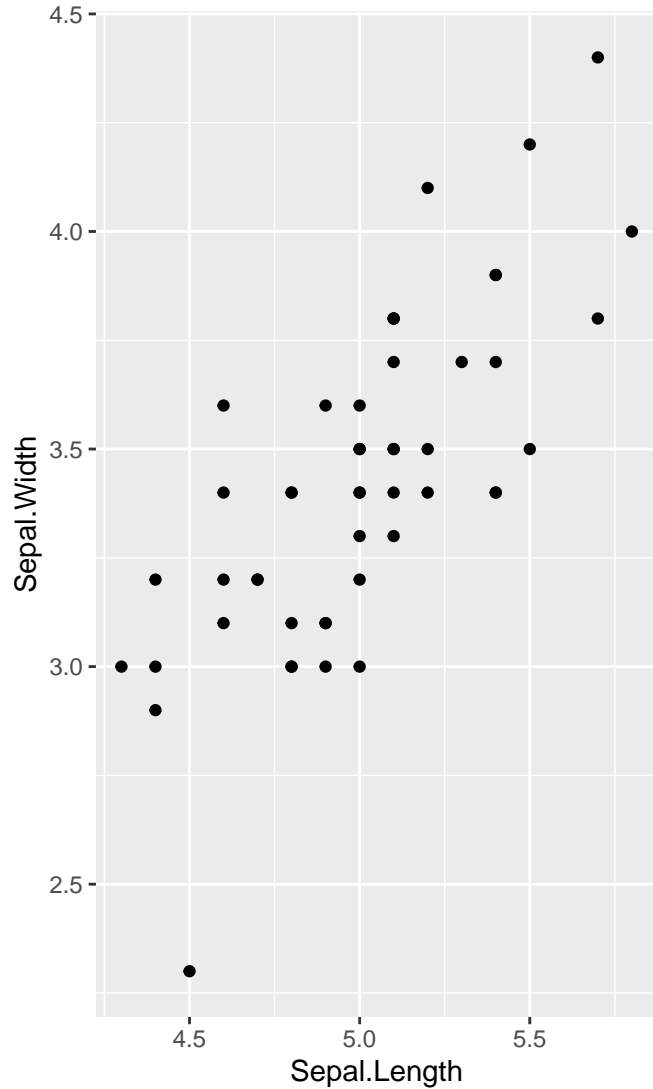
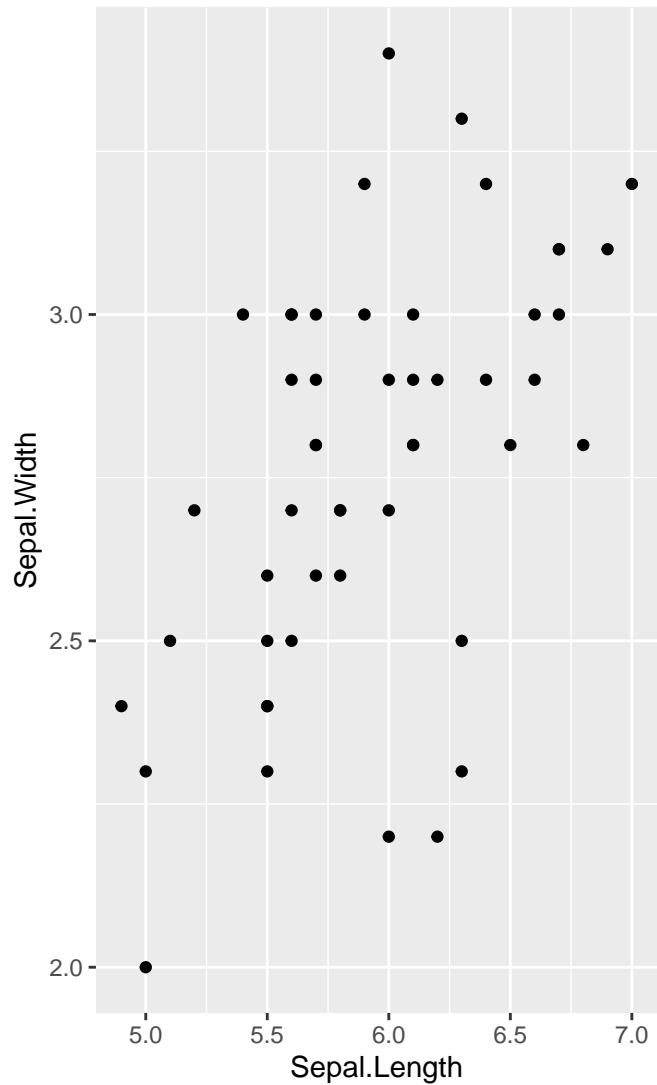


Dataset: Iris Flower dataset

(a) setosa

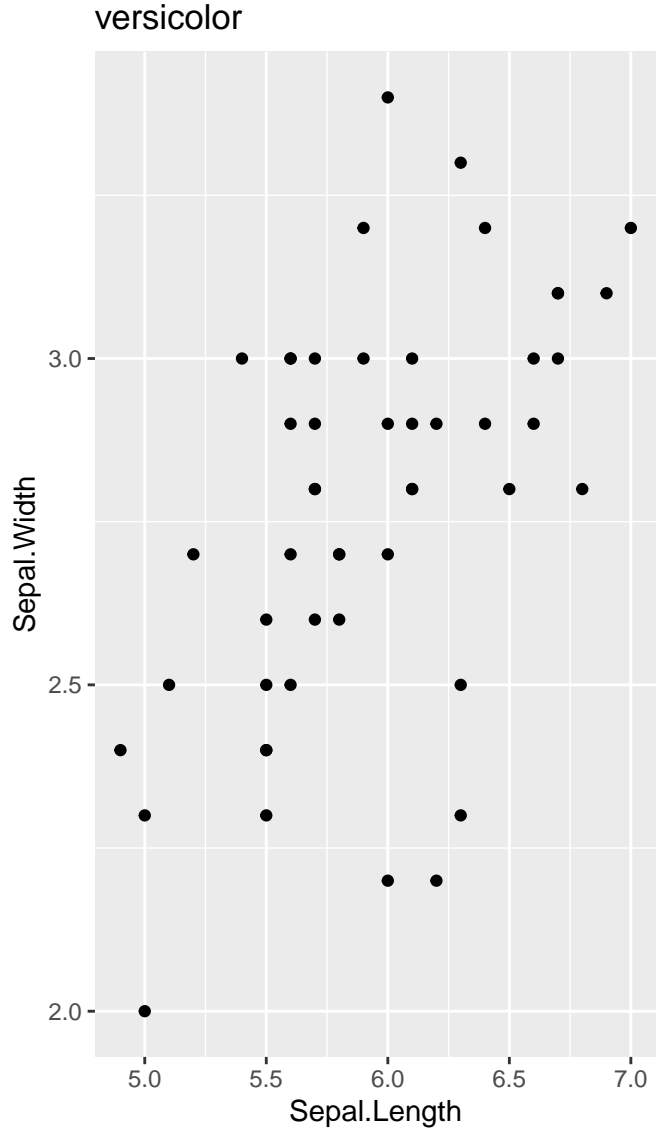
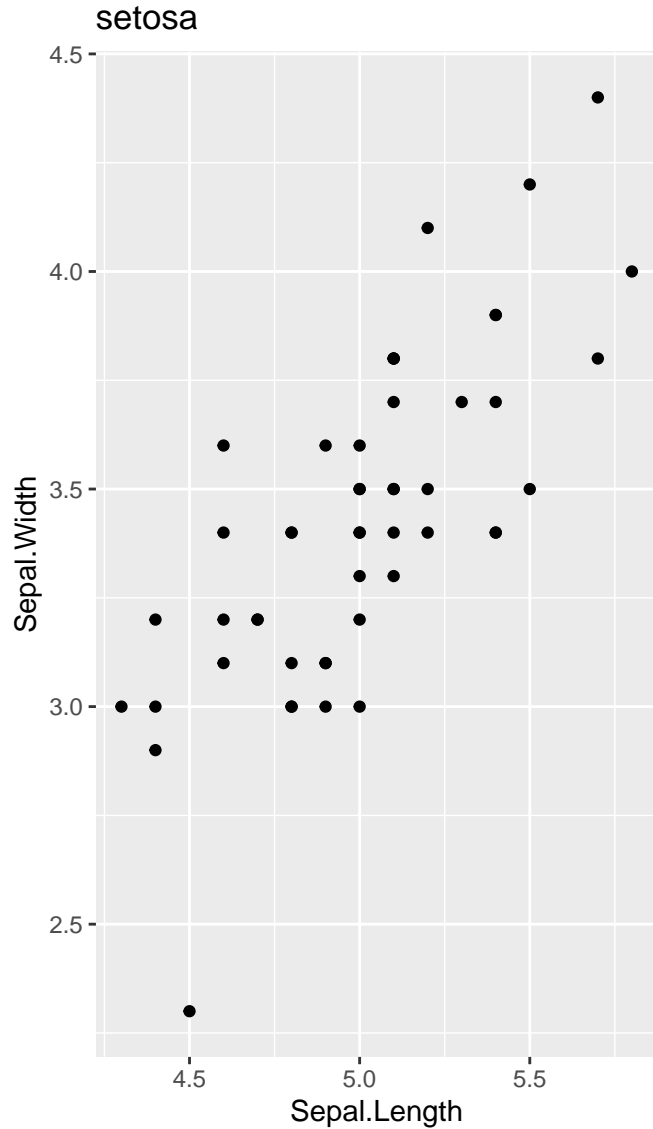


