

Dataset: Iris Flower dataset

(a) setosa

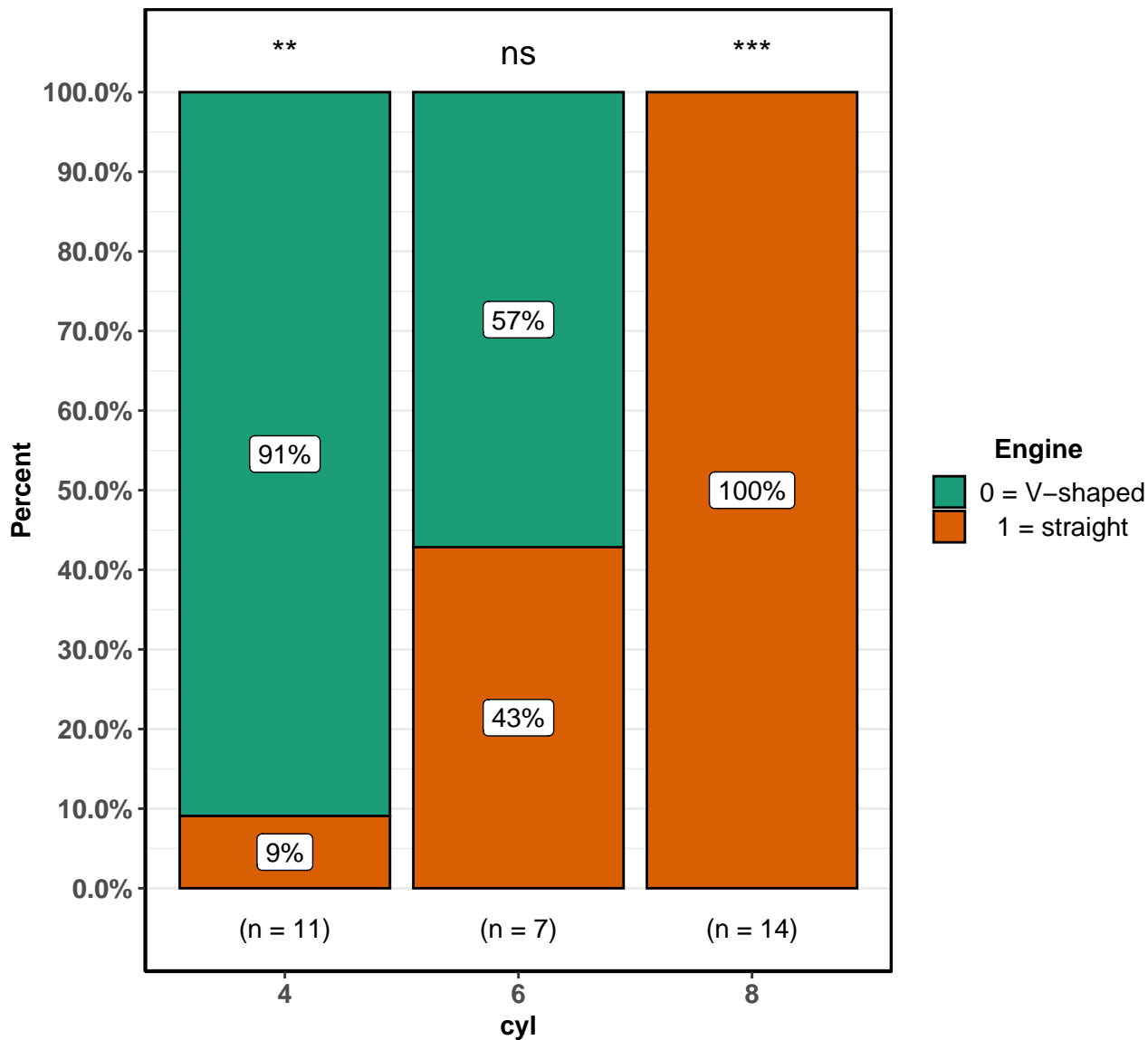


(b) versicolor



Note: Only two species of flower are displayed

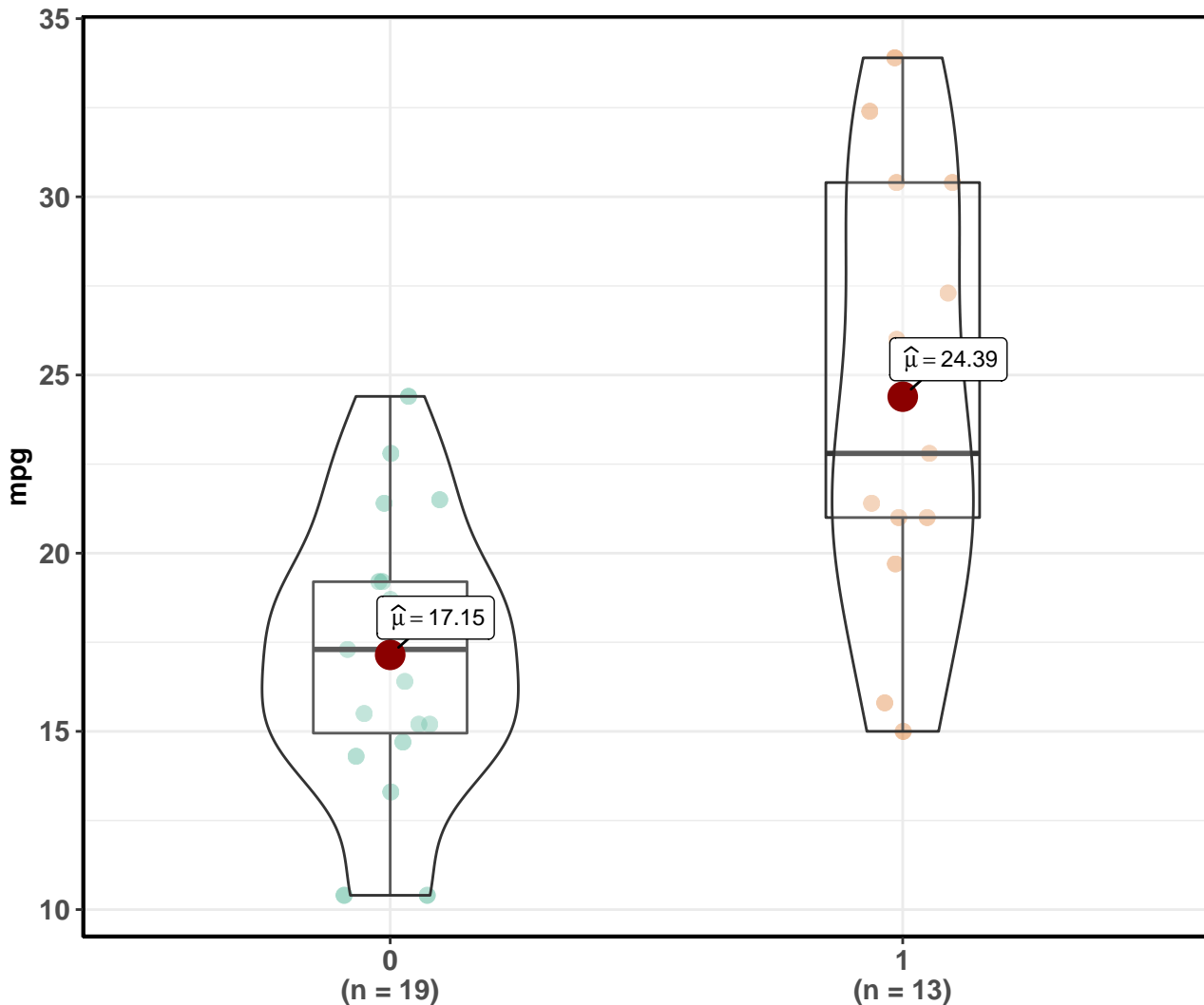
$\chi^2_{\text{Pearson}}(2) = 21.34, p = < 0.001, \hat{V}_{\text{Cramer}} = 0.79, \text{CI}_{95\%} [0.63, 0.84], n_{\text{obs}} = 32$



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

Fuel efficiency by type of car transmission

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

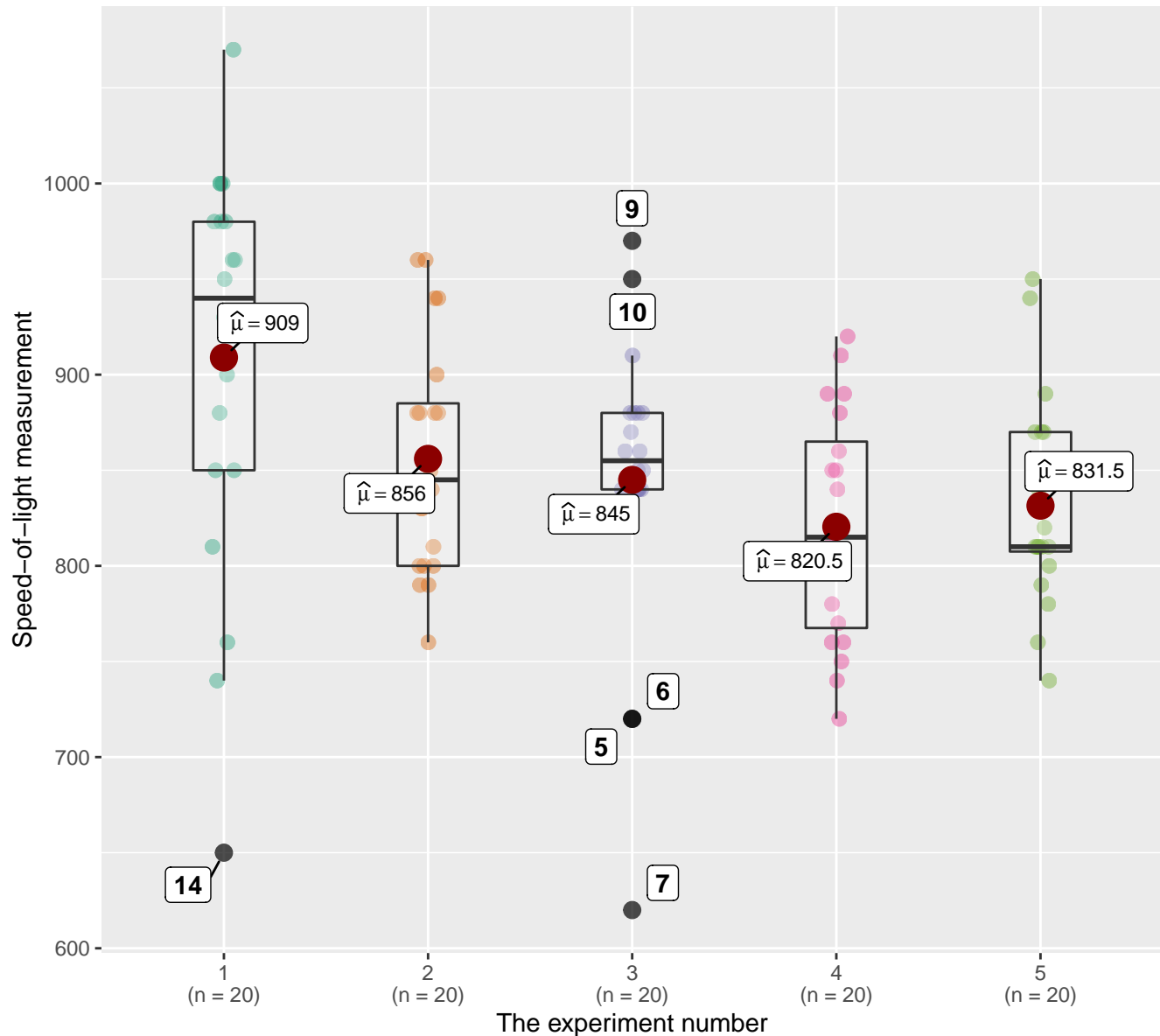


am

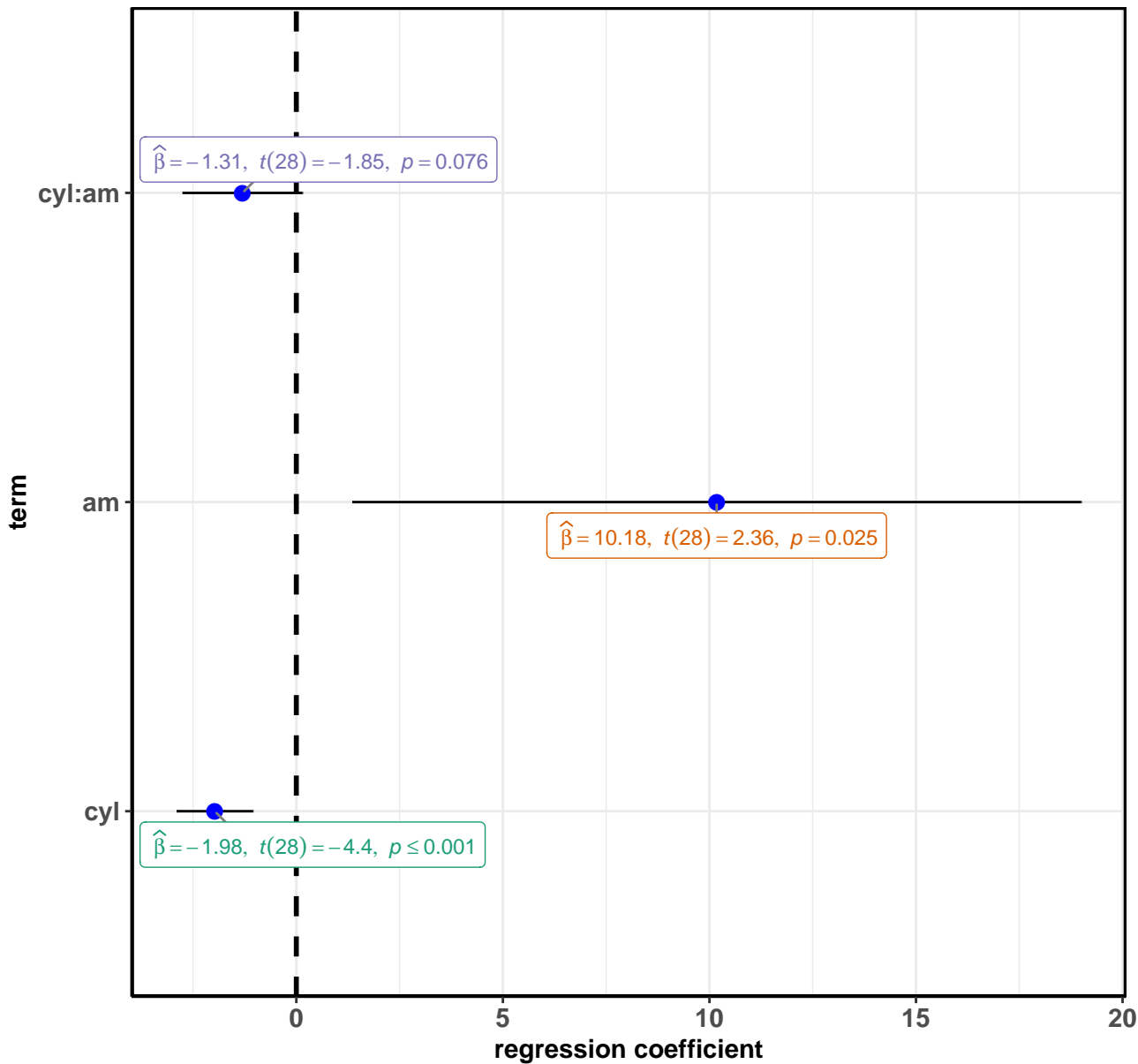
Transmission (0 = automatic, 1 = manual)

