

Dataset: Iris Flower dataset

(a) setosa

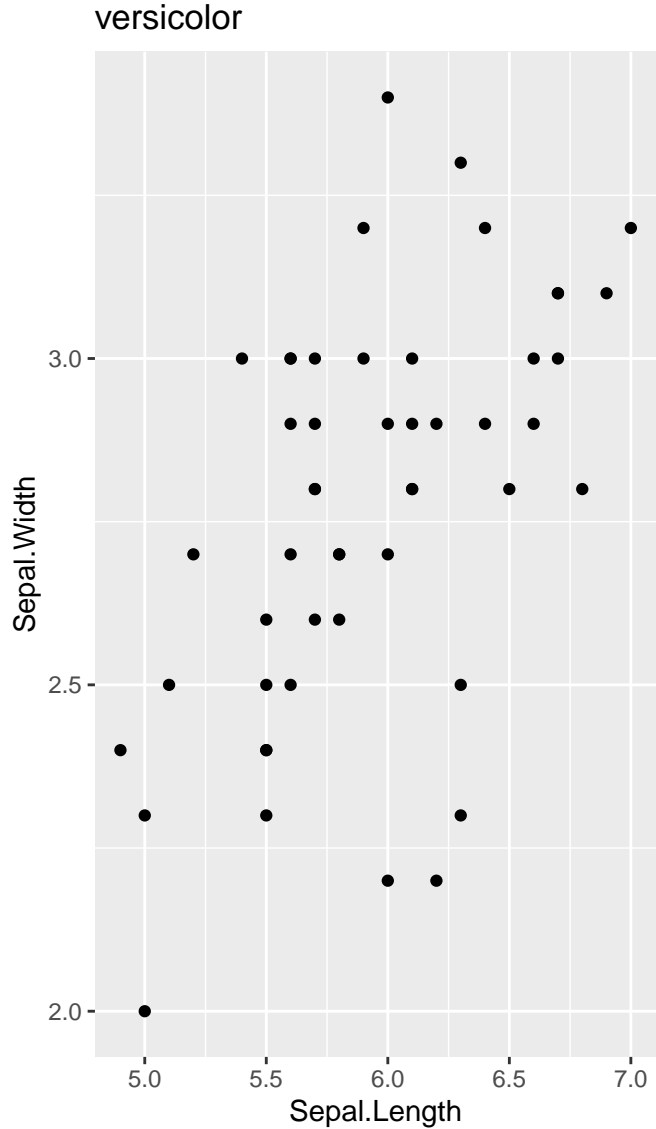
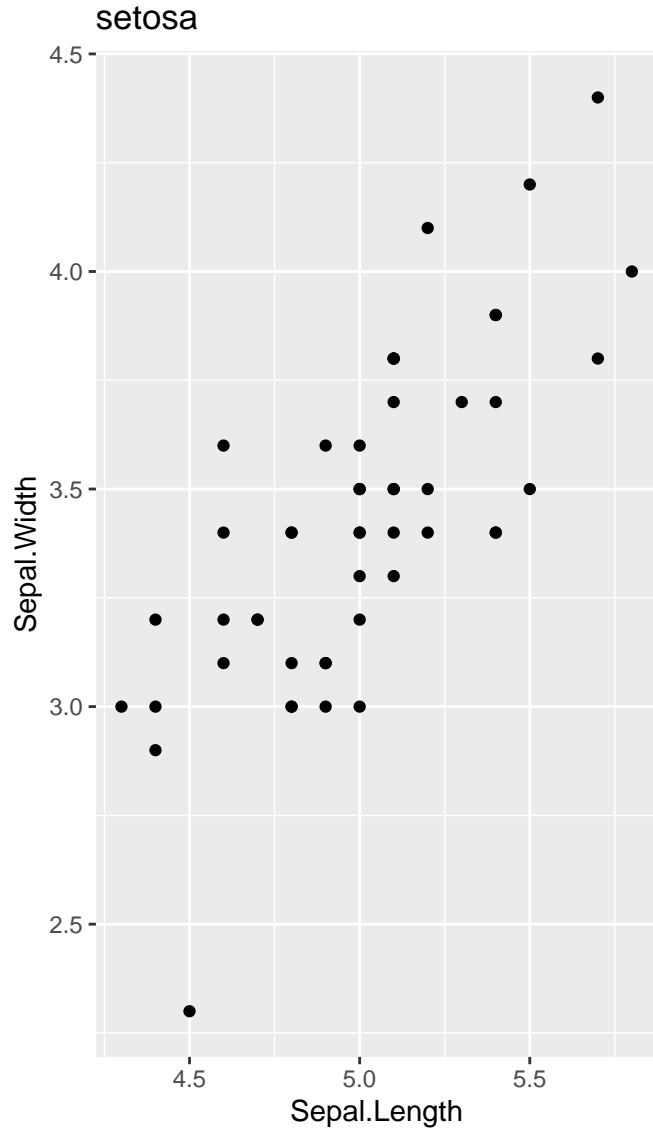


(b) versicolor



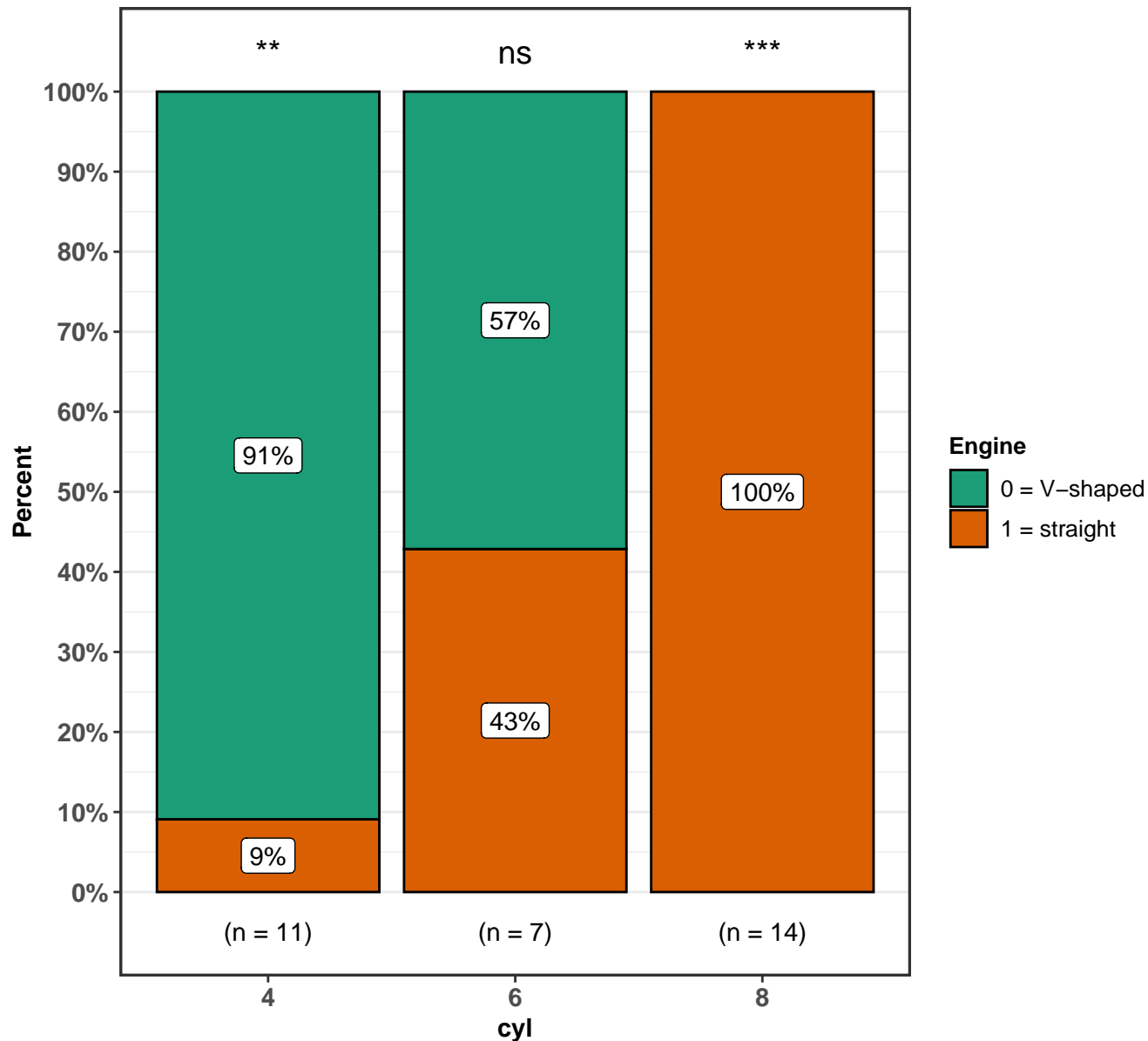
Note: Only two species of flower are displayed

Dataset: Iris Flower dataset



Note: Only two species of flower are displayed

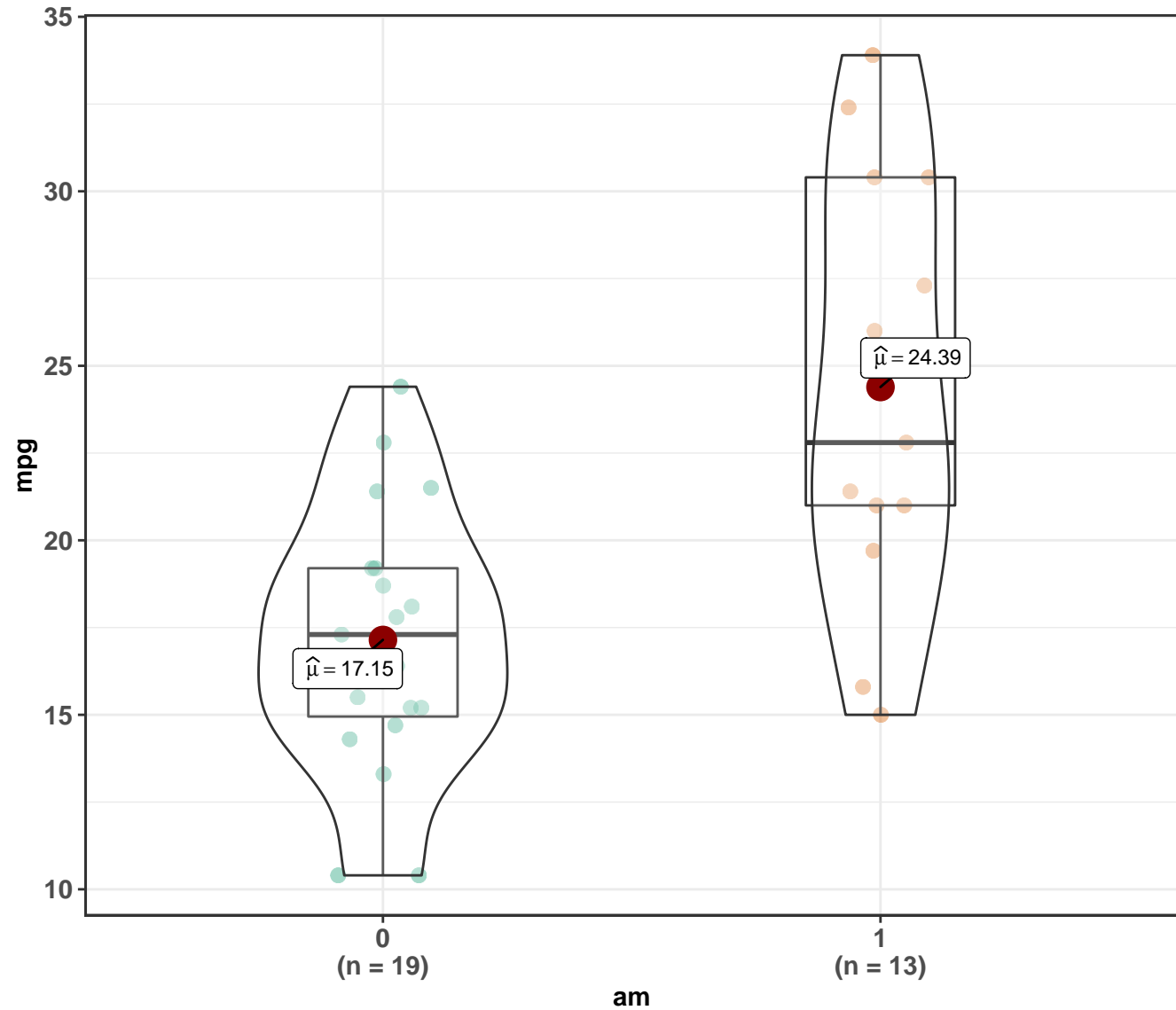
$\chi^2_{\text{Pearson}}(2) = 21.34, p = < 0.001, \hat{V}_{\text{Cramer}} = 0.79, \text{CI}_{95\%} [0.63, 0.84], n_{\text{obs}} = 32$



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

Fuel efficiency by type of car transmission

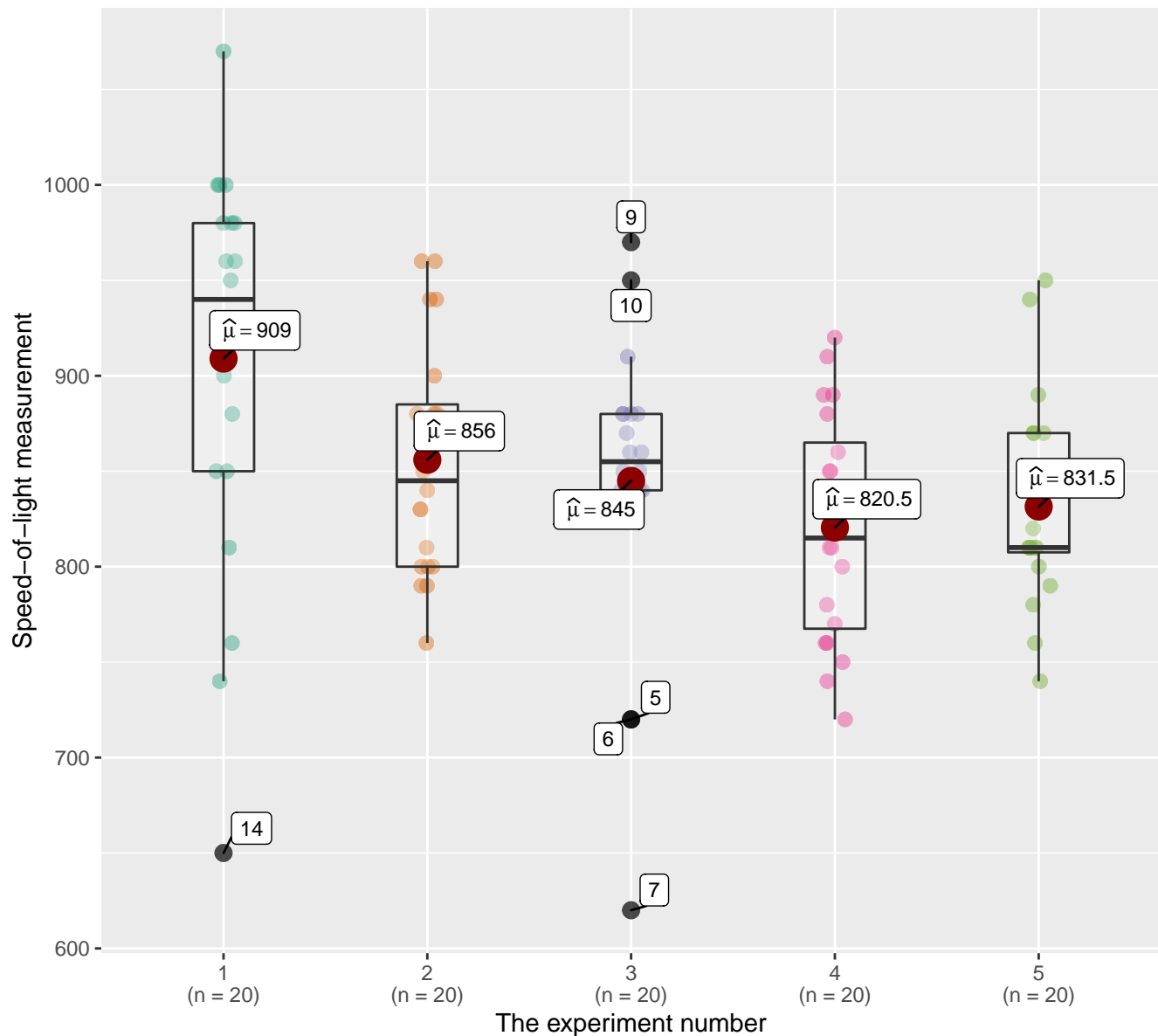
$t(18.33) = -3.77$, $p = 0.001$, $\hat{g} = -1.38$, $CI_{95\%} [-2.17, -0.51]$, $n_{\text{obs}} = 32$



