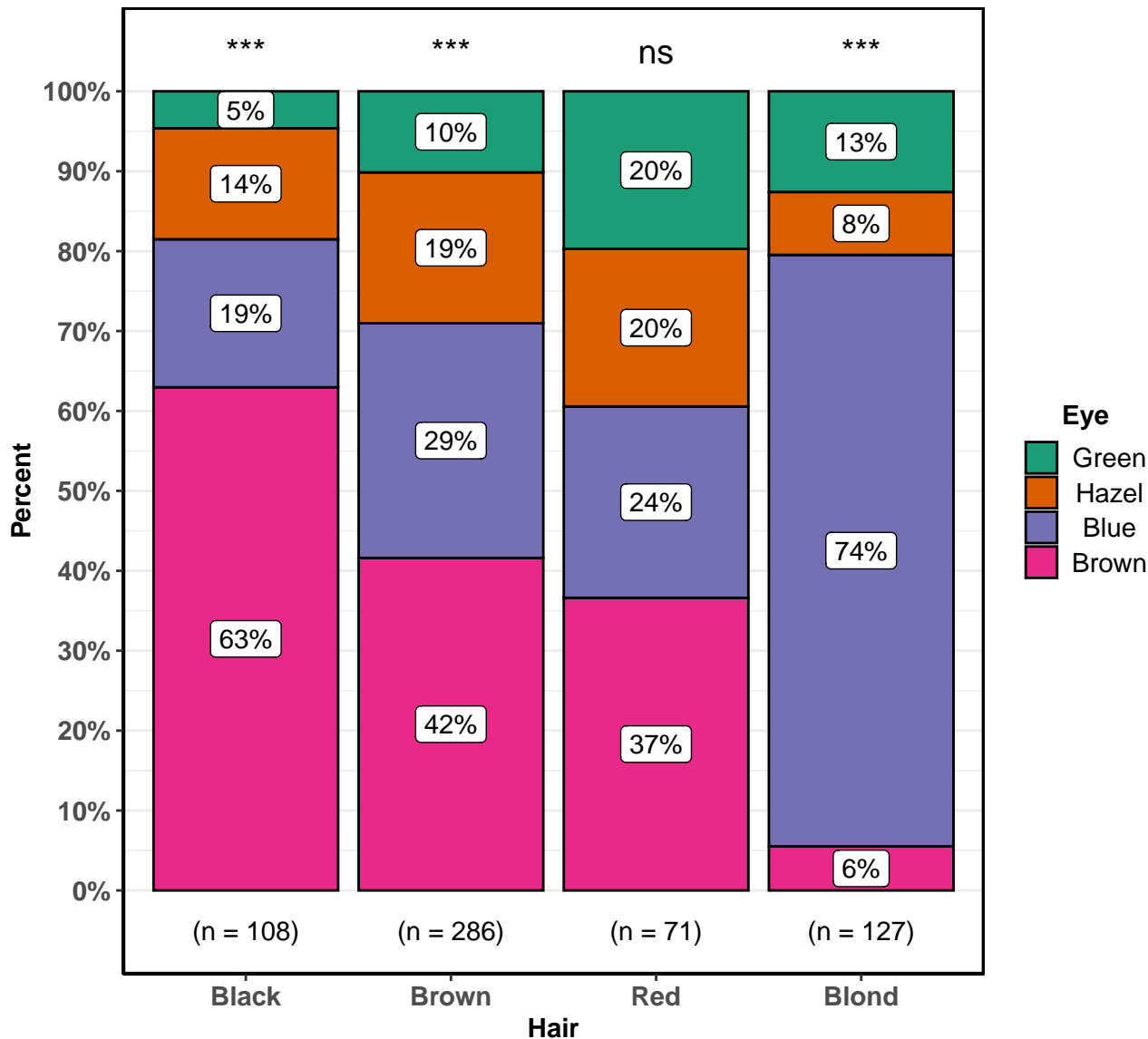
Note: Only two species of flower are displayed

$\chi^2_{\text{Pearson}}(2) = 21.34, p = < 0.001, V_{\text{Cramer}} = 0.82, \text{CI}_{95\%} [0.67, 0.87], n_{\text{obs}} = 32$



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

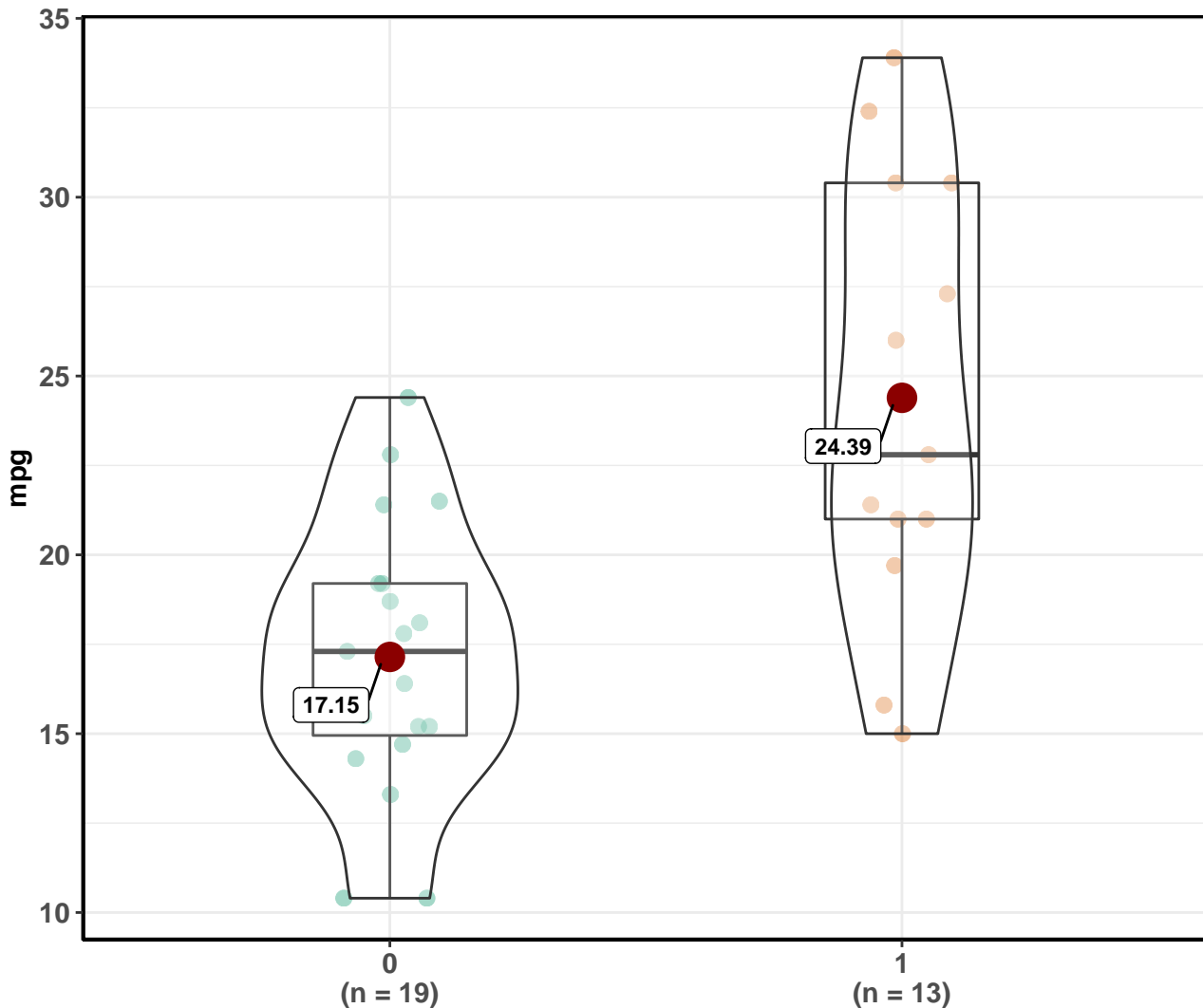
$\chi^2_{\text{Pearson}}(9) = 138.29, p = < 0.001, V_{\text{Cramer}} = 0.28, \text{CI}_{95\%} [0.23, 0.31], n_{\text{obs}} = 592$



In favor of null: $\log_e(\text{BF}_{01}) = -56.78$, sampling = independent multinomial, $a = 1.00$

Fuel efficiency by type of car transmission

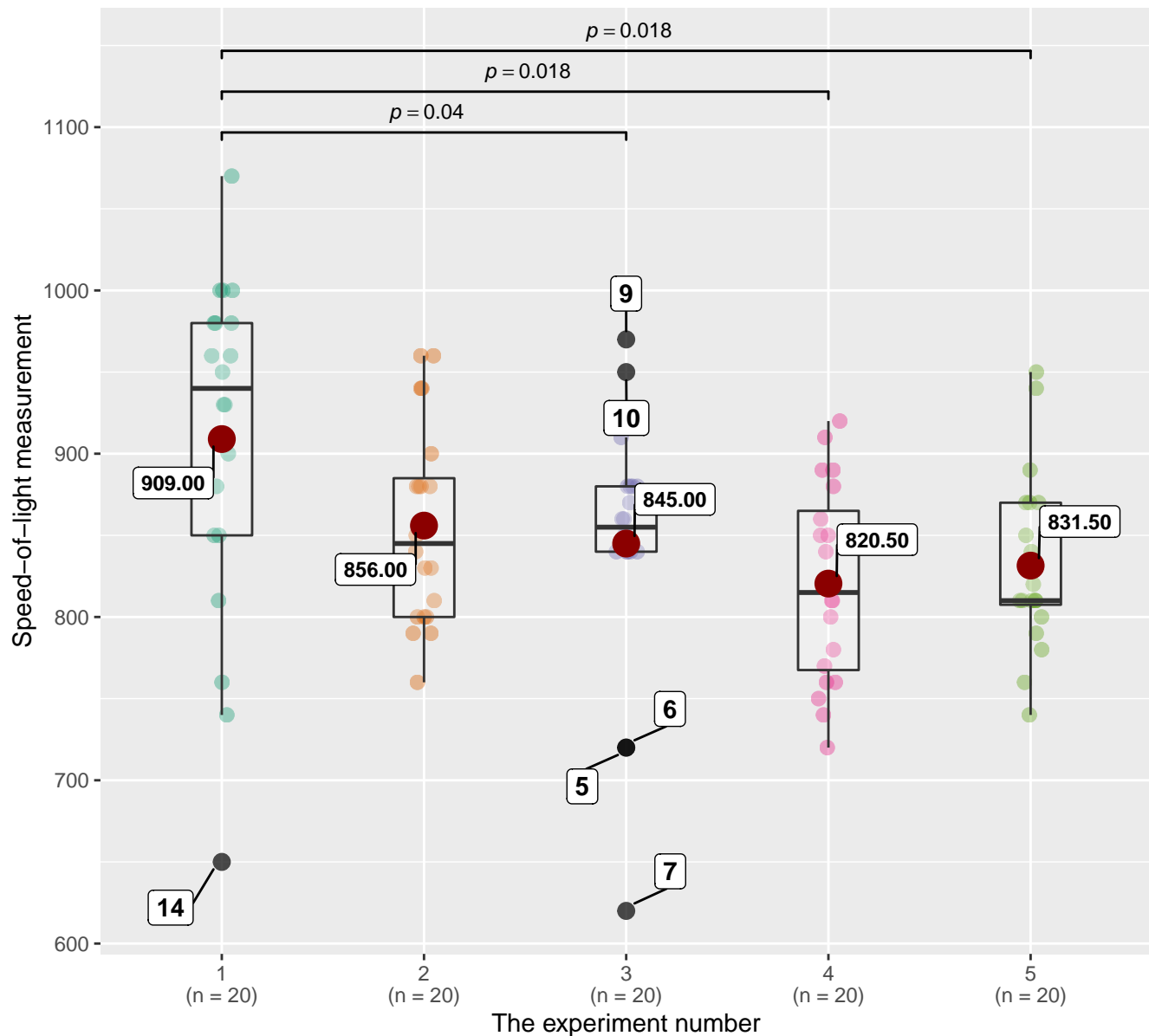
$t(18.33) = -3.77, p = 0.001, g = -1.38, CI_{95\%} [-2.17, -0.51], n_{obs} = 32$

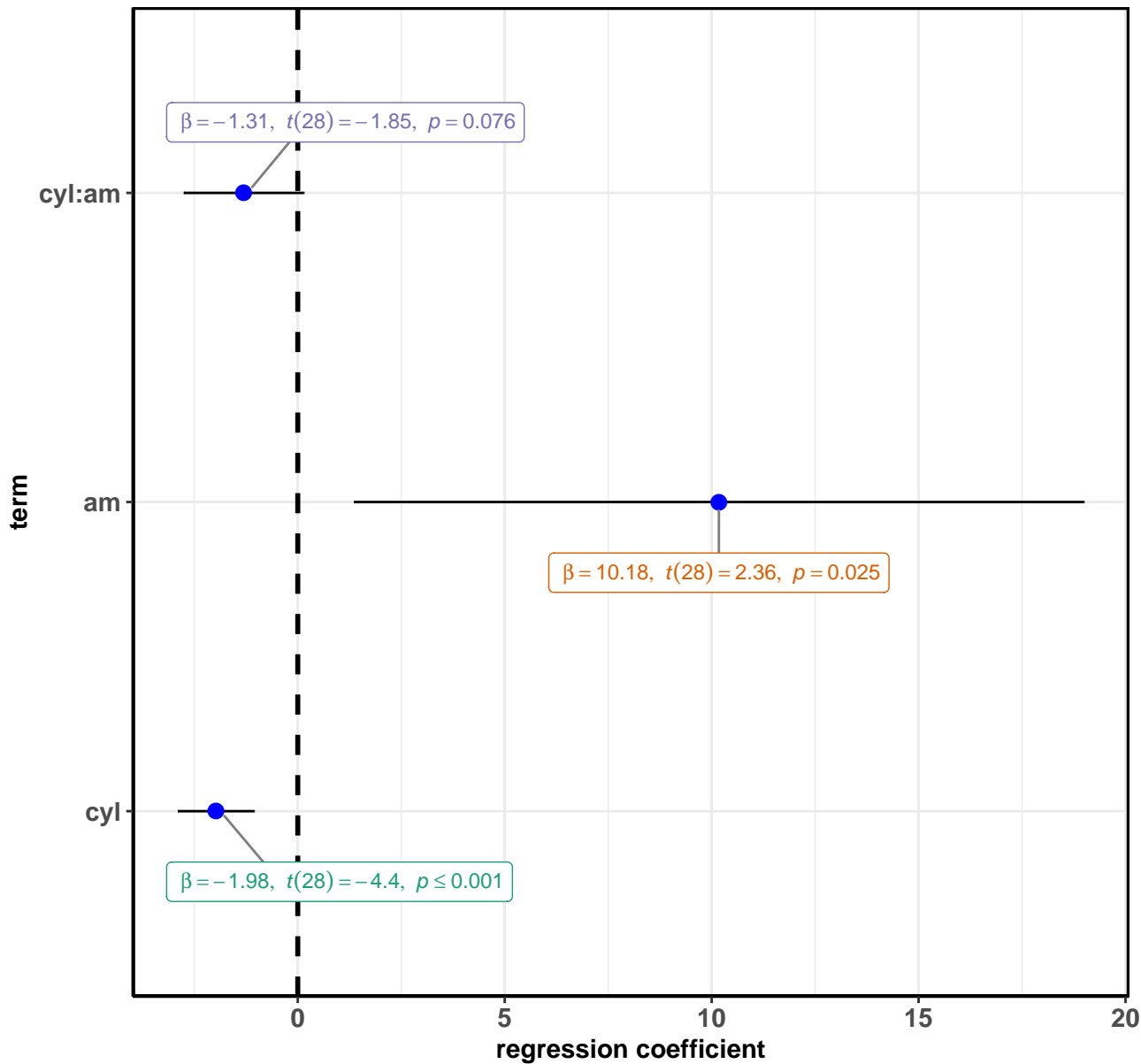


Transmission (0 = automatic, 1 = manual)