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

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

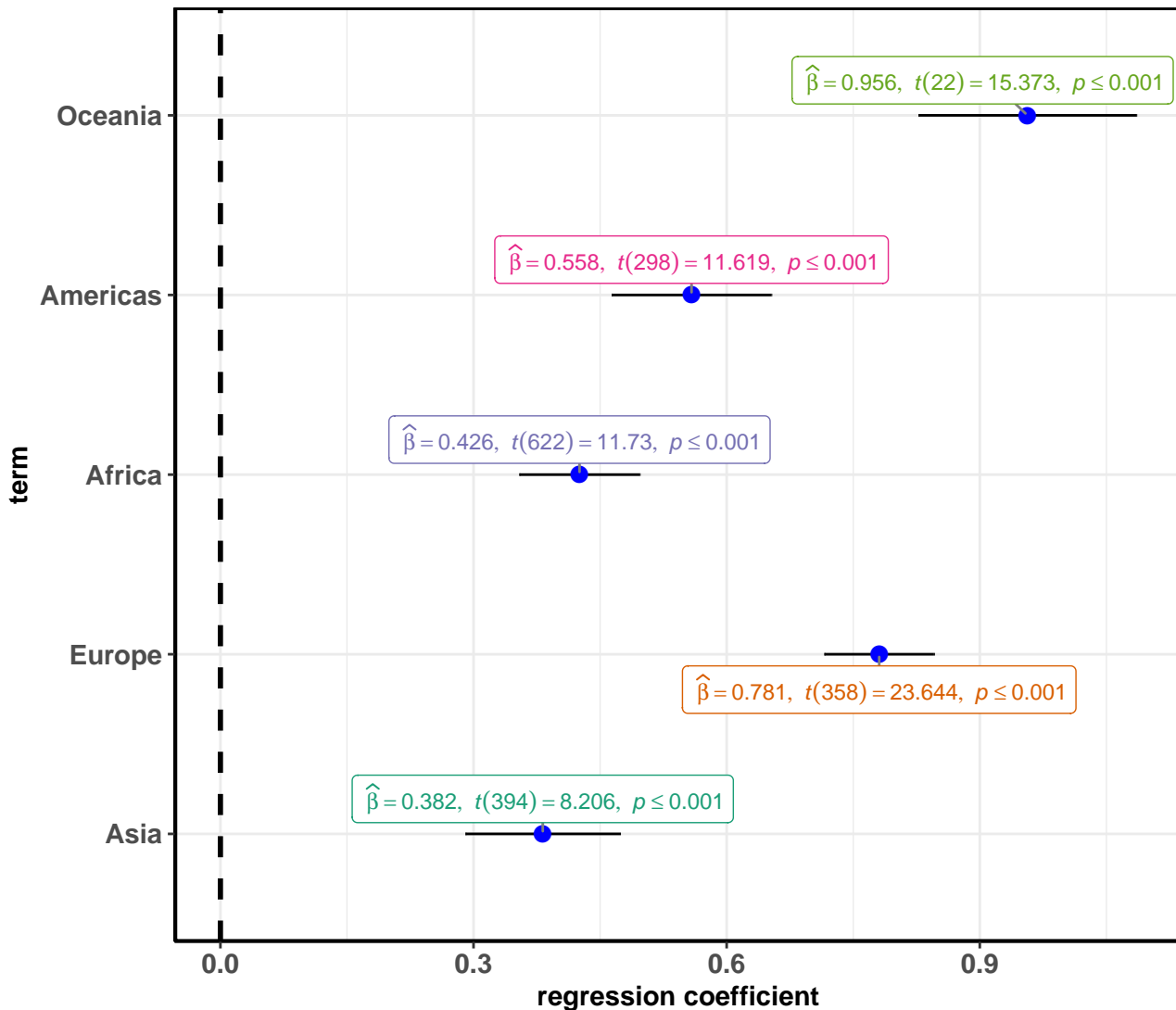


Pairwise comparisons: **Dwass-Steel-Crichtlow-Fligner test**; Adjustment (p-value): **Benjamini & Hochberg**



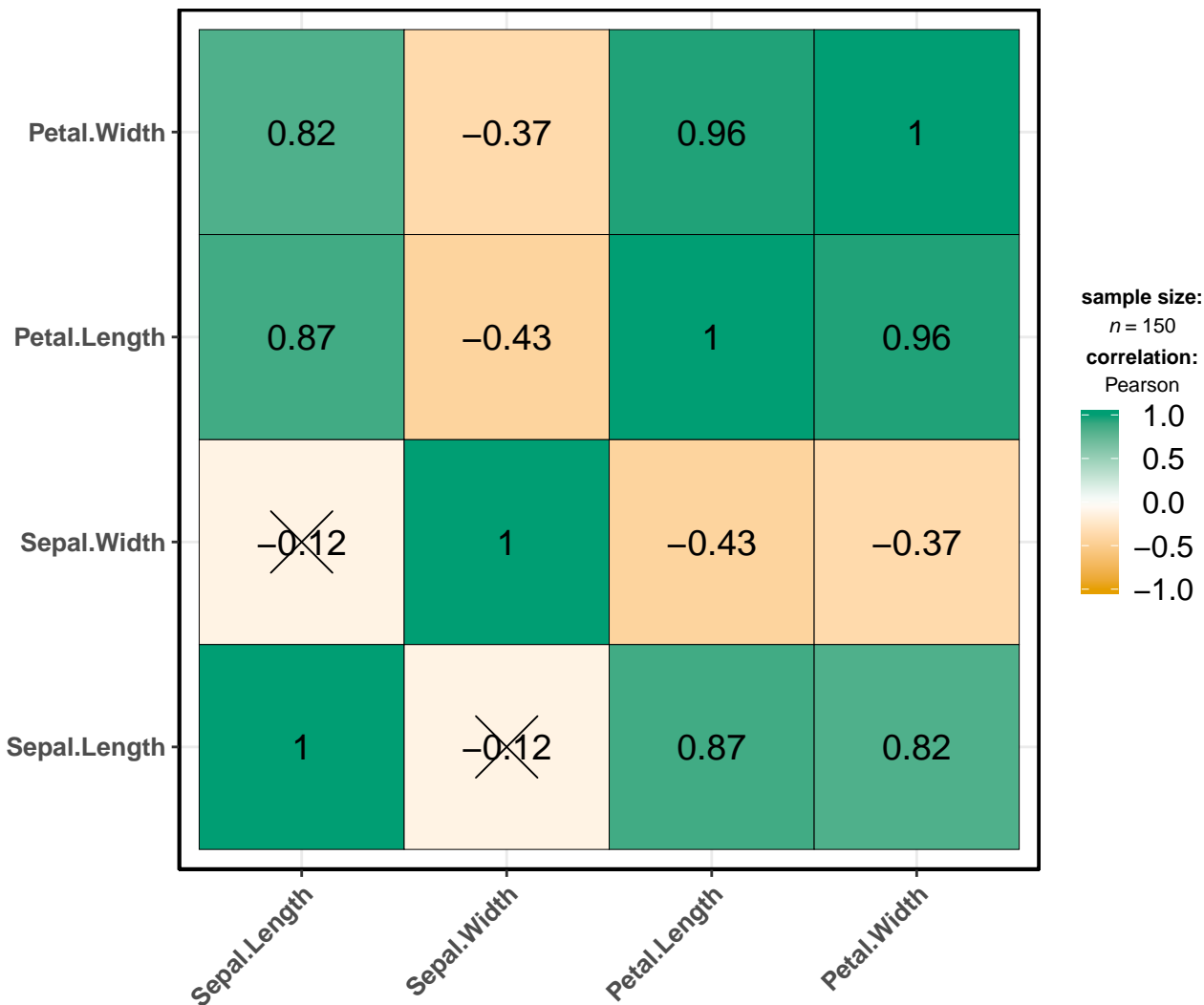
AIC = 166, BIC = 173

Summary effect: $z = 5.736$, $p = < 0.001$, $\hat{\beta} = 0.619$, $CI_{95\%} [0.407, 0.830]$, $n_{\text{effects}} = 5$



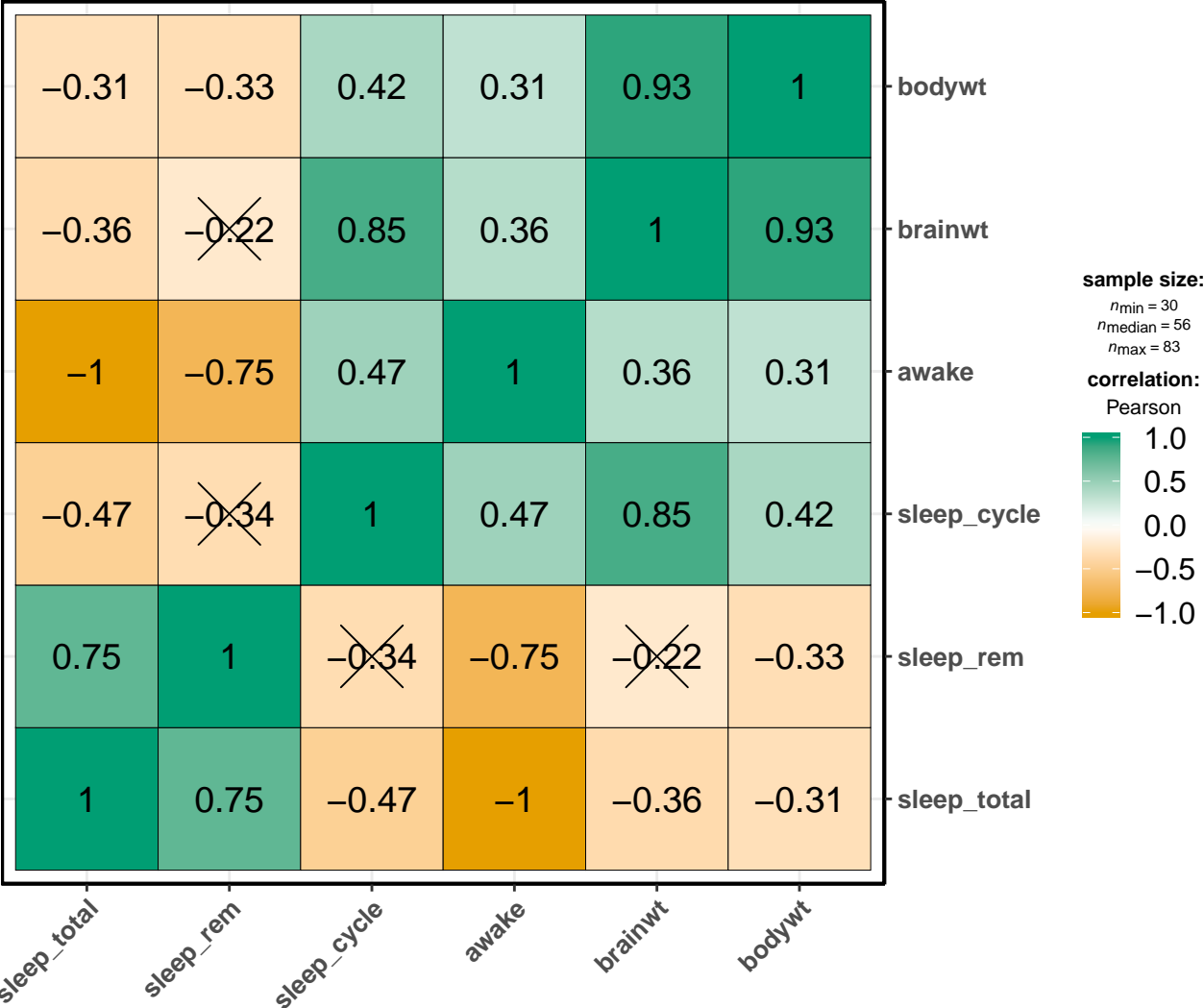
In favor of null: $\log_e(BF_{01}) = -3.341$, $d_{\text{mean}}^{\text{posterior}} = 0.515$, $CI_{95\%} [0.225, 0.767]$