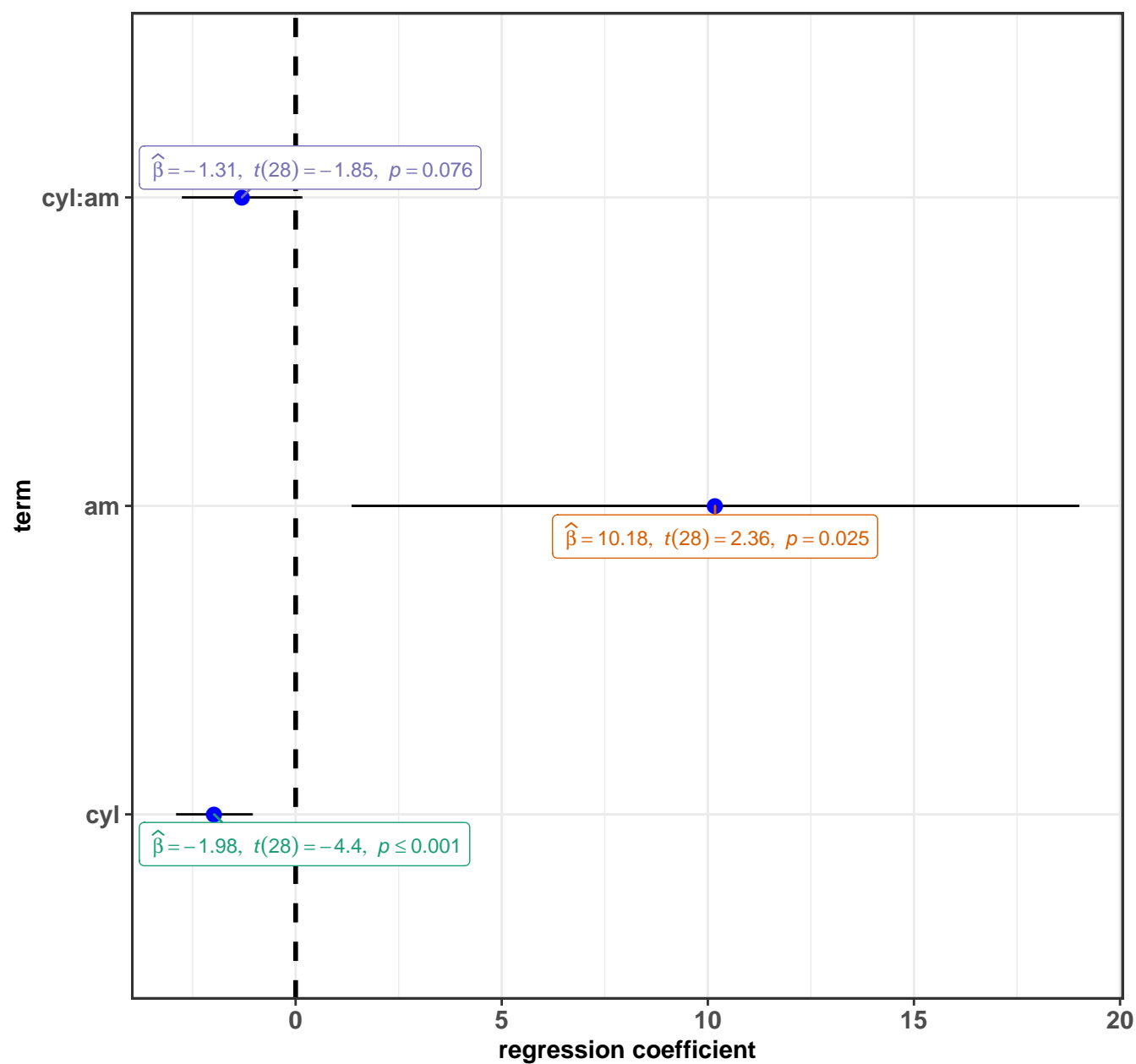
Transmission (0 = automatic, 1 = manual)

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

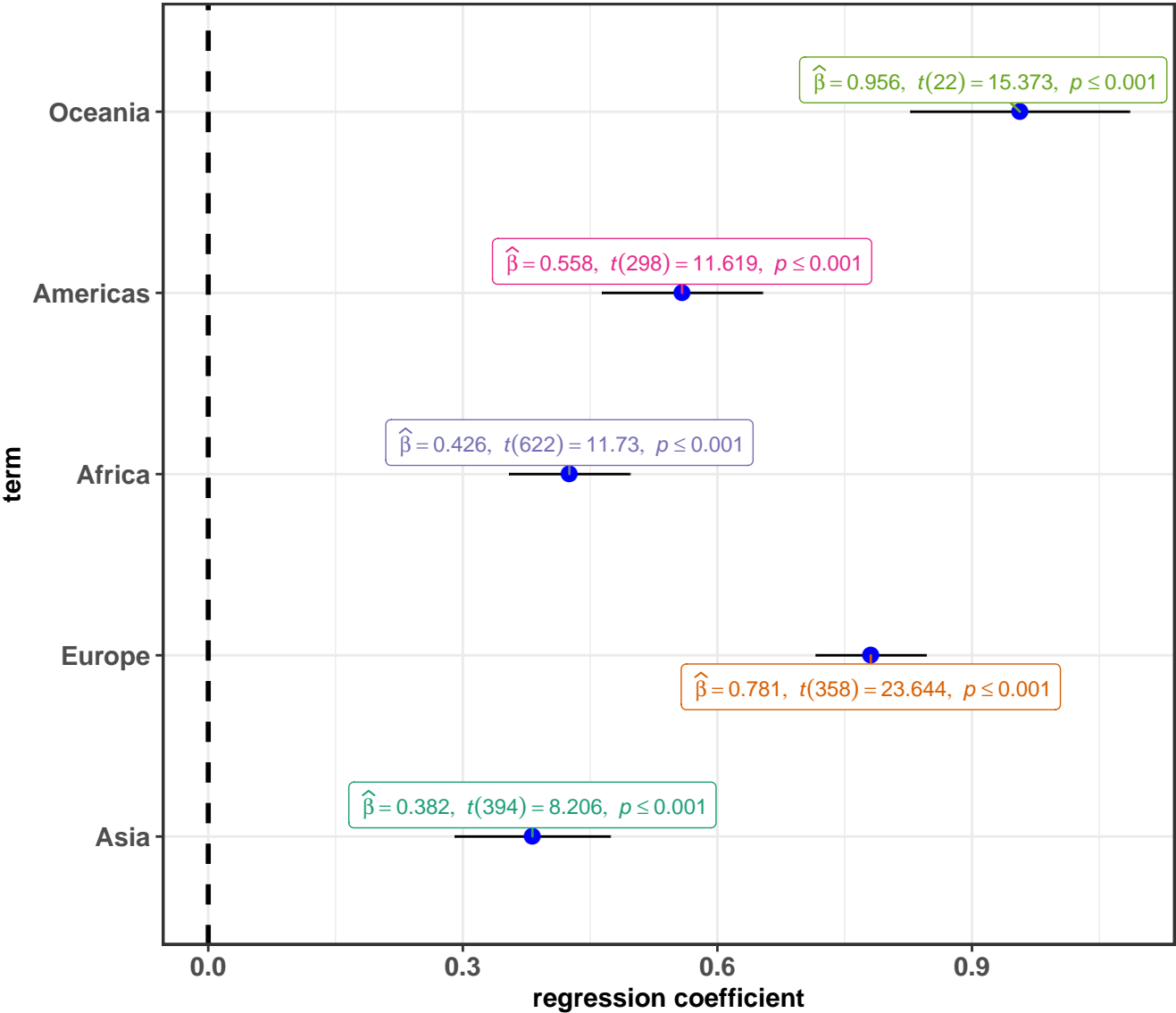
$\chi^2(4) = 15.02$, $p = 0.005$, $\hat{\epsilon}^2 = 0.15$, $CI_{99\%} [0.07, 0.28]$, $n_{\text{obs}} = 100$



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

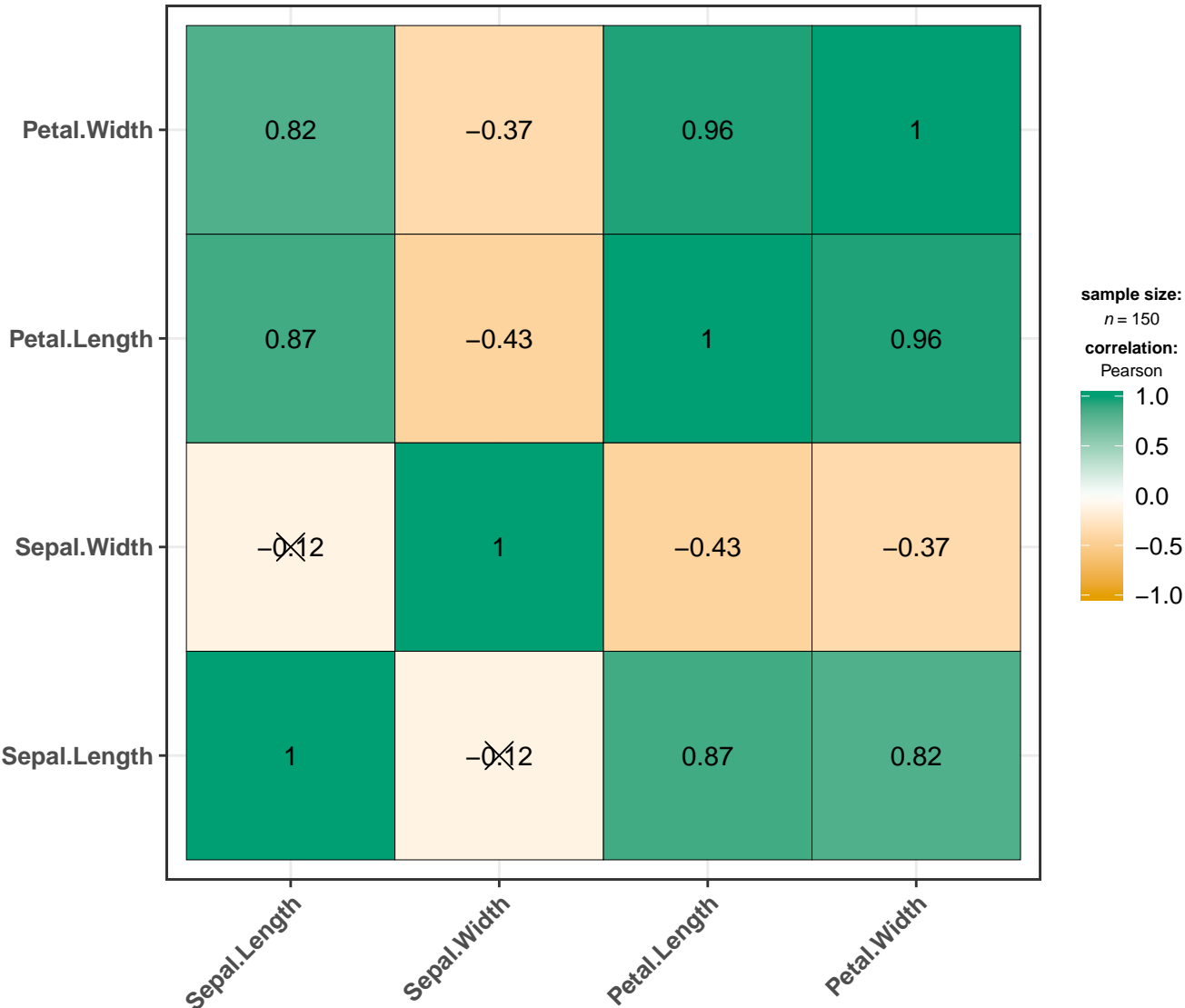


Summary effect: $z = 5.736$, $p = < 0.001$, $\hat{\beta} = 0.619$, $CI_{95\%} [0.407, 0.830]$, $n_{\text{effects}} = 5$