(b) versicolor



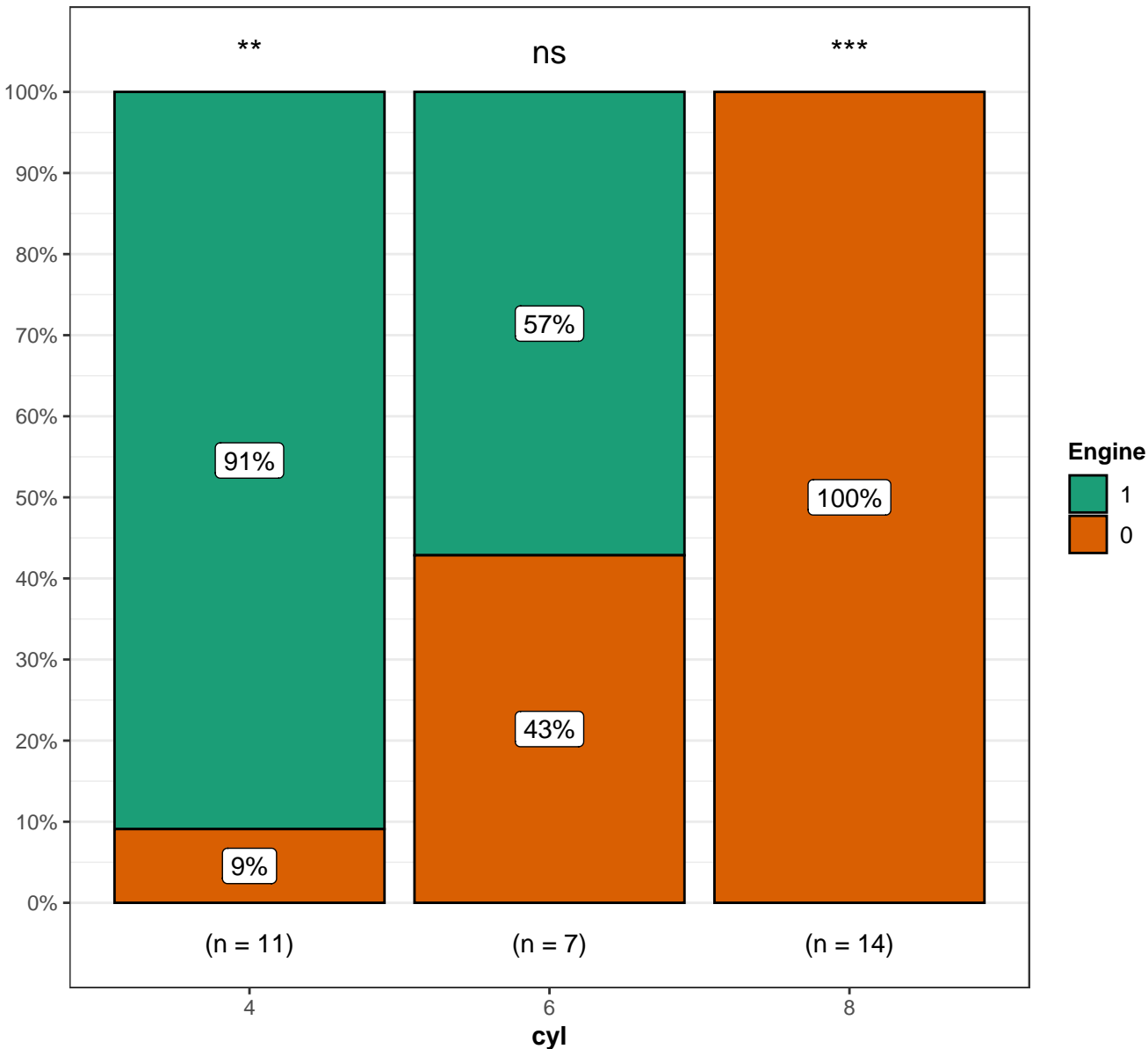
Note: Only two species of flower are displayed

Dataset: Iris Flower dataset



Note: Only two species of flower are displayed

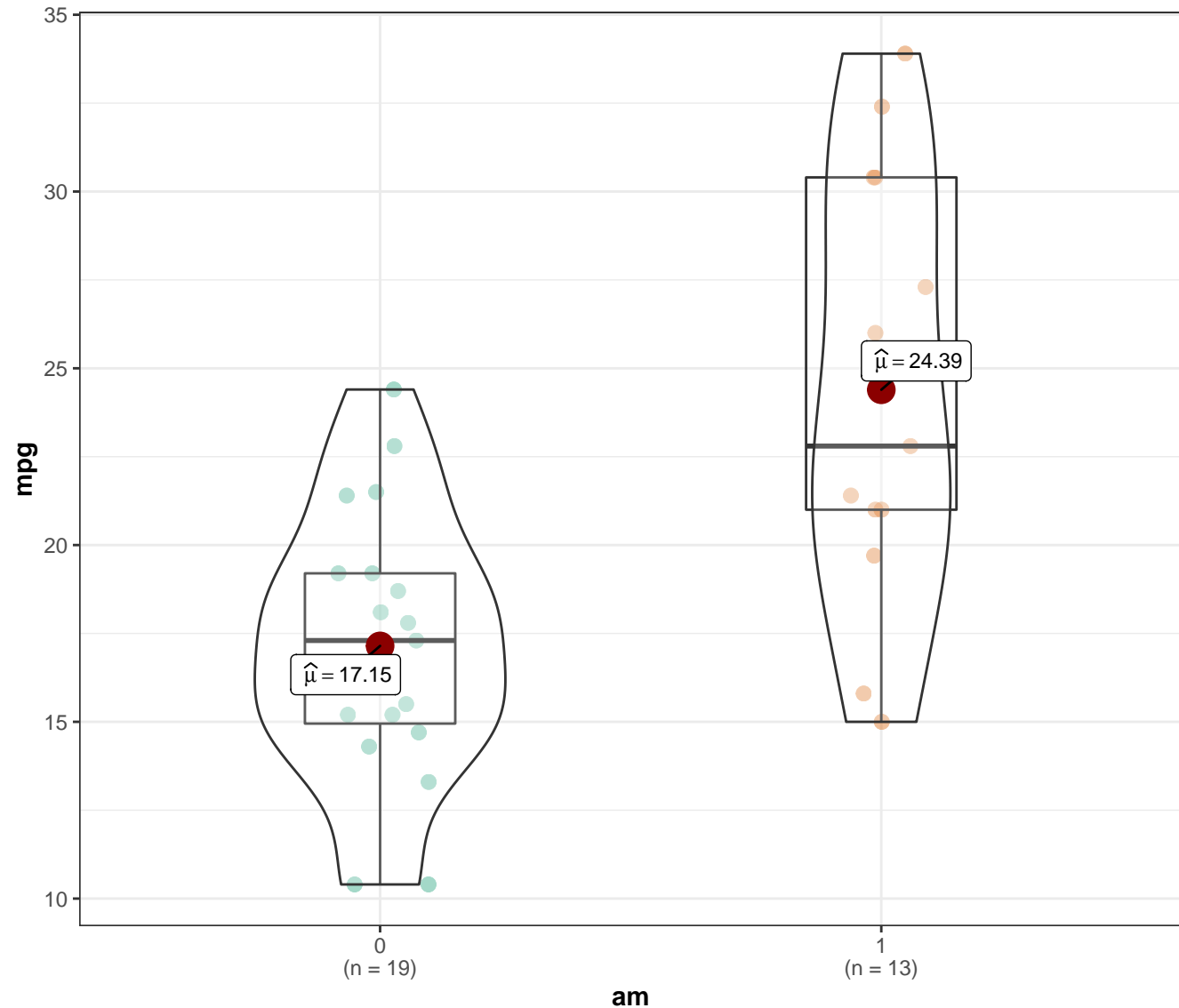
$\chi^2_{\text{Pearson}}(2) = 21.34, p = < 0.001, \hat{V}_{\text{Cramer}} = 0.79, \text{CI}_{95\%} [0.63, 0.84], n_{\text{obs}} = 32$



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

Fuel efficiency by type of car transmission

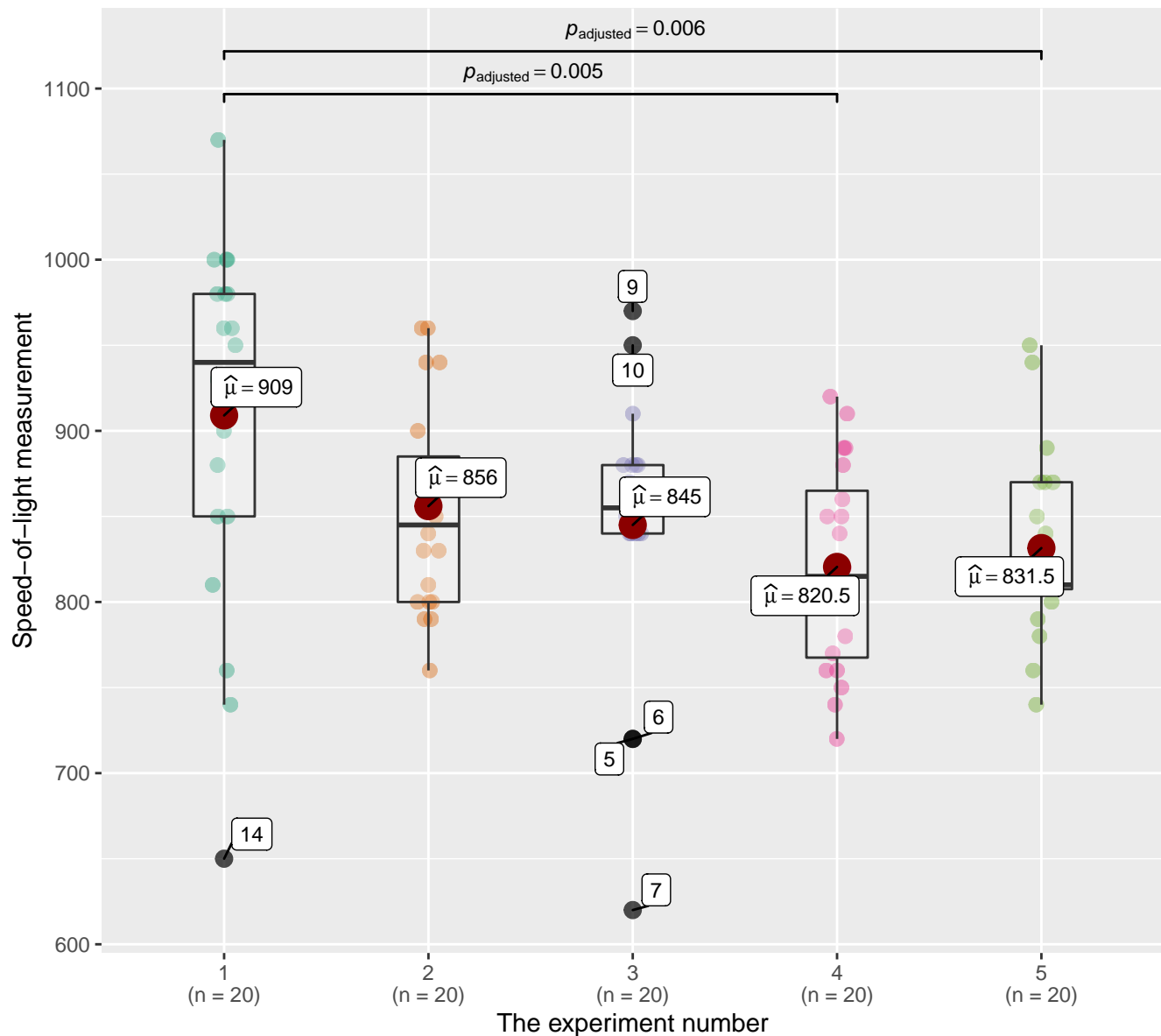
$t_{\text{Welch}}(18.33) = -3.77$, $p = 0.001$, $\hat{g}_{\text{Hedge}} = -1.38$, $\text{CI}_{95\%} [-2.08, -0.55]$, $n_{\text{obs}} = 32$