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



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

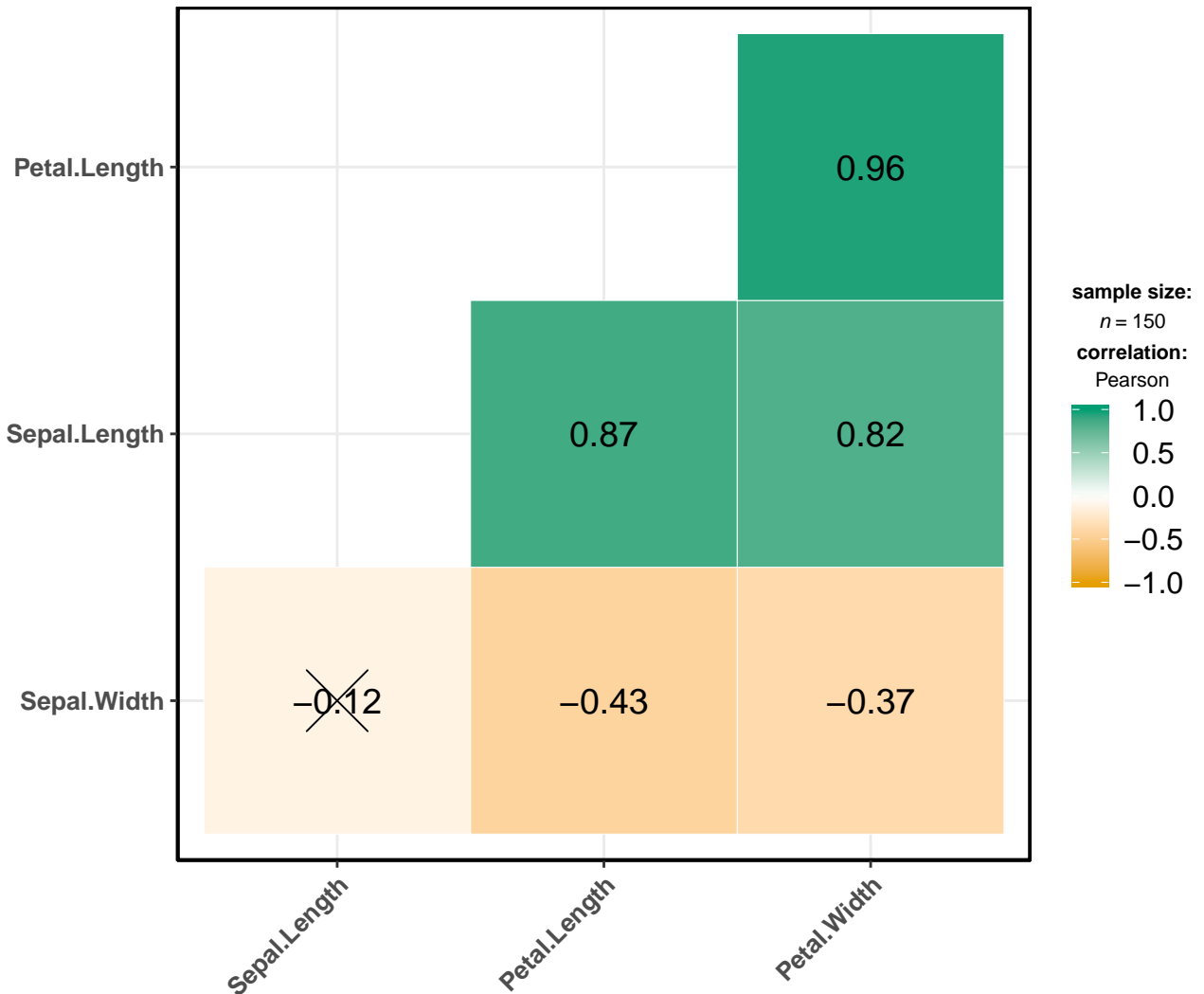
Adjustment (p-value): None



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

Adjustment (p-value): None

Dataset: Iris

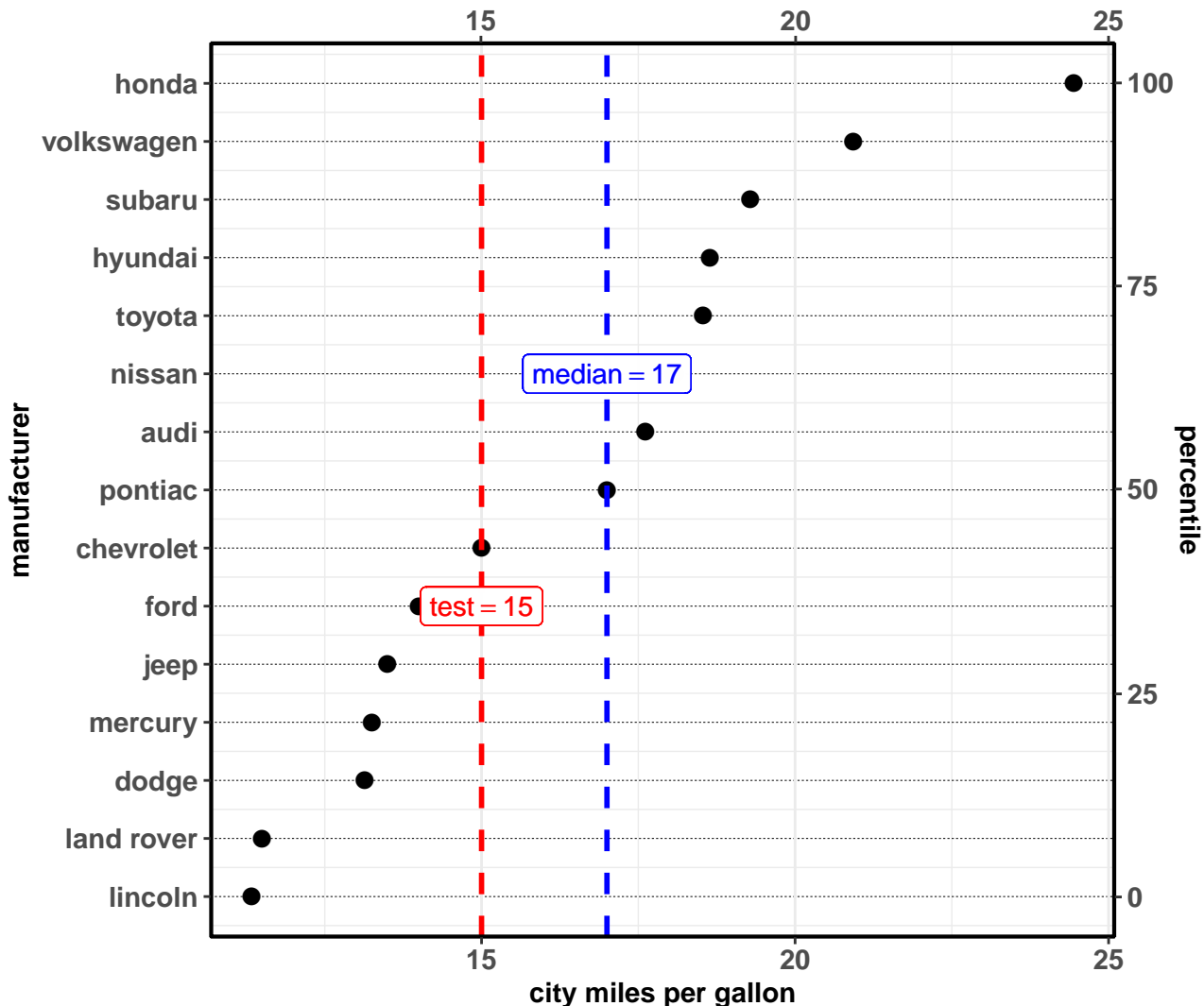


X = correlation non-significant at $p < 0.01$

Adjustment (p-value): None

Fuel economy data

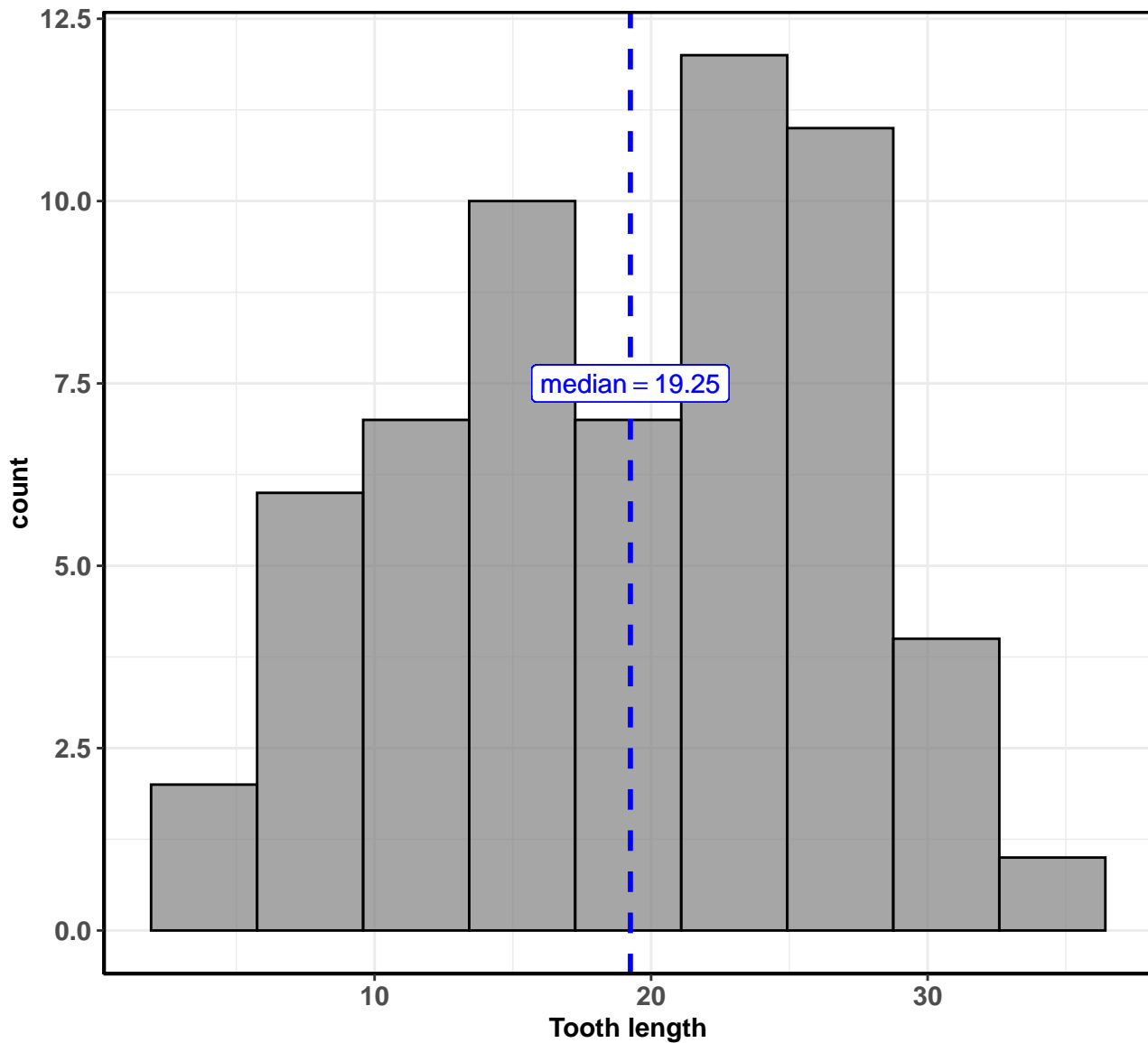
$t(14) = 1.47$, $p = 0.163$, $\hat{g} = 0.36$, $CI_{99\%} [-0.33, 1.10]$, $n_{obs} = 15$



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

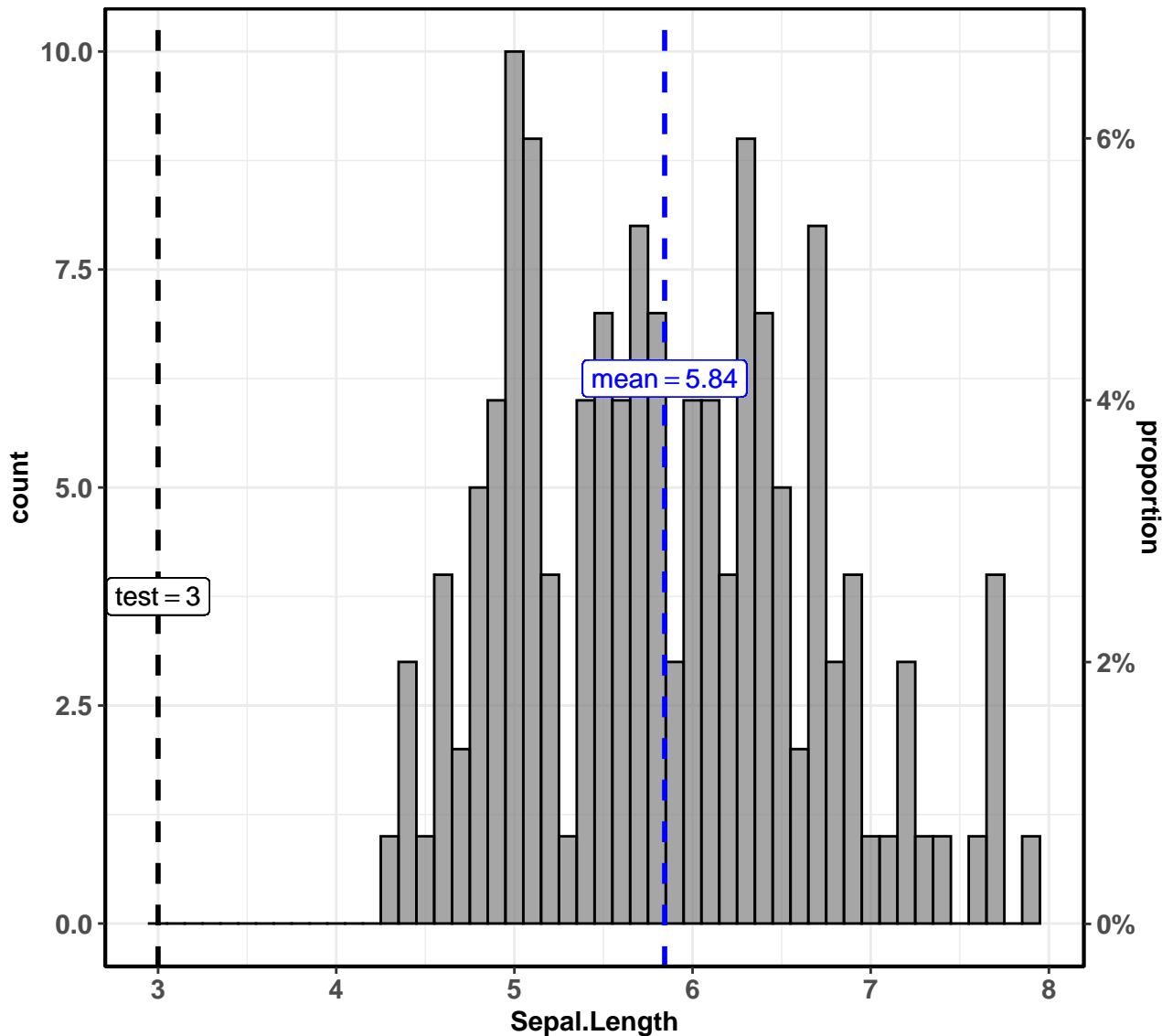
In favor of null: $\log_e(BF_{01}) = 0.44$, $r_{Cauchy}^{JZS} = 0.71$