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

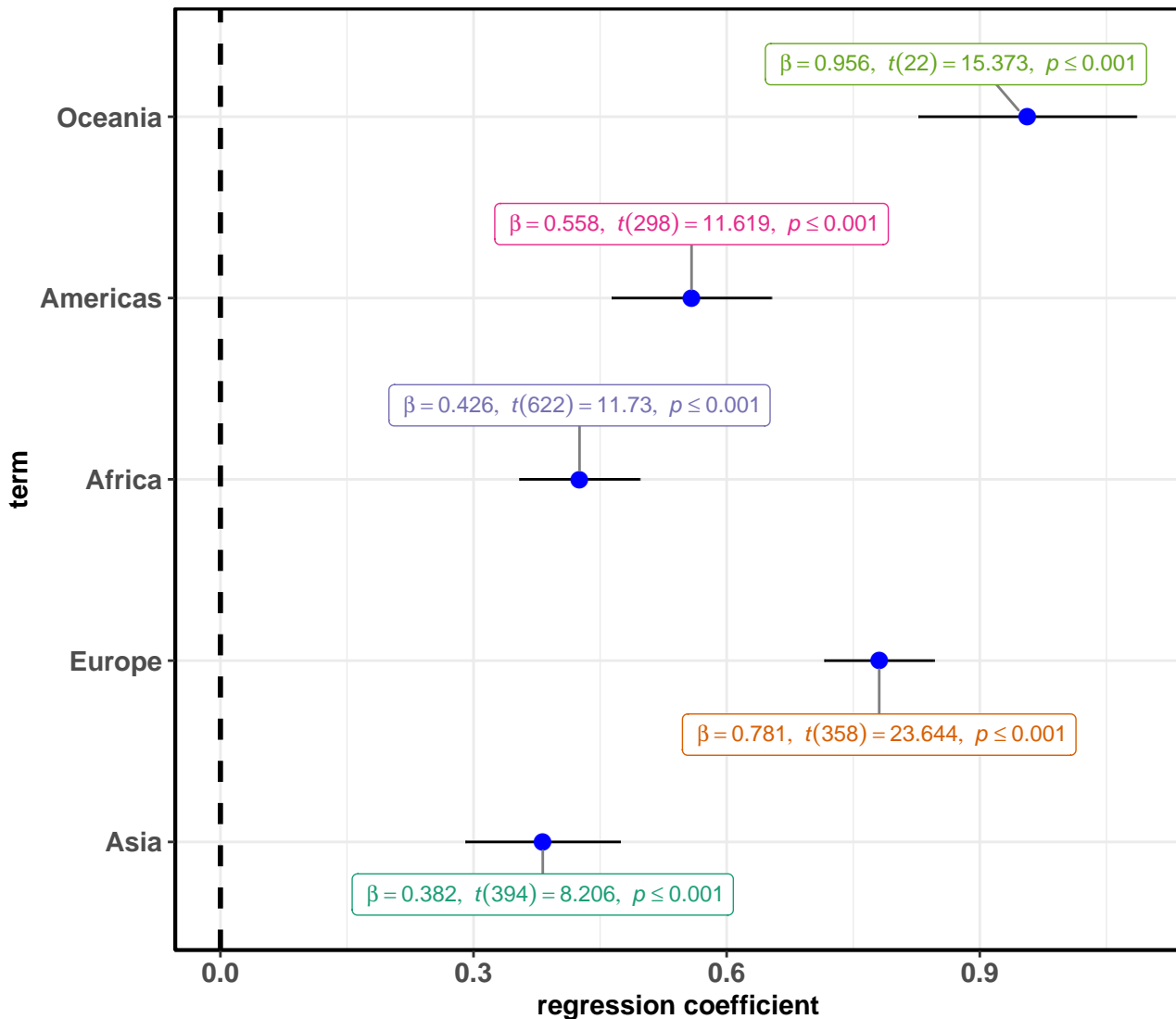
$\chi^2(4) = 15.02$, $p = 0.005$, $\varepsilon^2 = 0.15$, $CI_{99\%} [0.07, 0.28]$, $n_{\text{obs}} = 100$





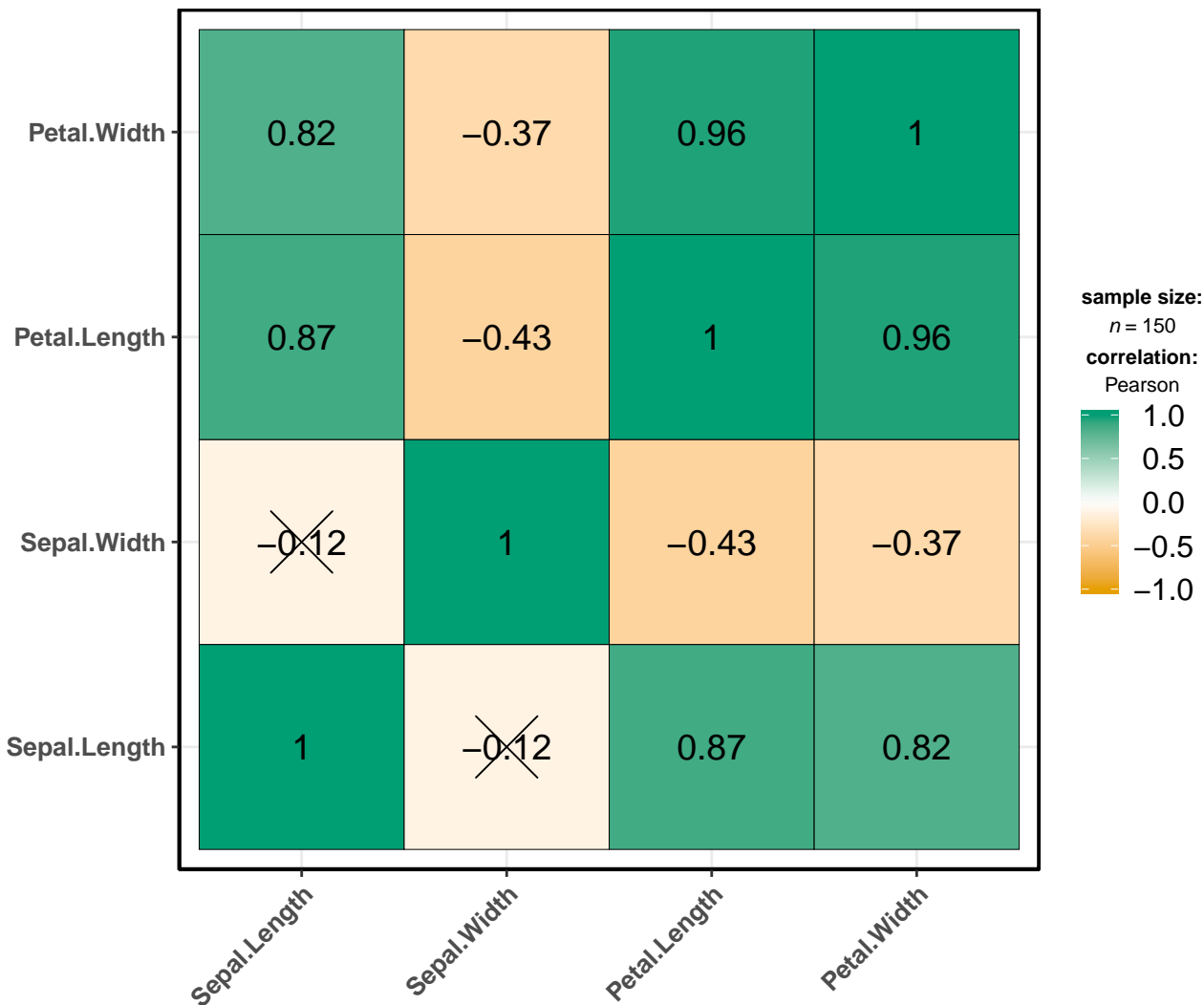
AIC = 166, BIC = 173, log-likelihood = -78

Summary effect: $\beta = 0.619$, $CI_{95\%} [0.407, 0.830]$, $z = 5.736$, $se = 0.108$, $p = < 0.001$



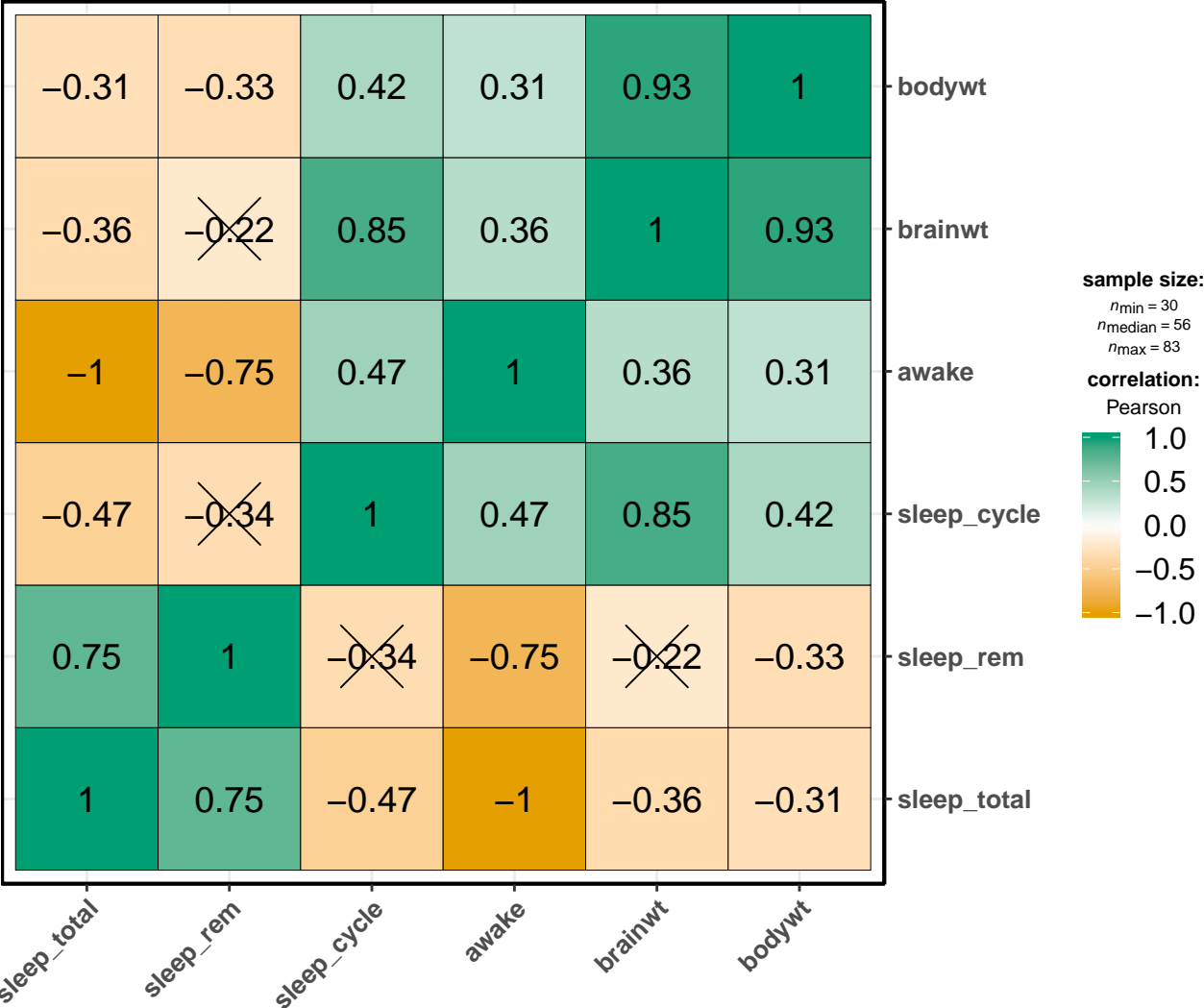
In favor of null: $\log_e(BF_{01}) = -2.680$, $d_{\text{mean}}^{\text{posterior}} = 0.494$, $CI_{95\%} [0.158, 0.778]$

Heterogeneity: $Q(4) = 109$, $p = < 0.001$, $\tau_{\text{REML}}^2 = 0.056$, $I^2 = 96.81\%$