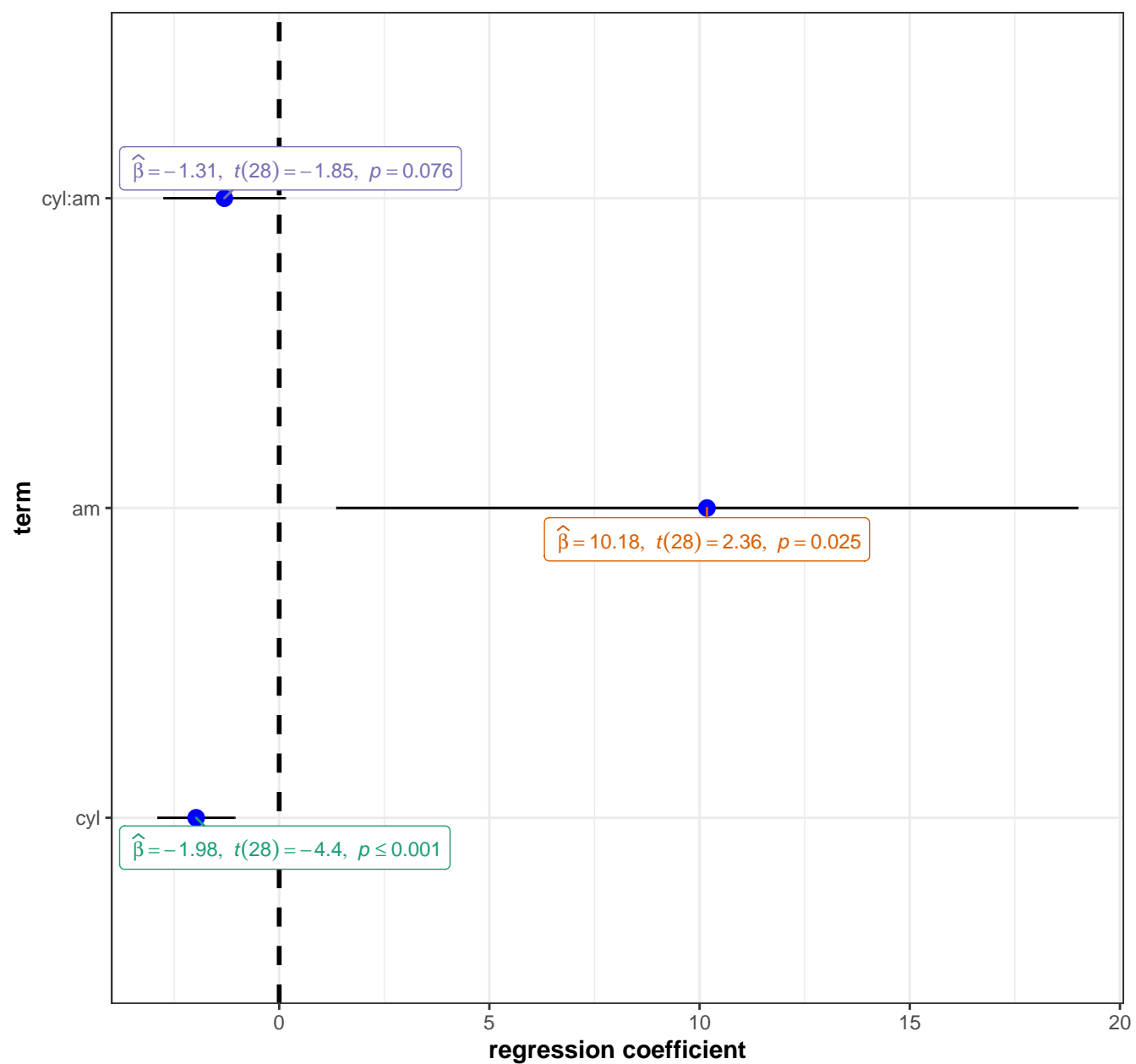


Transmission (0 = automatic, 1 = manual)

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

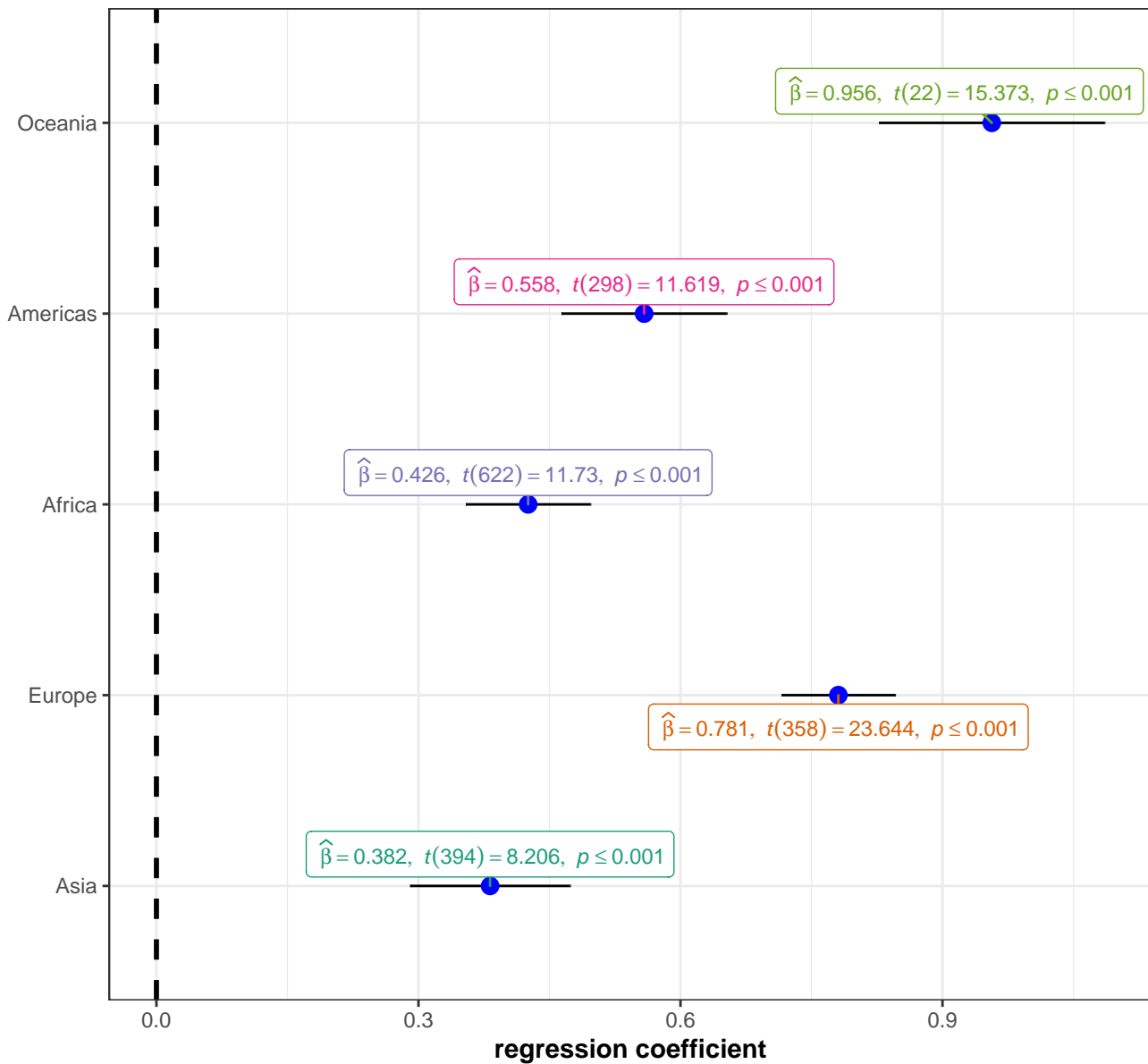
$\chi^2_{\text{Kruskal-Wallis}}(4) = 15.02, p = 0.005, \hat{\epsilon}^2 = 0.15, \text{CI}_{99\%} [0.03, 0.28], n_{\text{obs}} = 100$



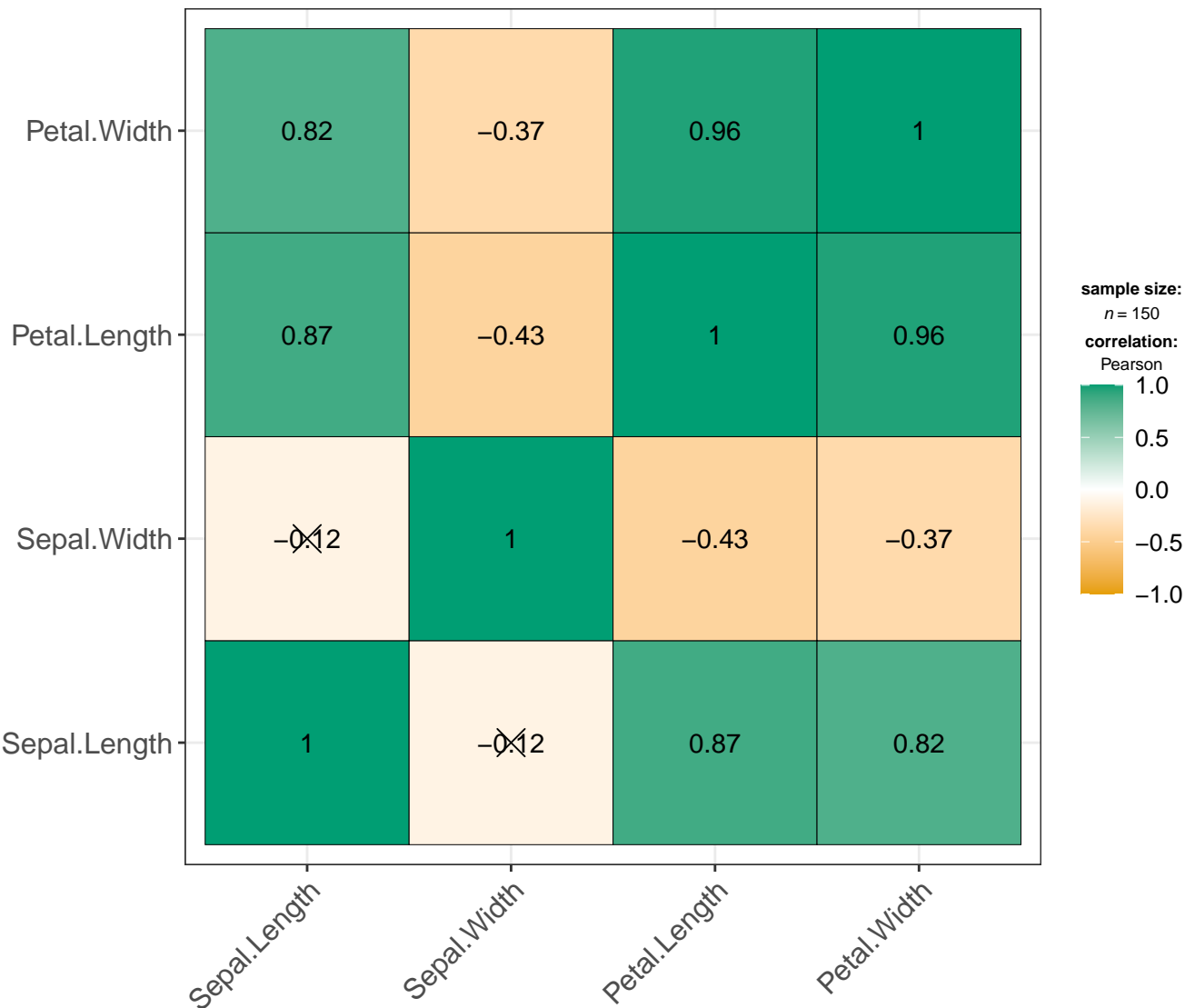


Summary effect: $z = 5.736$, $p < 0.001$, $\hat{\beta} = 0.619$, $CI_{95\%} [0.407, 0.830]$, $n_{\text{effects}} = 5$