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



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

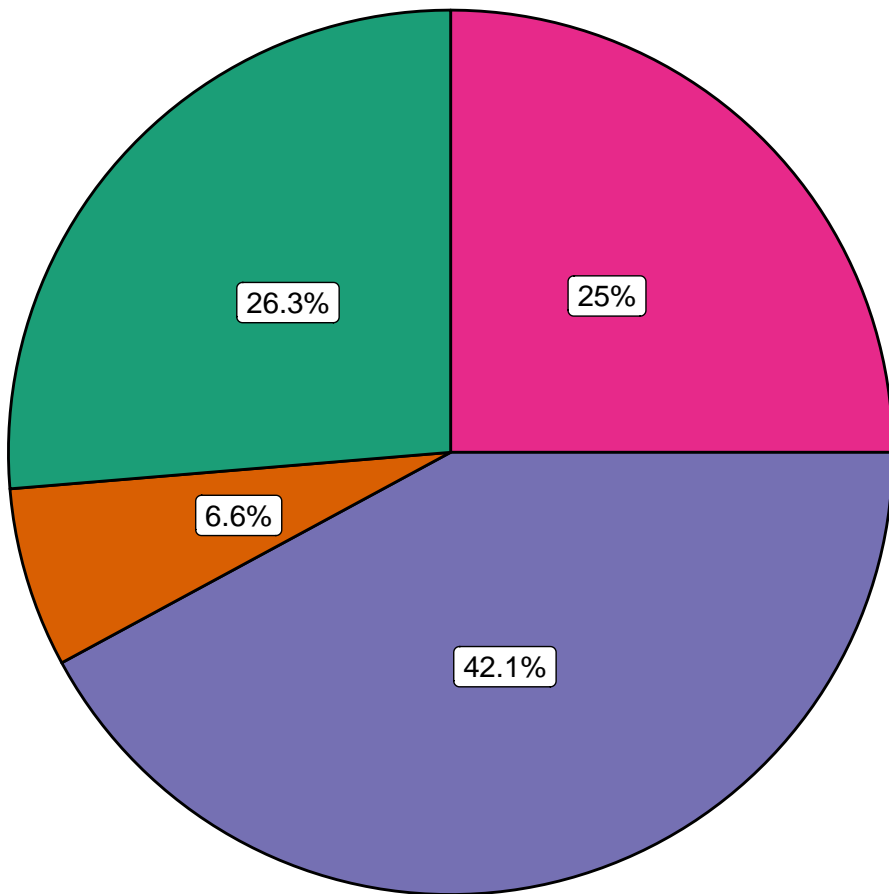
$t(149) = 42.05, p = < 0.001, \hat{g} = 3.42, \text{CI}_{95\%} [3.02, 3.86], n_{\text{obs}} = 150$







Note: Iris dataset by Fisher.

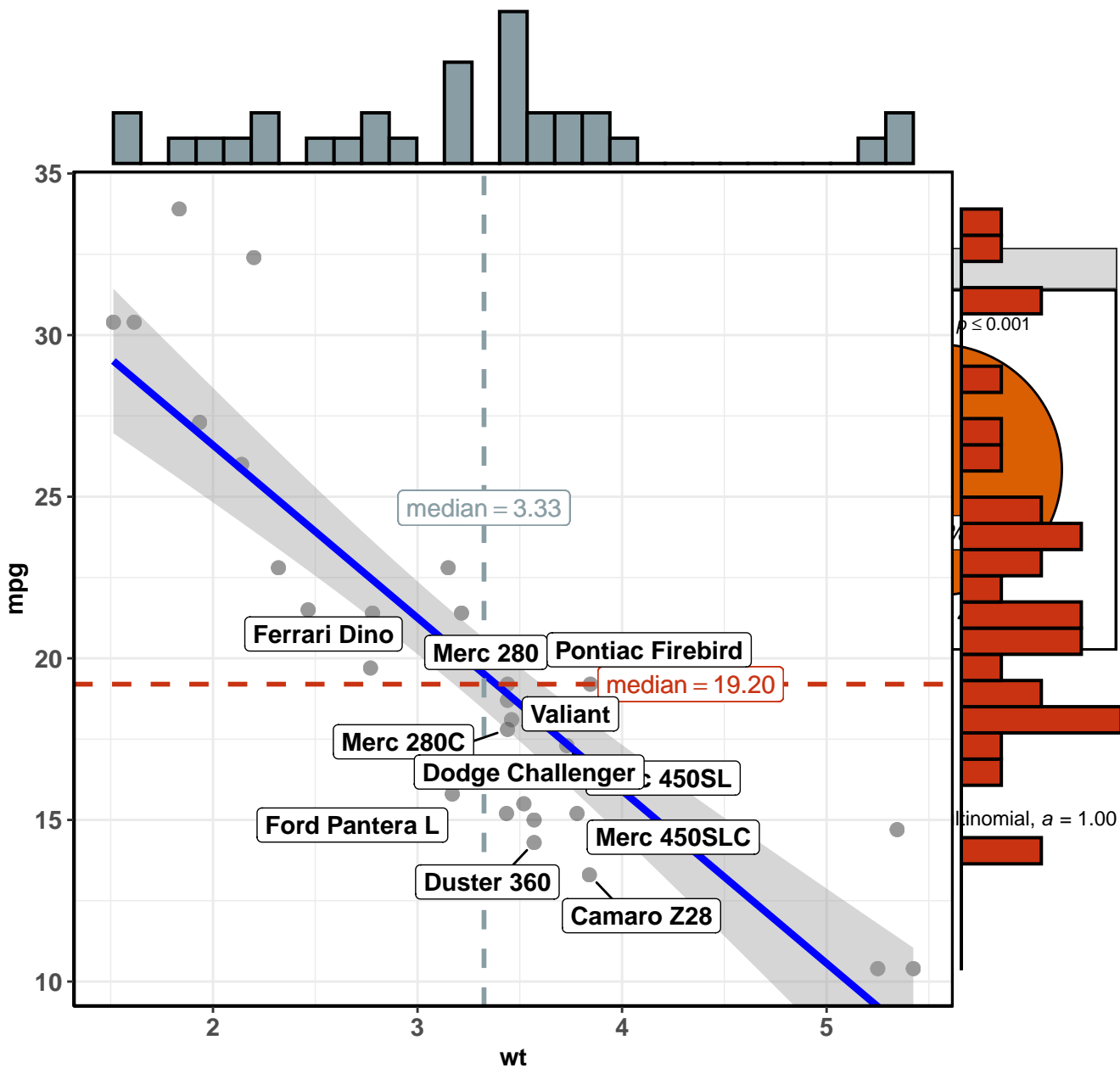
In favor of null: $\log_e(\text{BF}_{01}) = -186.14, r_{\text{Cauchy}}^{\text{JZS}} = 0.80$

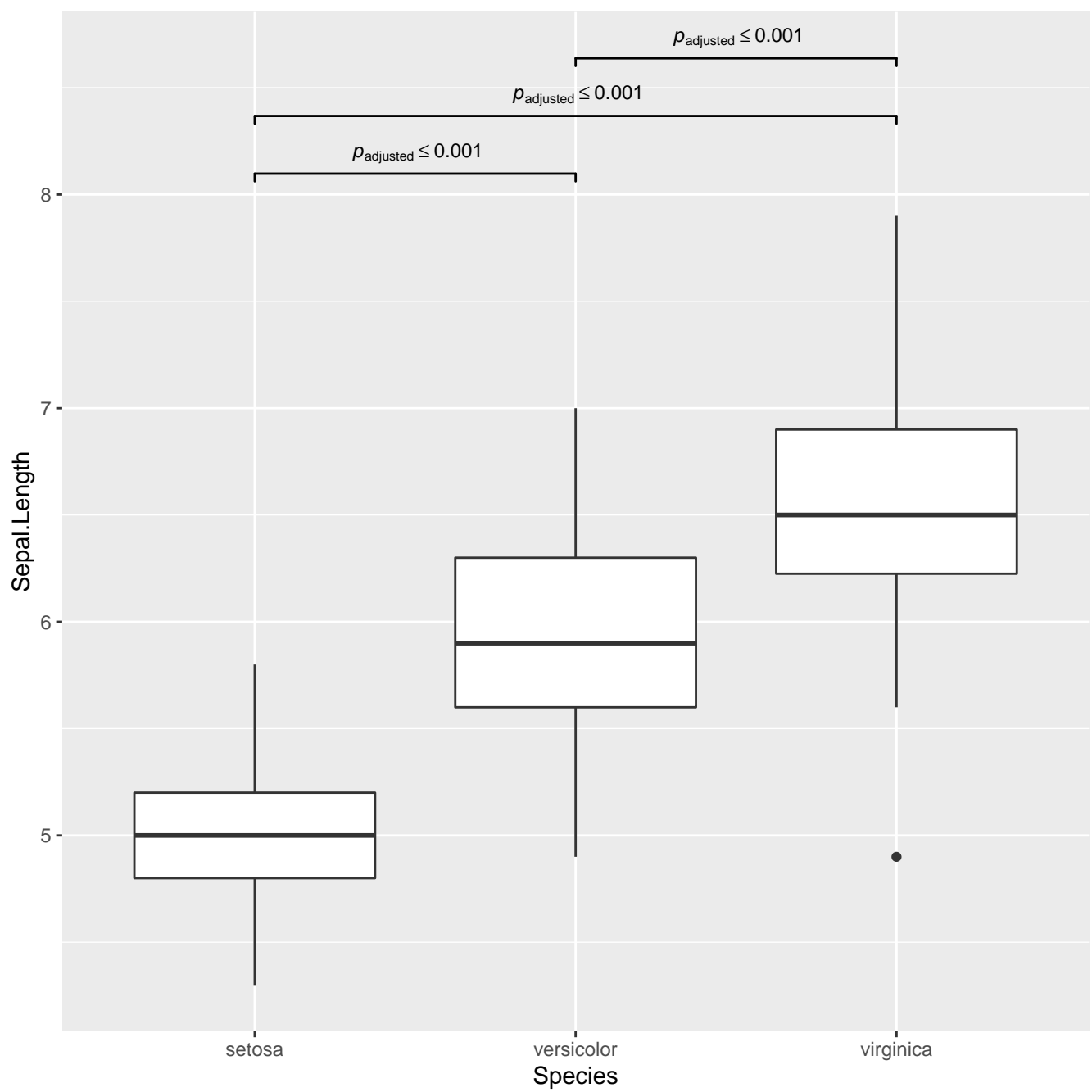
$\chi^2_{\text{gof}}(3) = 19.263$, $p = < 0.001$, $\hat{V}_{\text{Cramer}} = 0.291$, $\text{CI}_{95\%} [0.185, 0.366]$, $n_{\text{obs}} = 76$