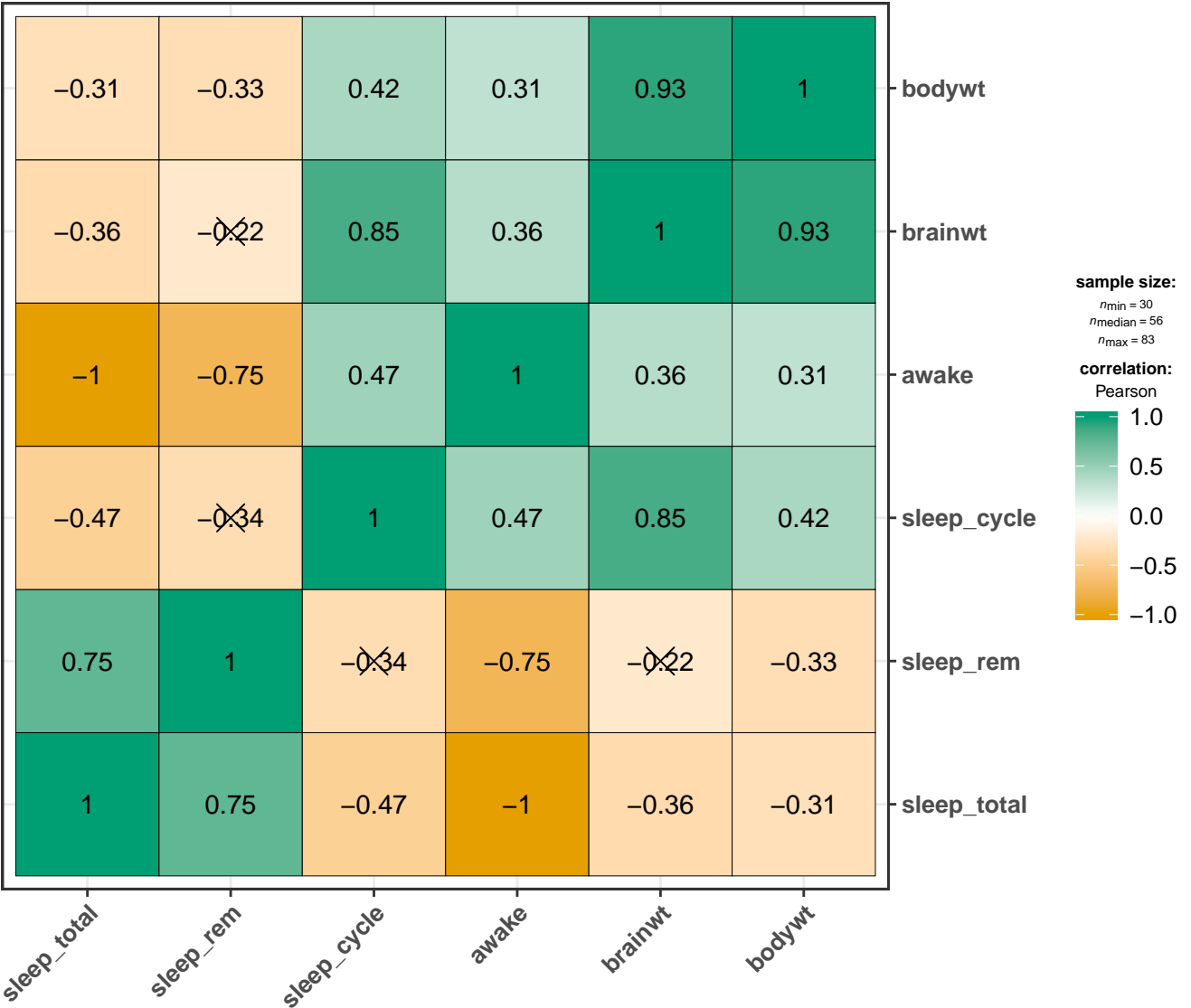


In favor of null: $\log_e(BF_{01}) = -3.341$, $d_{\text{mean}}^{\text{posterior}} = 0.515$, $CI_{95\%} [0.225, 0.767]$

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



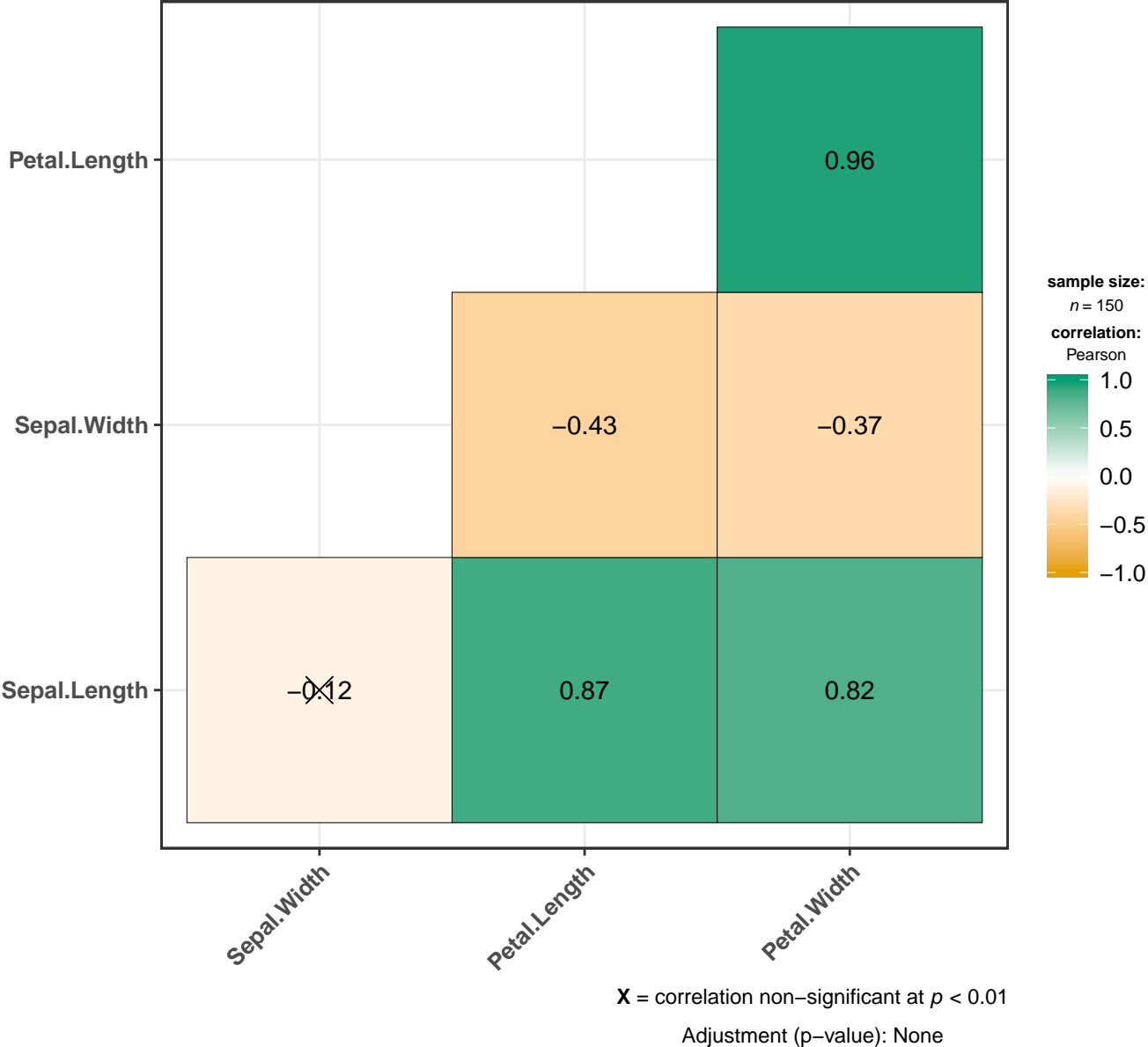
X = correlation non-significant at $p < 0.05$
Adjustment (p-value): None



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

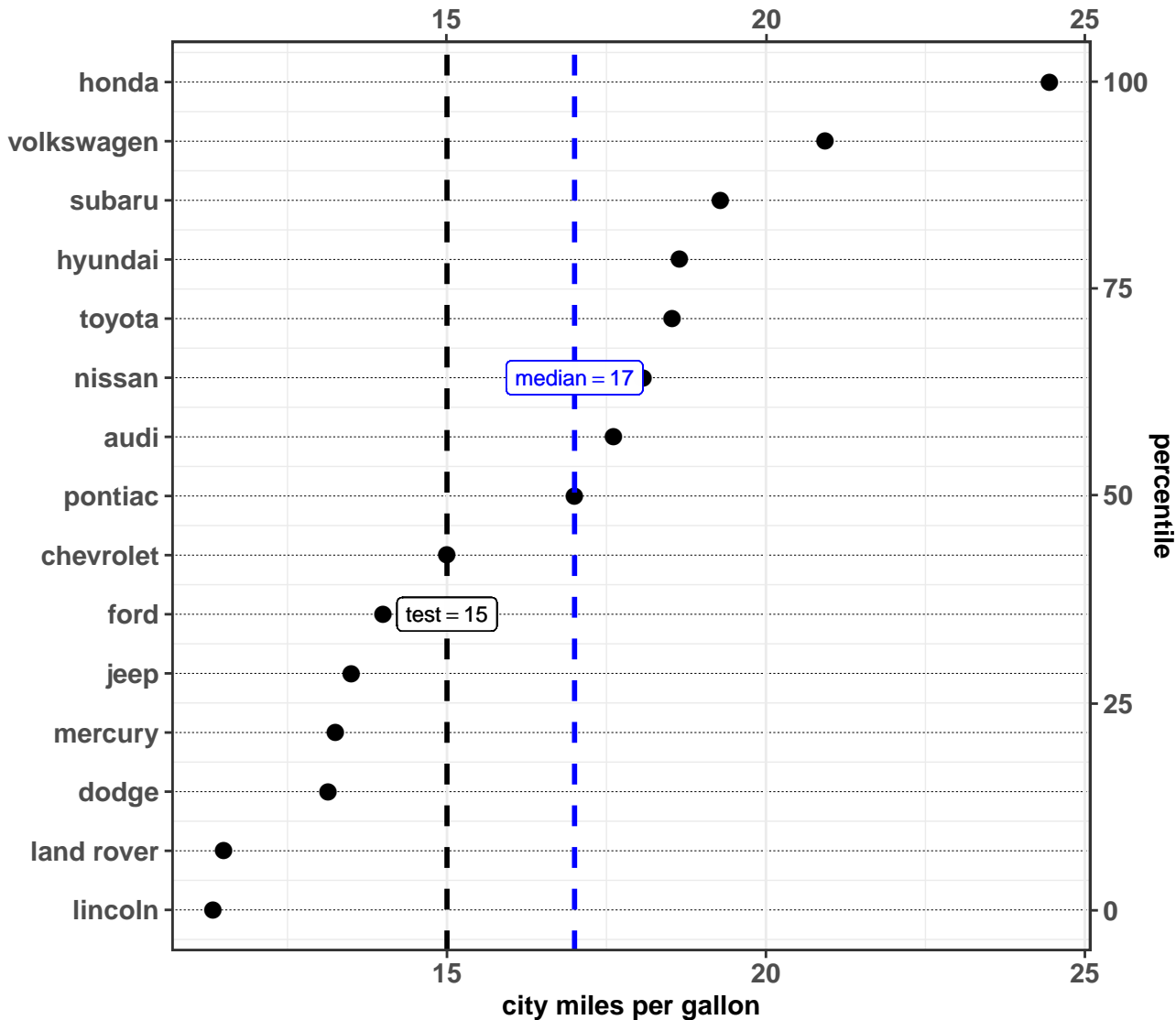
Adjustment (p-value): None

Dataset: Iris



Fuel economy data

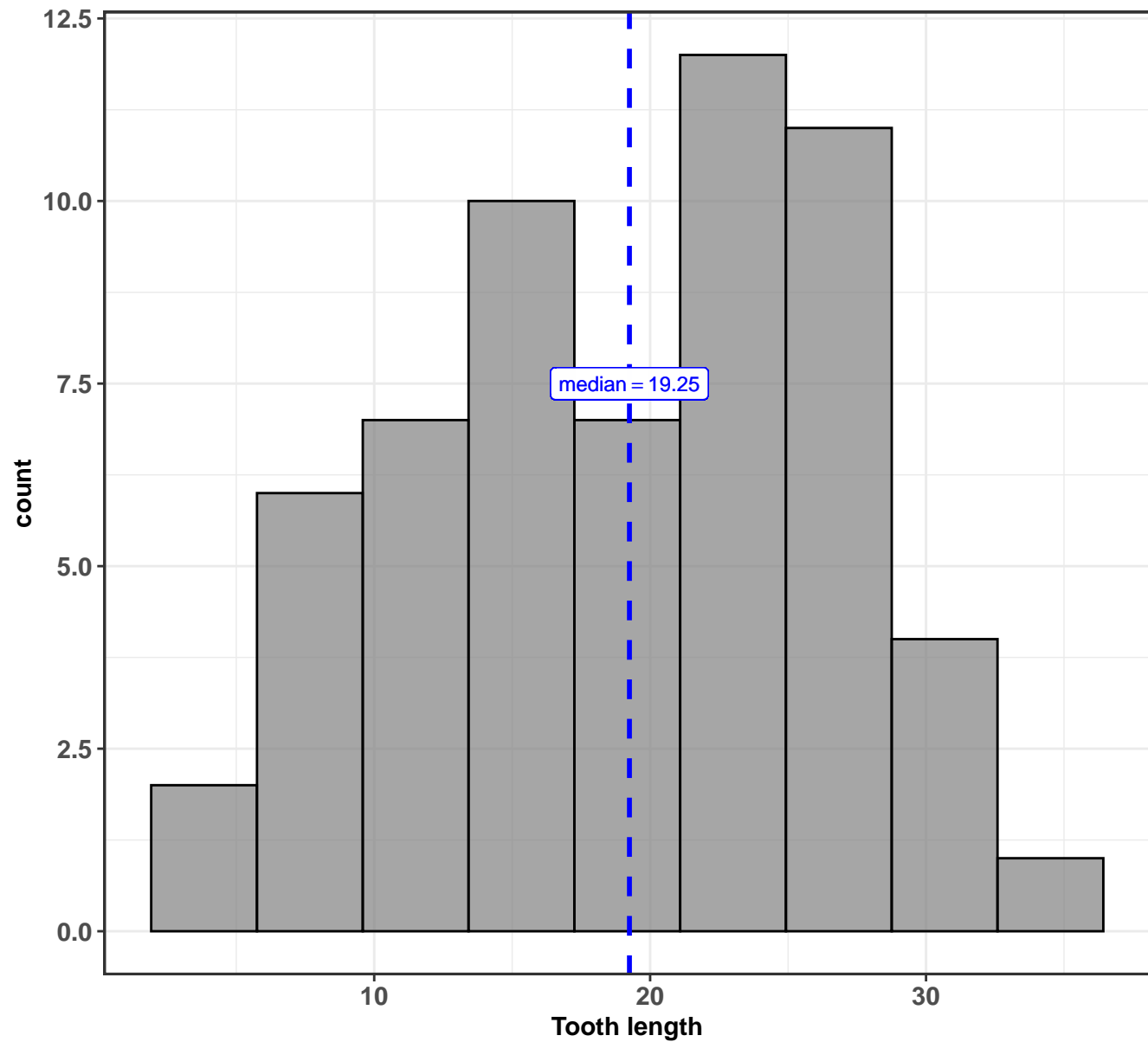
$t(14) = 1.47$, $p = 0.163$, $\hat{g} = 0.36$, $CI_{99\%} [-0.33, 1.10]$, $n_{\text{obs}} = 15$