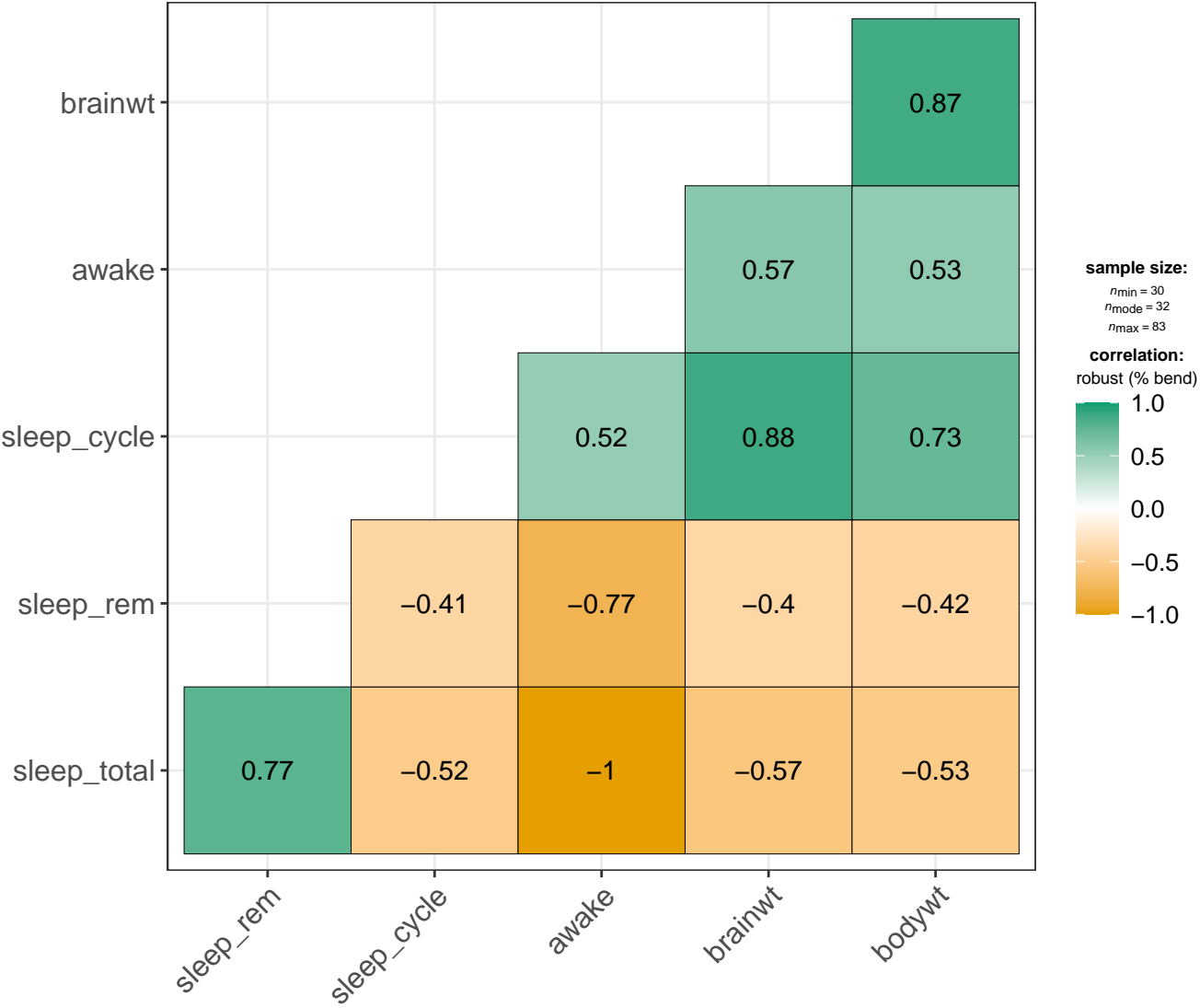
term



In favor of null: $\log_e(BF_{01}) = -3.341$, $d_{\text{mean}}^{\text{posterior}} = 0.520$, $CI_{95\%} [0.234, 0.759]$



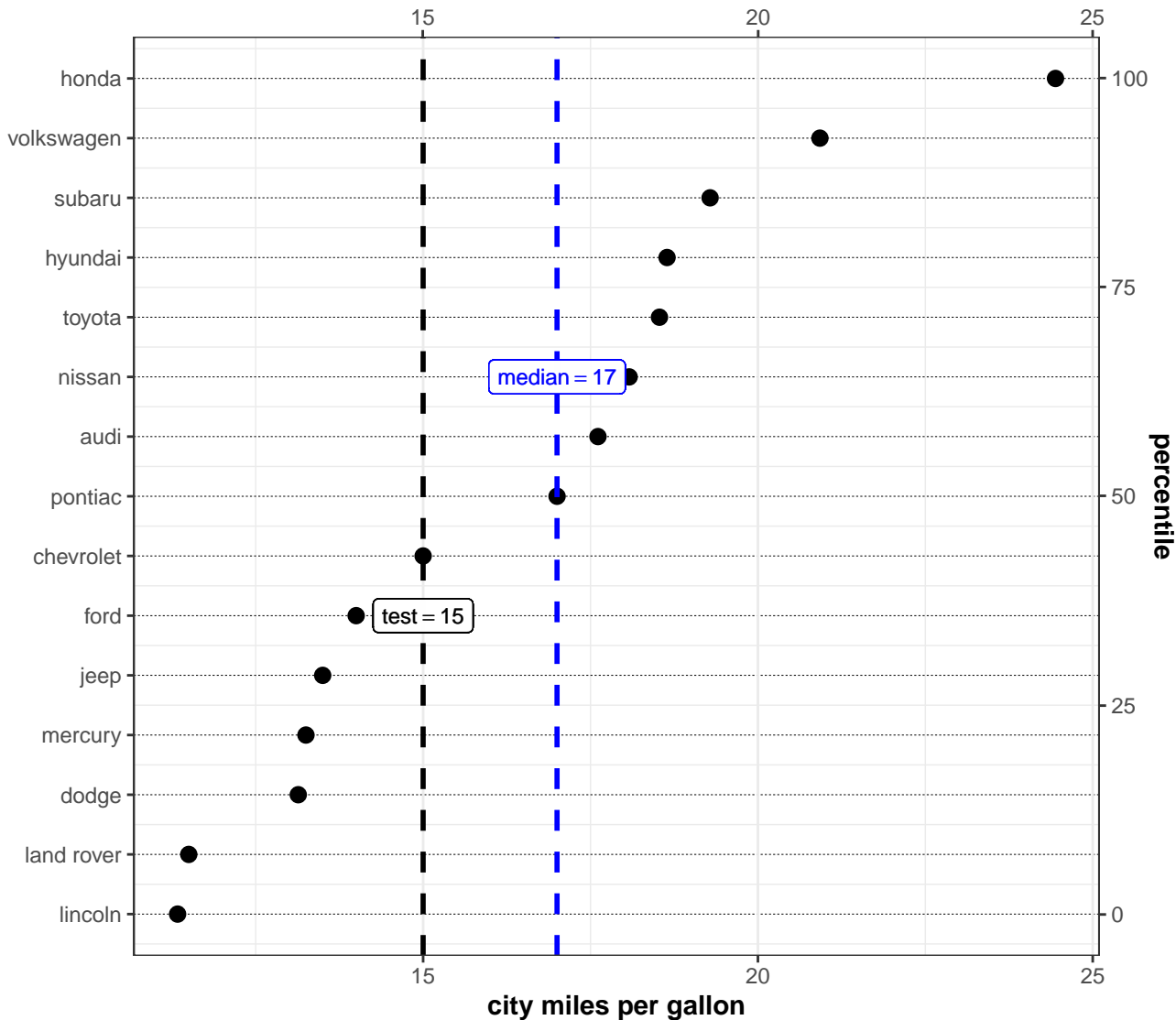
X = non-significant at $p < 0.05$ (Adjustment: None)



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

Fuel economy data

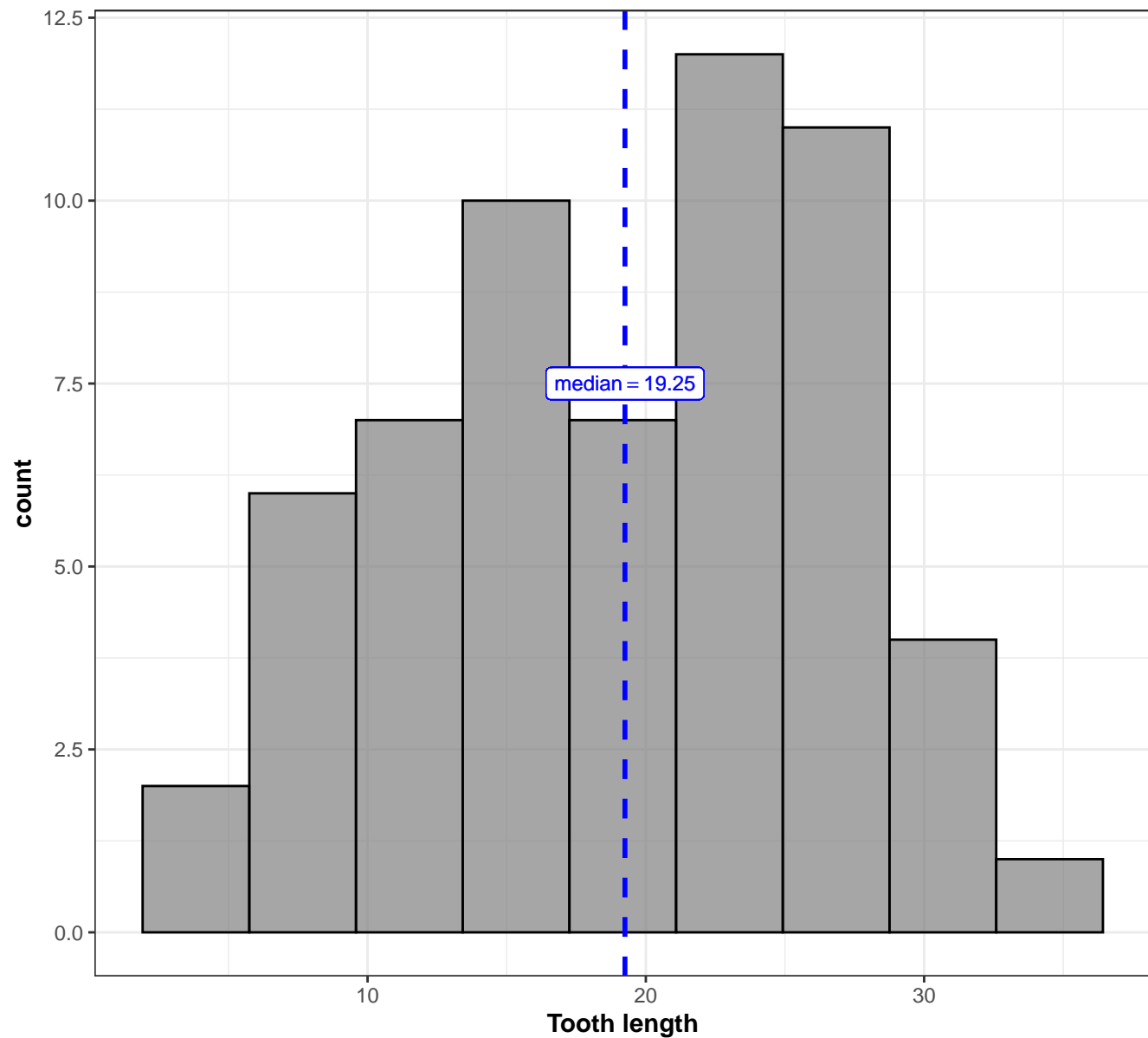
$t_{\text{Student}}(14) = 1.47$, $p = 0.163$, $\hat{g}_{\text{Hedge}} = 0.36$, $\text{CI}_{99\%} [-0.31, 1.04]$, $n_{\text{obs}} = 15$