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

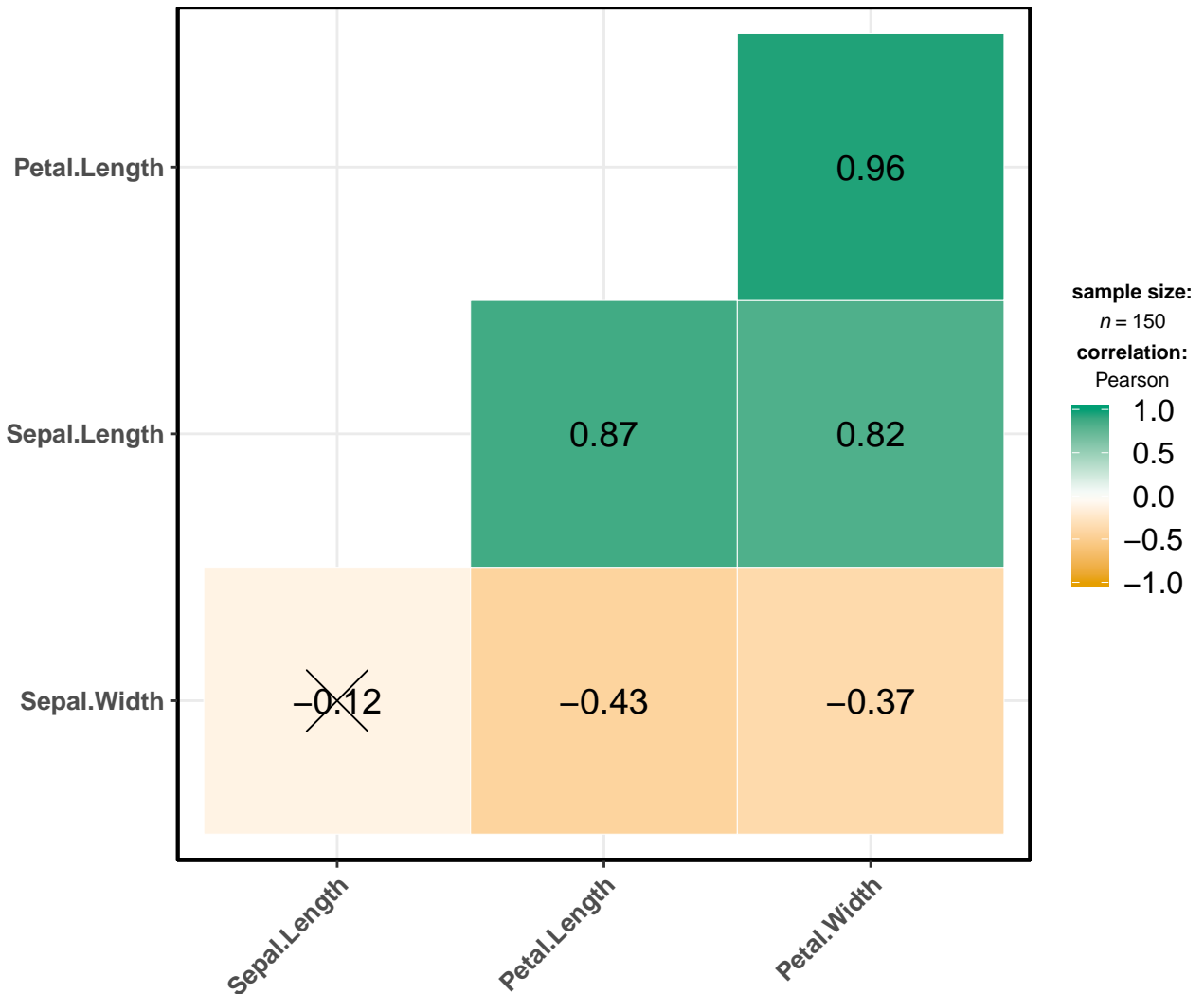
Adjustment (p-value): None



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

Adjustment (p-value): None

Dataset: Iris

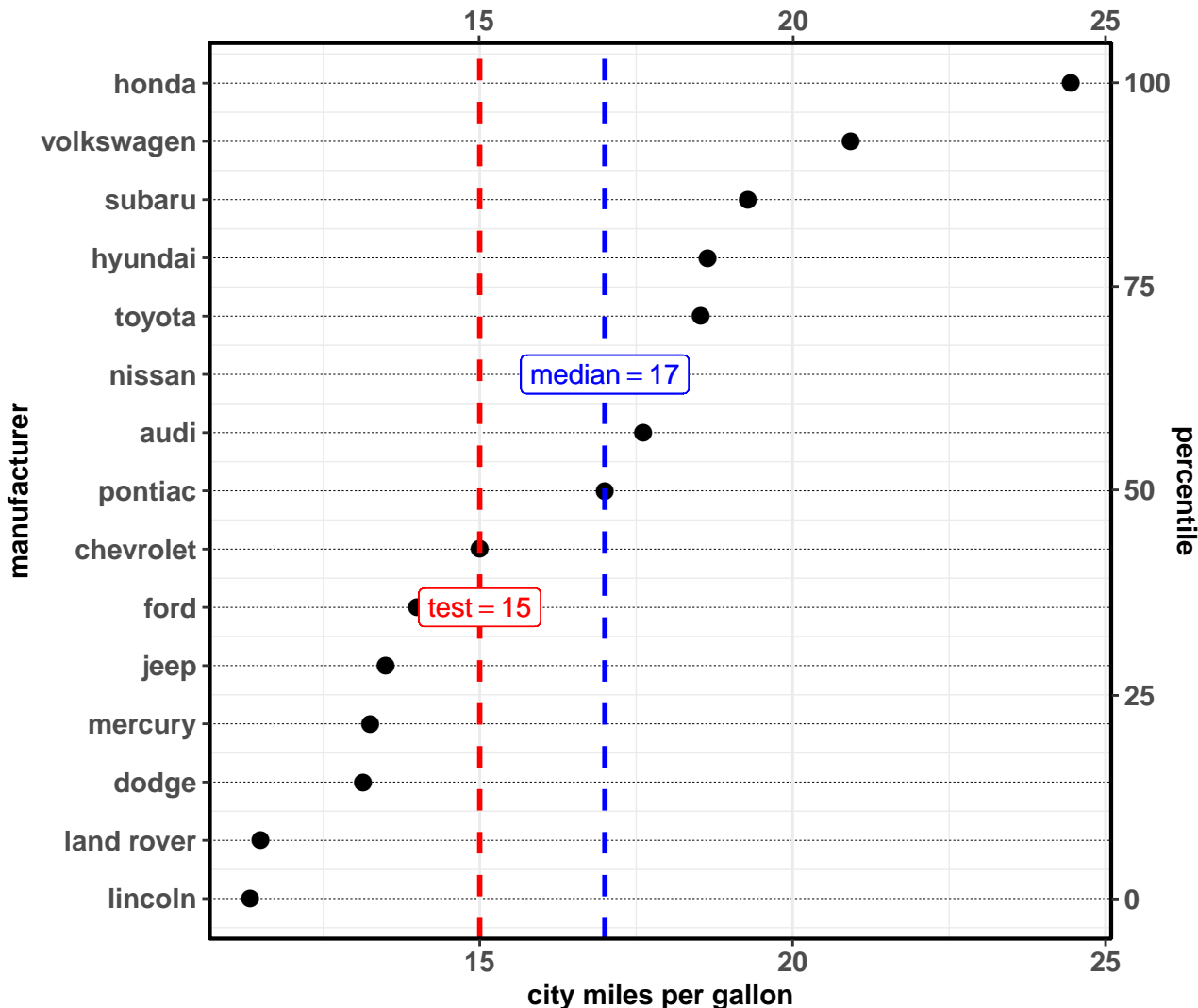


X = correlation non-significant at $p < 0.01$

Adjustment (p-value): None

Fuel economy data

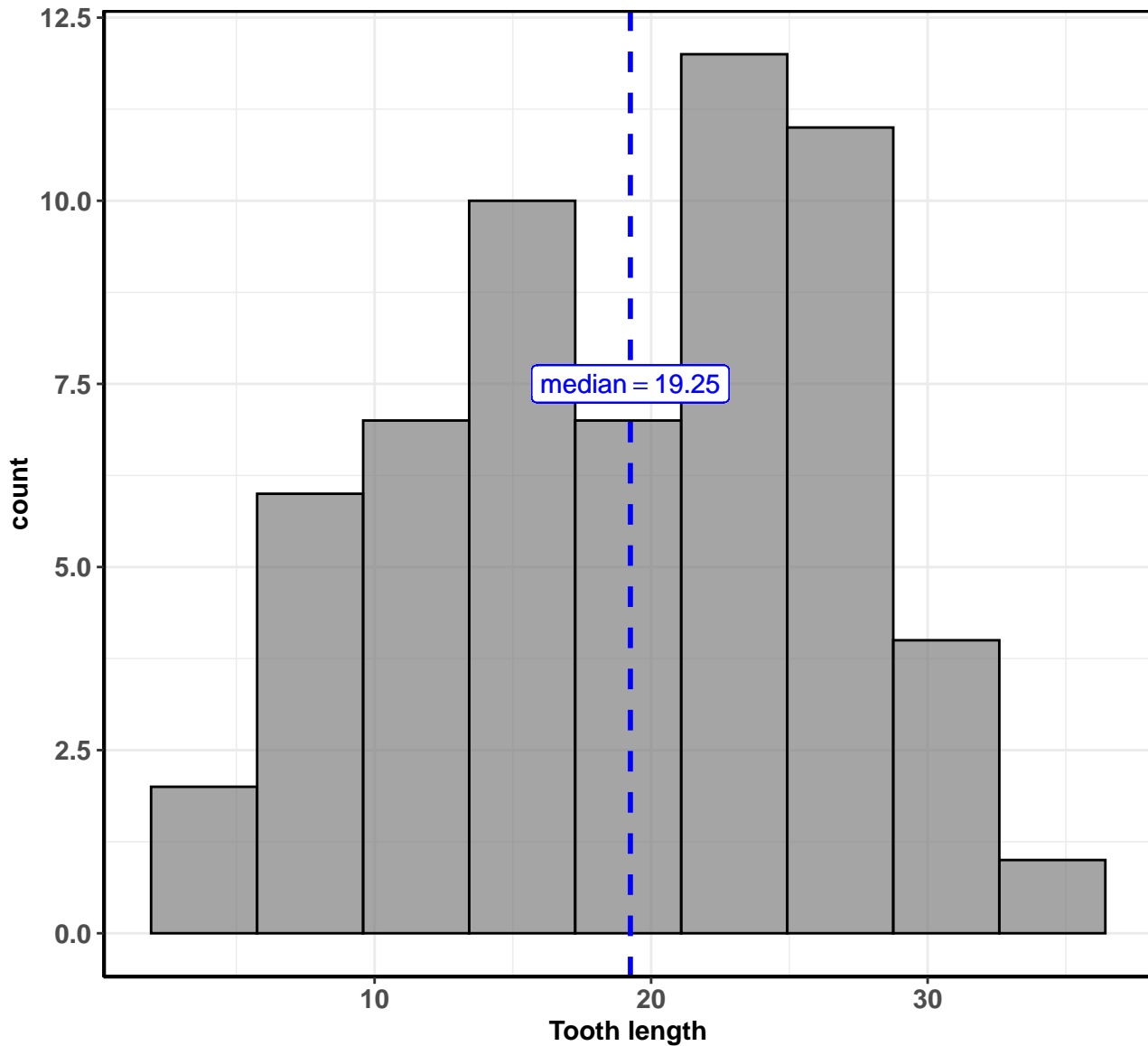
$t(14) = 1.47$, $p = 0.163$, $g = 0.36$, $CI_{99\%} [-0.33, 1.10]$, $n_{obs} = 15$



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

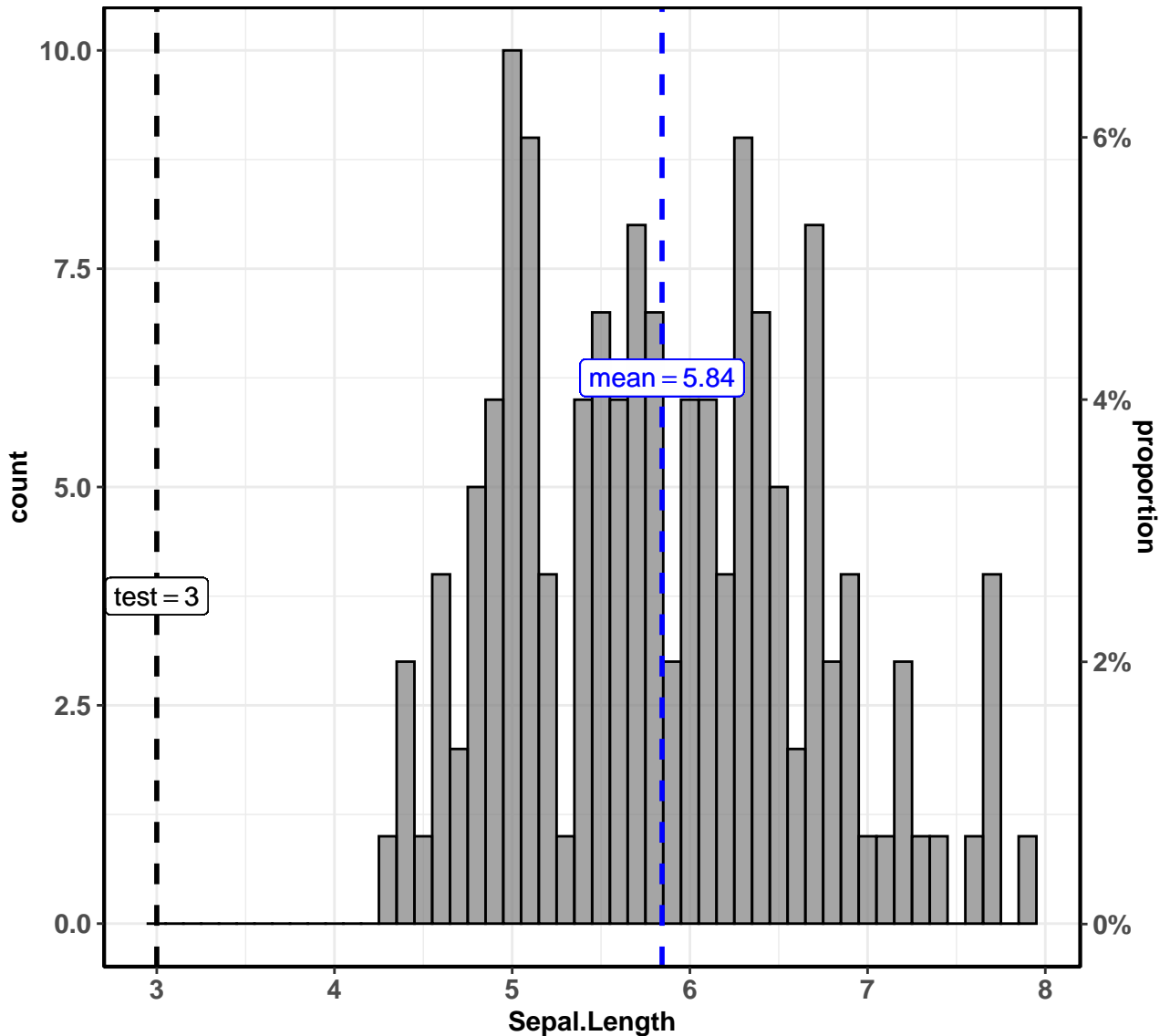
In favor of null: $\log_e(BF_{01}) = 0.44$, $r_{Cauchy}^{JZS} = 0.71$

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



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

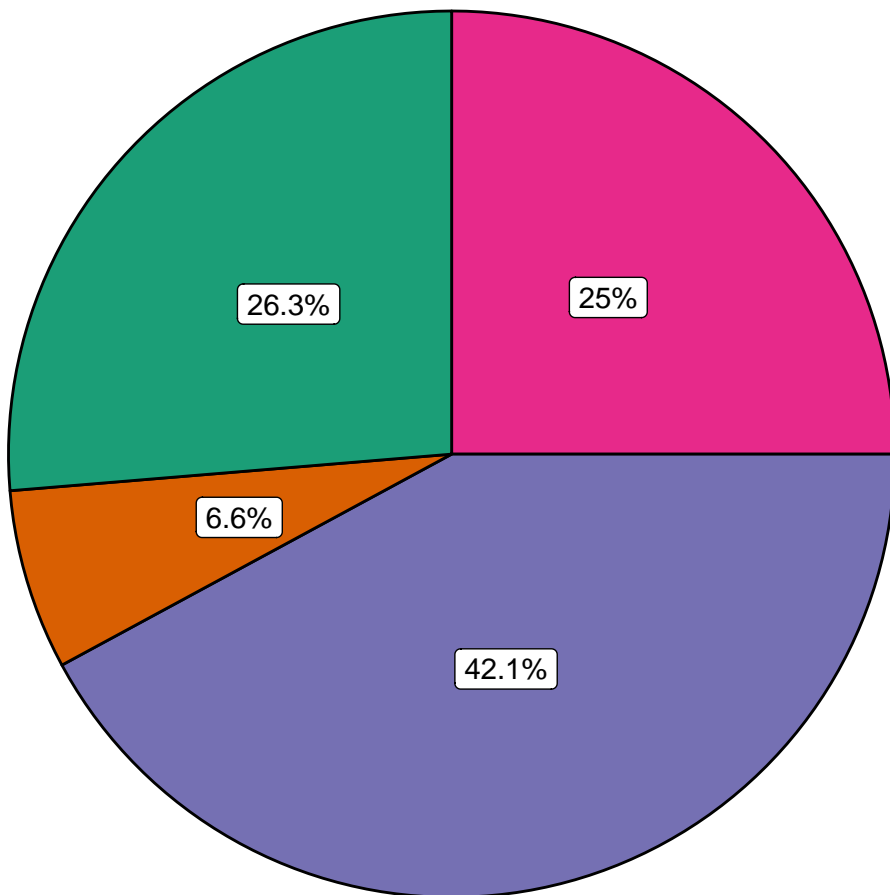
$t(149) = 42.05, p = < 0.001, g = 3.42, CI_{95\%} [3.02, 3.86], n_{\text{obs}} = 150$







Note: Iris dataset by Fisher.