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

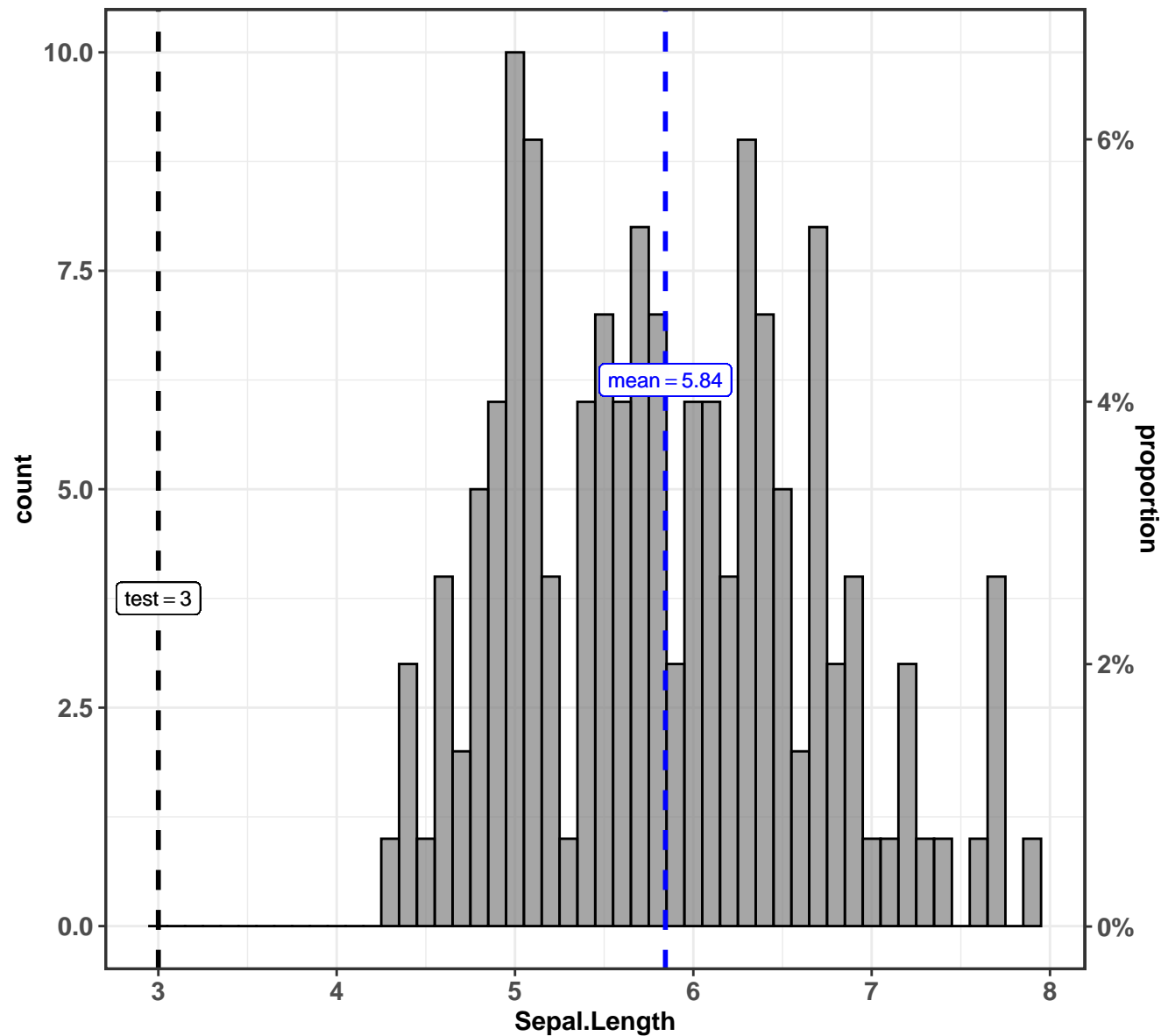
In favor of null: $\log_e(BF_{01}) = 0.44$, $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

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



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

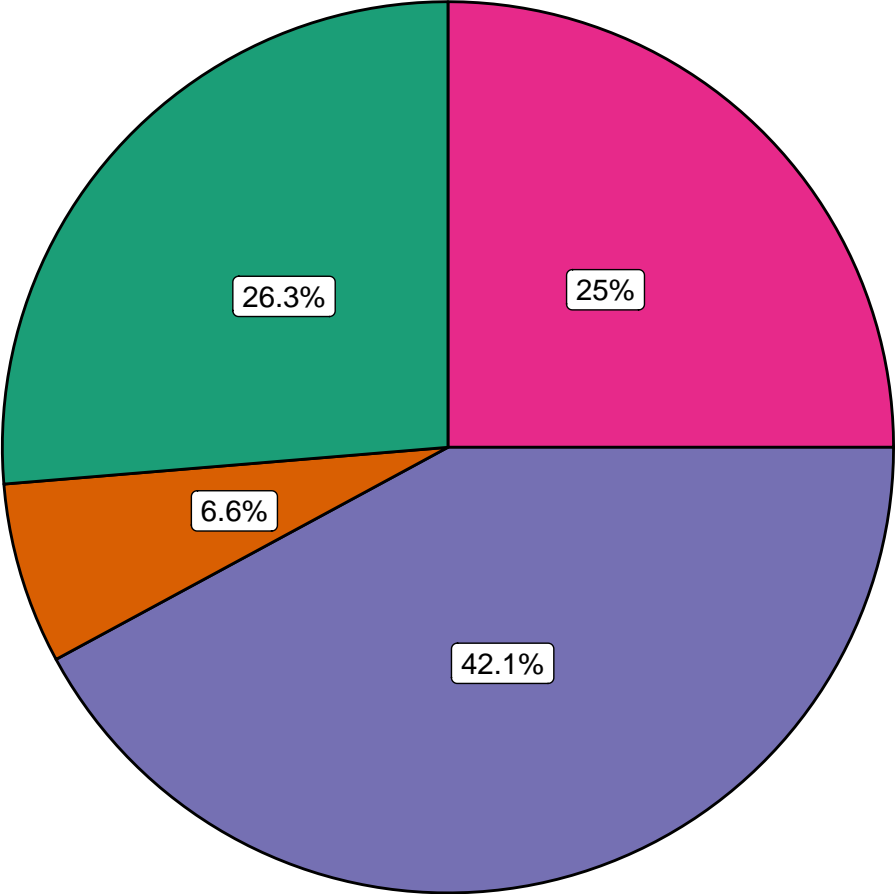
$t(149) = 42.05$, $p = < 0.001$, $\hat{g} = 3.42$, $CI_{95\%} [3.02, 3.86]$, $n_{\text{obs}} = 150$



Note: Iris dataset by Fisher.