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

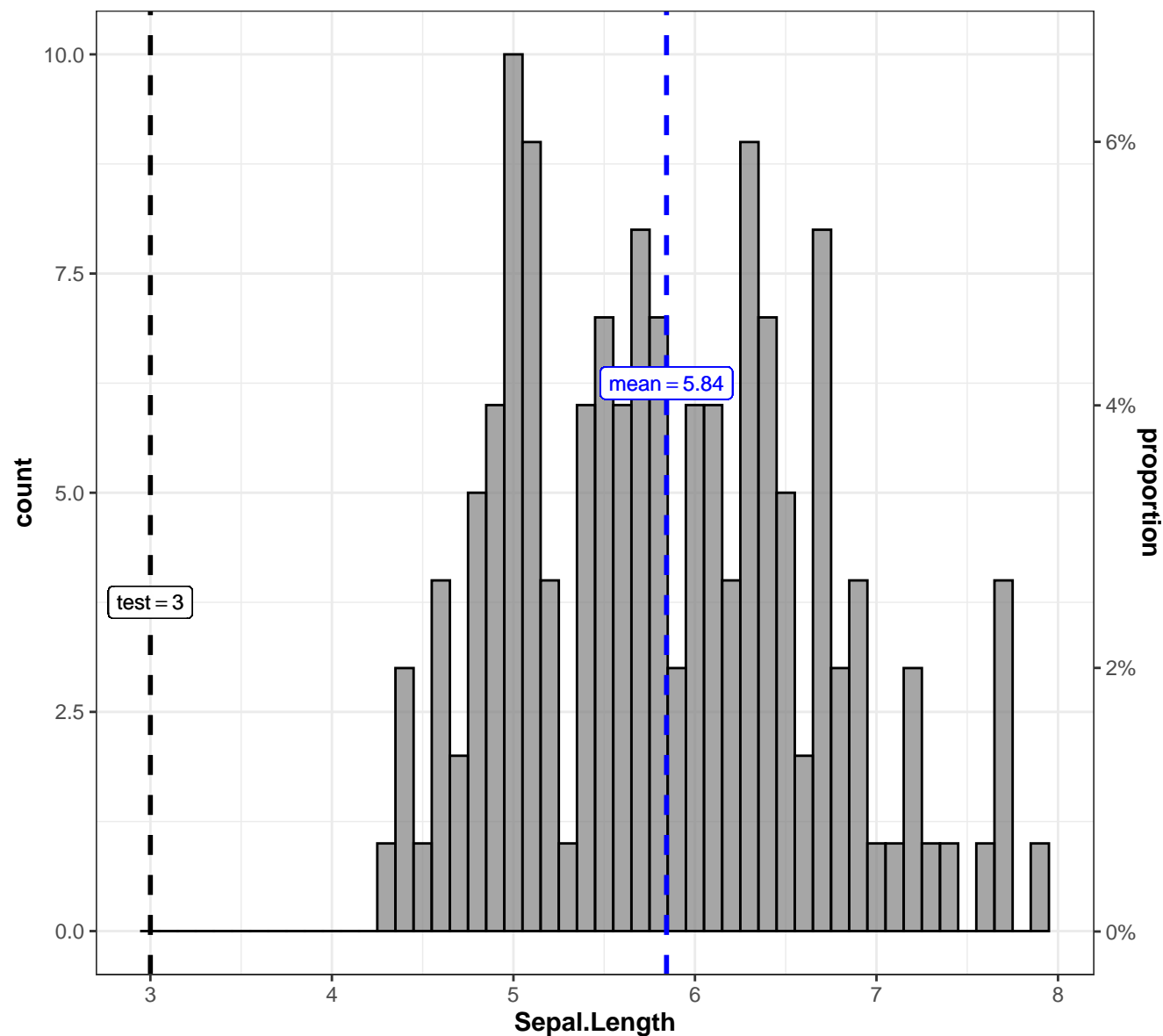
In favor of null: $\log_e(\text{BF}_{01}) = 0.44$, $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

$t_{\text{Student}}(59) = 19.05$, $p = < 0.001$, $\hat{g}_{\text{Hedge}} = 2.43$, $\text{CI}_{95\%} [1.94, 2.95]$, $n_{\text{obs}} = 60$



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

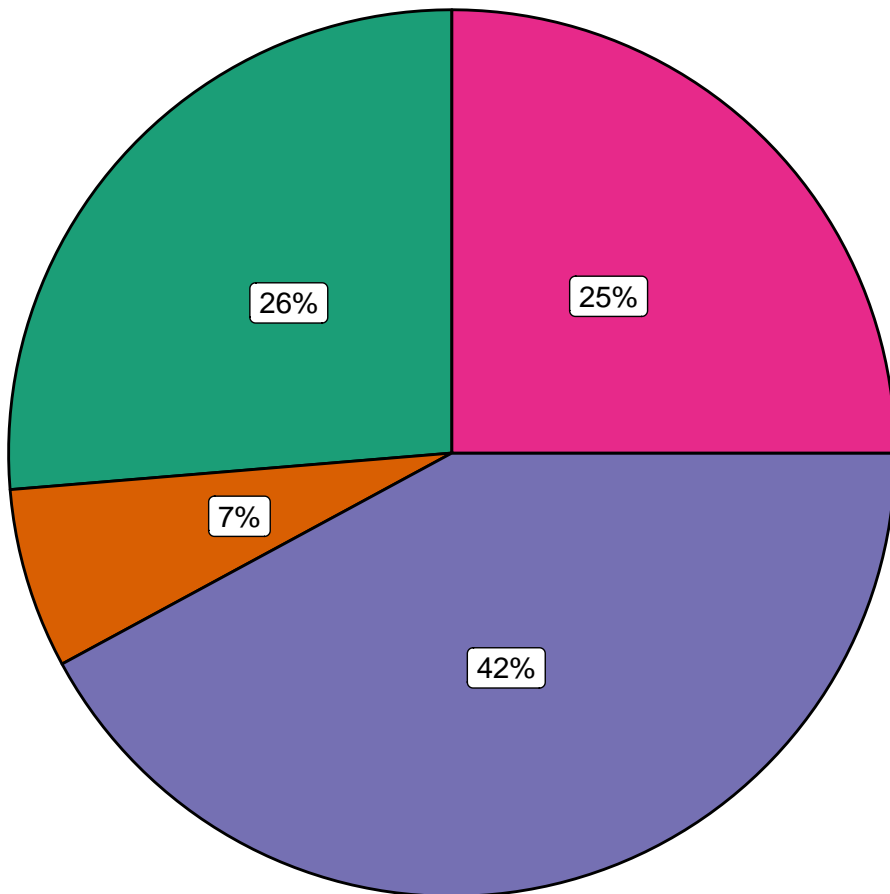
$t_{\text{Student}}(149) = 42.05$, $p = < 0.001$, $\hat{g}_{\text{Hedge}} = 3.42$, $\text{CI}_{95\%} [3.01, 3.84]$, $n_{\text{obs}} = 150$



Note: Iris dataset by Fisher.

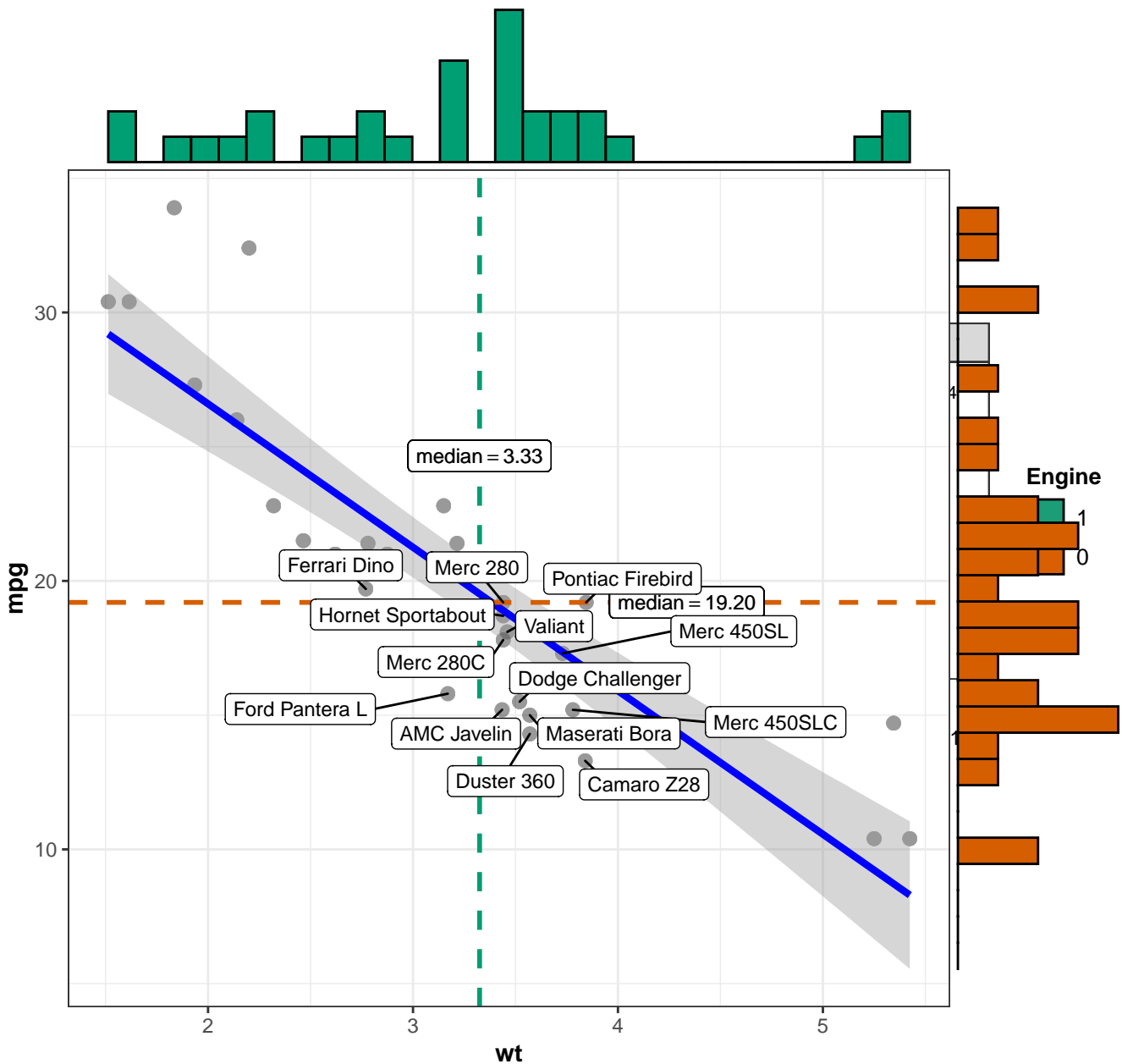
In favor of null: $\log_e(\text{BF}_{01}) = -186.14$, $r_{\text{Cauchy}}^{\text{JZS}} = 0.80$