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

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

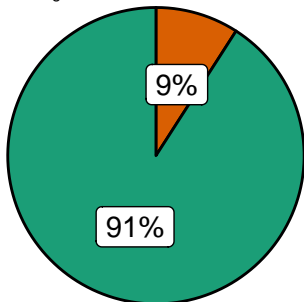


vore  omni  insecti  herbi  carni

$\chi^2_{\text{Pearson}}(2) = 21.34, p = < 0.001, V_{\text{Cramer}} = 0.82, \text{CI}_{95\%} [0.57, 0.94], n_{\text{obs}} = 32$

4

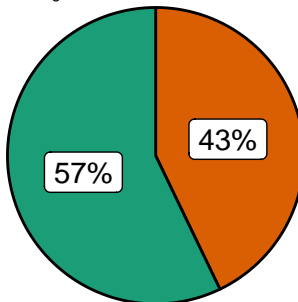
$\chi^2_{\text{gof}}(1) = 7.36, p = 0.007$



(n = 11)

6

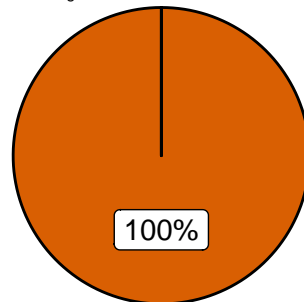
$\chi^2_{\text{gof}}(1) = 0.14, p = 0.705$



(n = 7)

8

$\chi^2_{\text{gof}}(1) = 14, p \leq 0.001$

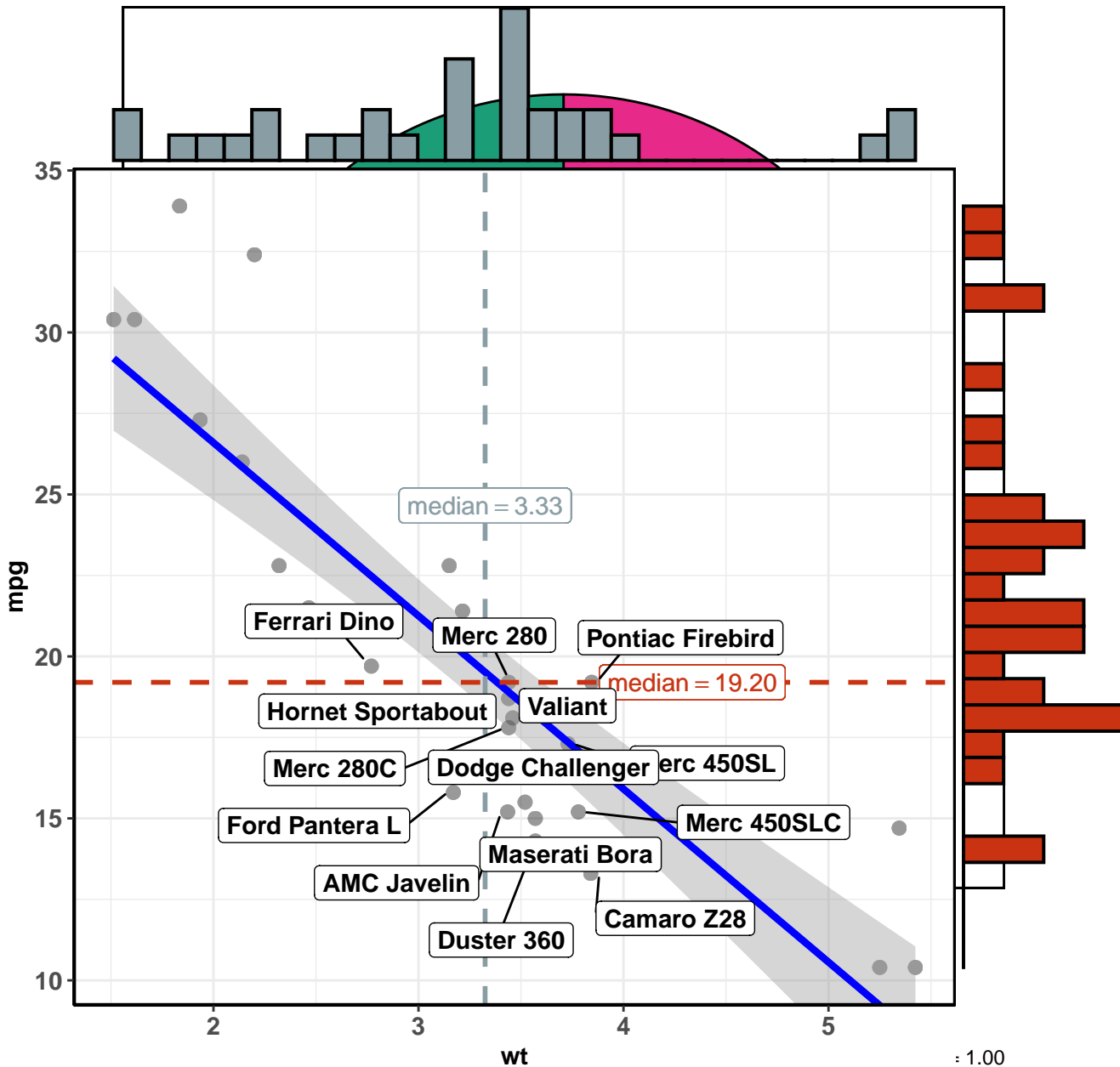


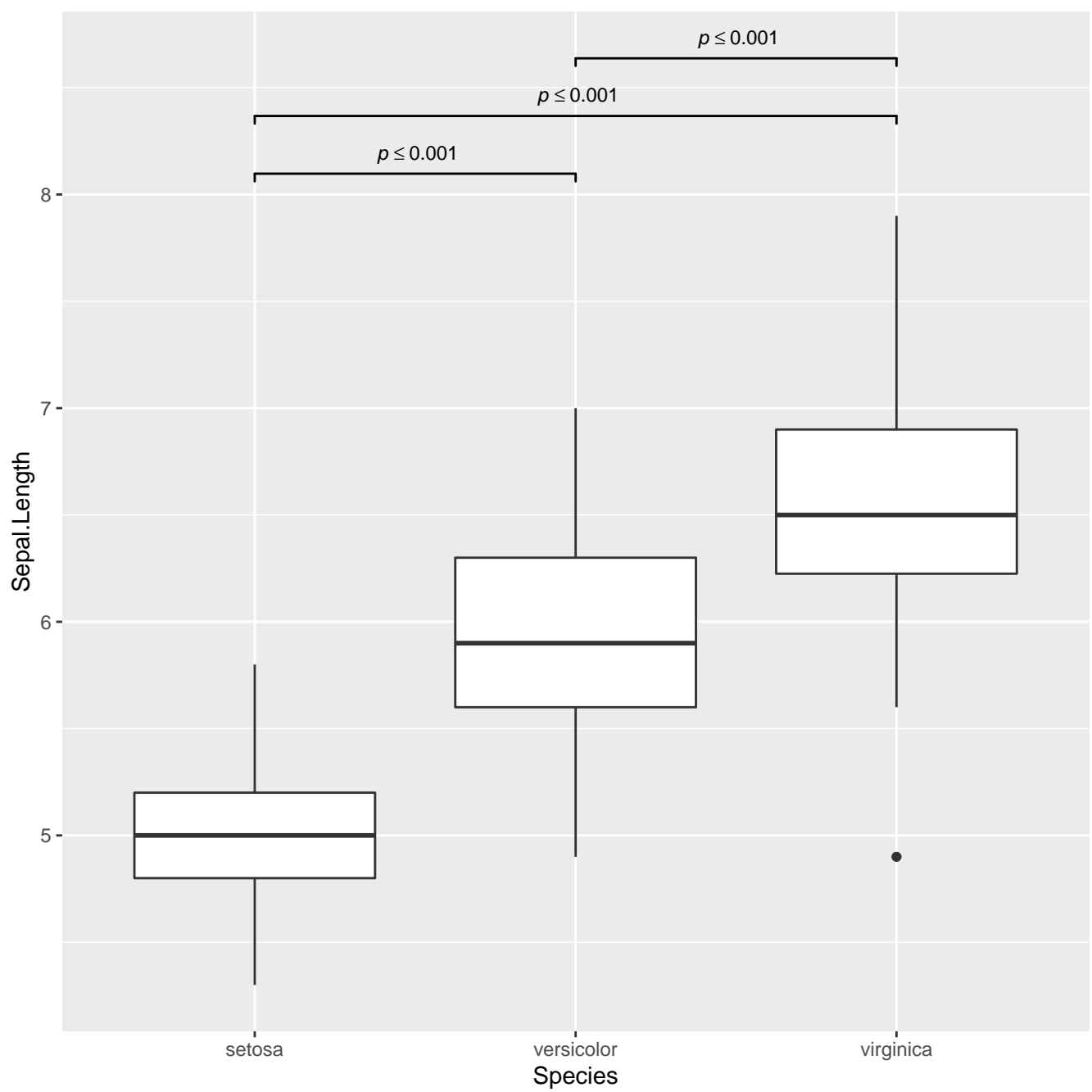
(n = 14)

Engine  0 = V-shaped  1 = straight

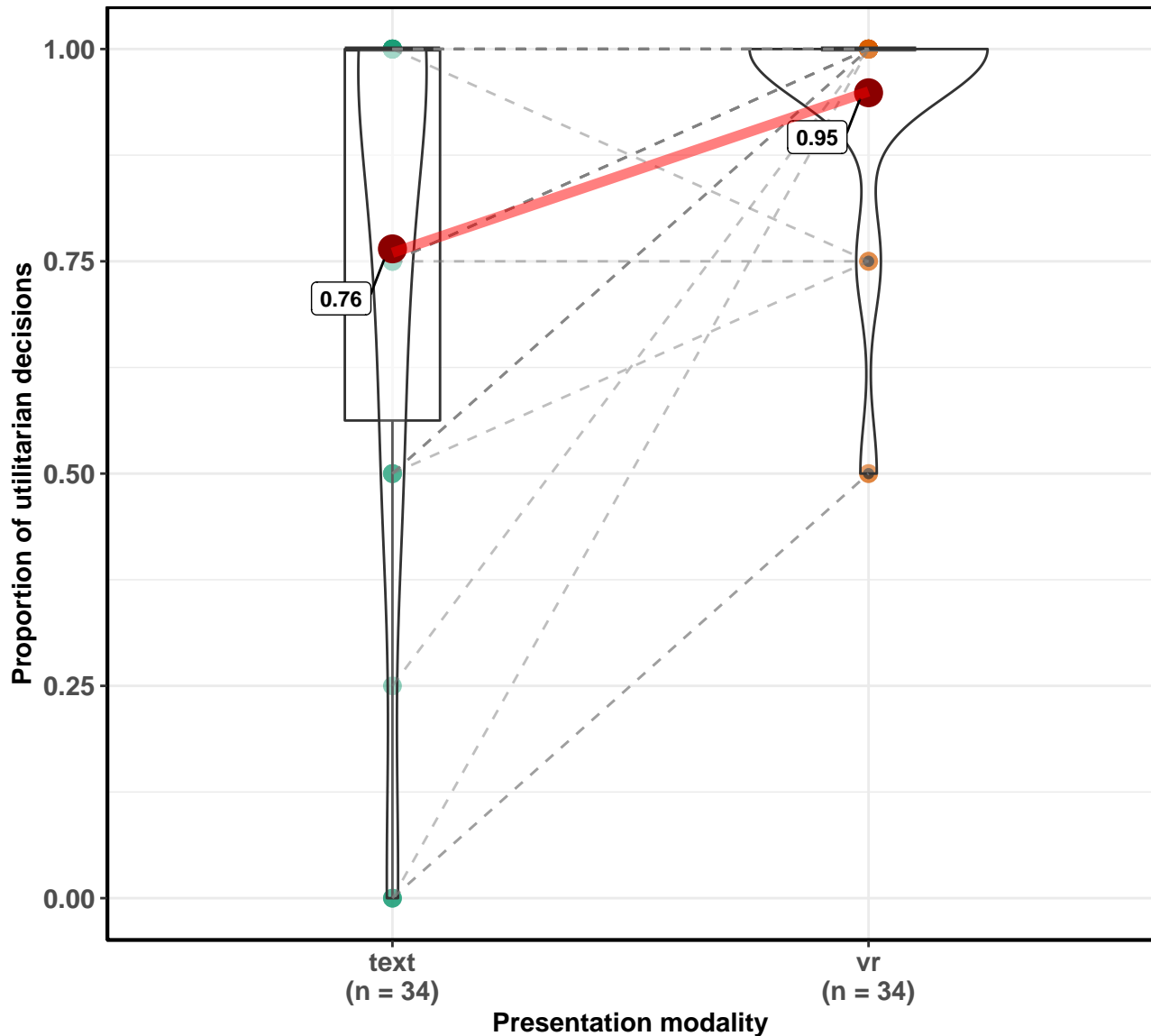
In favor of null: $\log_e(\text{BF}_{01}) = -10.31$, sampling = independent multinomial, $a = 1.00$

$\log_e(S) = 9.24$, $p = < 0.001$, $\rho_{\text{Spearman}} = -0.89$, $Cl_{95\%} [-1.03, -0.79]$, $n_{\text{pairs}} = 32$
 $\chi^2_{\text{gof}}(3) = 133.47$, $p = < 0.001$, $V_{\text{Cramer}} = 0.27$, $Cl_{95\%} [0.23, 0.31]$, $n_{\text{obs}} = 592$