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

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



vore



omni



insecti

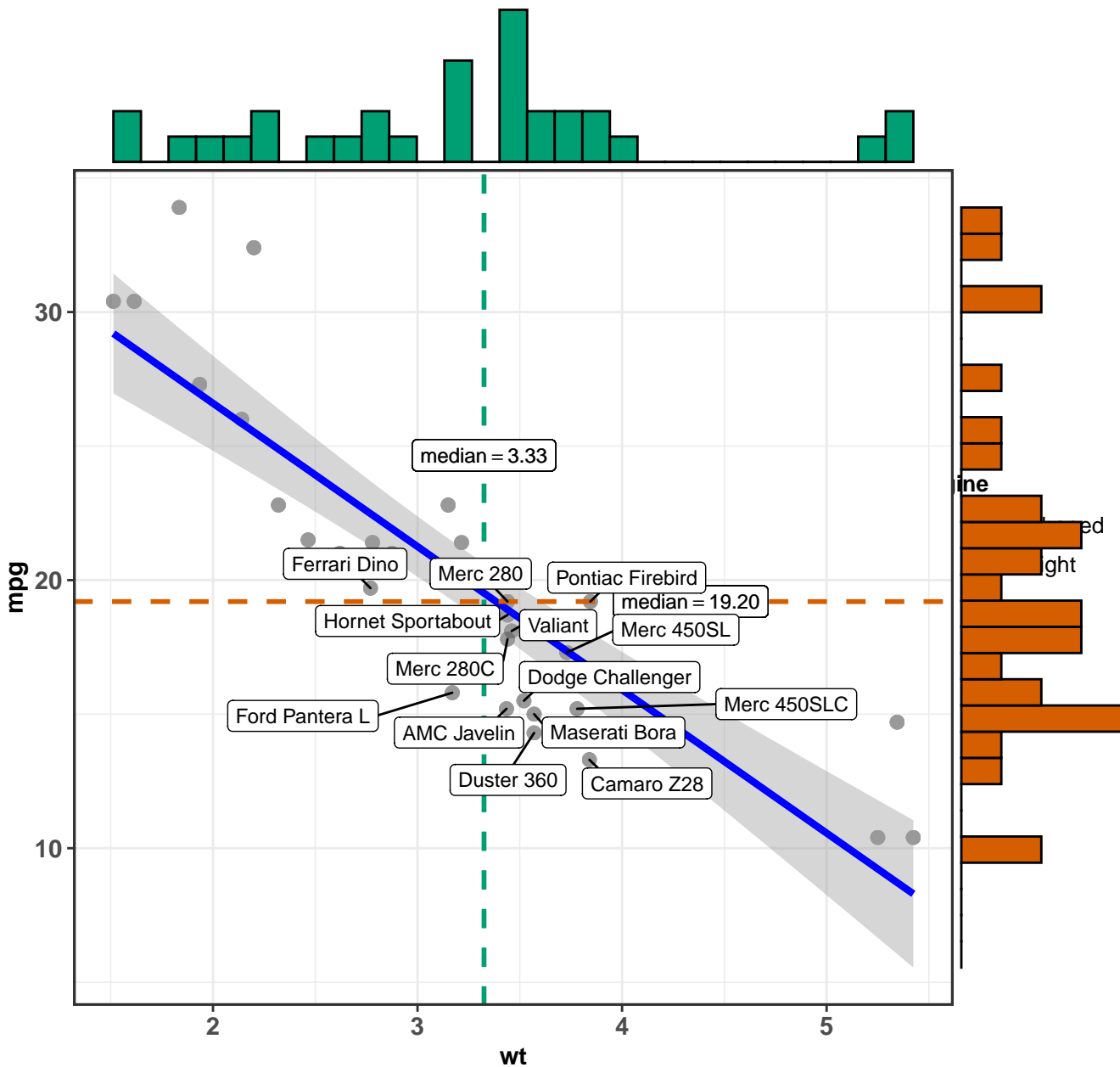


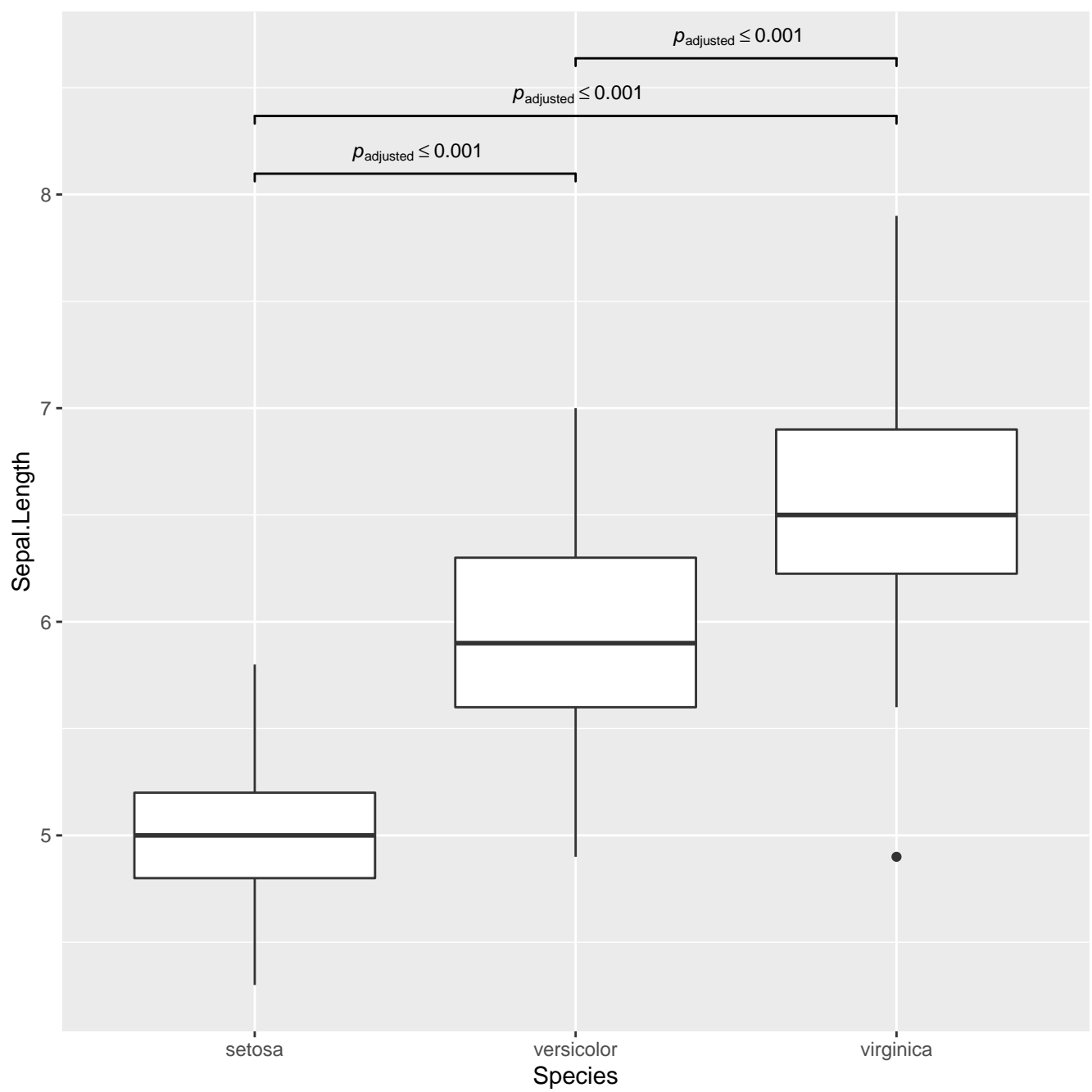
herbi



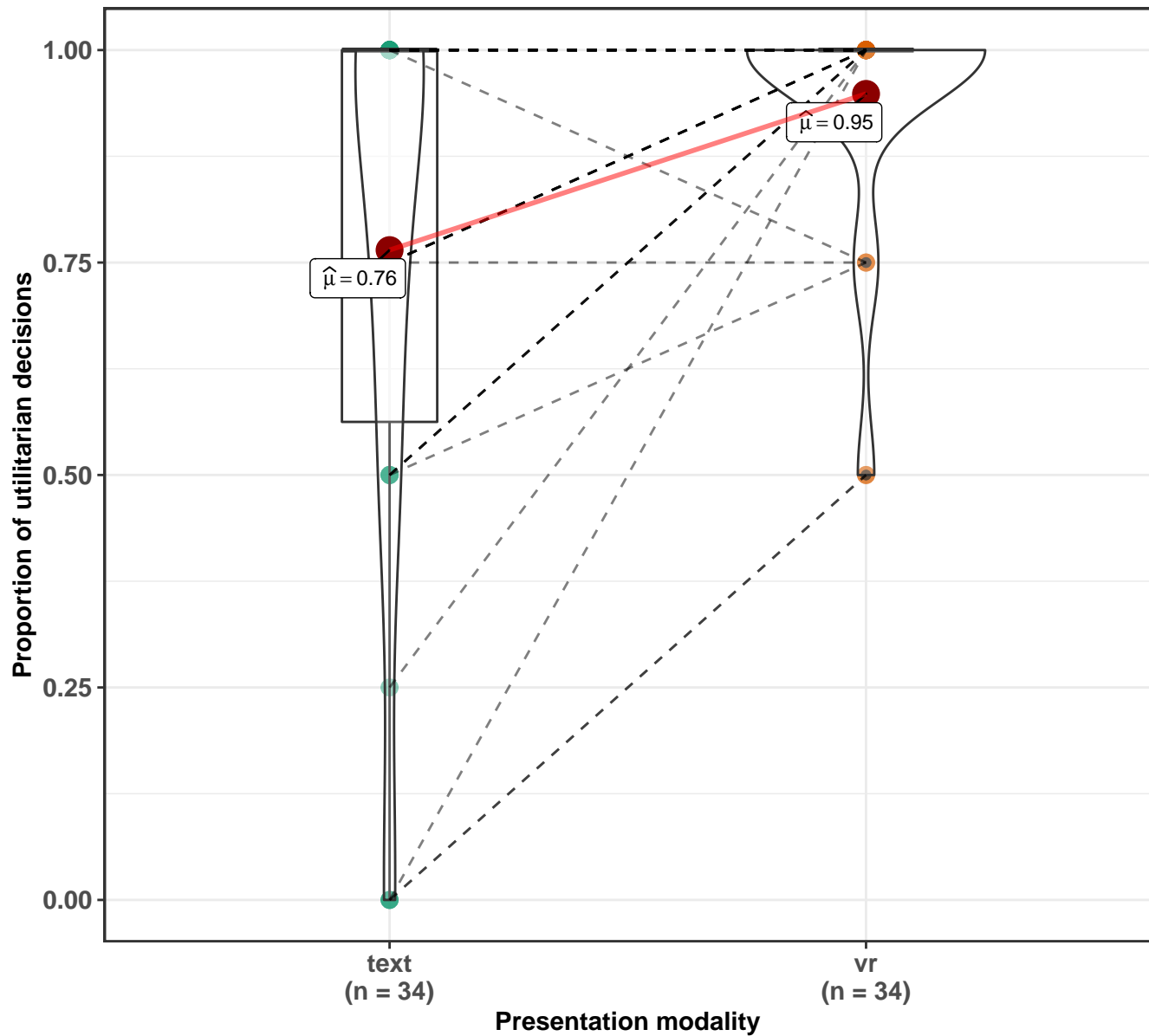
carni

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



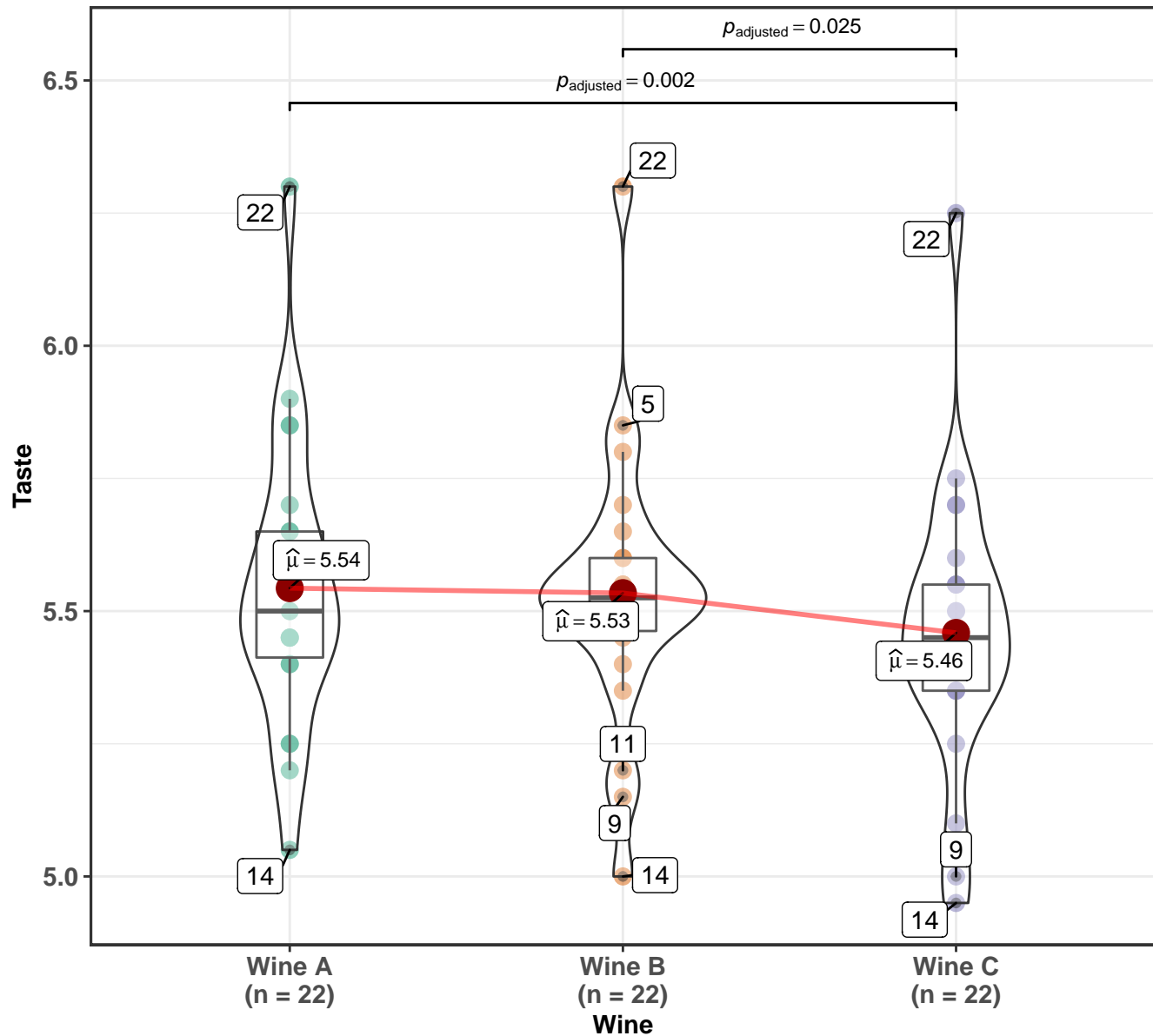


$t(33) = -3.96, p = < 0.001, \hat{g} = -0.66, \text{CI}_{95\%} [-1.07, -0.31], n_{\text{pairs}} = 34$



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

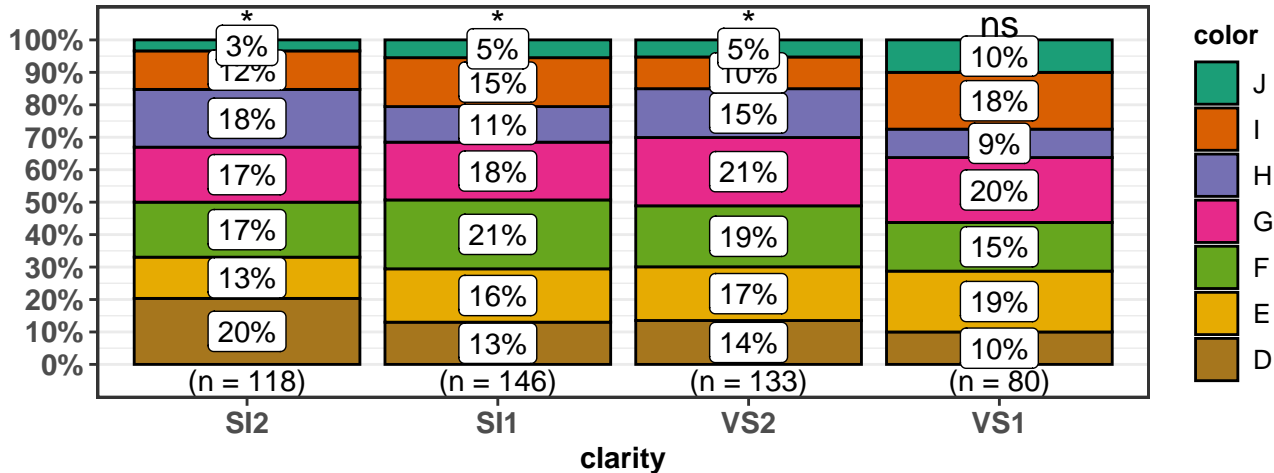
$\chi^2(2) = 11.14$, $p = 0.004$, $\widehat{W}_{\text{Kendall}} = 0.82$, $\text{CI}_{99\%} [0.82, 1.00]$, $n_{\text{pairs}} = 22$



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

Quality: Very Good

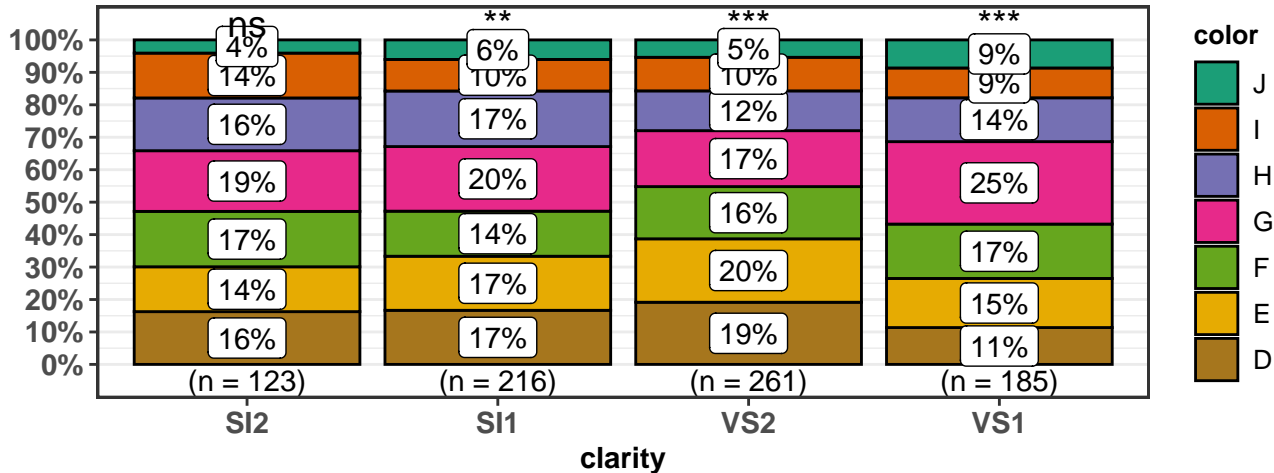
$\chi^2_{\text{Pearson}}(18) = 17.95$, $p = 0.459$, $\widehat{V}_{\text{Cramer}} = 0.00$, $\text{CI}_{95\%} [-0.18, -0.04]$, $n_{\text{obs}} = 477$



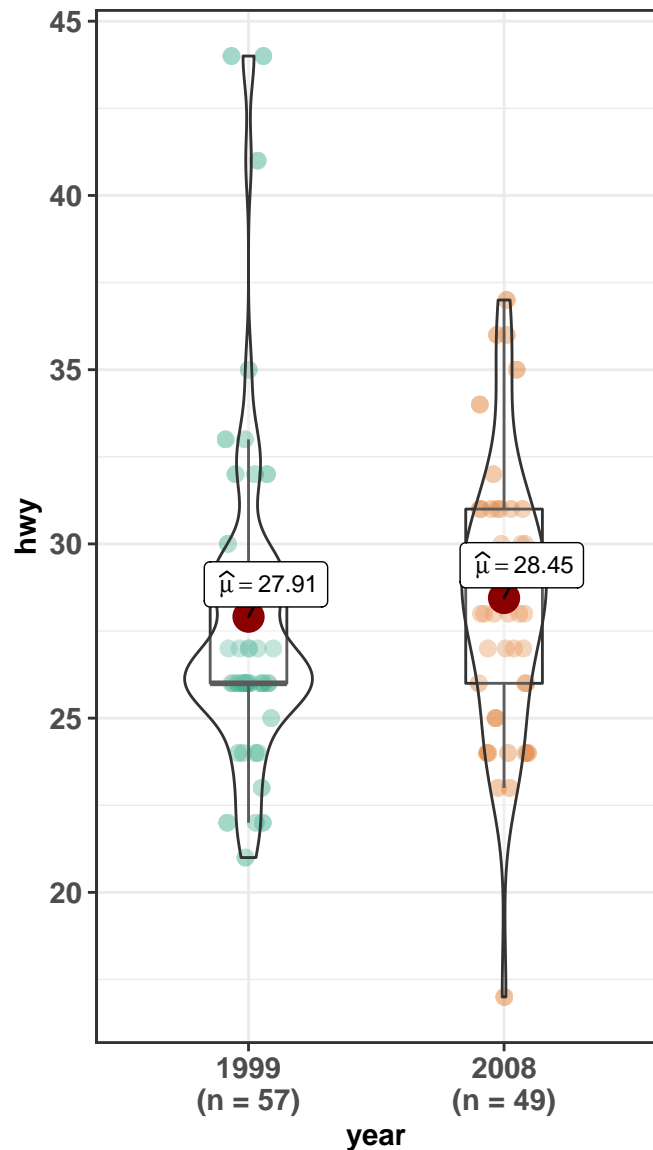
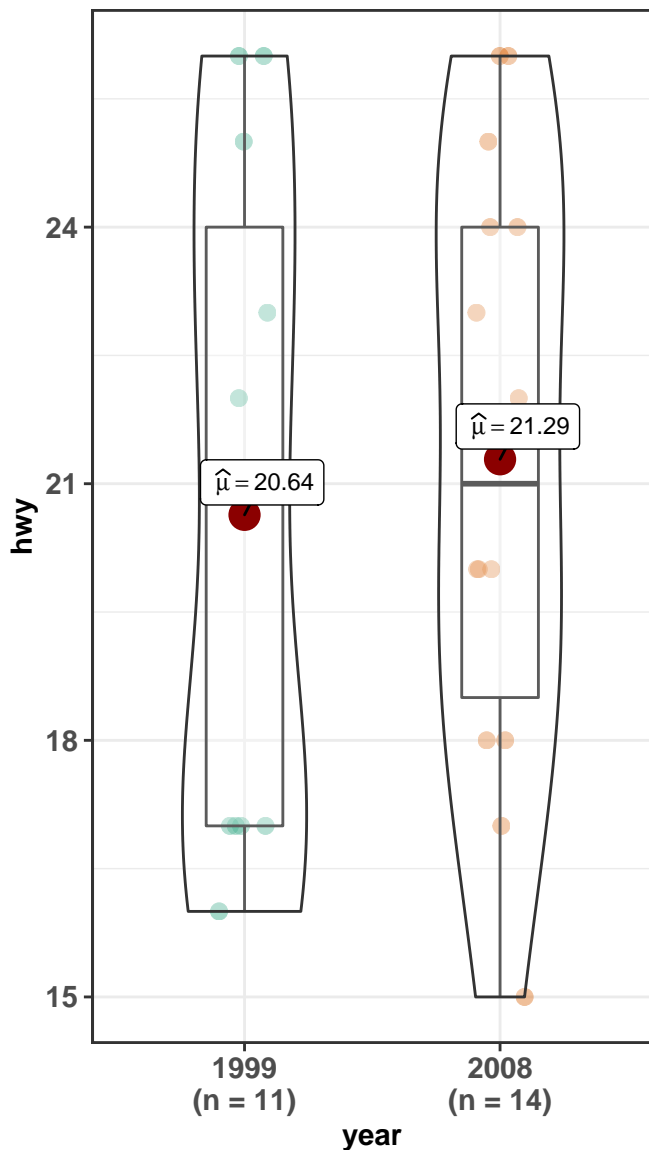
In favor of null: $\log_e(\text{BF}_{01}) = 16.13$, sampling = independent multinomial, $a = 1.00$