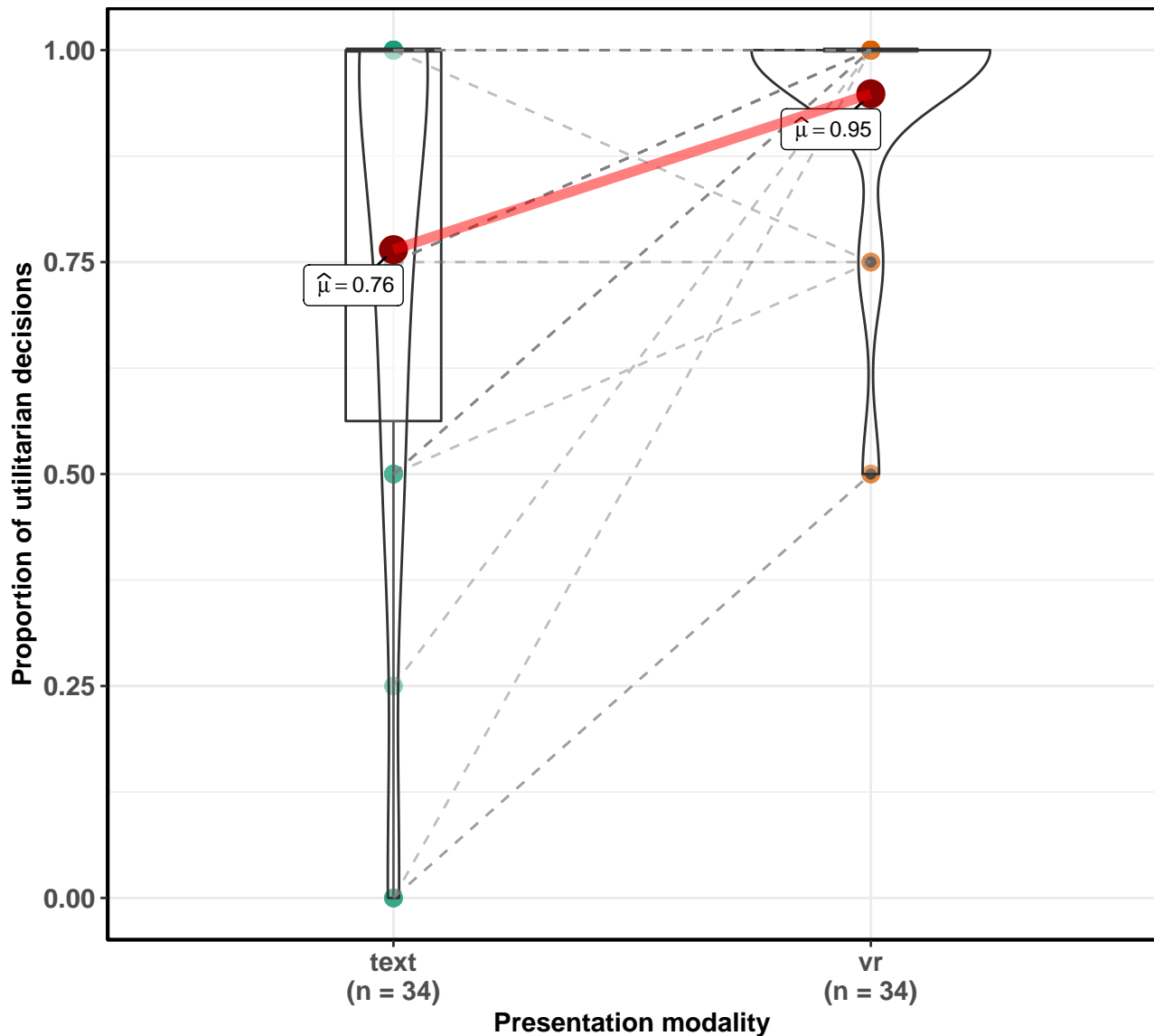
vore  omni  insecti  herbi  carni

$\log_e(S) = 9.24$, $p = < 0.001$, $\hat{\rho}_{\text{Spearman}} = -0.89$, $CI_{95\%} [-1.03, -0.79]$, $n_{\text{pairs}} = 32$



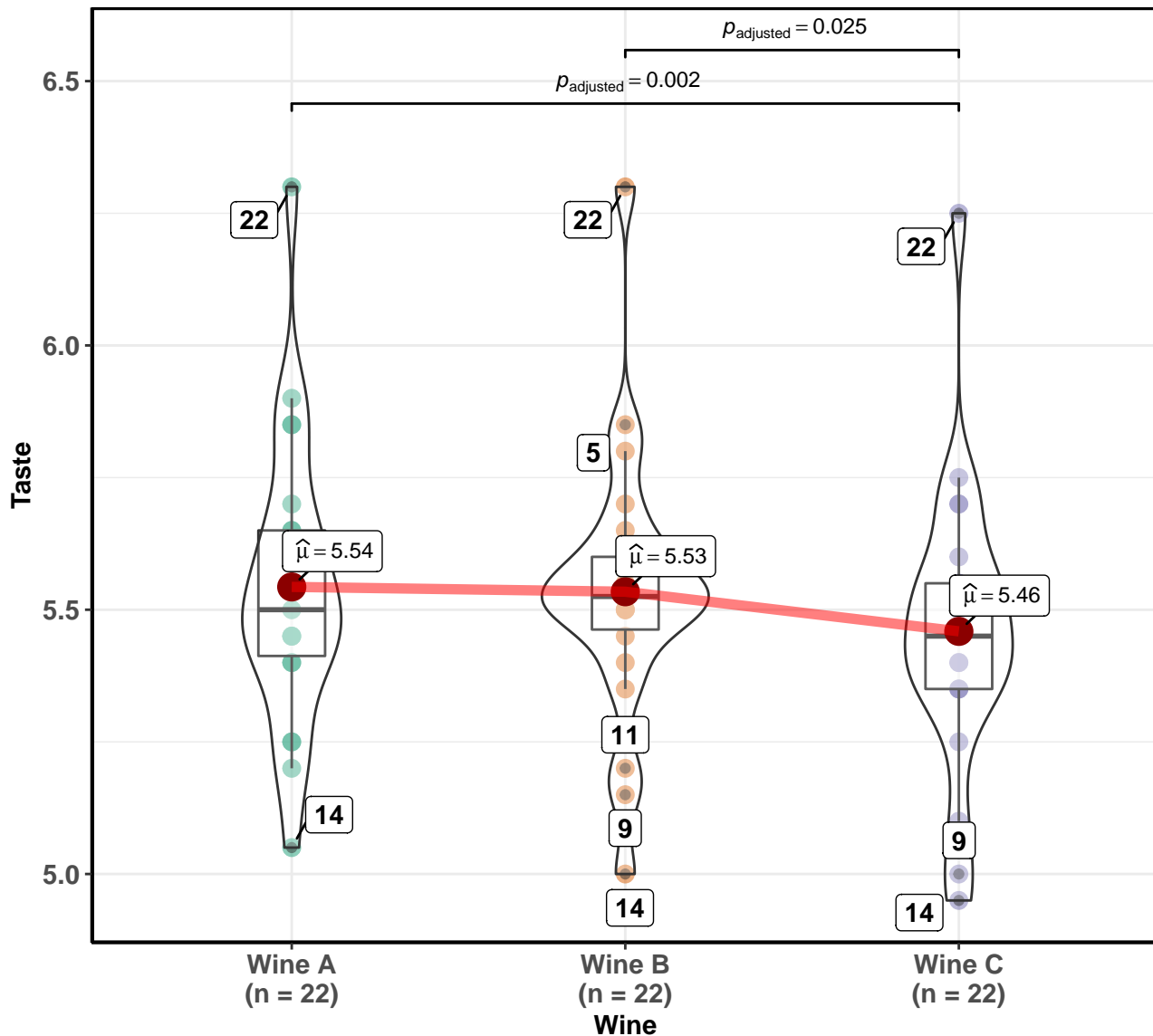


$t(33) = -3.96, p = < 0.001, \hat{g} = -0.66, \text{CI}_{95\%} [-1.07, -0.31], n_{\text{pairs}} = 34$



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

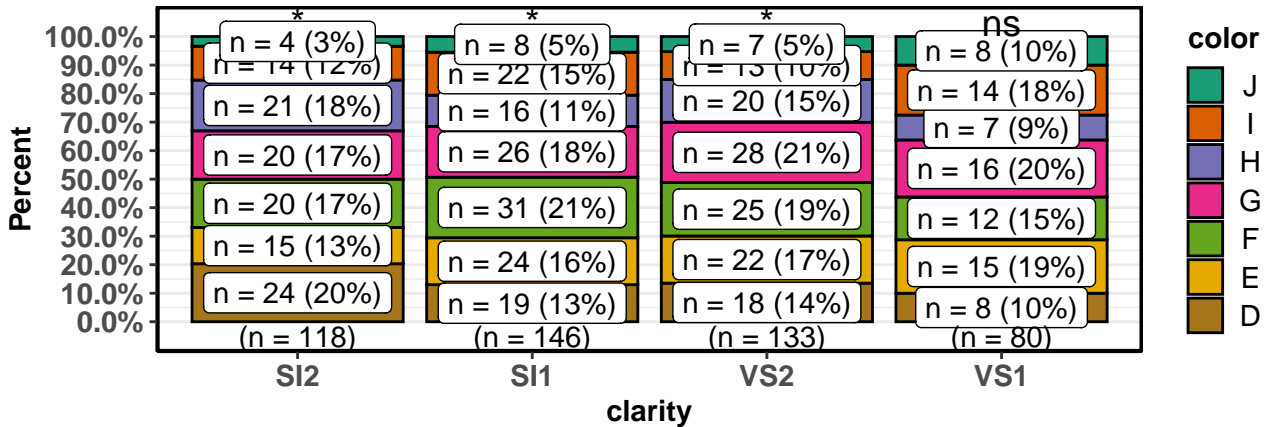
$\chi^2(2) = 11.14$, $p = 0.004$, $\widehat{W}_{\text{Kendall}} = 0.82$, $\text{CI}_{99\%} [0.82, 1.00]$, $n_{\text{pairs}} = 22$



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

Quality: Very Good

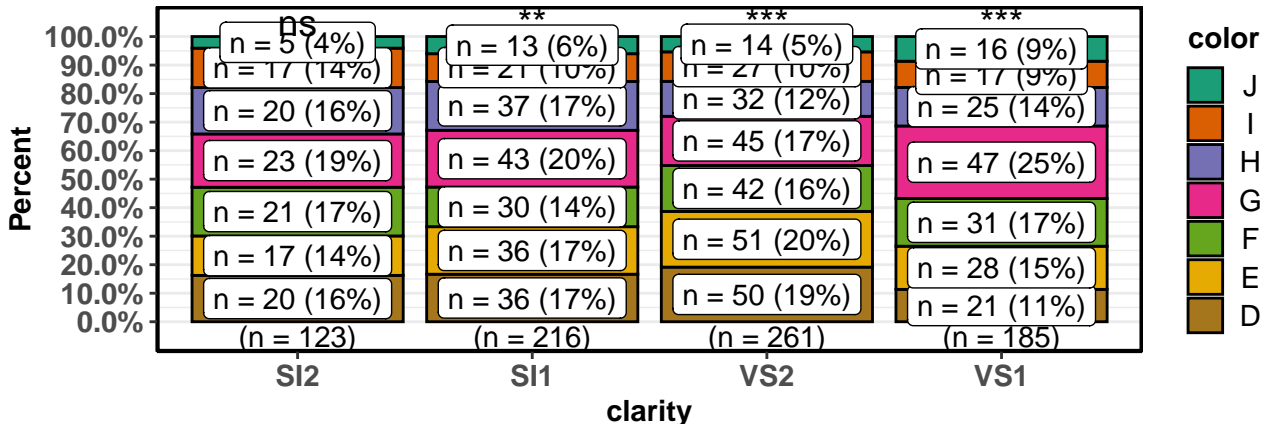
$\chi^2_{\text{Pearson}}(18) = 17.95$, $p = 0.459$, $\hat{V}_{\text{Cramer}} = 0.00$, $\text{CI}_{95\%} [-0.18, -0.04]$, $n_{\text{obs}} = 477$



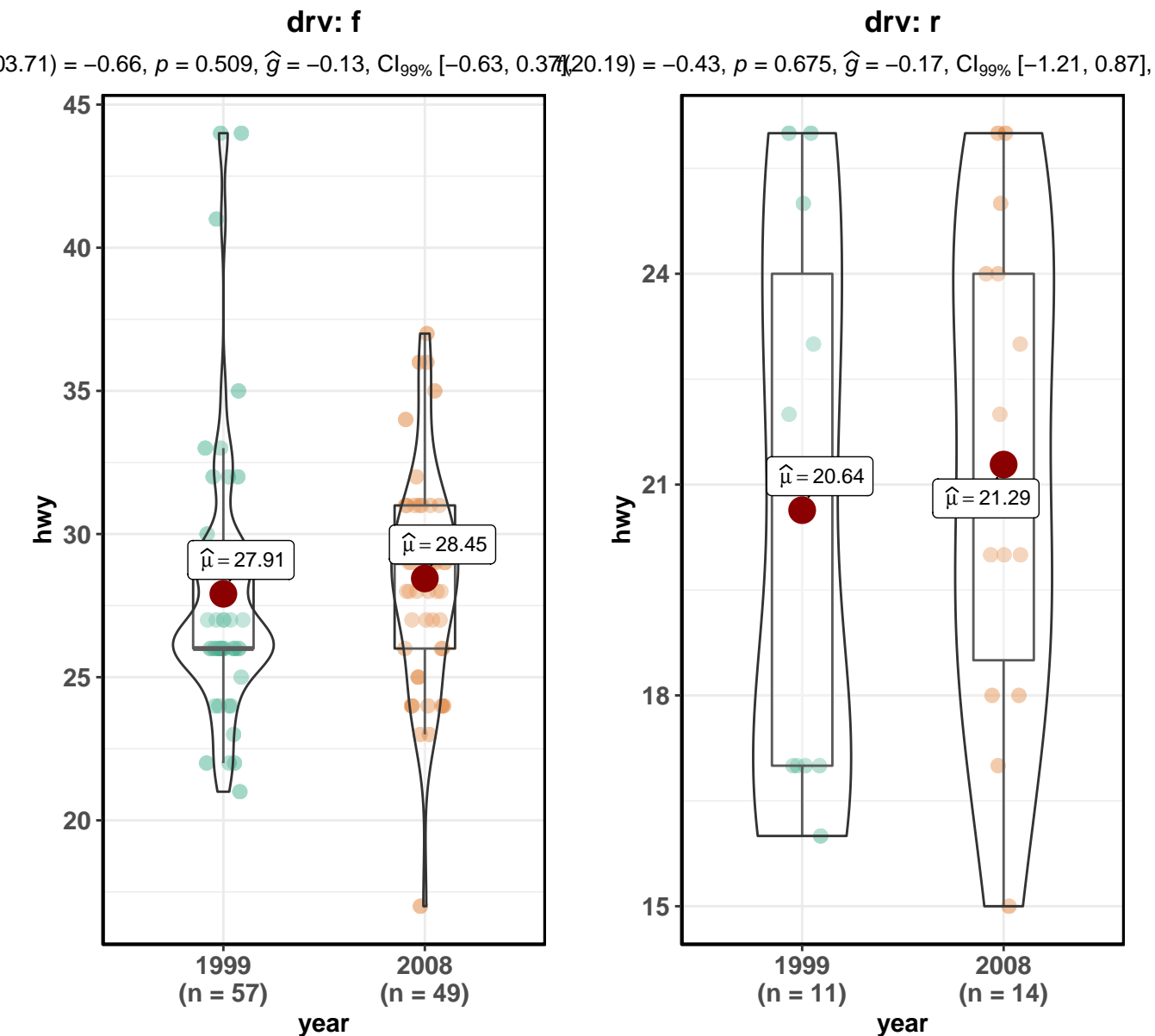
In favor of null: $\log_e(\text{BF}_{01}) = 16.13$, sampling = independent multinomial, $a = 1.00$