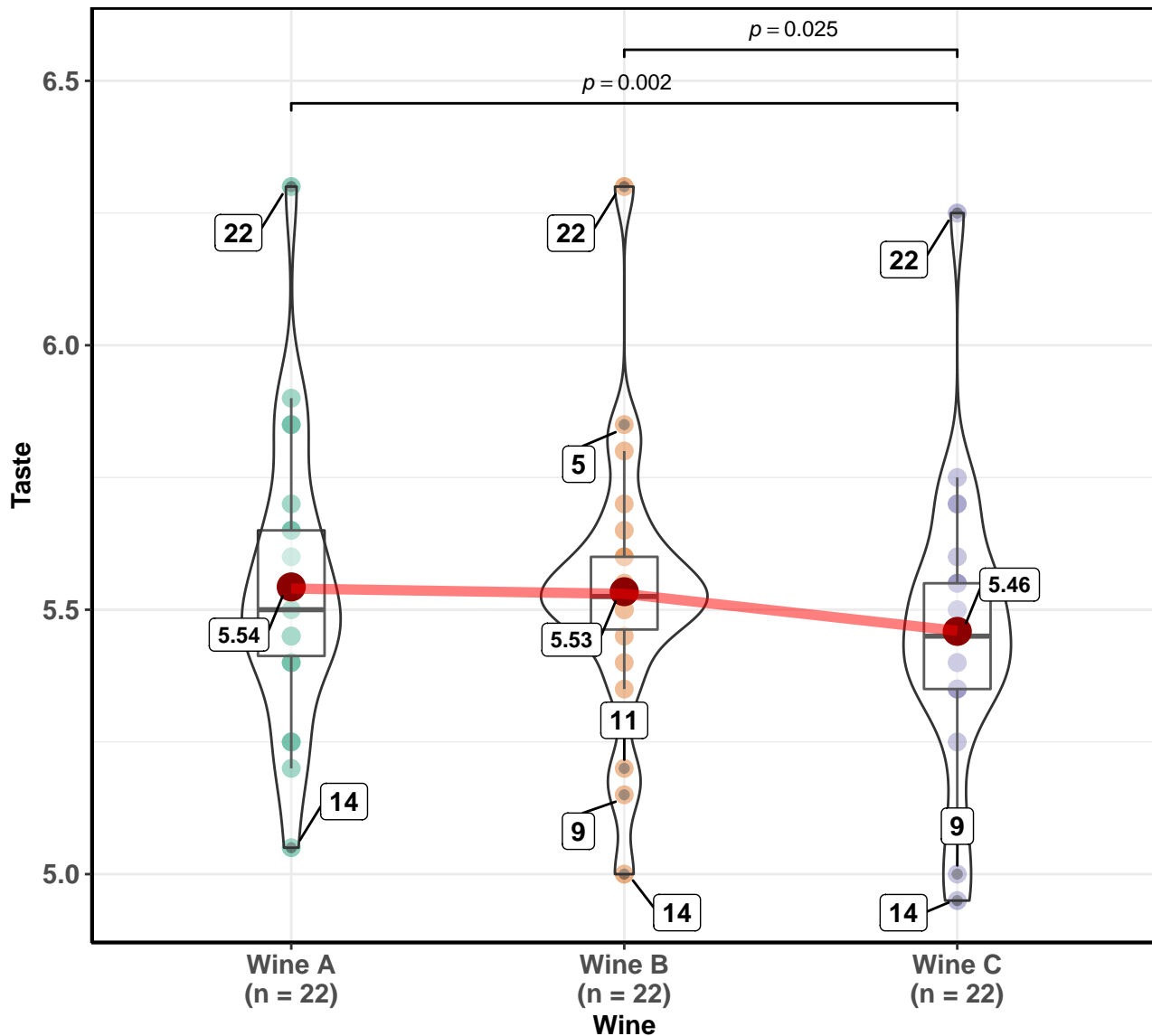


$t(33) = -3.96, p = < 0.001, g = -0.66, CI_{95\%} [-1.07, -0.31], n_{\text{pairs}} = 34$



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

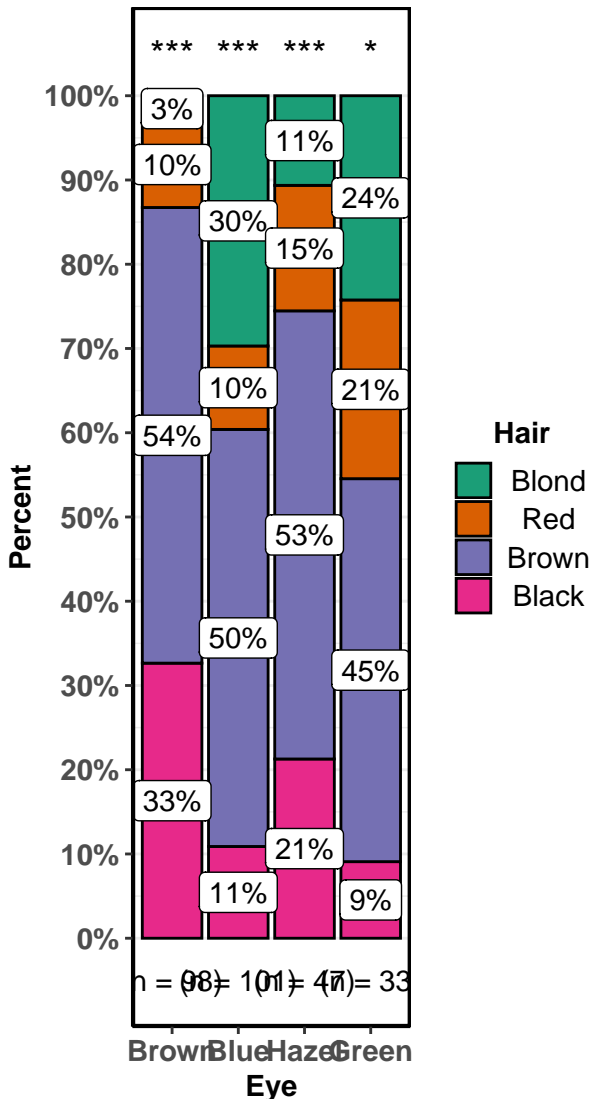
$\chi^2(2) = 11.14, p = 0.004, W_{\text{Kendall}} = 0.82, \text{CI}_{99\%} [0.82, 1.00], n_{\text{pairs}} = 22$



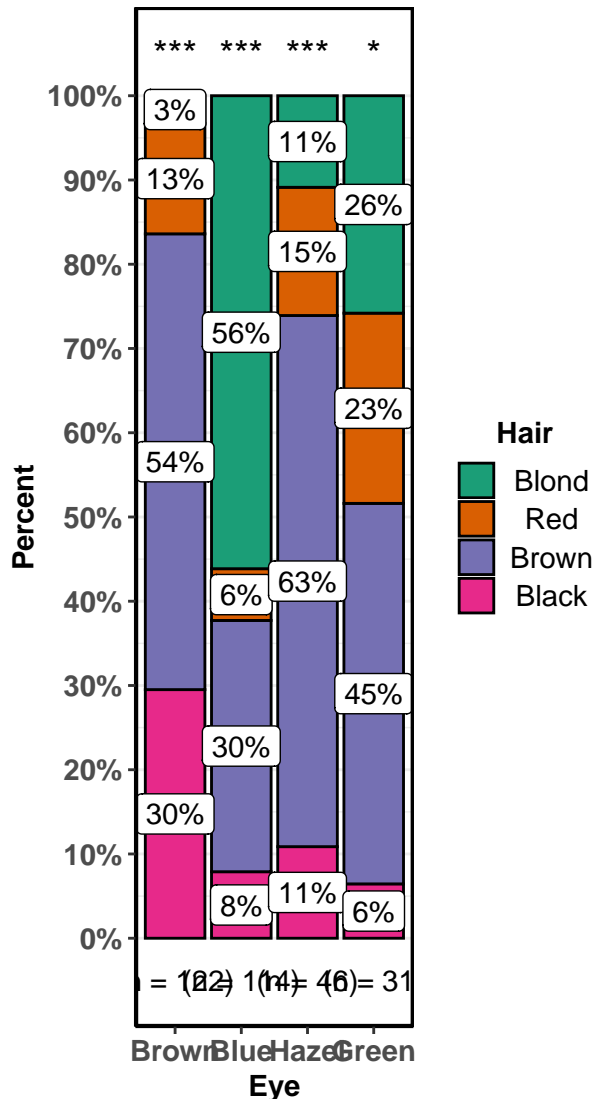
Pairwise comparisons: **Durbin–Conover test**; Adjustment (p-value): **Holm**

Sex: Male

$-41.28, p = < 0.001, V_{\text{Cramer}} = 0.22, \text{CI}_{95\%} [0.12, 0.26], n = 106.66, p = < 0.001, V_{\text{Cramer}} = 0.34, \text{CI}_{95\%} [0.28, 0.38], n_{\text{obs}} = 106$



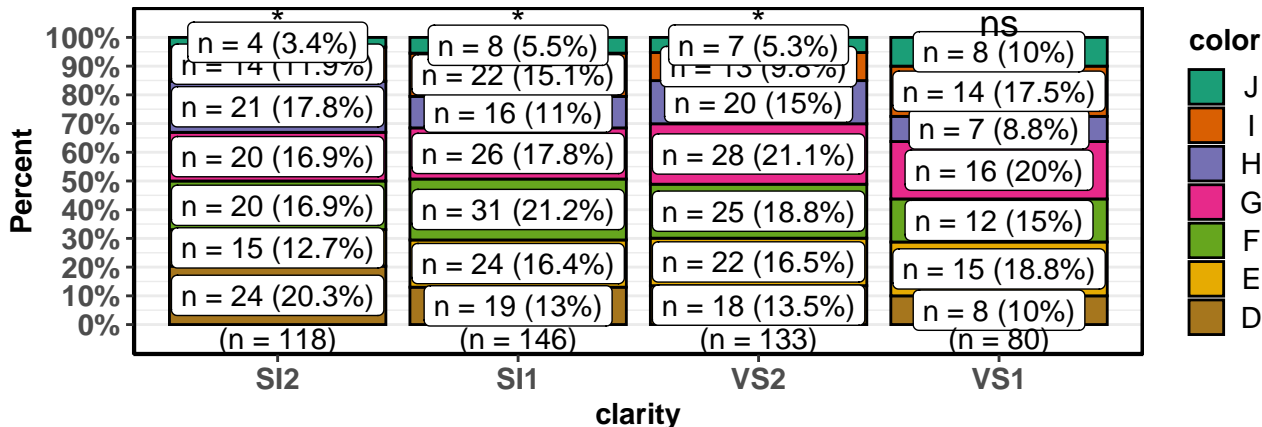
Sex: Female



sampling = independent multinomial, $a = 1.00$

Quality: Very Good

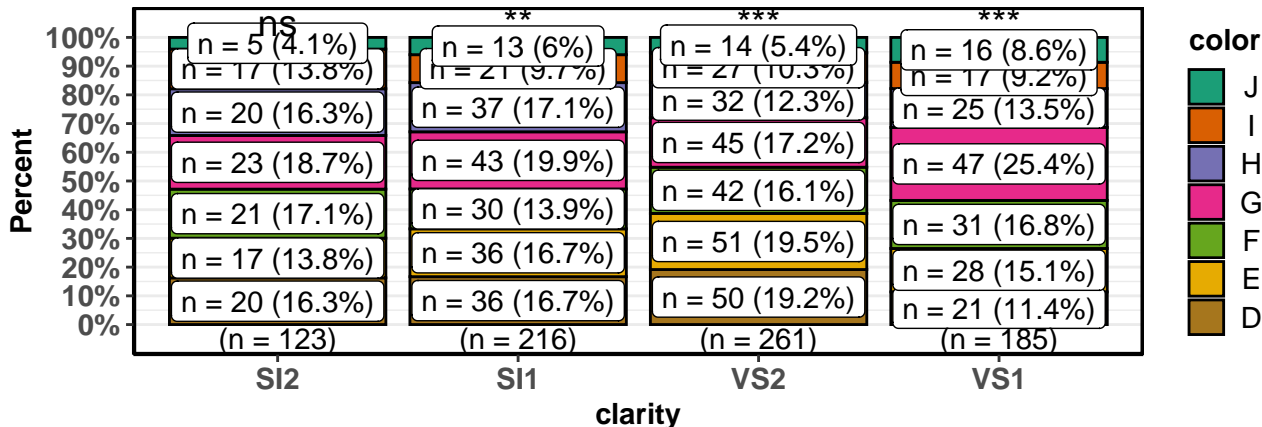
$\chi^2_{\text{Pearson}}(18) = 17.95$, $p = 0.459$, $V_{\text{Cramer}} = 0.11$, $\text{CI}_{95\%} [0.02, 0.11]$, $n_{\text{obs}} = 477$



In favor of null: $\log_e(\text{BF}_{01}) = 4.95$, sampling = poisson, $a = 1.00$

Quality: Ideal

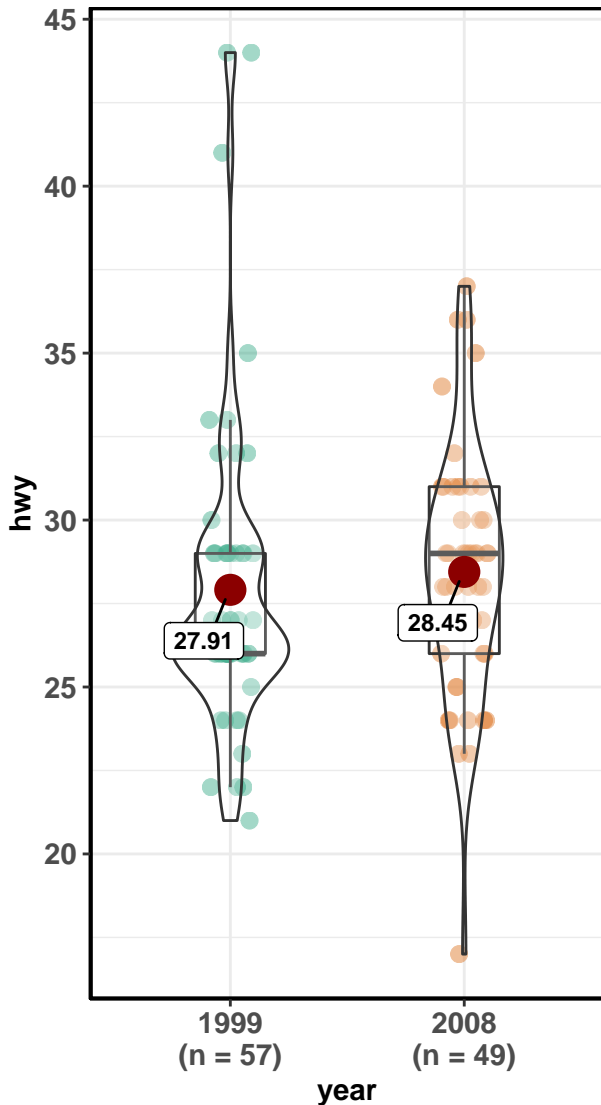
$\chi^2_{\text{Pearson}}(18) = 17.85$, $p = 0.466$, $V_{\text{Cramer}} = 0.09$, $\text{CI}_{95\%} [0.02, 0.08]$, $n_{\text{obs}} = 785$



In favor of null: $\log_e(\text{BF}_{01}) = 9.05$, sampling = poisson, $a = 1.00$

drv: f

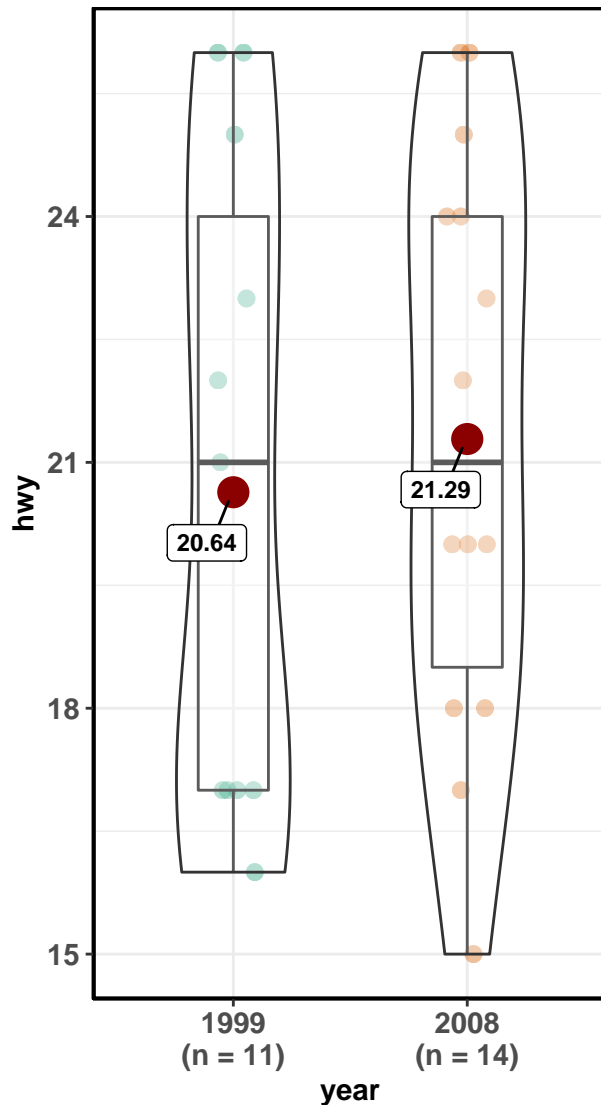
$\log_e(BF_{01}) = -0.66, p = 0.509, g = -0.13, CI_{99\%} [-0.63, 0.37]$