Quality: Ideal

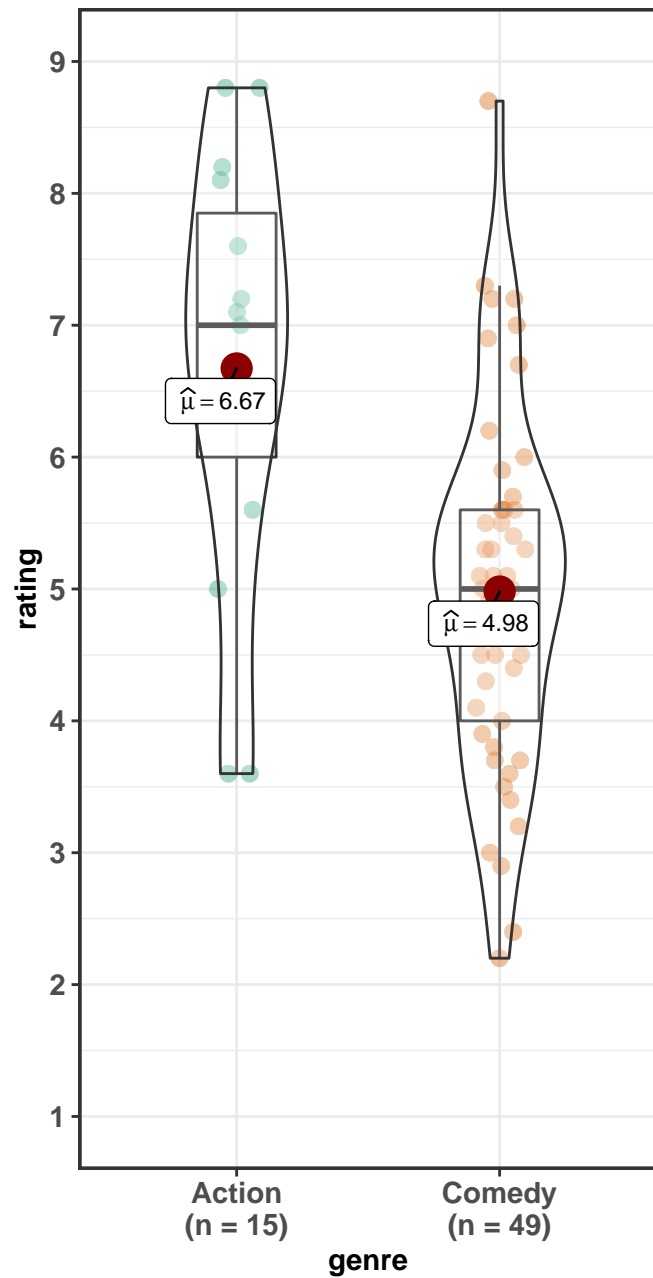
$\chi^2_{\text{Pearson}}(18) = 17.85$, $p = 0.466$, $\widehat{V}_{\text{Cramer}} = 0.00$, $\text{CI}_{95\%} [-0.14, -0.03]$, $n_{\text{obs}} = 785$



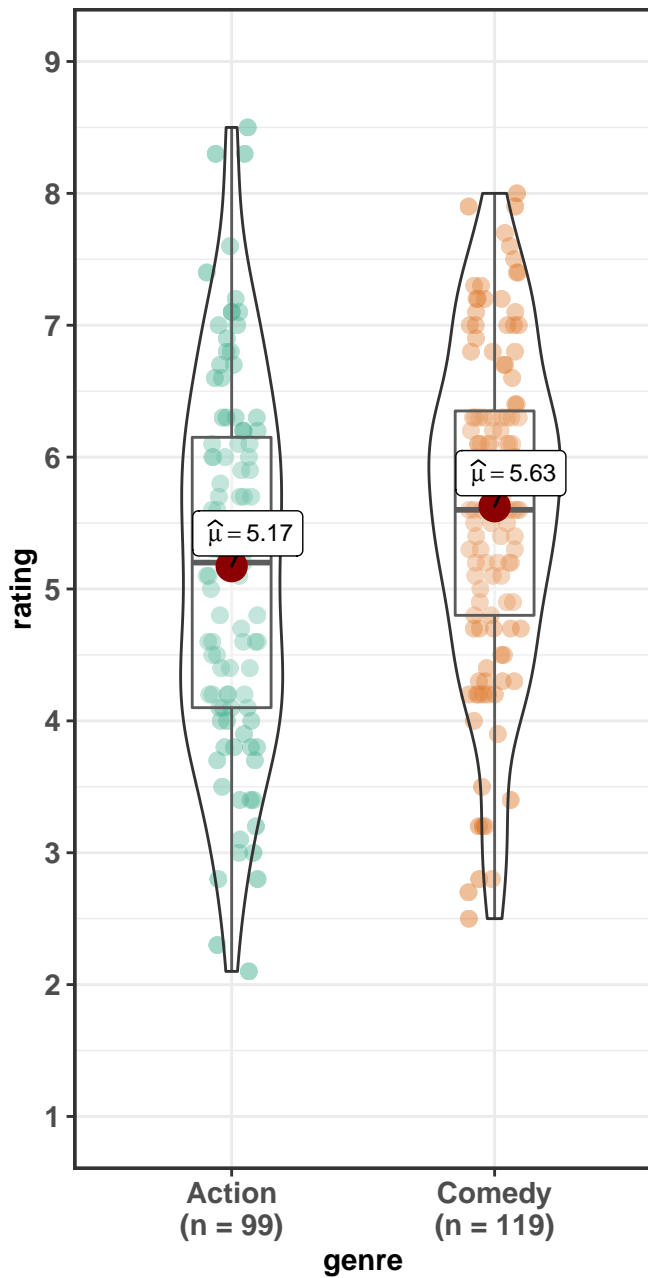
In favor of null: $\log_e(\text{BF}_{01}) = 20.36$, sampling = independent multinomial, $a = 1.00$

drv: f $t(103.71) = -0.66, p = 0.509, \hat{g} = -0.13, \text{CI}_{99\%} [-$ In favor of null: $\log_e(\text{BF}_{01}) = 1.39, r_{\text{Cauchy}}^{\text{JZS}} = 0.71$ **drv: r** $t(20.19) = -0.43, p = 0.675, \hat{g} = -0.17, \text{CI}_{99\%} [-1$ In favor of null: $\log_e(\text{BF}_{01}) = 0.93, r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

mpaa: PG



mpaa: R

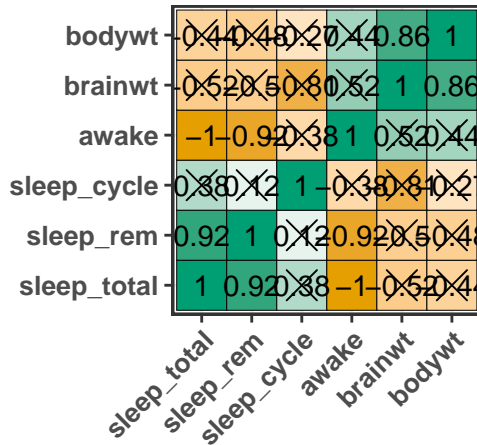
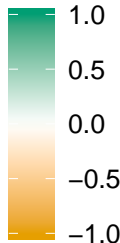


vore: carni

sample size:

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

correlation:
 Pearson



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

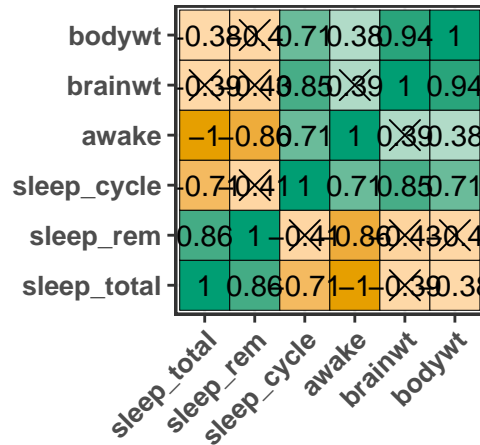
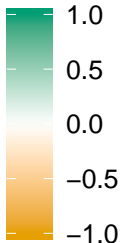
Adjustment (p-value): None

vore: herbi

sample size:

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

correlation:
 Pearson



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

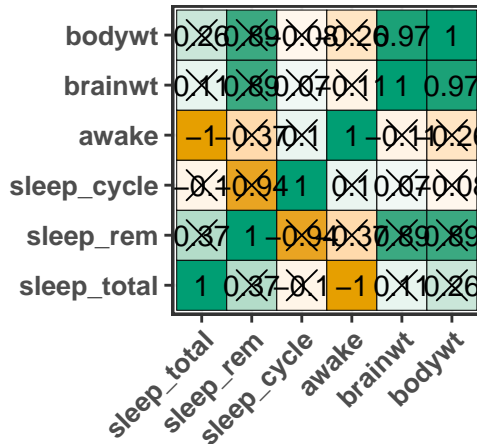
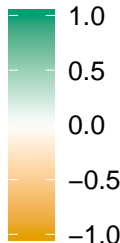
Adjustment (p-value): None

vore: insecti

sample size:

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

correlation:
 Pearson



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

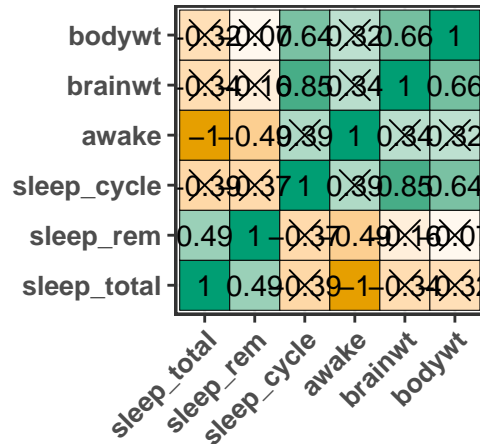
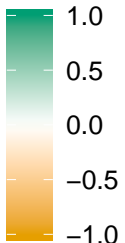
Adjustment (p-value): None

vore: omni

sample size:

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

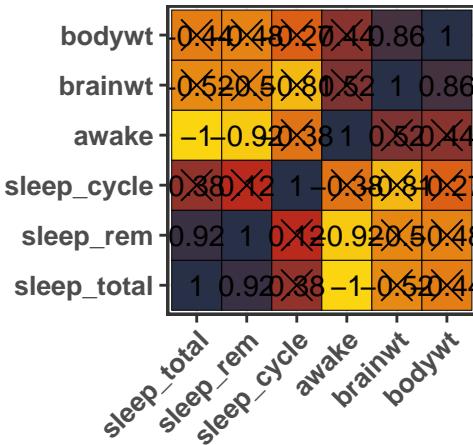
correlation:
 Pearson



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

Adjustment (p-value): None

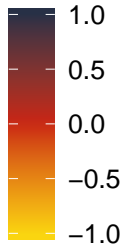
vore: carni



sample size:

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

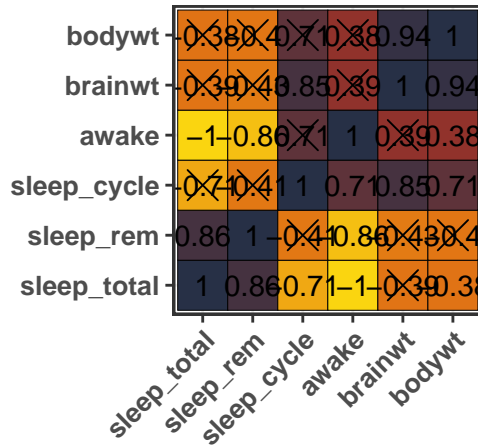
correlation:
 Pearson



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

Adjustment (p-value): Holm

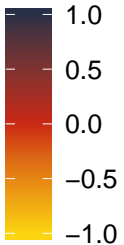
vore: herbi



sample size:

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

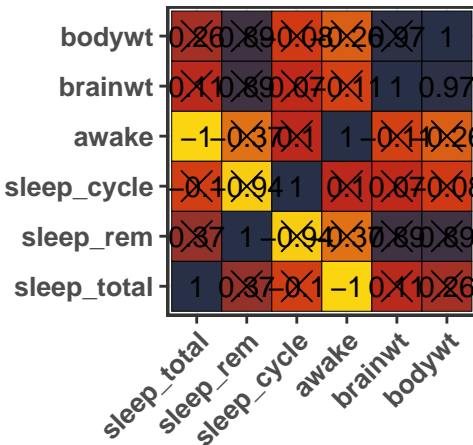
correlation:
 Pearson



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

Adjustment (p-value): Holm

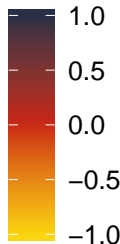
vore: insecti



sample size:

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

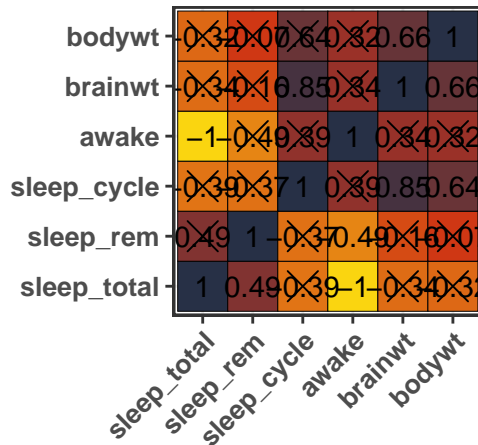
correlation:
 Pearson



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

Adjustment (p-value): Holm

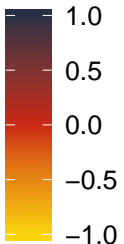
vore: omni



sample size:

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

correlation:
 Pearson

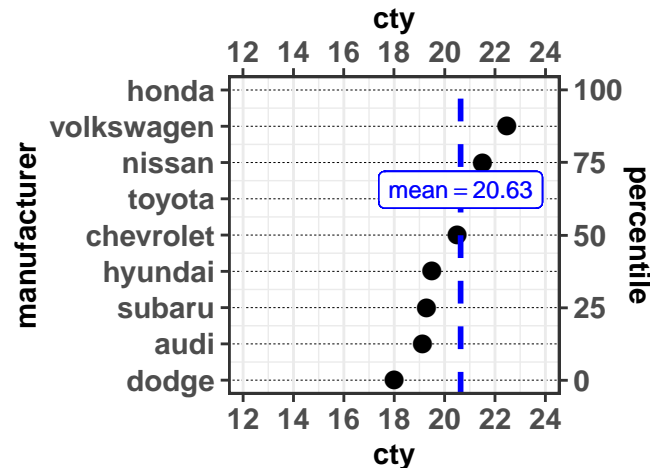


X = correlation non-significant at $p < 0.05$

Adjustment (p-value): Holm

cylinder count: 4

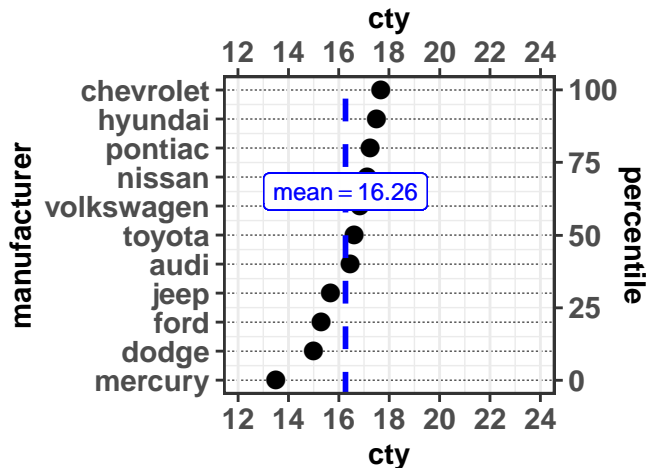
$$t(8) = 7.82, p = < 0.001, \hat{g} = 2.32, \text{CI}_9$$



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

cylinder count: 6

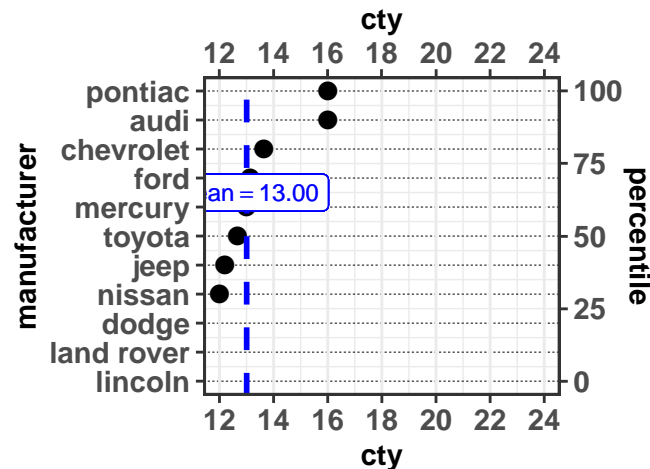
$$t(10) = 1.99, p = 0.075, \hat{g} = 0.55, \text{CI}_{95}$$



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

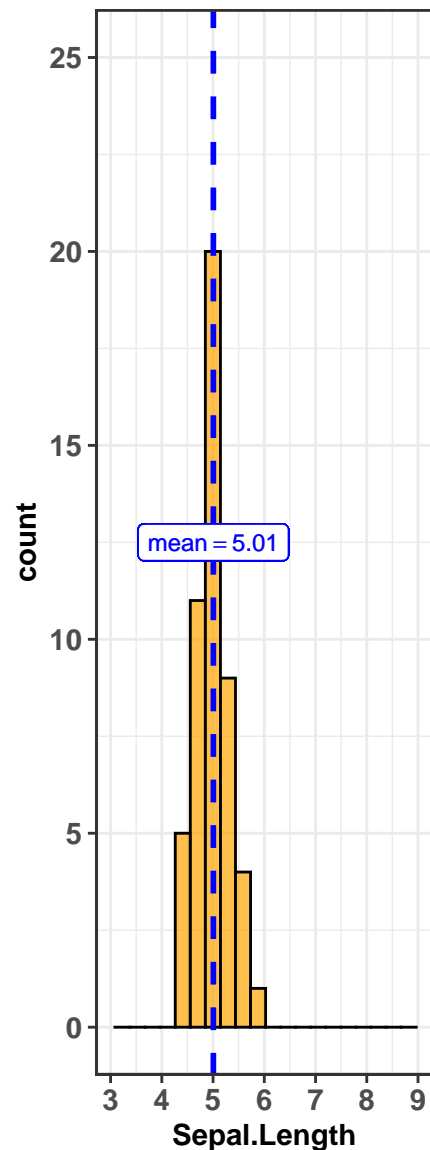
cylinder count: 8

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

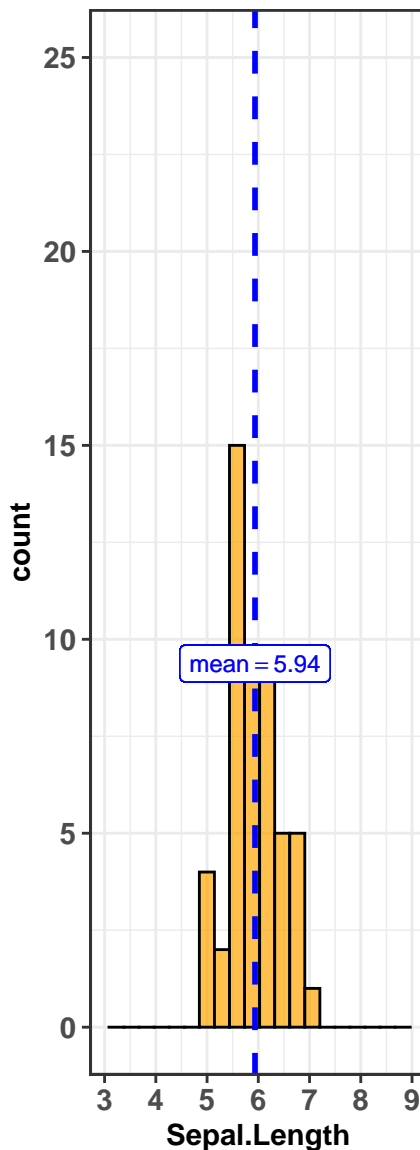


In favor of null: $\log_e(\text{BF}_{01}) = -4.24, r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

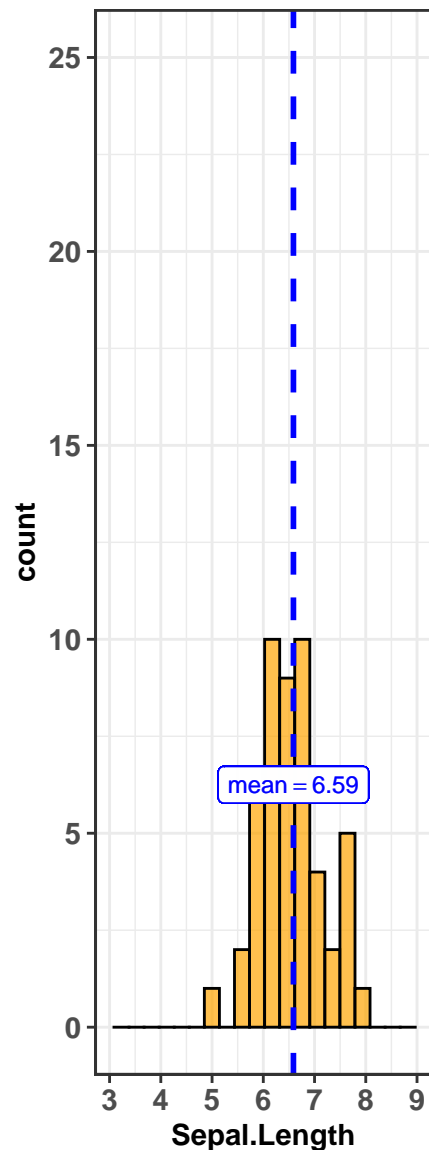
(i) Species: setosa
 $t(49) = 0.12, p = 0.905, \hat{g} = 0.$



(ii) Species: versicolor
 $t(49) = 12.82, p = < 0.001, \hat{g} =$



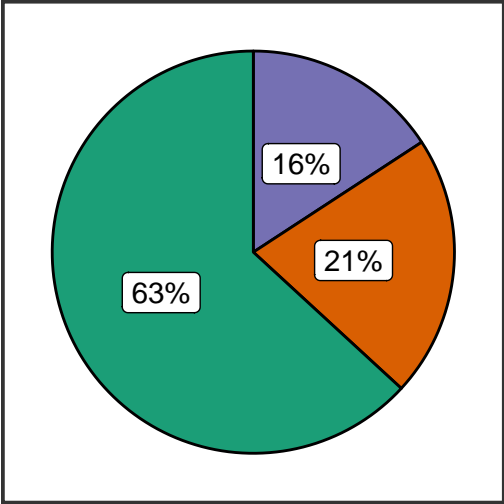
(iii) Species: virginica
 $t(49) = 17.66, p = < 0.001, \hat{g} =$



or of null: $\log_e(\text{BF}_{01}) = 1.86, r_{\text{Cauchy}}^{\text{JZS}}$ in favor of null: $\log_e(\text{BF}_{01}) = -32.95, r_{\text{Cauchy}}^{\text{JZS}}$ in favor of null: $\log_e(\text{BF}_{01}) = -45.50, r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

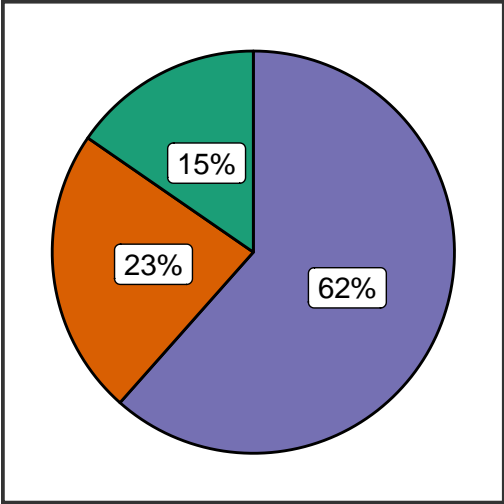
am: 0

$\chi^2_{\text{gof}}(2) = 7.68, p = 0.021, \hat{V}_{\text{Cramer}} = 0.45, \text{CI}_{95\%} [0.11, 0.79]$



am: 1

$\chi^2_{\text{gof}}(2) = 4.77, p = 0.092, \hat{V}_{\text{Cramer}} = 0.43, \text{CI}_{95\%} [0.12, 0.74]$



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

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

Quality: Fair

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



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

Quality: Very Good

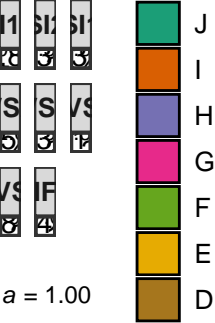
$\chi^2_{\text{Pearson}}(42) = 64.05, p = 0.016, \widehat{V}_{\text{Cramer}} = 0.06, \text{CI}_{95\%} [-0.01, 0.04],$