Quality: Ideal

$\chi^2_{\text{Pearson}}(18) = 17.85$, $p = 0.466$, $\hat{V}_{\text{Cramer}} = 0.00$, $\text{CI}_{95\%} [-0.14, -0.03]$, $n_{\text{obs}} = 785$



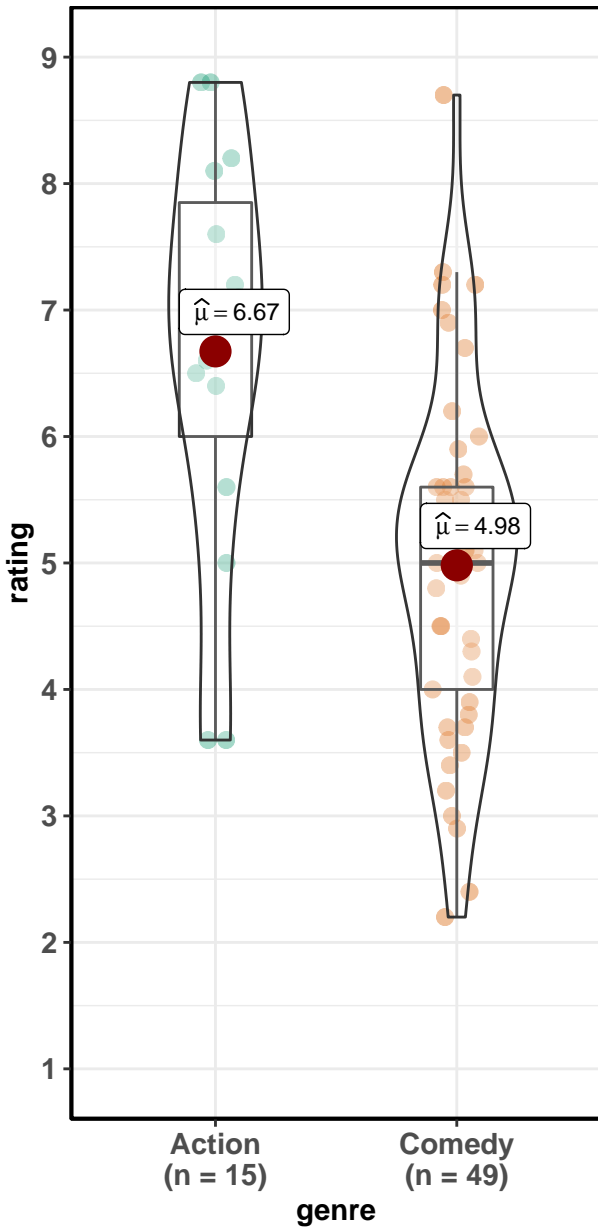
In favor of null: $\log_e(\text{BF}_{01}) = 20.36$, sampling = independent multinomial, $a = 1.00$



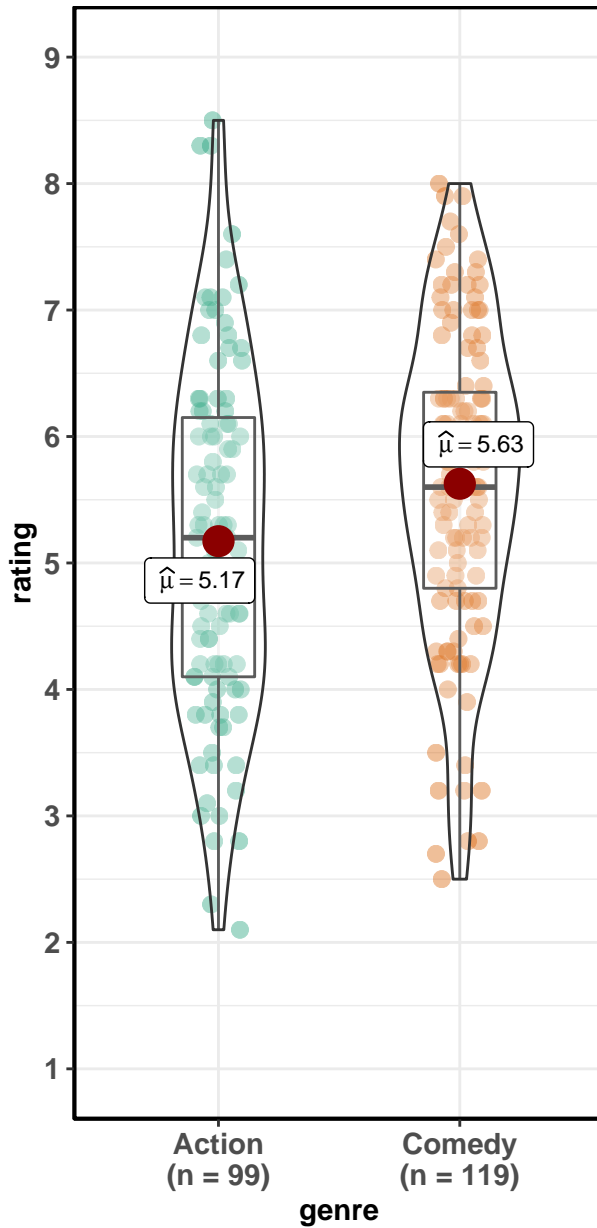
In favor of null: $\log_e(\text{BF}_{01}) = 1.39, r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

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

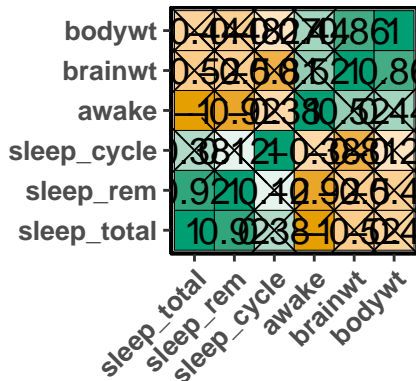
mpaa: PG



mpaa: R



vore: carni

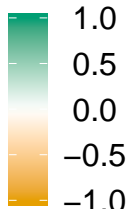


sample size:

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

correlation:

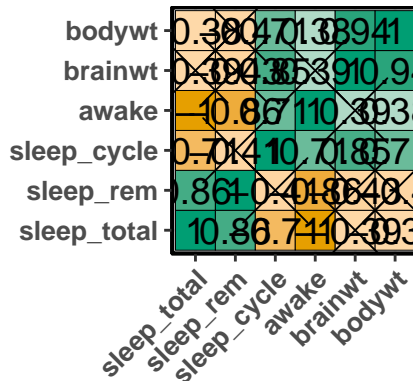
Pearson



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:

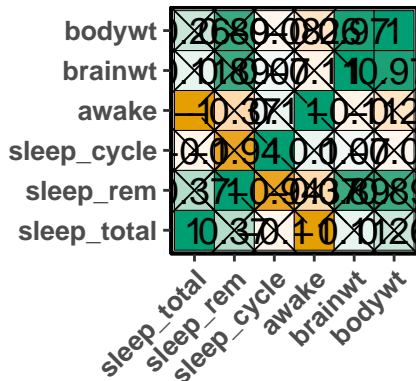
Pearson



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

Adjustment (p-value): None

vore: insecti

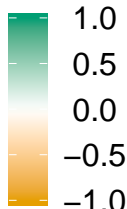


sample size:

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

correlation:

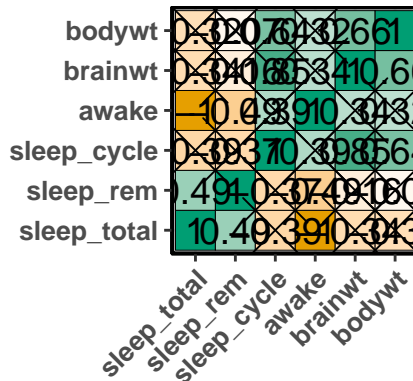
Pearson



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:

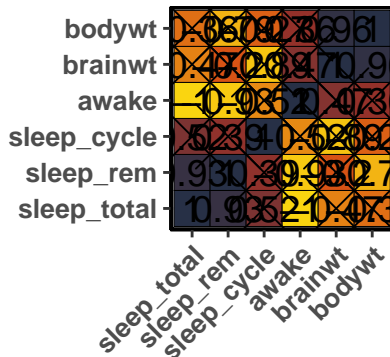
Pearson



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

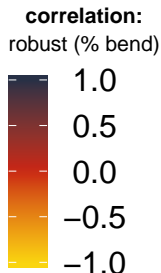
Adjustment (p-value): None

vore: carni



sample size:

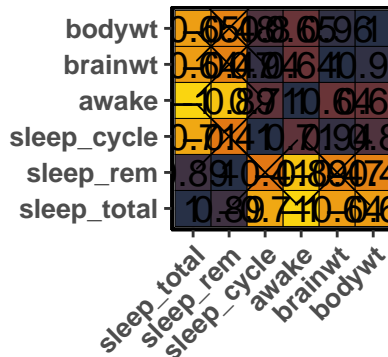
$n_{\min} = 4$
 $n_{\text{median}} = 9$
 $n_{\max} = 19$



= correlation non-significant at $p < 0.05$

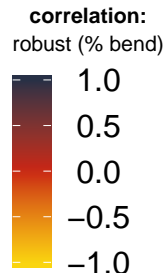
Adjustment (p-value): Holm

vore: herbi



sample size:

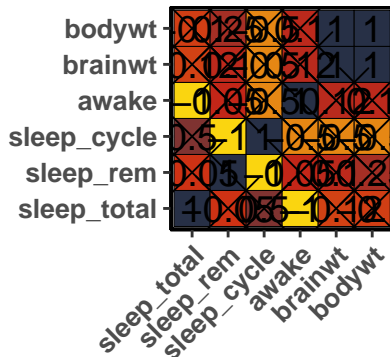
$n_{\min} = 11$
 $n_{\text{median}} = 20$
 $n_{\max} = 32$



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

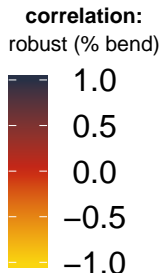
Adjustment (p-value): Holm

vore: insecti



sample size:

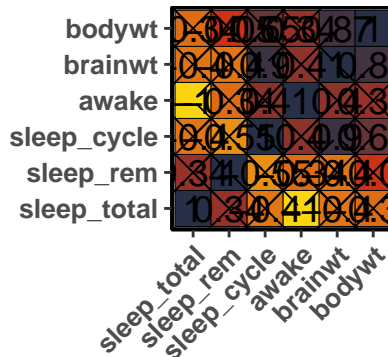
$n_{\min} = 3$
 $n_{\text{median}} = 4$
 $n_{\max} = 5$



= correlation non-significant at $p < 0.05$

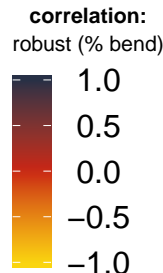
Adjustment (p-value): Holm

vore: omni



sample size:

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

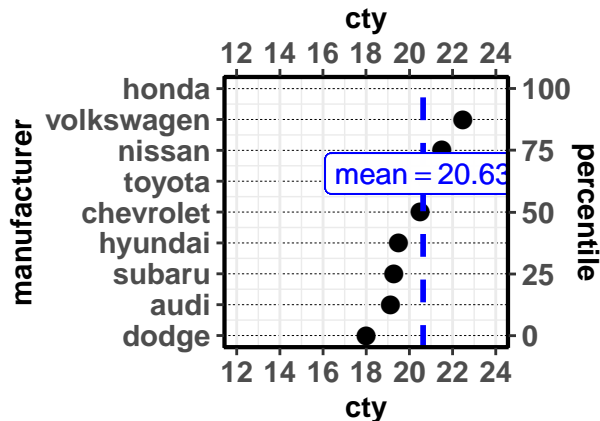


X = correlation non-significant at $p < 0.05$

Adjustment (p-value): Holm

cylinder count: 4

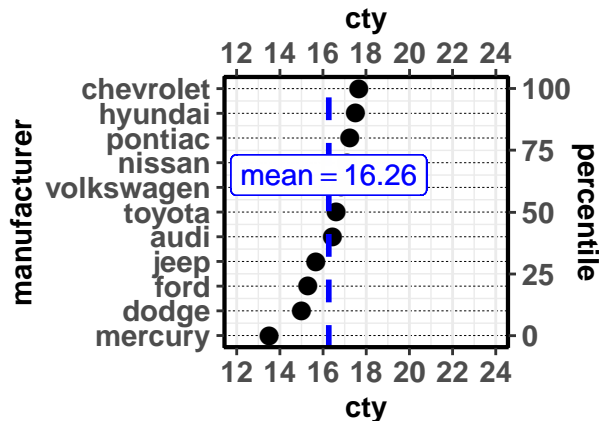
$t(8) = 7.82, p = < 0.001, \hat{g} = 2.32, \text{CI}_{95\%} [1.25, 4.25], r$



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

cylinder count: 6

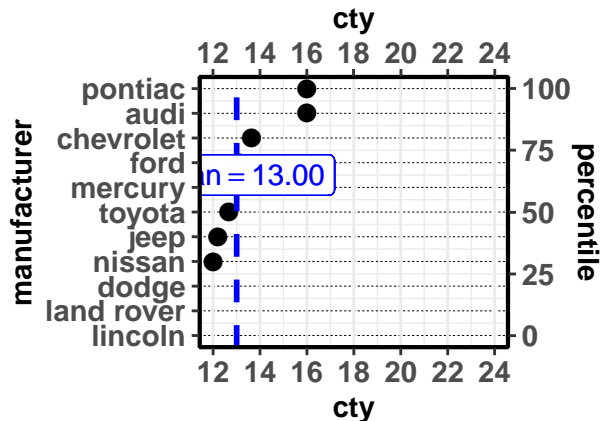
$t(10) = 1.99, p = 0.075, \hat{g} = 0.55, \text{CI}_{95\%} [-0.06, 1.29], n$