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

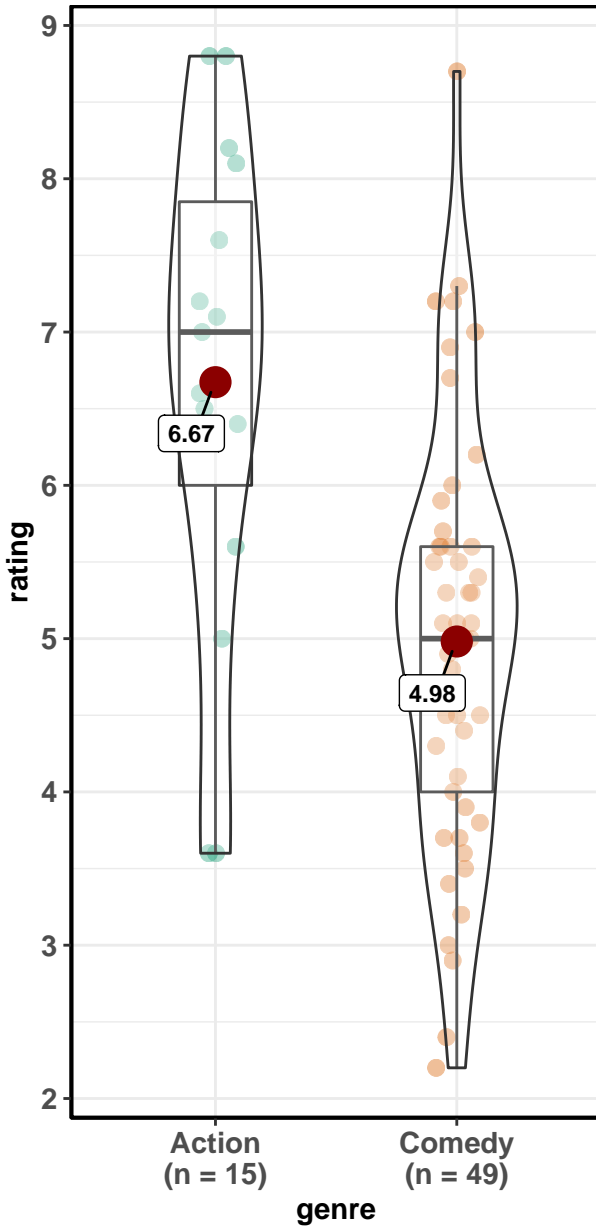
drv: r

$\log_e(BF_{01}) = -0.43, p = 0.675, g = -0.17, CI_{99\%} [-1.21, 0.87]$

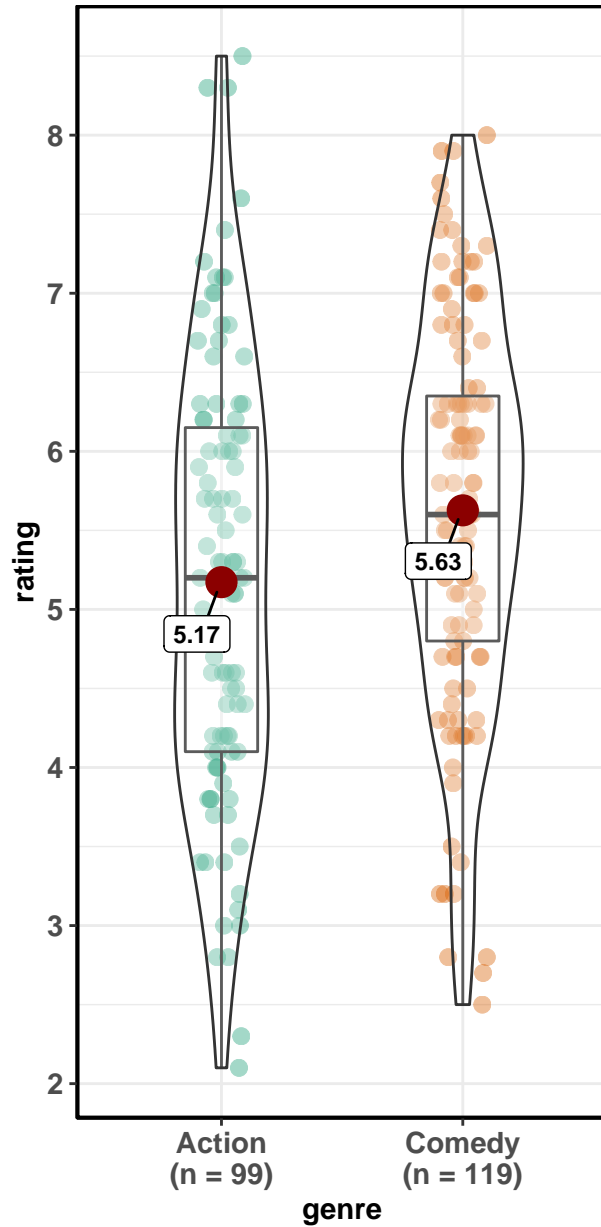


In favor of null: $\log_e(BF_{01}) = 0.93, r_{Cauchy}^{JZS} = 0.71$

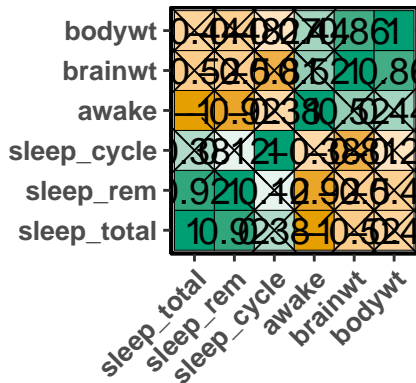
mpaa: PG



mpaa: R



vore: carni

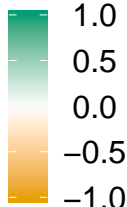


sample size:

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

correlation:

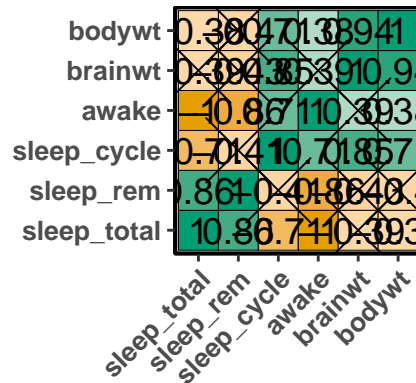
Pearson



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

Adjustment (p-value): None

vore: herbi

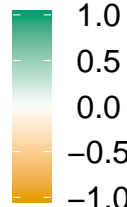


sample size:

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

correlation:

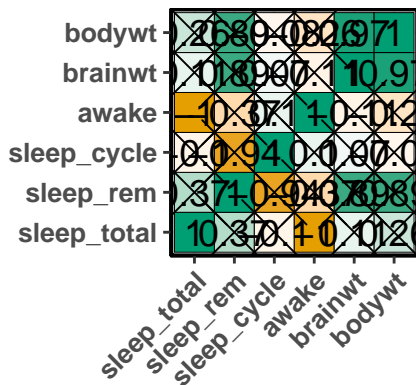
Pearson



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

Adjustment (p-value): None

vore: insecti

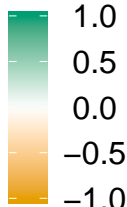


sample size:

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

correlation:

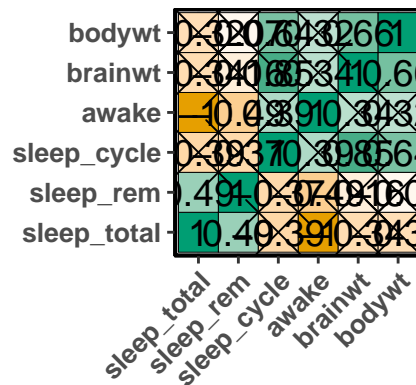
Pearson



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:

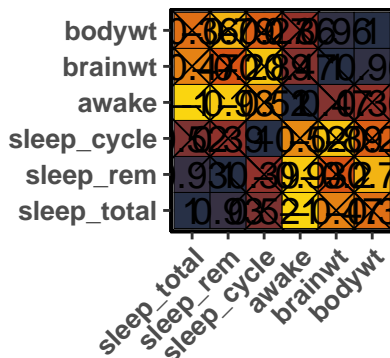
Pearson



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

Adjustment (p-value): None

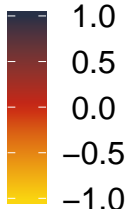
vore: carni



sample size:

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

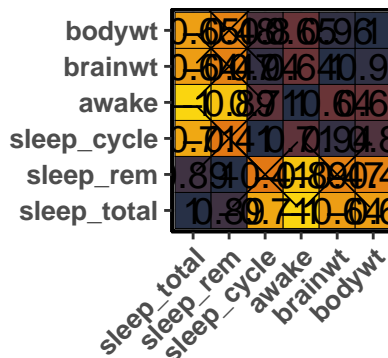
correlation:
 robust (% bend)



= correlation non-significant at $p < 0.05$

Adjustment (p-value): Holm

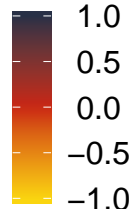
vore: herbi



sample size:

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

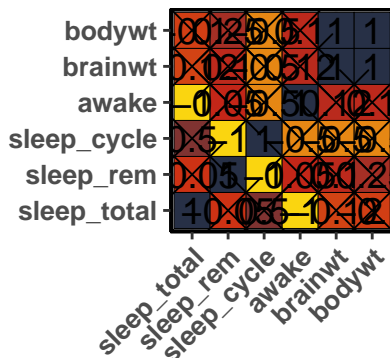
correlation:
 robust (% bend)



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

Adjustment (p-value): Holm

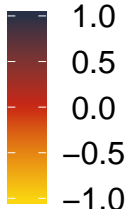
vore: insecti



sample size:

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

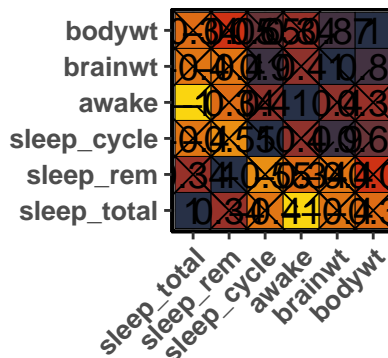
correlation:
 robust (% bend)



= correlation non-significant at $p < 0.05$

Adjustment (p-value): Holm

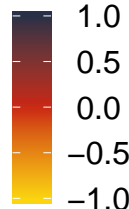
vore: omni



sample size:

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

correlation:
 robust (% bend)

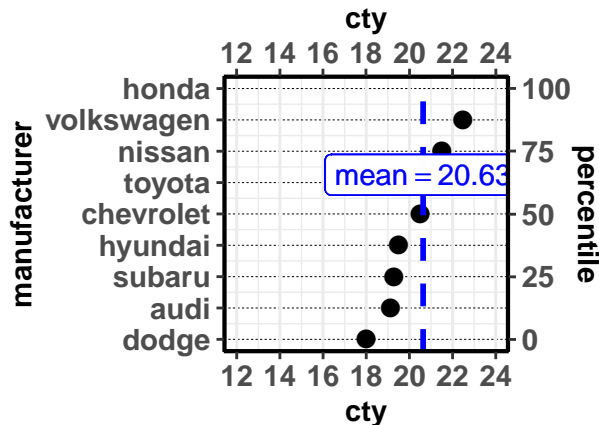


X = correlation non-significant at $p < 0.05$

Adjustment (p-value): Holm

cylinder count: 4

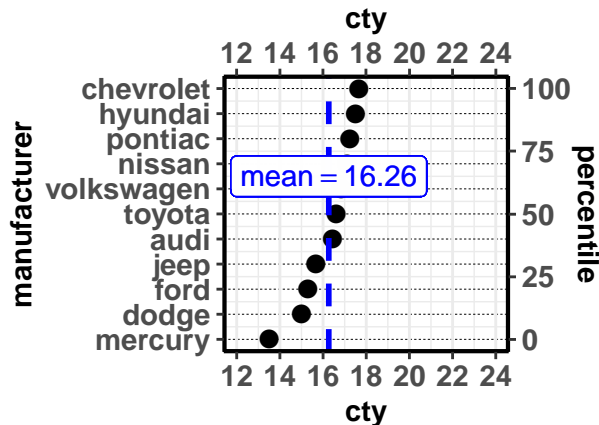
$t(8) = 7.82, p = < 0.001, g = 2.32, CI_{95\%} [1.25, 4.25], r = 0.89$



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

cylinder count: 6

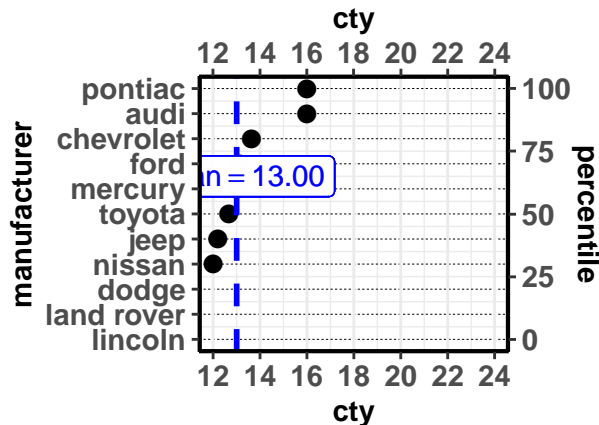
$t(10) = 1.99, p = 0.075, g = 0.55, CI_{95\%} [-0.06, 1.29], n = 11$



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

cylinder count: 8

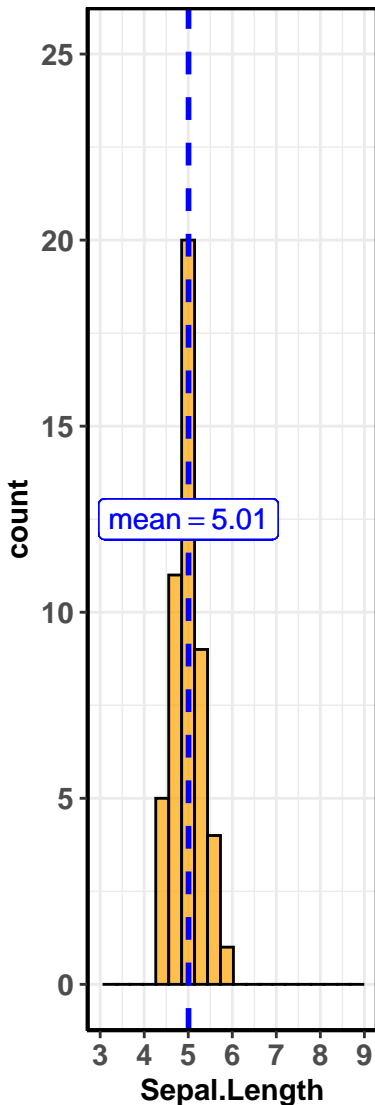
$t(10) = -5.01, p = 0.001, g = -1.38, CI_{95\%} [-2.49, -0.64], n_{obs} = 11$