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

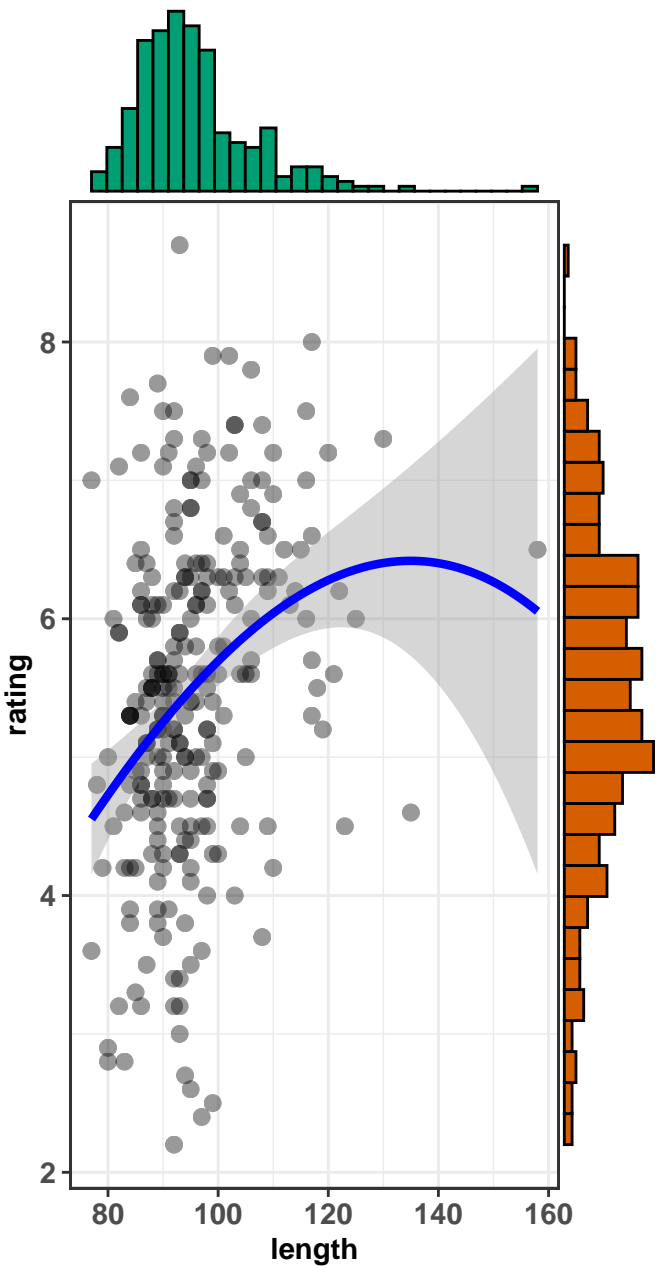
Quality: Ideal

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

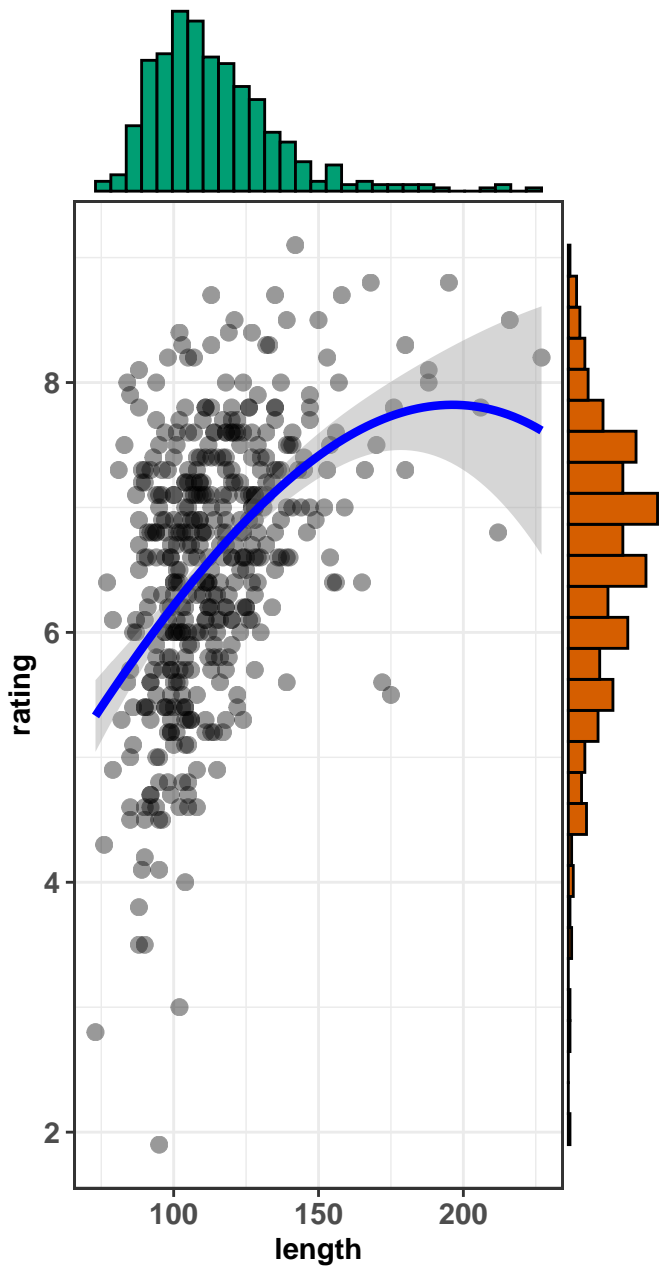


favor of null: $\log_e(\text{BF}_{01}) = -25.04$, sampling = poisson, $a = 1.00$

genre: Comedy

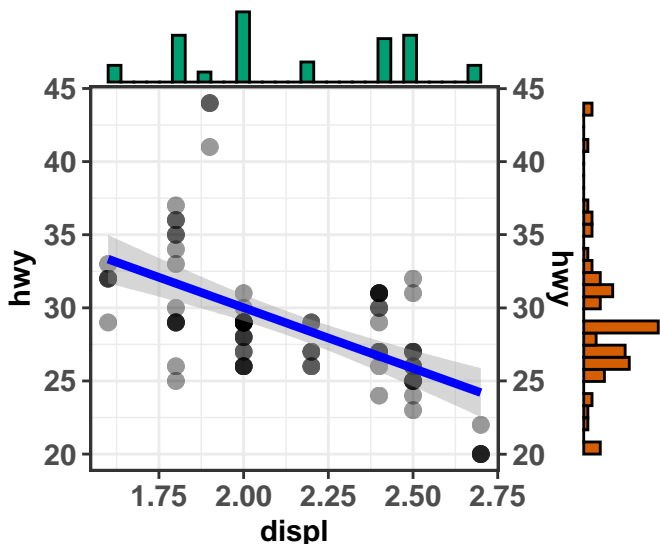


genre: Drama



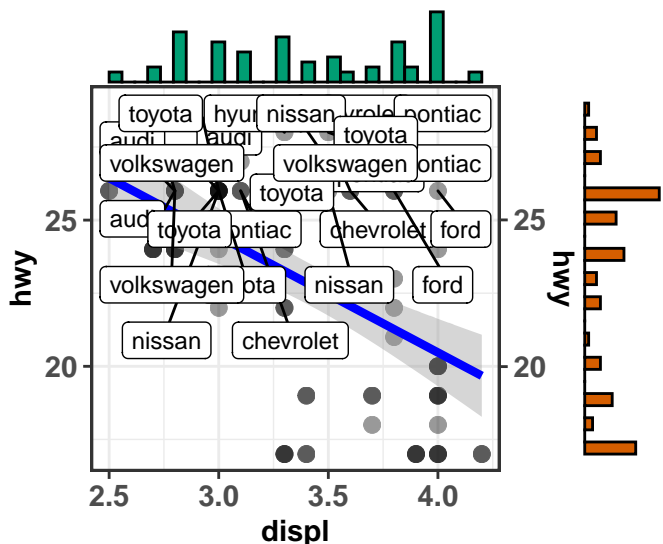
Cylinder count: 4

$t(79) = -6.93, p = < 0.001, \hat{\rho}_{pb} = -($



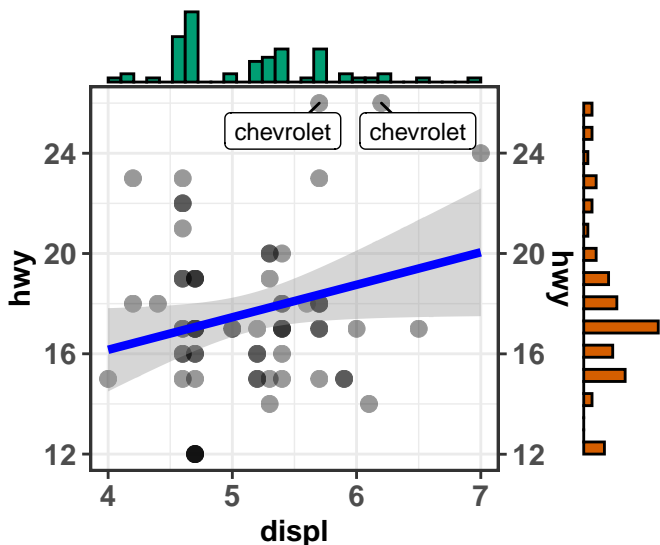
Cylinder count: 6

$t(77) = -5.13, p = < 0.001, \hat{\rho}_{pb} = -($



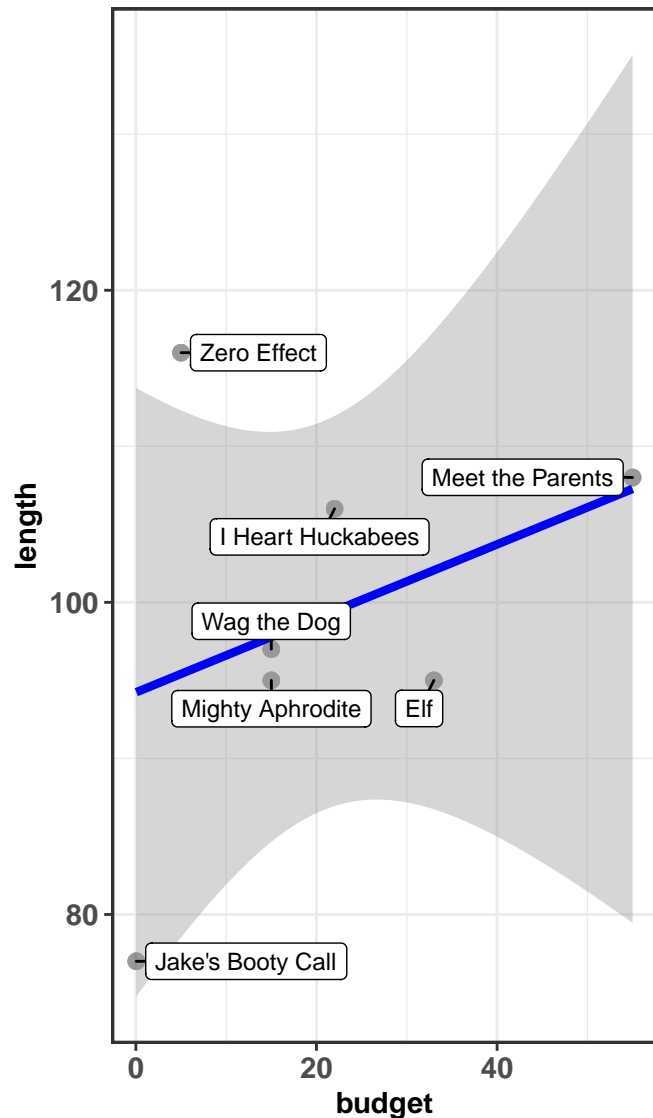
Cylinder count: 8

$t(68) = 1.25, p = 0.216, \hat{\rho}_{pb} = 0.15,$



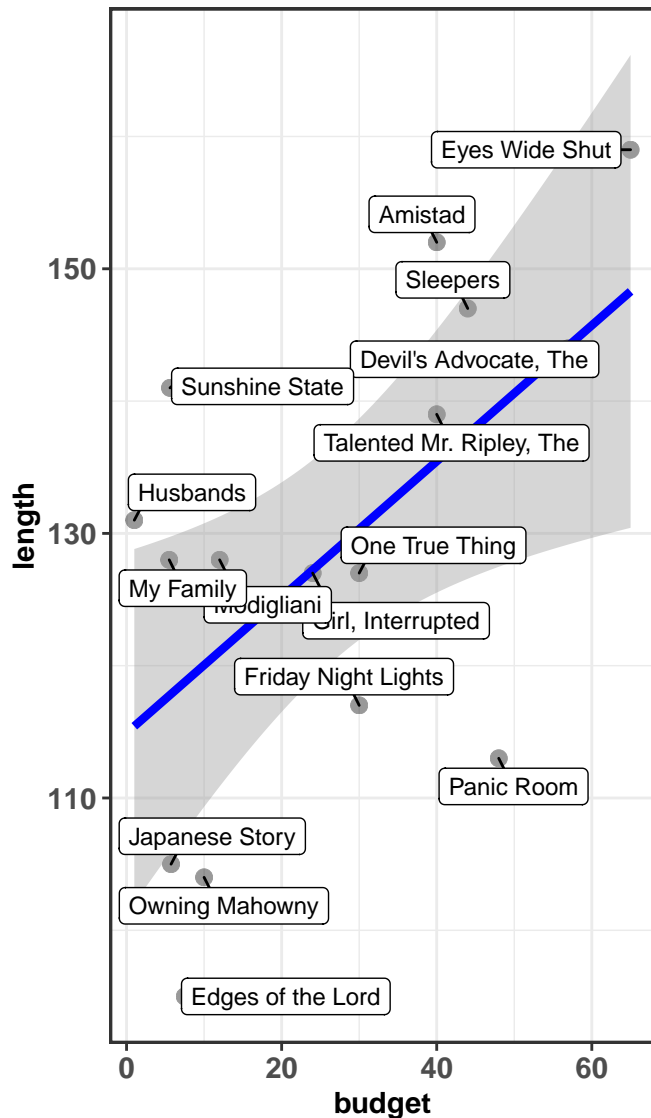
Genre: Comedy

$t(5) = 0.84$, $p = 0.439$, $\hat{r}_{\text{Pearson}} = 0.35$, $\text{CI}_{95\%} [-0.$



Genre: Drama

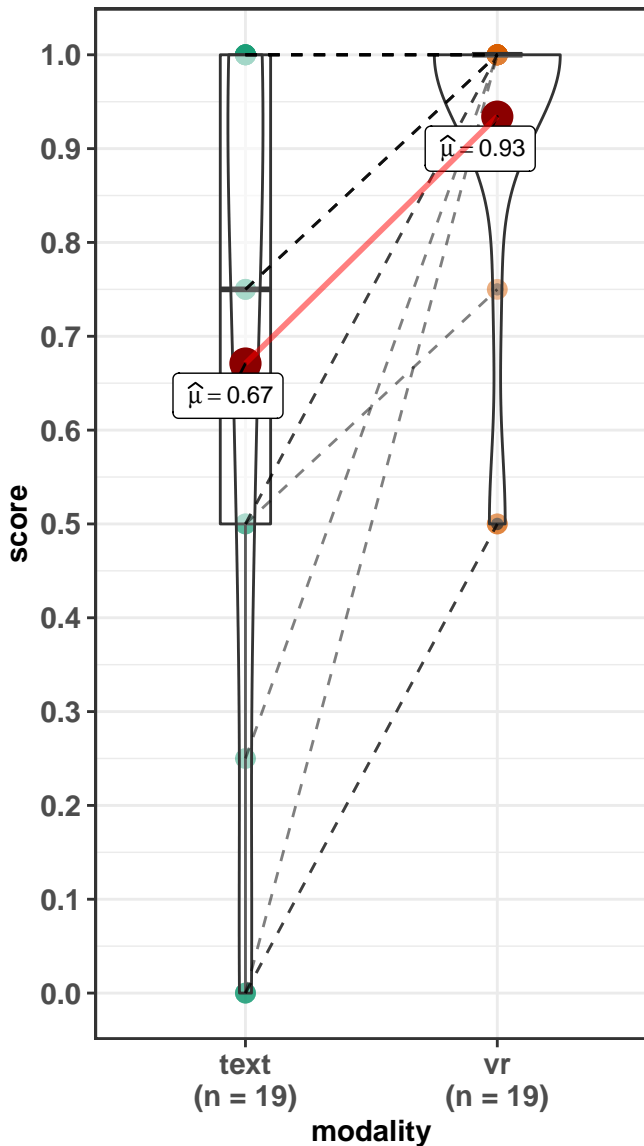
$t(14) = 2.67$, $p = 0.018$, $\hat{r}_{\text{Pearson}} = 0.58$, $\text{CI}_{95\%} [0.$



All movies have IMDB rating equal to 7.

order: 0

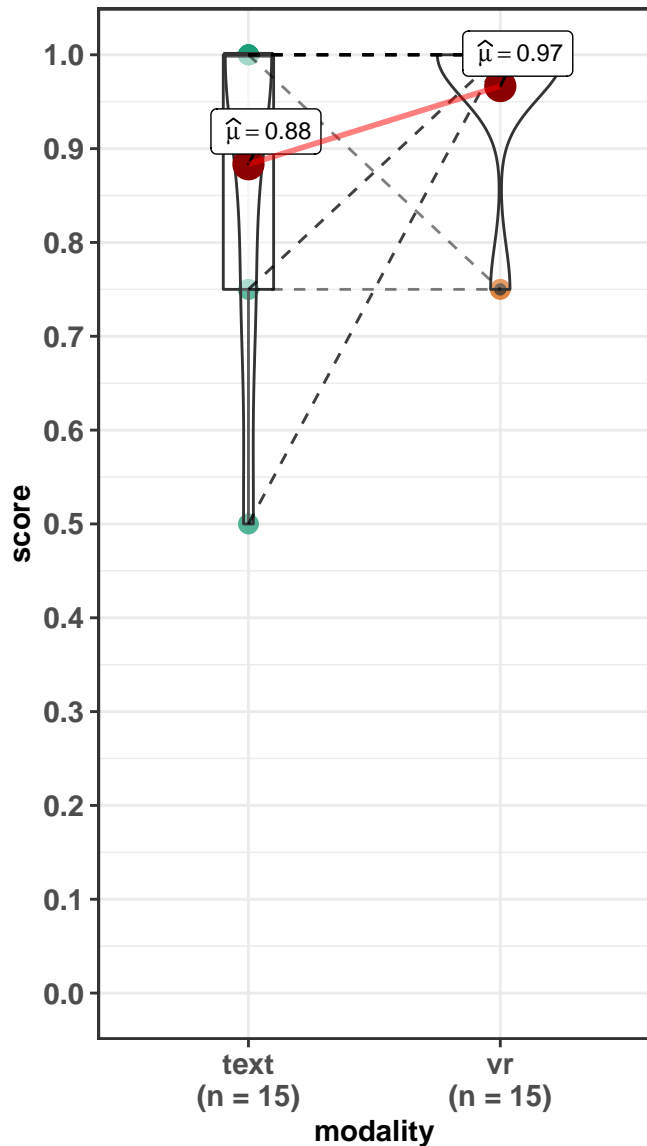
$t(18) = -3.90$, $p = 0.001$, $\hat{g} = -0.85$, $\text{CI}_{95\%} [-1.4\epsilon$



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

order: 1

$t(14) = -1.58$, $p = 0.136$, $\hat{g} = -0.38$, $\text{CI}_{95\%} [-0.9\epsilon$



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