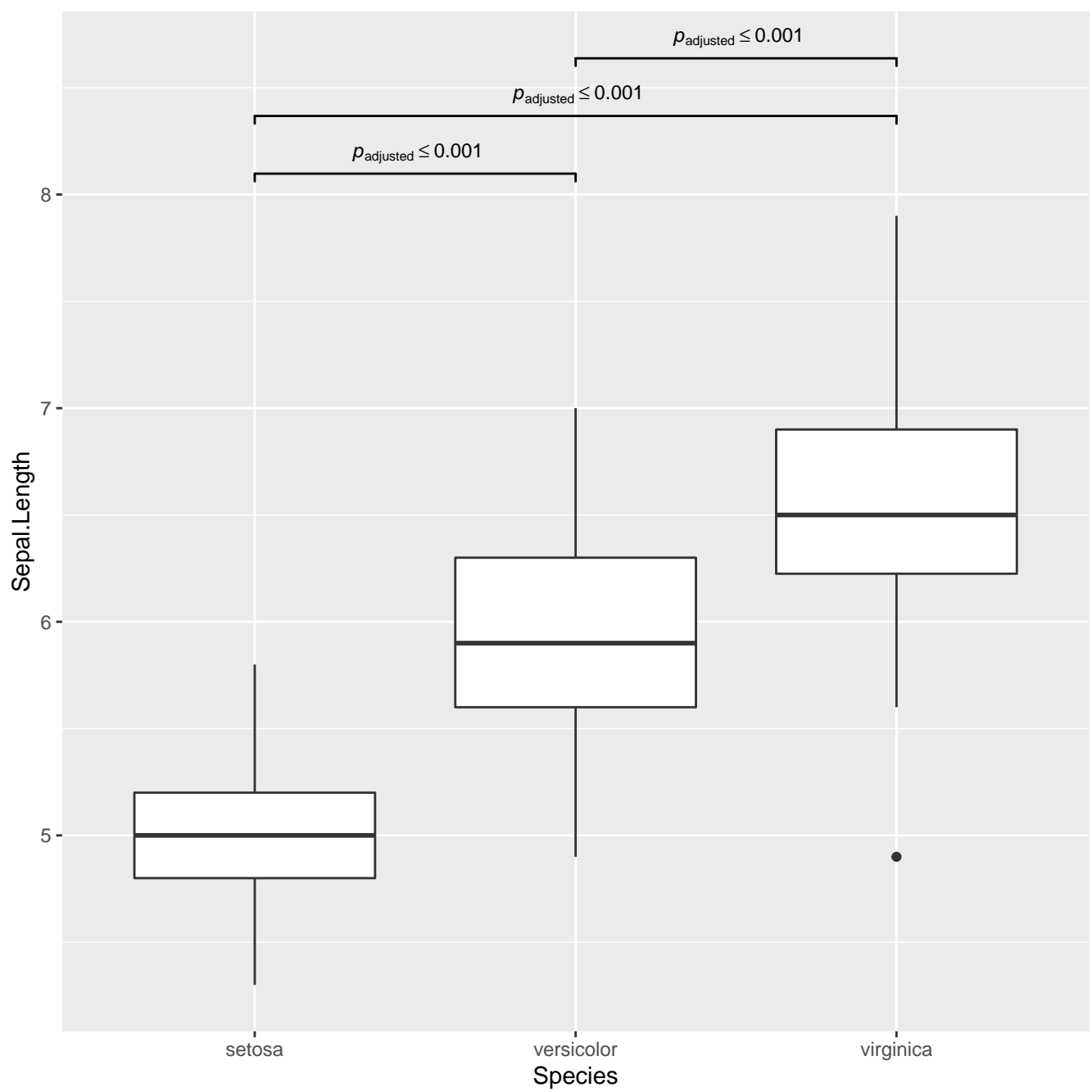
$\chi^2_{\text{gof}}(3) = 19.26, p = < 0.001, \hat{V}_{\text{Cramer}} = 0.29, \text{CI}_{95\%} [0.18, 0.37], n_{\text{obs}} = 76$



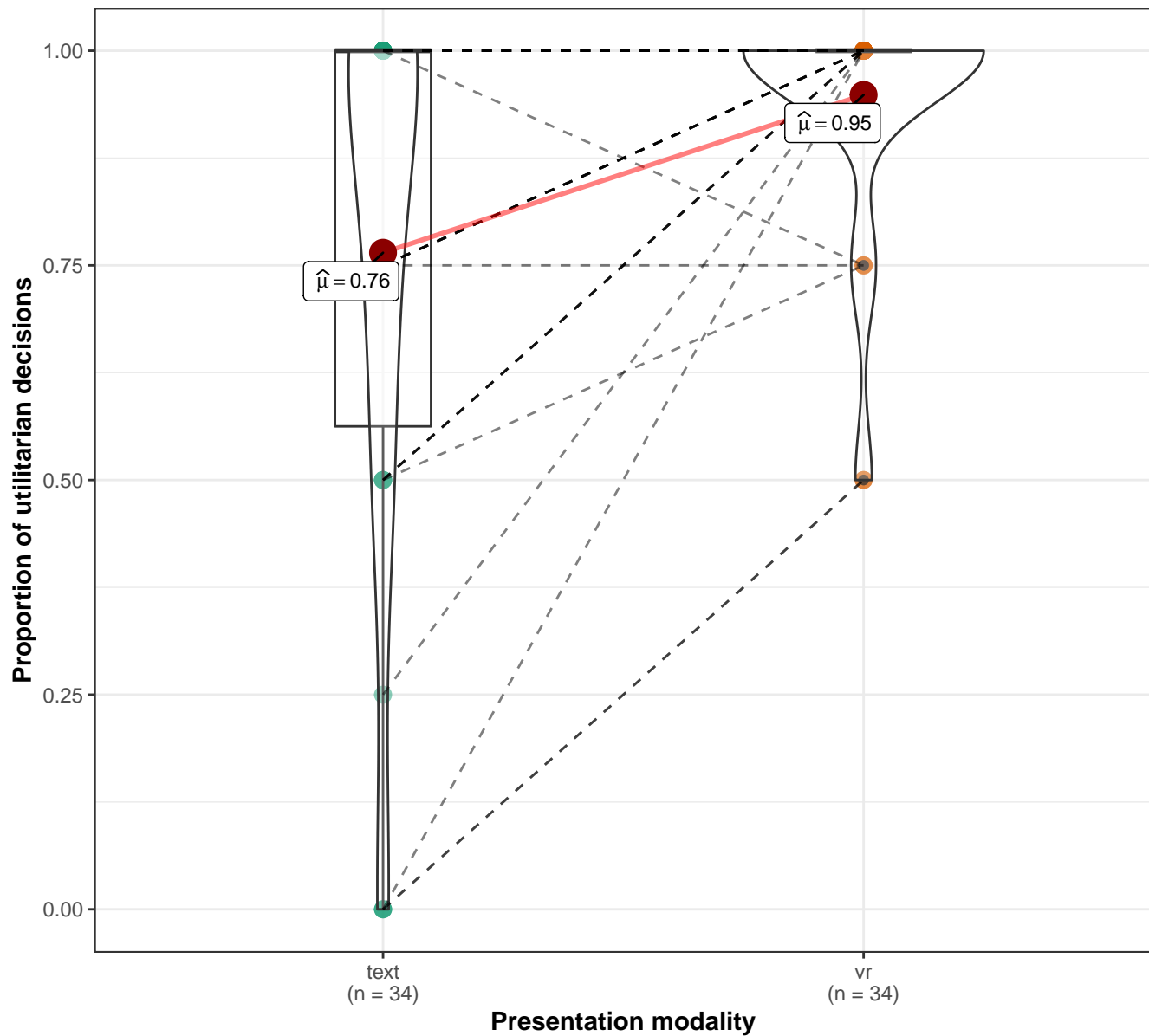
In favor of null: $\log_e(\text{BF}_{01}) = -3.73, a = 1.00$

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





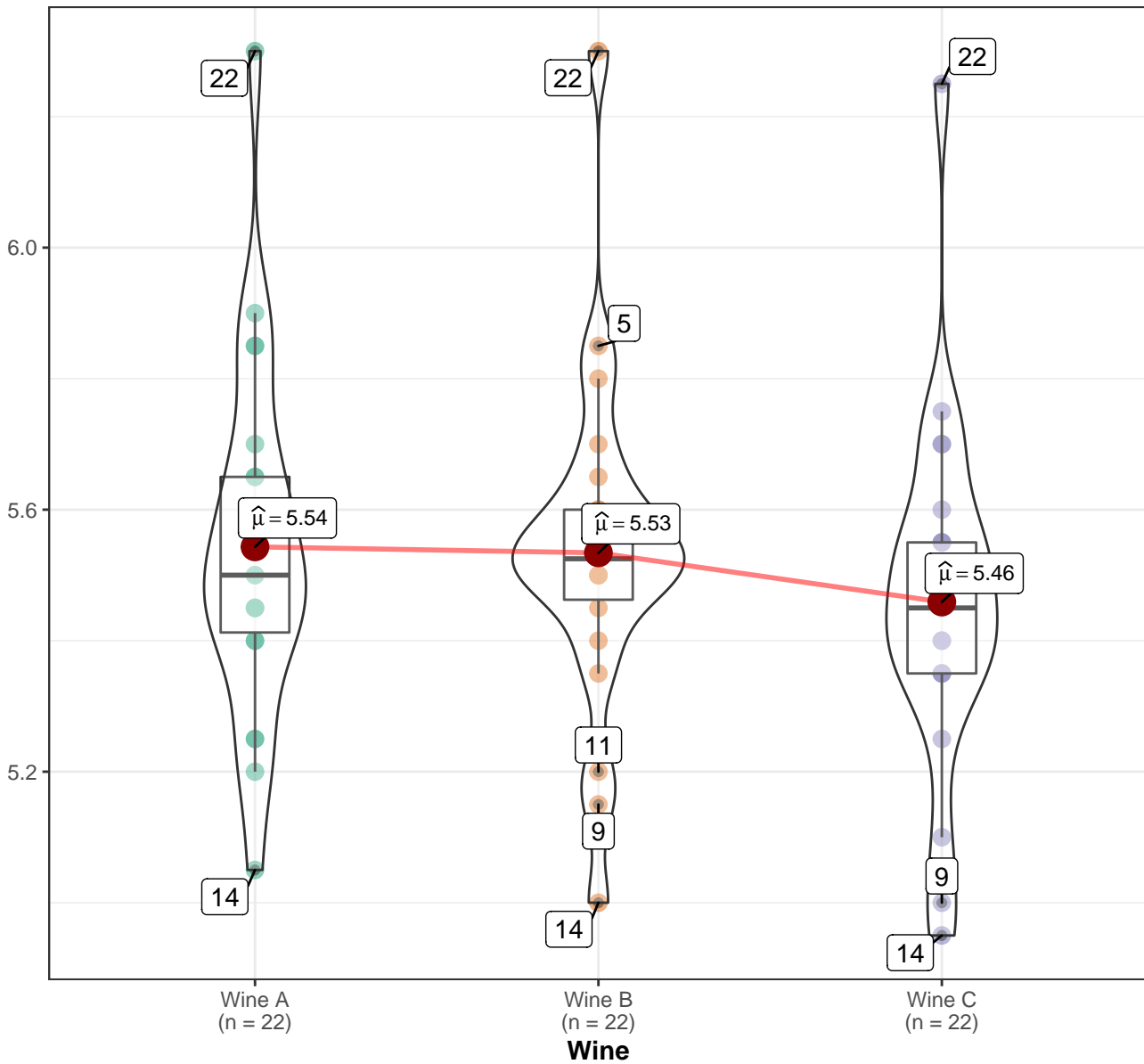
$t_{\text{Student}}(33) = -3.96$, $p = < 0.001$, $\hat{g}_{\text{Hedge}} = -0.66$, $\text{CI}_{95\%} [-1.04, -0.30]$, $n_{\text{pairs}} = 34$