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

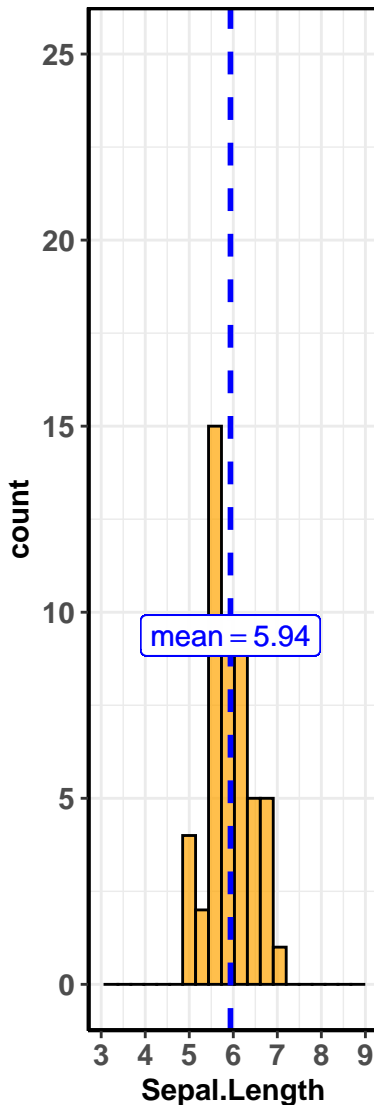
Species: setosa

$t(49) = 26.82, p = < 0.001, g = 1.78, CI_{95\%} [4.37, 6.66], p = < 0.001, g = 2.46, CI_{95\%} [1.95, 2.97]$



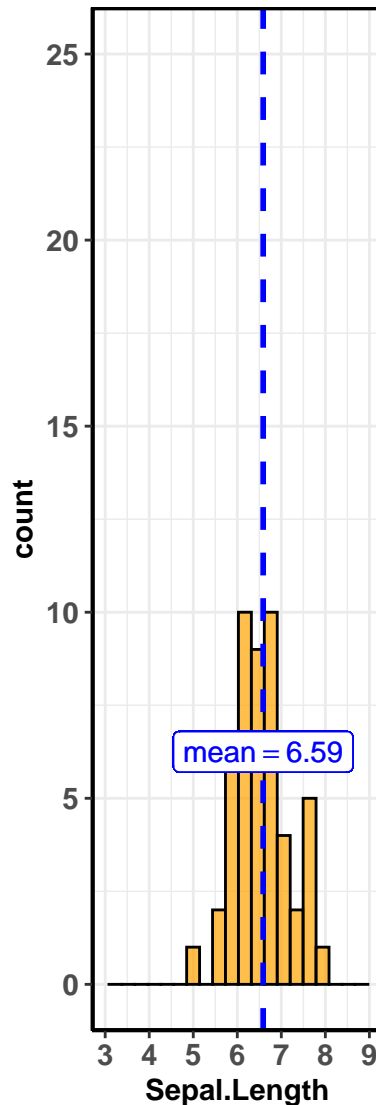
Species: versicolor

$t(49) = 26.82, p = < 0.001, g = 1.78, CI_{95\%} [4.37, 6.66], p = < 0.001, g = 2.46, CI_{95\%} [1.95, 2.97]$



Species: virginica

$t(49) = 26.82, p = < 0.001, g = 1.78, CI_{95\%} [4.37, 6.66], p = < 0.001, g = 2.46, CI_{95\%} [1.95, 2.97]$

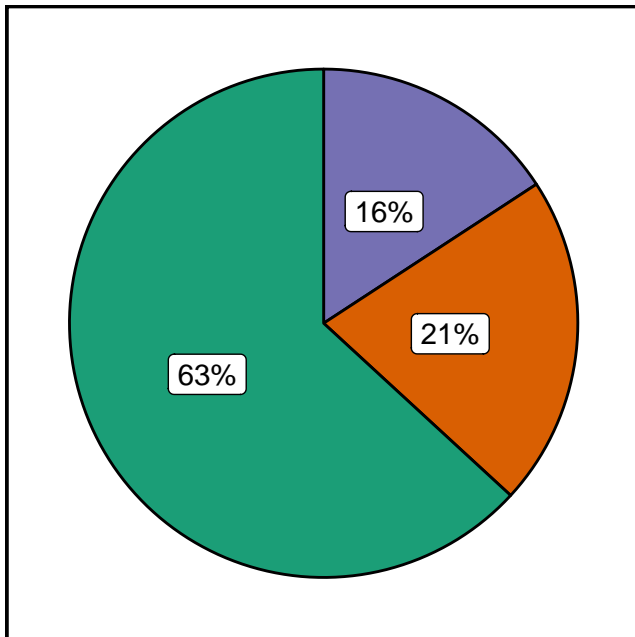


of null: $\log_e(BF_{01}) = 1.86, r_{Cauchy}^{JZS} = 0.71$ of null: $\log_e(BF_{01}) = -32.95, r_{Cauchy}^{JZS} = 0.71$ of null: $\log_e(BF_{01}) = -45.50, r_{Cauchy}^{JZS} = 0.71$

am: 0

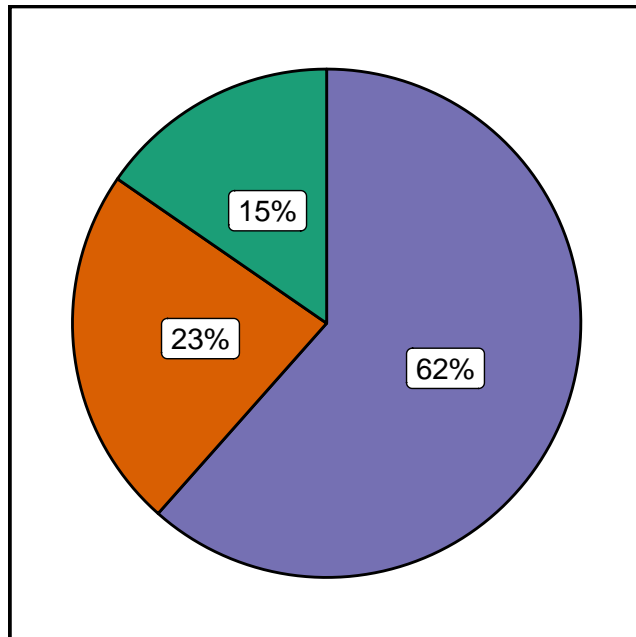
am: 1

$\chi^2(2) = 7.68, p = 0.021, V_{\text{Cramer}} = 0.45, \text{CI}_{95\%} [0.05, 0.77], n_{\text{obs}} = 46$ $\chi^2(2) = 4.77, p = 0.092, V_{\text{Cramer}} = 0.43, \text{CI}_{95\%} [0.07, 0.71], n_{\text{obs}} = 46$



cyl 8 6 4

In favor of null: $\log_e(\text{BF}_{01}) = -0.16, a = 1.00$

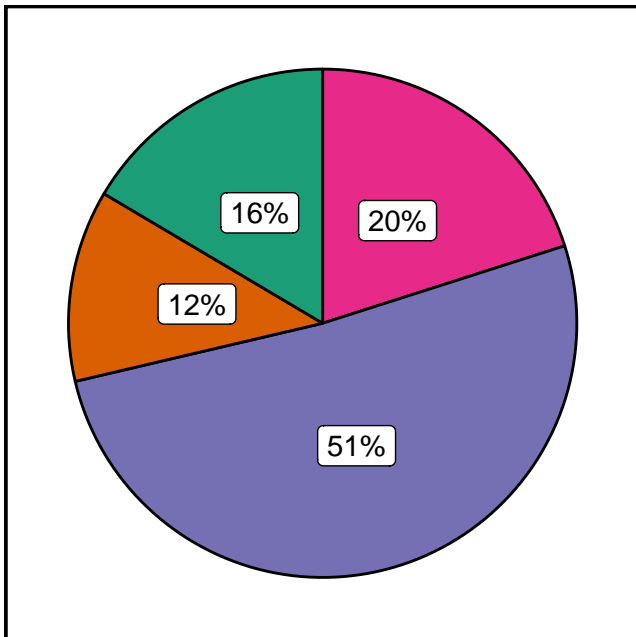


cyl 8 6 4

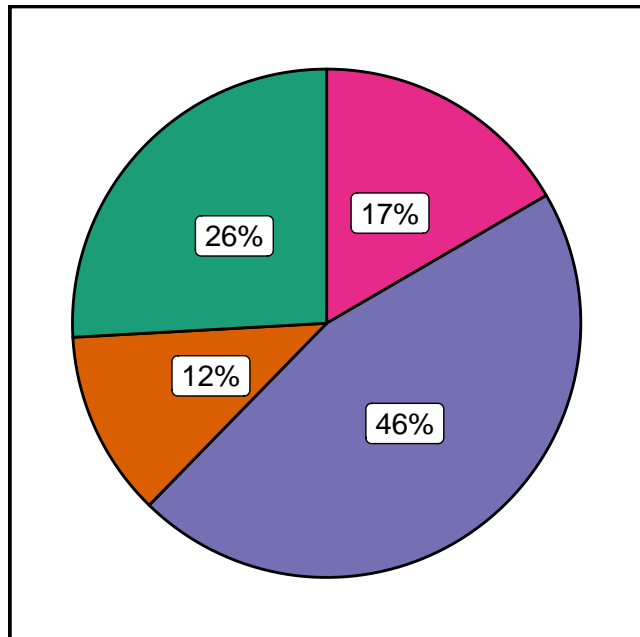
In favor of null: $\log_e(\text{BF}_{01}) = 0.85, a = 1.00$

Sex: Male

106.05, $p = < 0.001$, $V_{\text{Cramer}} = 0.36$, $\text{CI}_{95\%} [0.27, 0.43]$, $n = 84.23$, $p = < 0.001$, $V_{\text{Cramer}} = 0.30$, $\text{CI}_{95\%} [0.23, 0.37]$, $n = 84.23$



Sex: Female



Hair  Blond  Red  Brown  Black

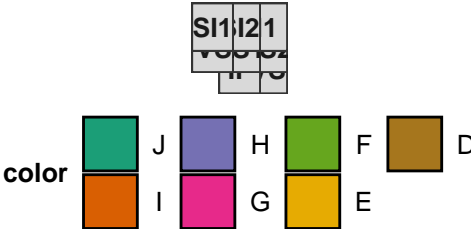
In favor of null: $\log_e(\text{BF}_{01}) = -37.65$, $a = 1.00$

Hair  Blond  Red  Brown  Black

In favor of null: $\log_e(\text{BF}_{01}) = -30.42$, $a = 1.00$

Quality: Fair

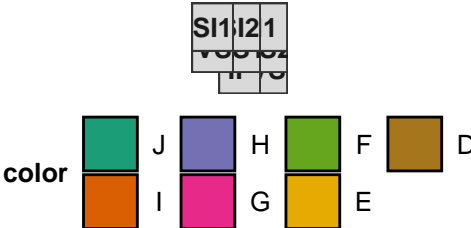
$\chi^2_{\text{Pearson}}(42) = 55.71, p = 0.076, V_{\text{Cramer}} = 0.23, \text{CI}_{95\%} [0.14, 0.22], n_{\text{obs}} = 172$



avor of null: $\log_e(\text{BF}_{01}) = -7.86$, sampling = poisson, $a = 1.00$

Quality: Very Good

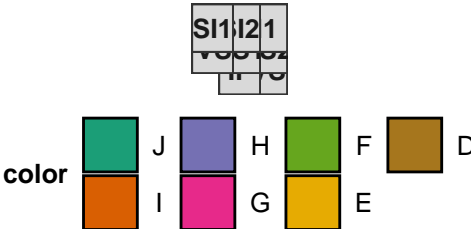
$\chi^2_{\text{Pearson}}(42) = 64.05, p = 0.016, V_{\text{Cramer}} = 0.09, \text{CI}_{95\%} [0.05, 0.09], n_{\text{obs}} = 1187$



avor of null: $\log_e(\text{BF}_{01}) = 14.79$, sampling = poisson, $a = 1.00$

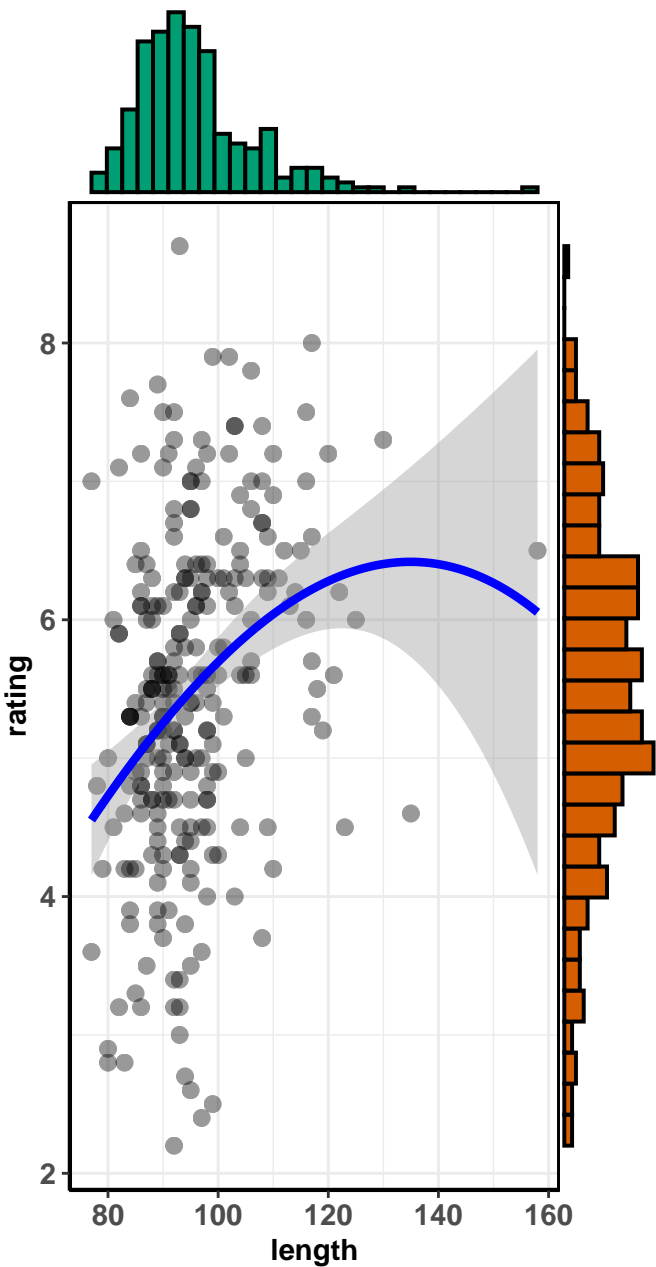
Quality: Ideal

$\chi^2_{\text{Pearson}}(42) = 153.32, p = < 0.001, V_{\text{Cramer}} = 0.11, \text{CI}_{95\%} [0.08, 0.11], n_{\text{obs}} = 2165$