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

cylinder count: 8

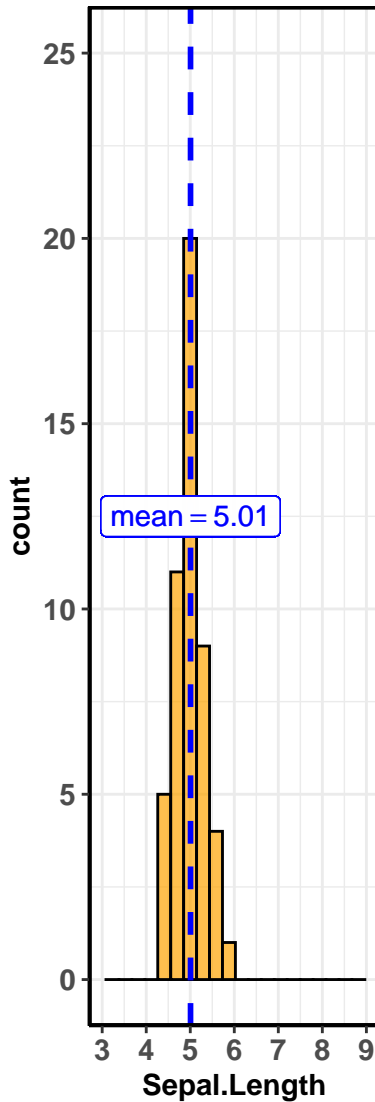
$t(10) = -5.01, p = 0.001, \hat{g} = -1.38, \text{CI}_{95\%} [-2.49, -0.64], n_{\text{obs}} = 11$



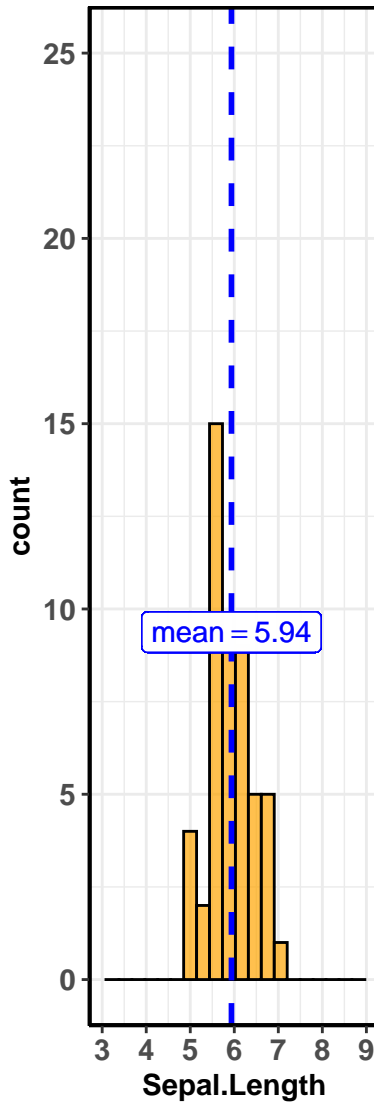
In favor of null: $\log_e(\text{BF}_{01}) = -4.24, r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Species: *setosa*

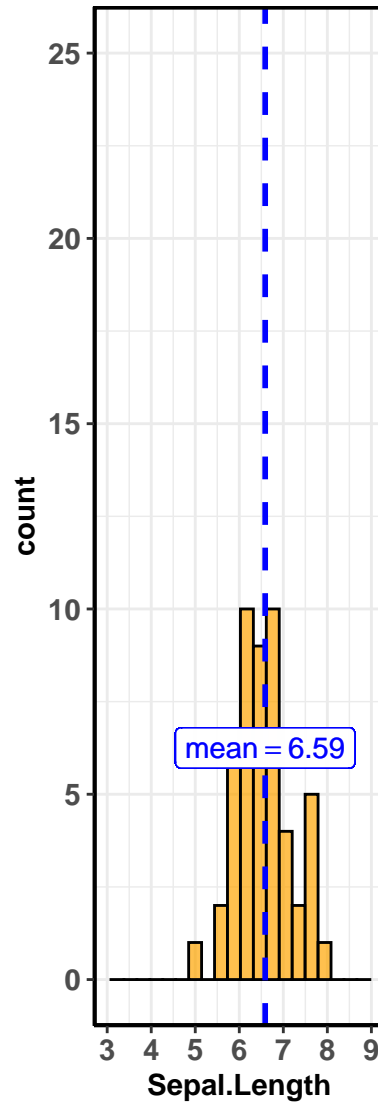
$p = 0.905$, $\hat{g} = 0.02$, $CI_{95\%} [1.49, 2.62]$, $p = 0.71$

Species: *versicolor*

$p < 0.001$, $\hat{g} = 1.78$, $CI_{95\%} [4.37, 6.55]$, $p = 0.71$

Species: *virginica*

$p < 0.001$, $\hat{g} = 2.46$, $CI_{95\%} [1.95, 4.37]$, $p = 0.71$

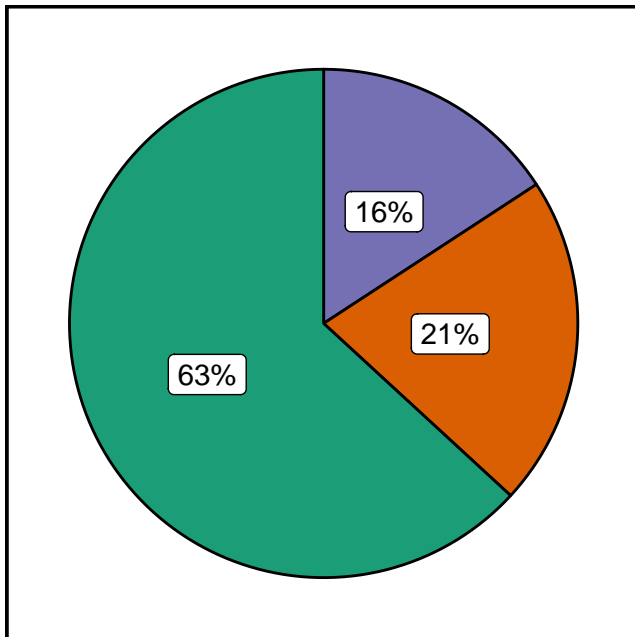


of null: $\log_e(BF_{01}) = 1.86$, $r_{Cauchy}^{JZS} = 0.71$ of null: $\log_e(BF_{01}) = -32.95$, $r_{Cauchy}^{JZS} = 0.71$ of null: $\log_e(BF_{01}) = -45.50$, $r_{Cauchy}^{JZS} = 0.71$

am: 0

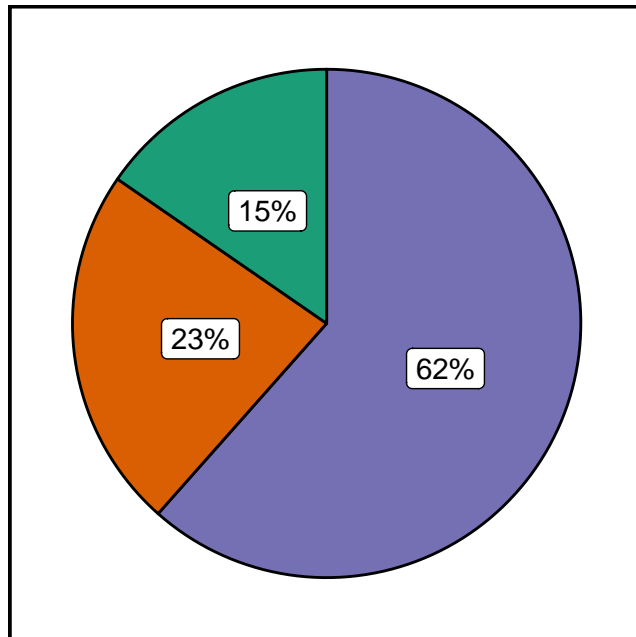
am: 1

$\chi^2(2) = 7.68, p = 0.021, \hat{V}_{\text{Cramer}} = 0.45, \text{CI}_{95\%} [0.11, 0.76]$ $\chi^2(2) = 4.77, p = 0.092, \hat{V}_{\text{Cramer}} = 0.43, \text{CI}_{95\%} [0.12, 0.72], n_{\text{obs}} = 240$



cyl 8 6 4

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

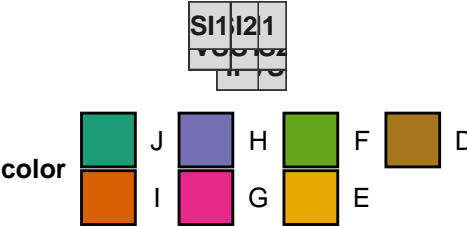


cyl 8 6 4

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

Quality: Fair

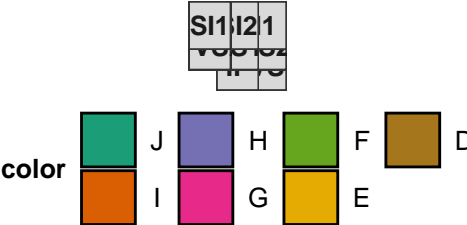
$\chi^2_{\text{Pearson}}(42) = 55.71, p = 0.076, \widehat{V}_{\text{Cramer}} = 0.12, \text{CI}_{95\%} [-0.05, 0.07], n_{\text{obs}} = 172$



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

Quality: Very Good

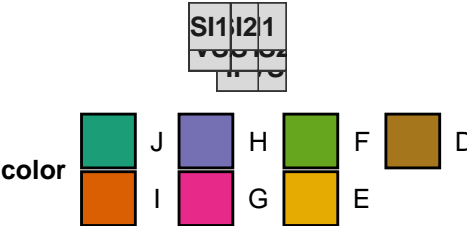
$\chi^2_{\text{Pearson}}(42) = 64.05, p = 0.016, \widehat{V}_{\text{Cramer}} = 0.06, \text{CI}_{95\%} [-0.01, 0.04], n_{\text{obs}} = 1187$



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

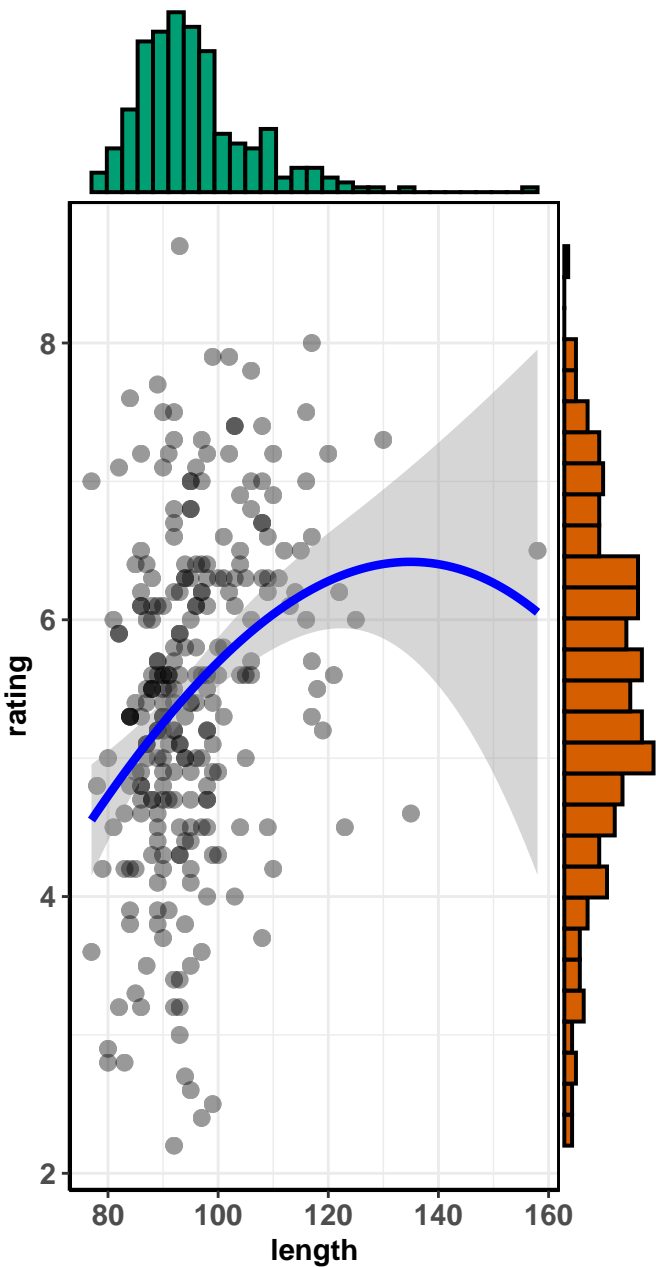
Quality: Ideal

$\chi^2_{\text{Pearson}}(42) = 153.32, p = < 0.001, \widehat{V}_{\text{Cramer}} = 0.09, \text{CI}_{95\%} [0.06, 0.10], n_{\text{obs}} = 2165$