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

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

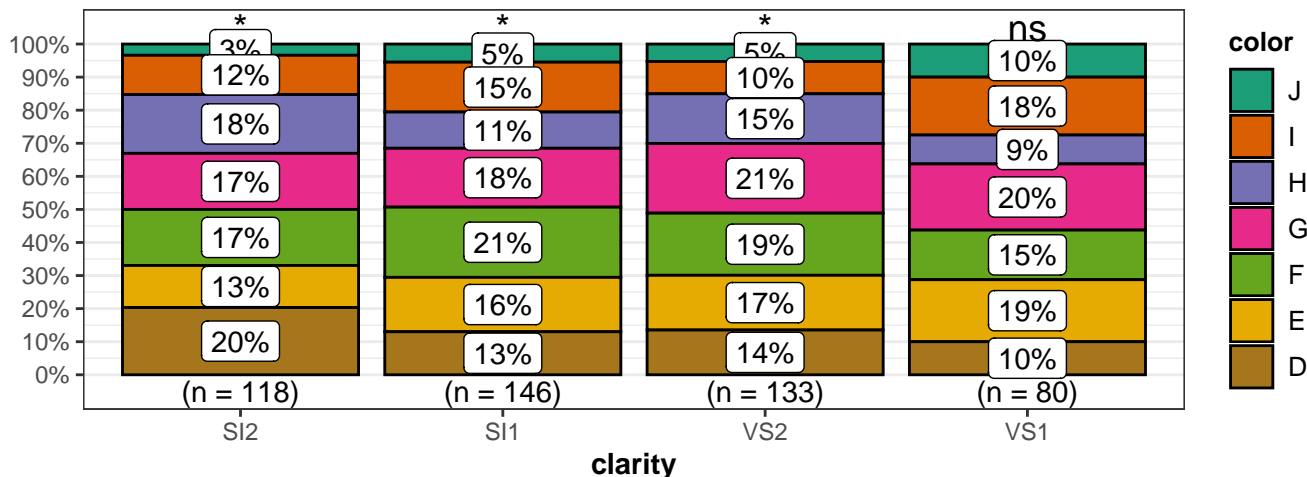
Taste



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

Quality: Very Good

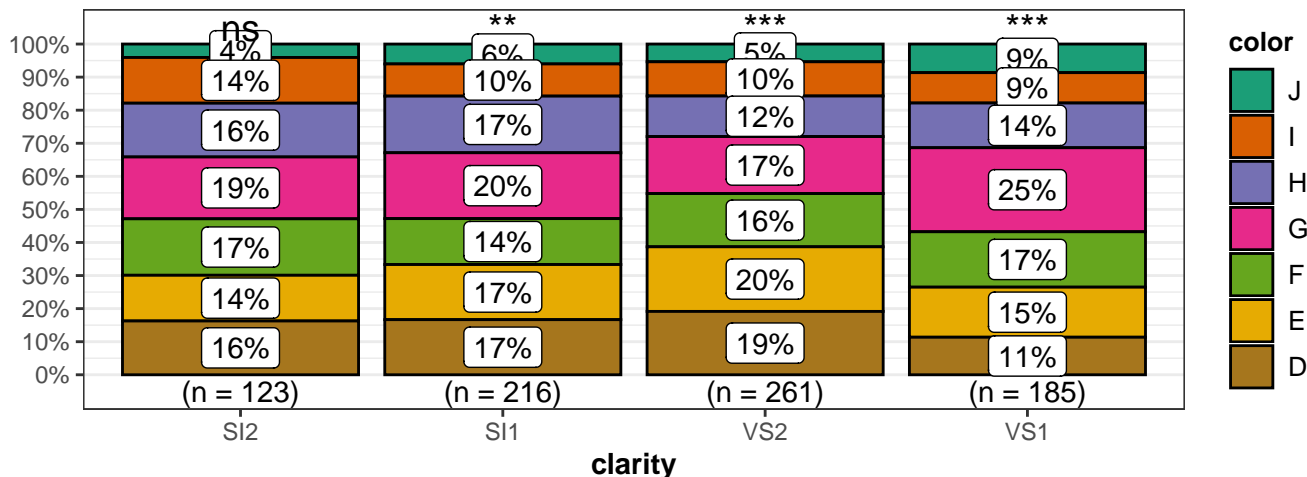
$\chi^2_{\text{Pearson}}(18) = 17.95$, $p = 0.459$, $\hat{V}_{\text{Cramer}} = 0.00$, $\text{CI}_{95\%} [-0.18, -0.04]$, $n_{\text{obs}} = 477$



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

Quality: Ideal

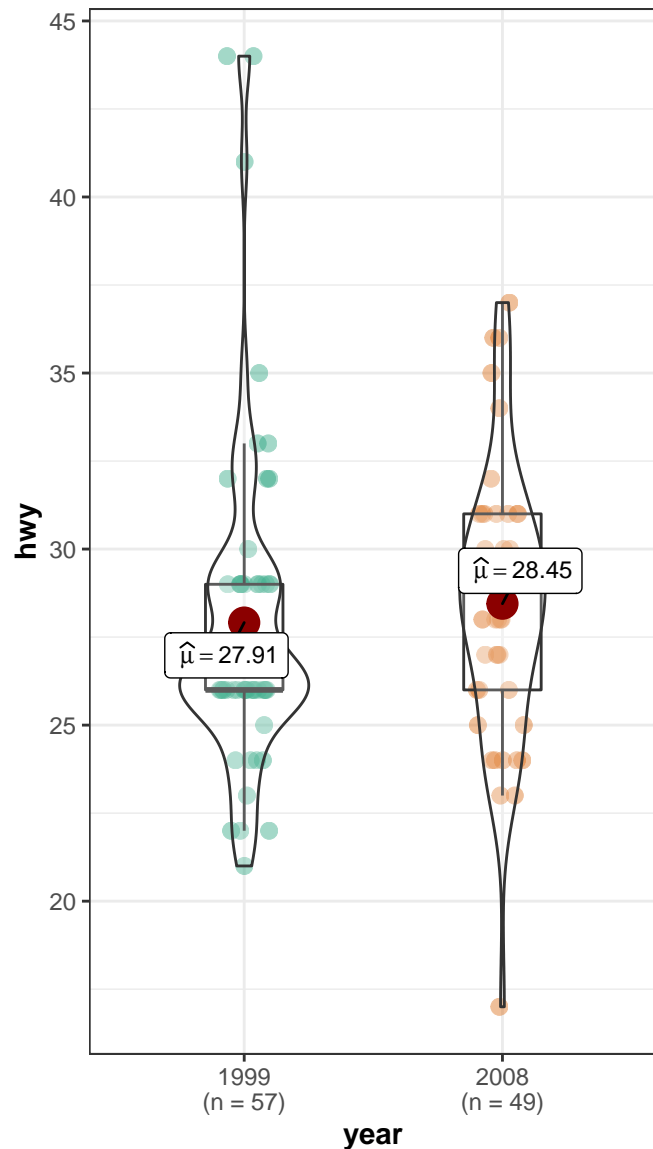
$\chi^2_{\text{Pearson}}(18) = 17.85$, $p = 0.466$, $\hat{V}_{\text{Cramer}} = 0.00$, $\text{CI}_{95\%} [-0.14, -0.03]$, $n_{\text{obs}} = 785$



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

drv: f

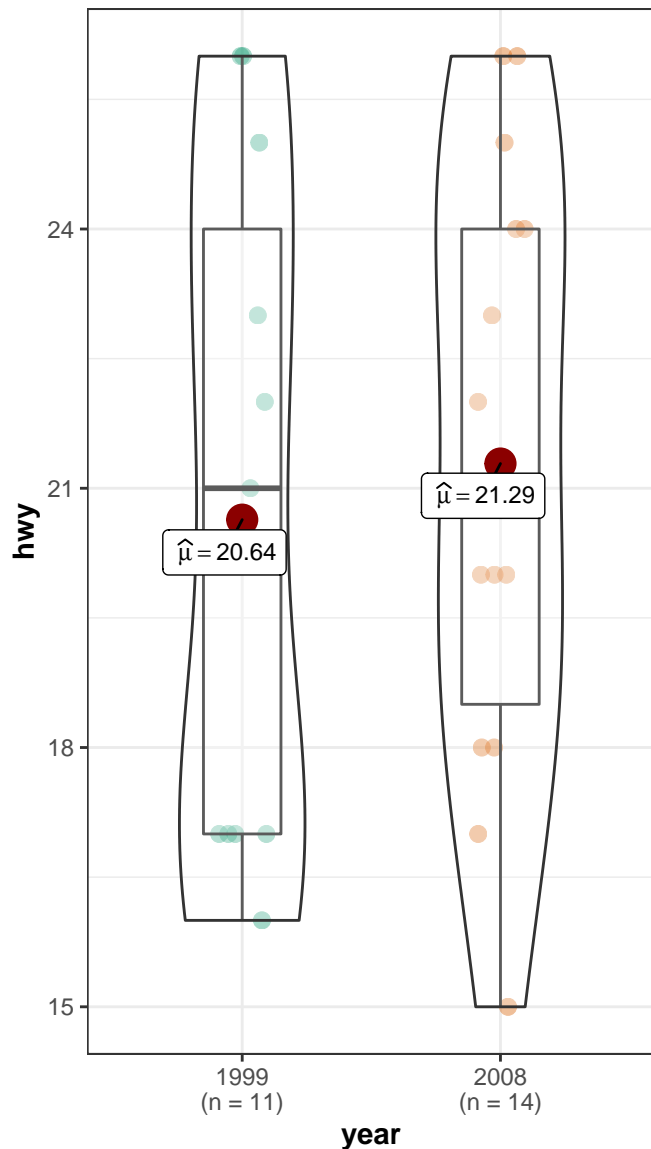
$t_{\text{Welch}}(103.71) = -0.66$, $p = 0.509$, $\hat{g}_{\text{Hedge}} = -0.13$,