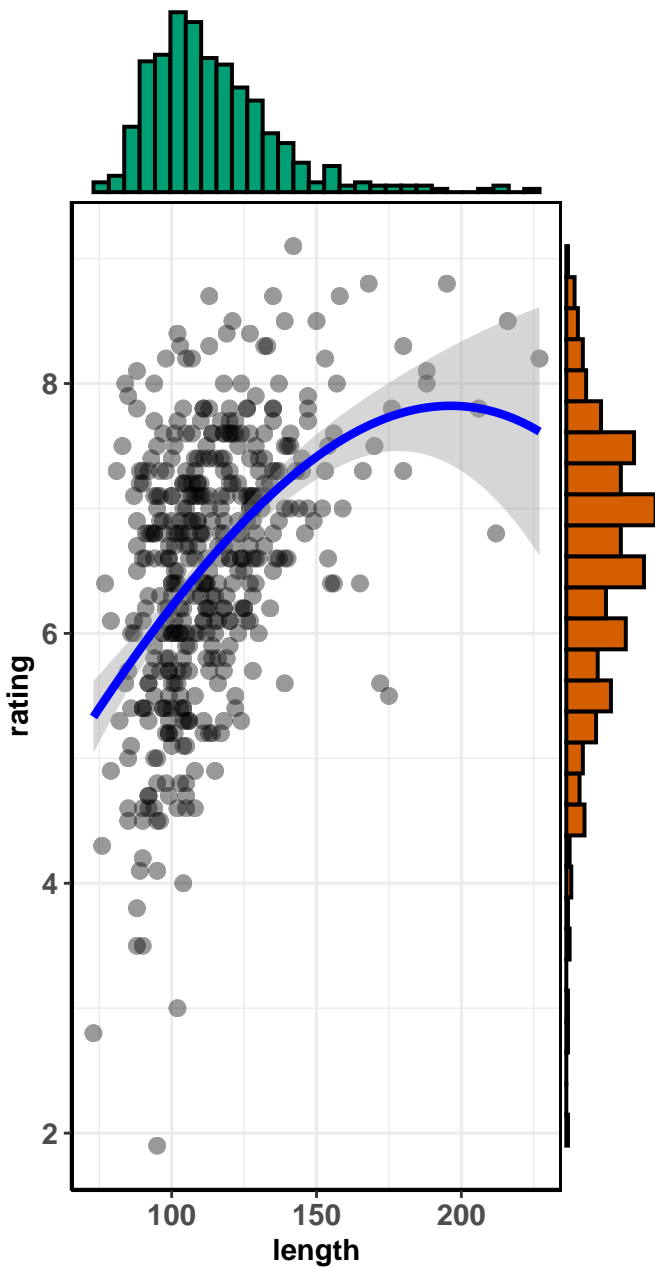


avor of null: $\log_e(\text{BF}_{01}) = -25.04$, sampling = poisson, $a = 1.00$

genre: Comedy

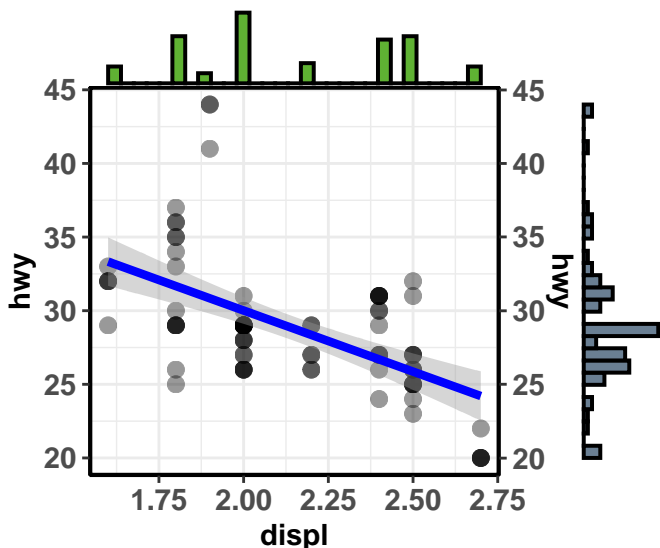


genre: Drama



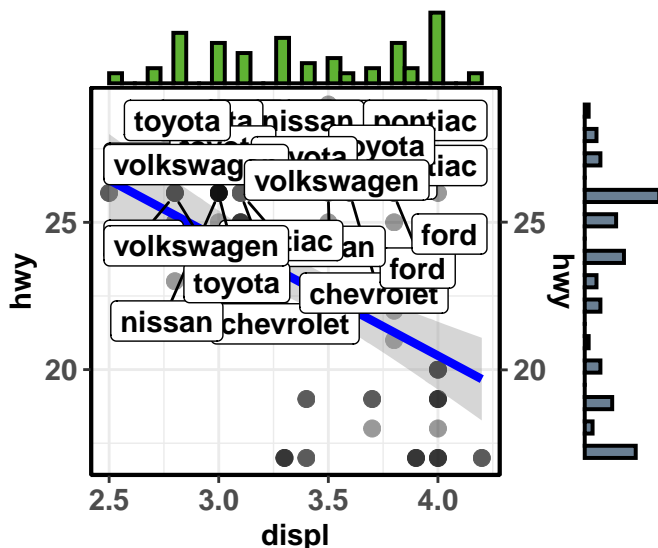
Cylinder count: 4

< 0.001, $\rho_{pb} = -0.61$, $CI_{95\%} [-0.76,$



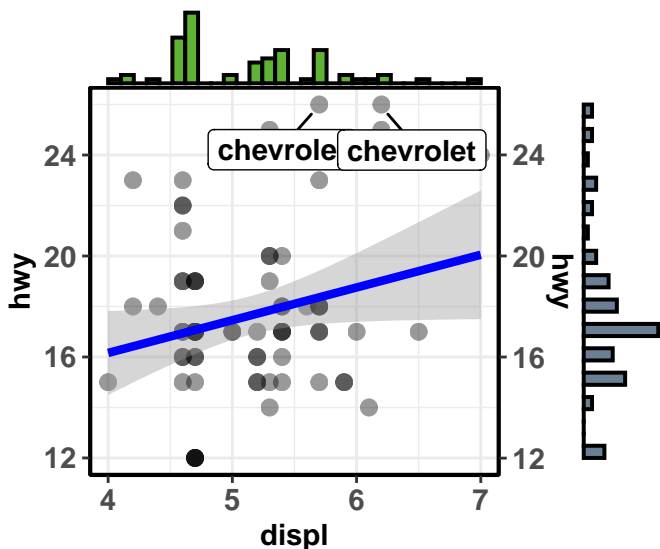
Cylinder count: 6

< 0.001, $\rho_{pb} = -0.50$, $CI_{95\%} [-0.63,$



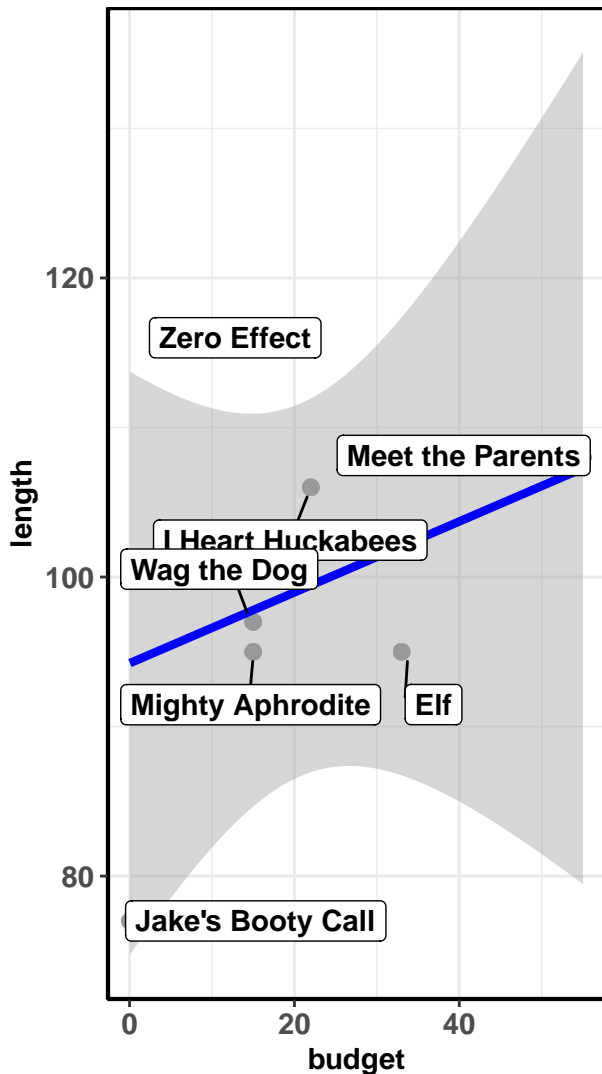
Cylinder count: 8

= 0.216, $\rho_{pb} = 0.15$, $CI_{95\%} [-0.17, 0$

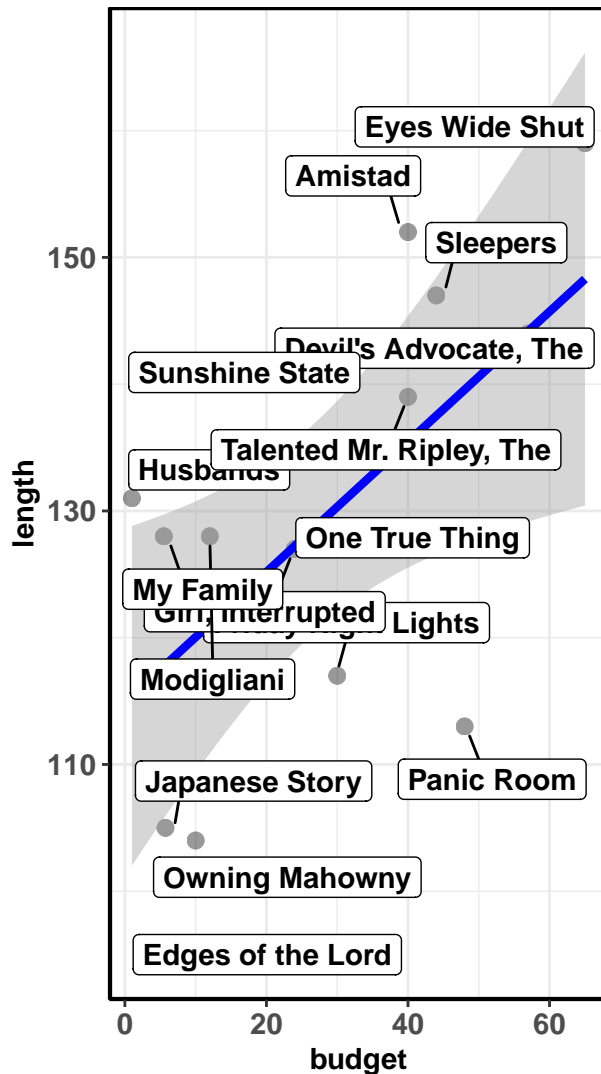


Genre: Comedy

$r(5) = 0.84, p = 0.439, r_{\text{Pearson}} = 0.35, \text{CI}_{95\%} [-0.55, 0.87]$ $t(14) = 2.67, p = 0.018, r_{\text{Pearson}} = 0.58, \text{CI}_{95\%} [0.12, 0.84], r$



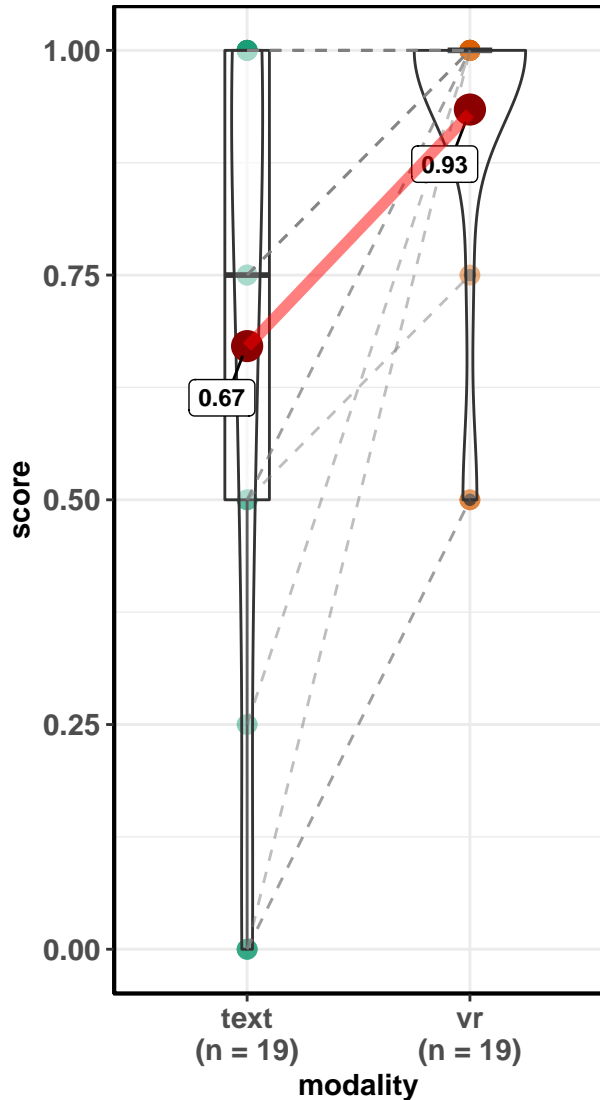
Genre: Drama



All movies have IMDB rating equal to 7.

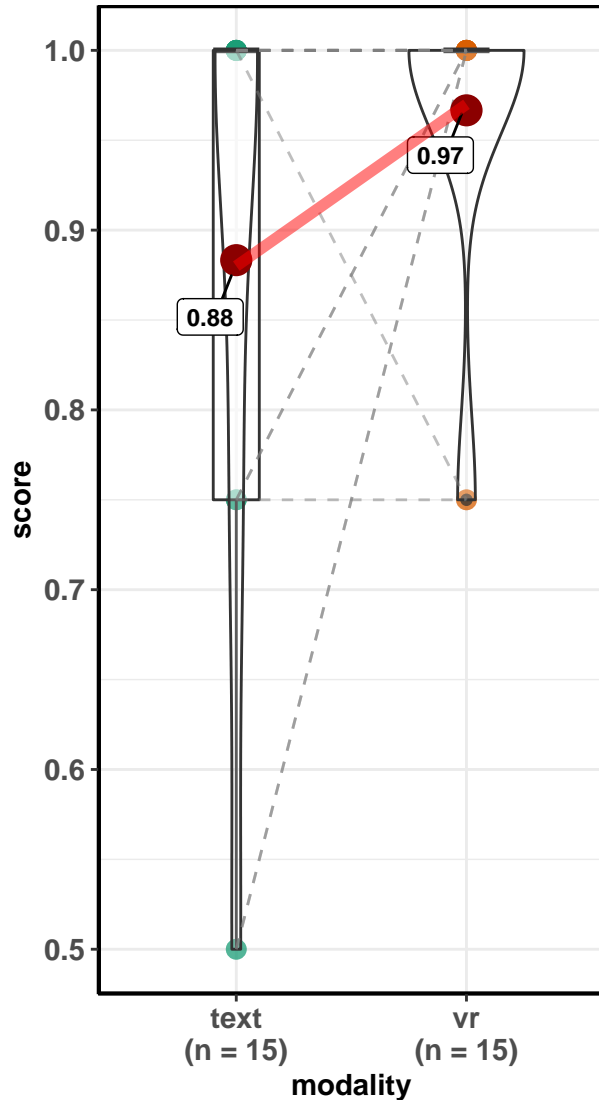
order: 0

$(18) = -3.90, p = 0.001, g = -0.85, \text{CI}_{95\%} [-1.46, -0.36], t(14) = -1.58, p = 0.136, g = -0.38, \text{CI}_{95\%} [-0.96, 0.13], n$



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

order: 1



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