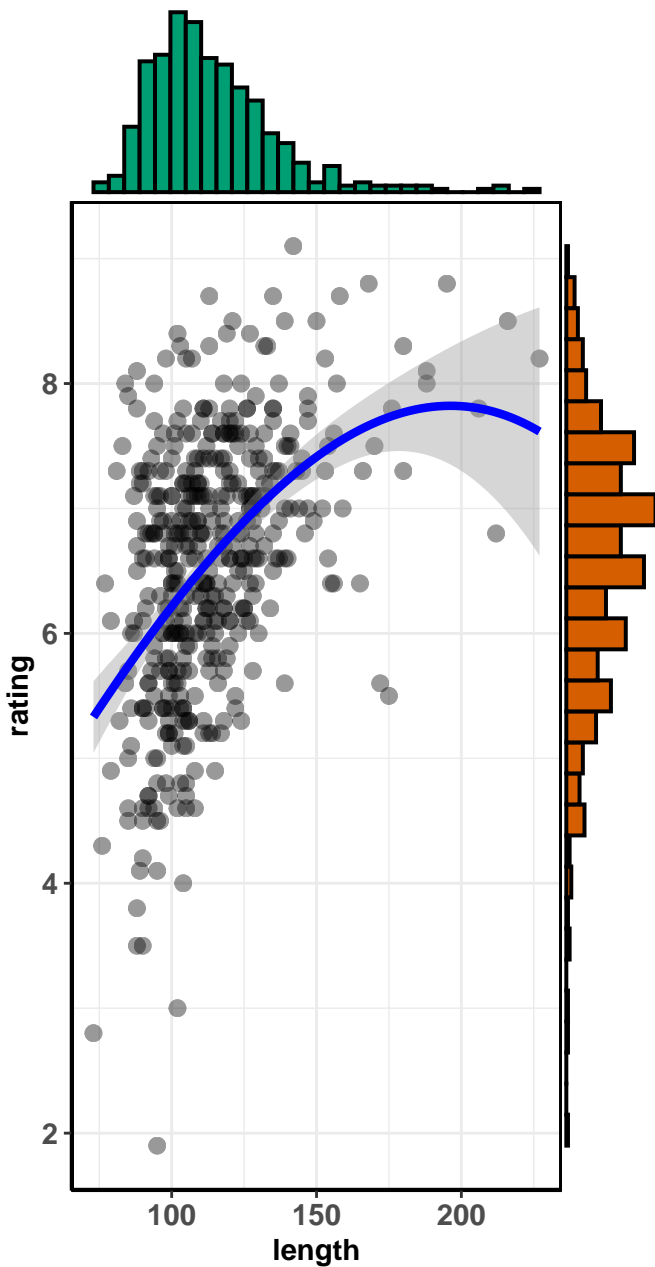


avor of null: $\log_e(\text{BF}_{01}) = -25.04$, sampling = poisson, $a = 1.00$

genre: Comedy

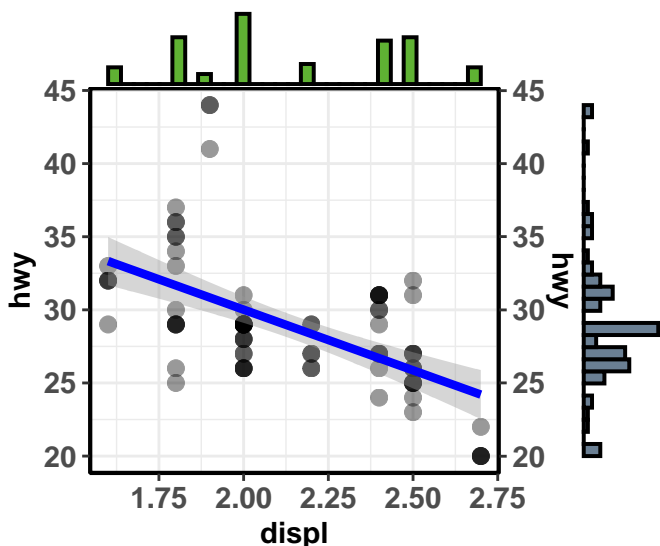


genre: Drama



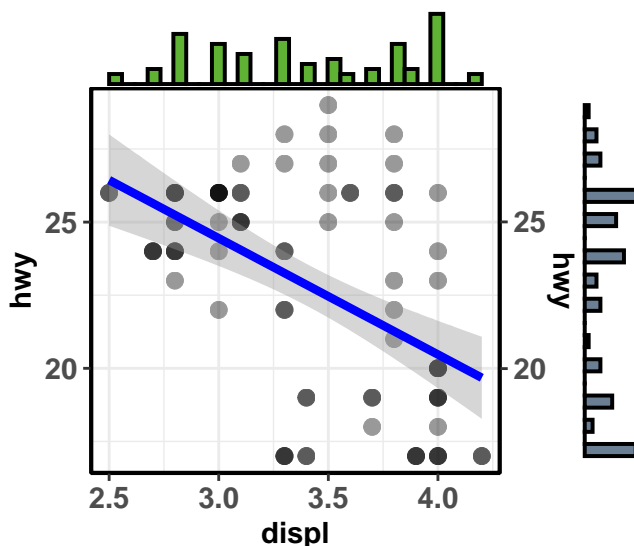
Cylinder count: 4

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



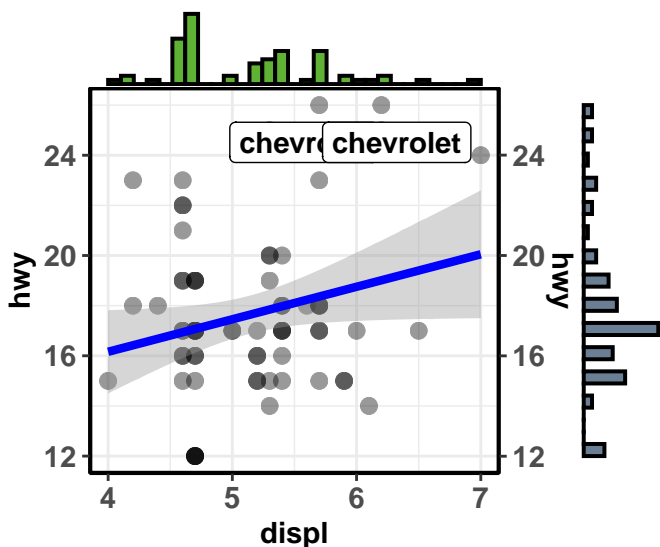
Cylinder count: 6

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



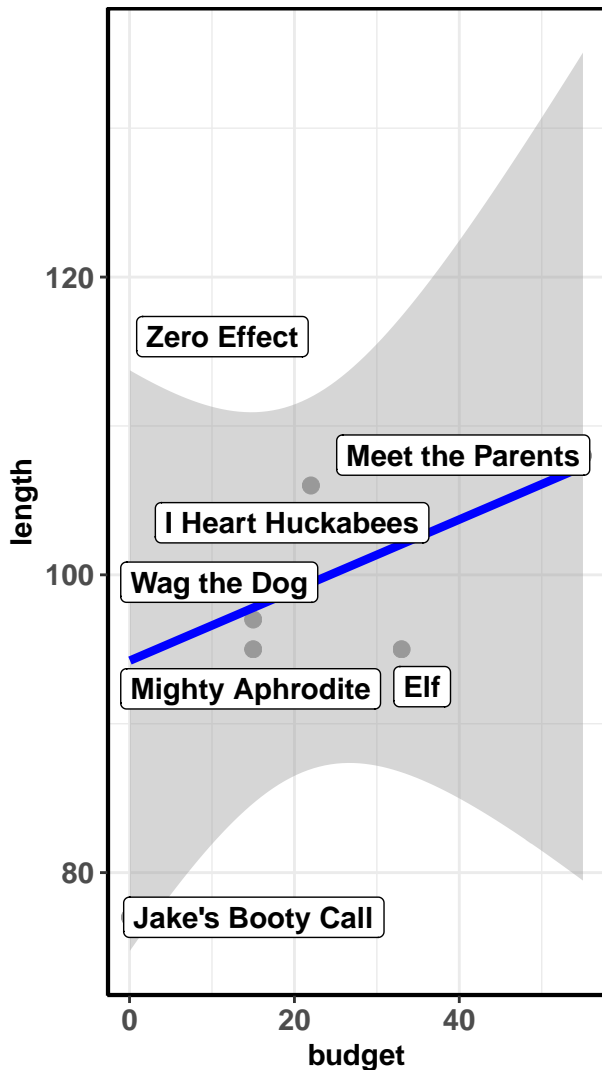
Cylinder count: 8

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

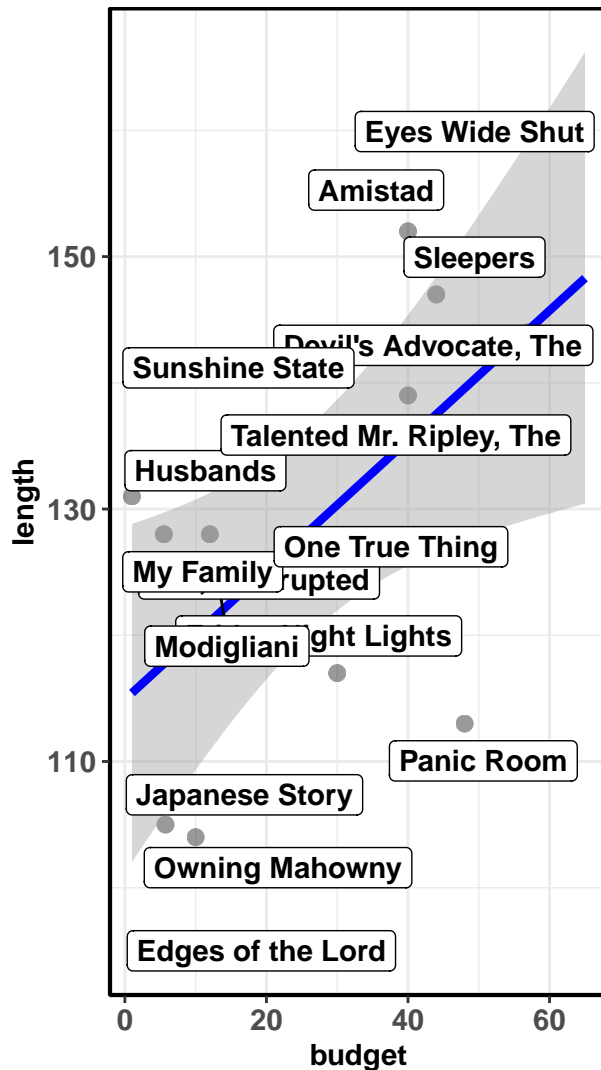


Genre: Comedy

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



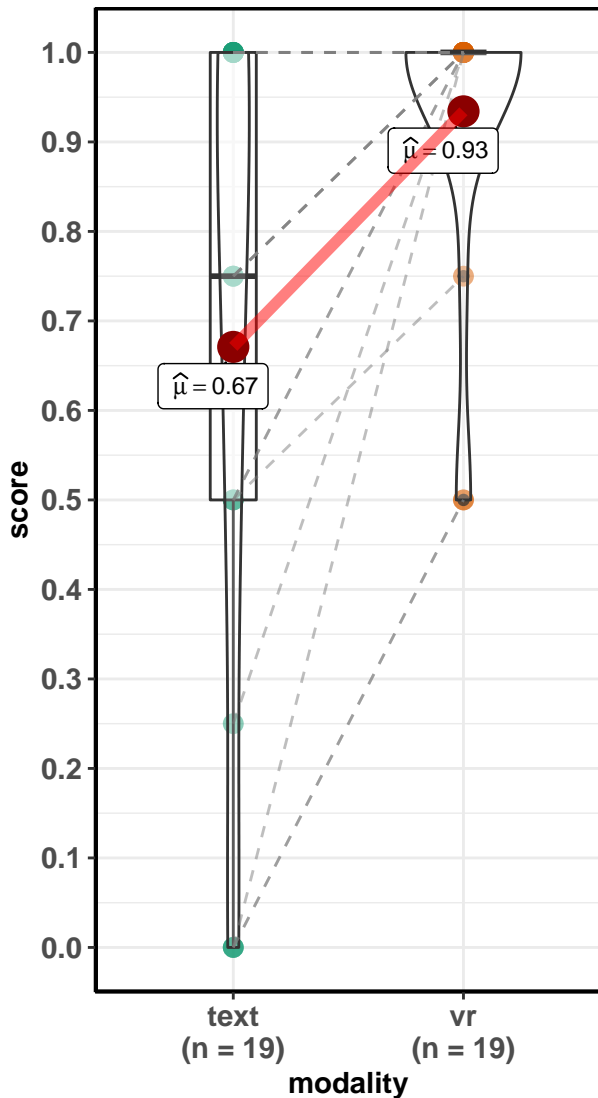
Genre: Drama



All movies have IMDB rating equal to 7.

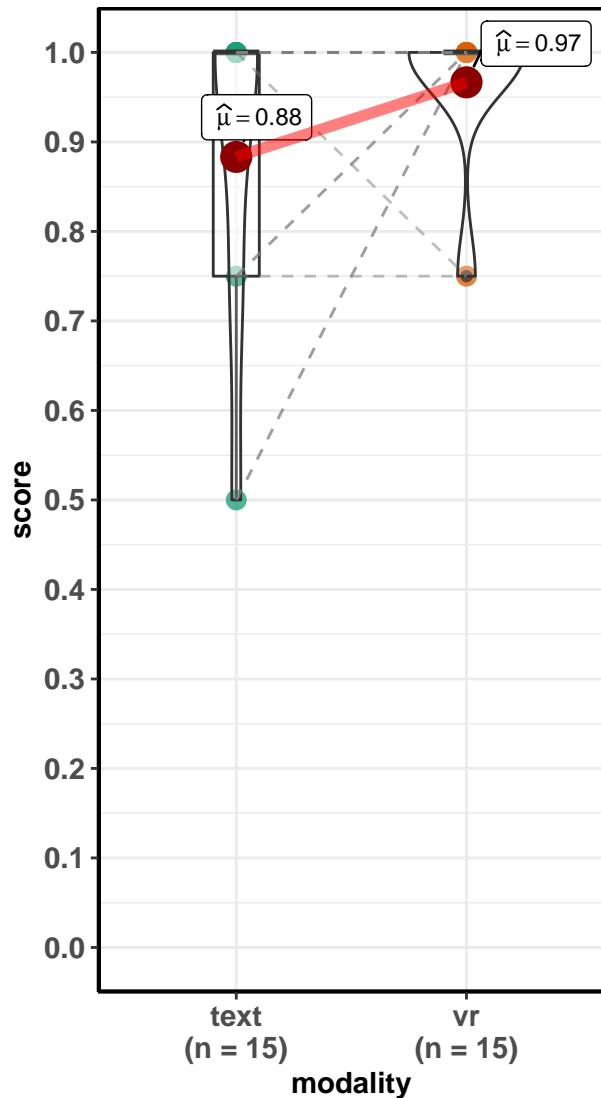
order: 0

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



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

order: 1



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