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

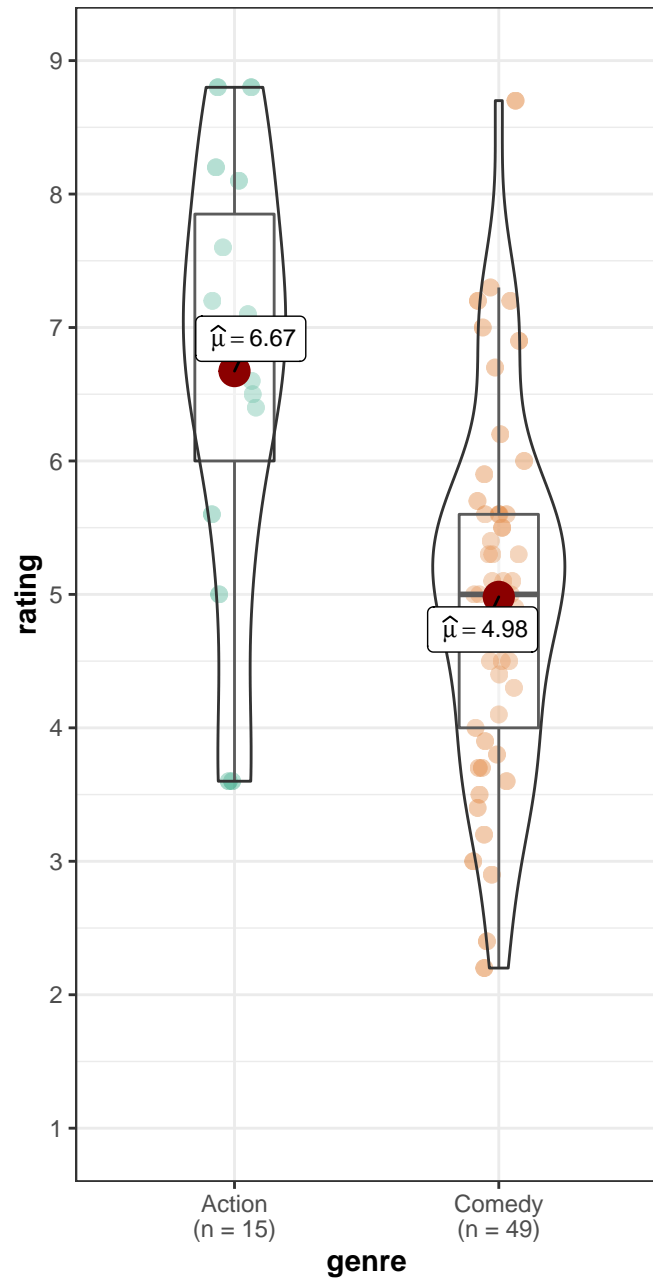
drv: r

$t_{\text{Welch}}(20.19) = -0.43$, $p = 0.675$, $\hat{g}_{\text{Hedge}} = -0.17$, C

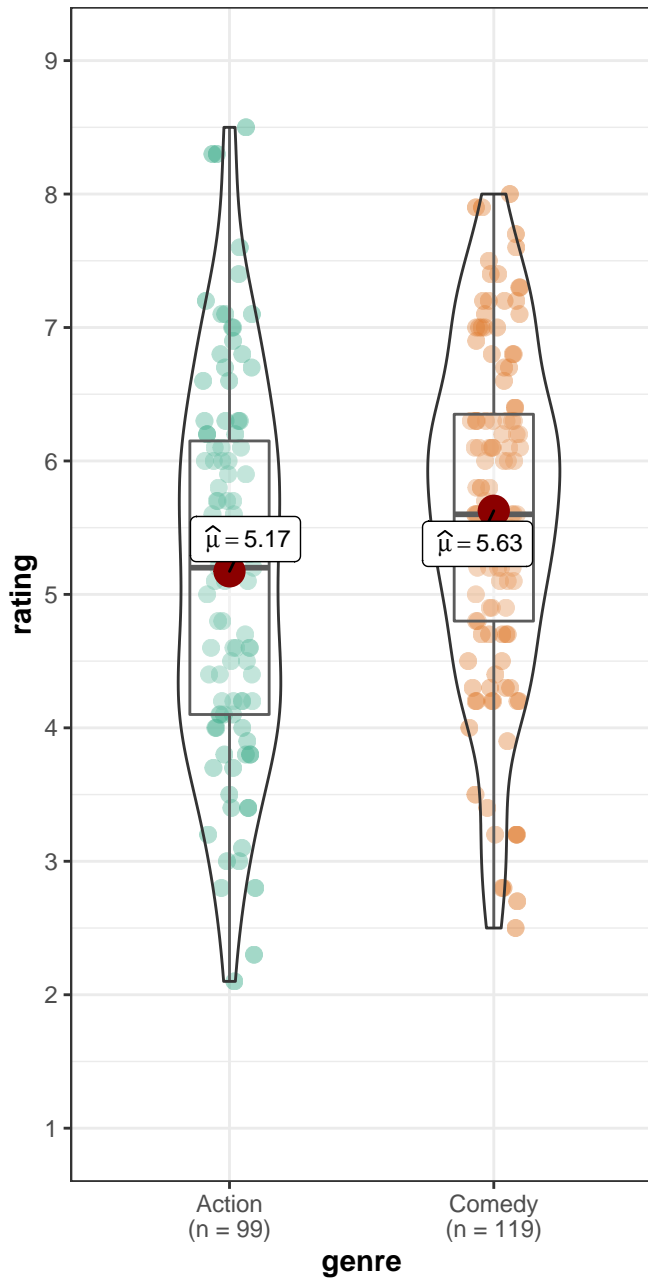


In favor of null: $\log_e(\text{BF}_{01}) = 0.93$, $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

mpaa: PG




mpaa: R



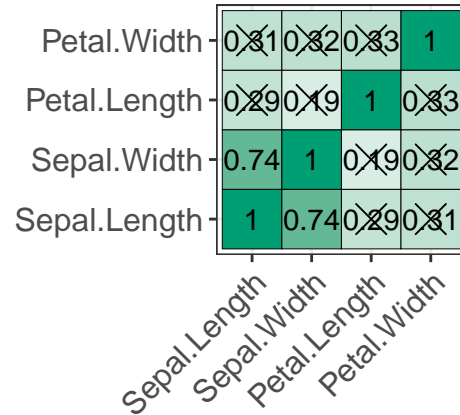
Species: setosa

sample size:
 $n = 50$

correlation:
robust (% bend)



1.0
0.5
0.0
-0.5
-1.0




n-significant at $p < 0.05$ (Adjustment: Holm)

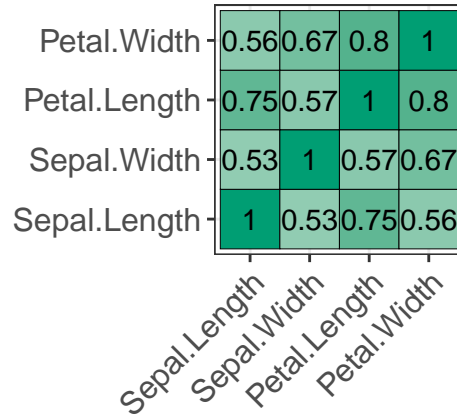
Species: versicolor

sample size:
 $n = 50$

correlation:
robust (% bend)



1.0
0.5
0.0
-0.5
-1.0




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

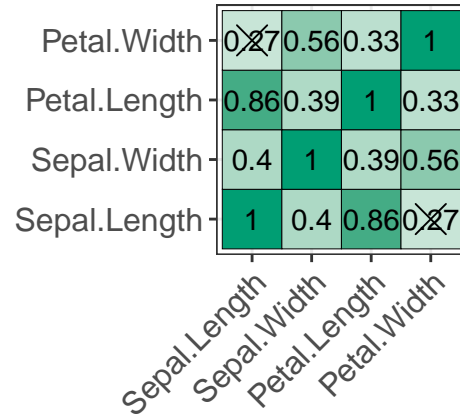
Species: virginica

sample size:
 $n = 50$

correlation:
robust (% bend)



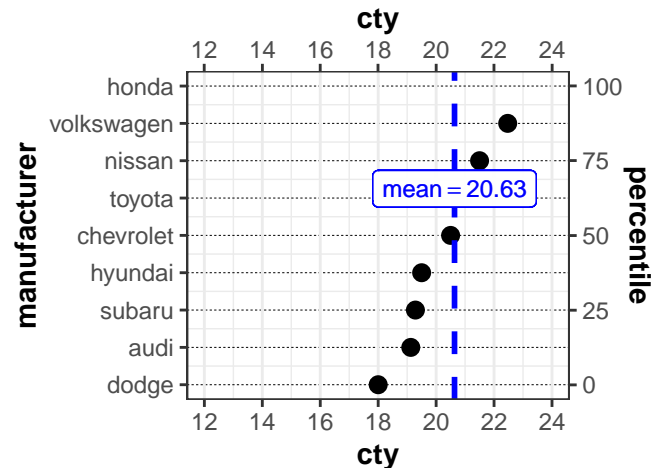
1.0
0.5
0.0
-0.5
-1.0



n-significant at $p < 0.05$ (Adjustment: Holm)

cylinder count: 4

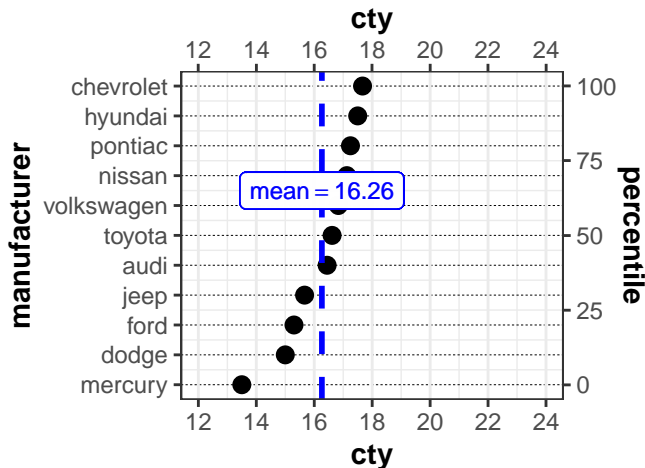
$$t_{\text{Student}}(8) = 7.82, p = < 0.001, \hat{g}_{\text{Hedge}} = 2.1$$



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

cylinder count: 6

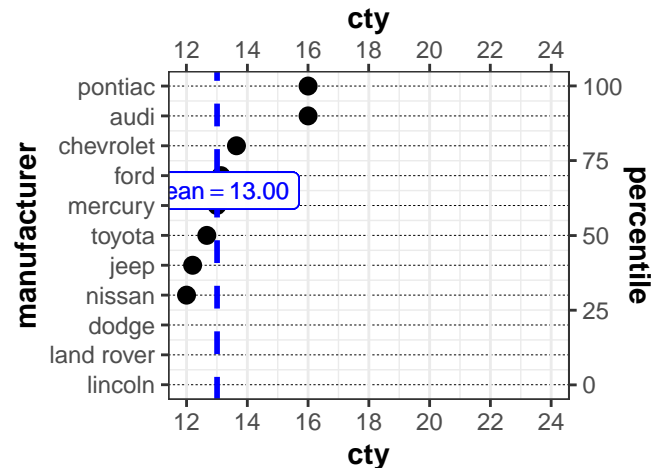
$$t_{\text{Student}}(10) = 1.99, p = 0.075, \hat{g}_{\text{Hedge}} = 0.5$$



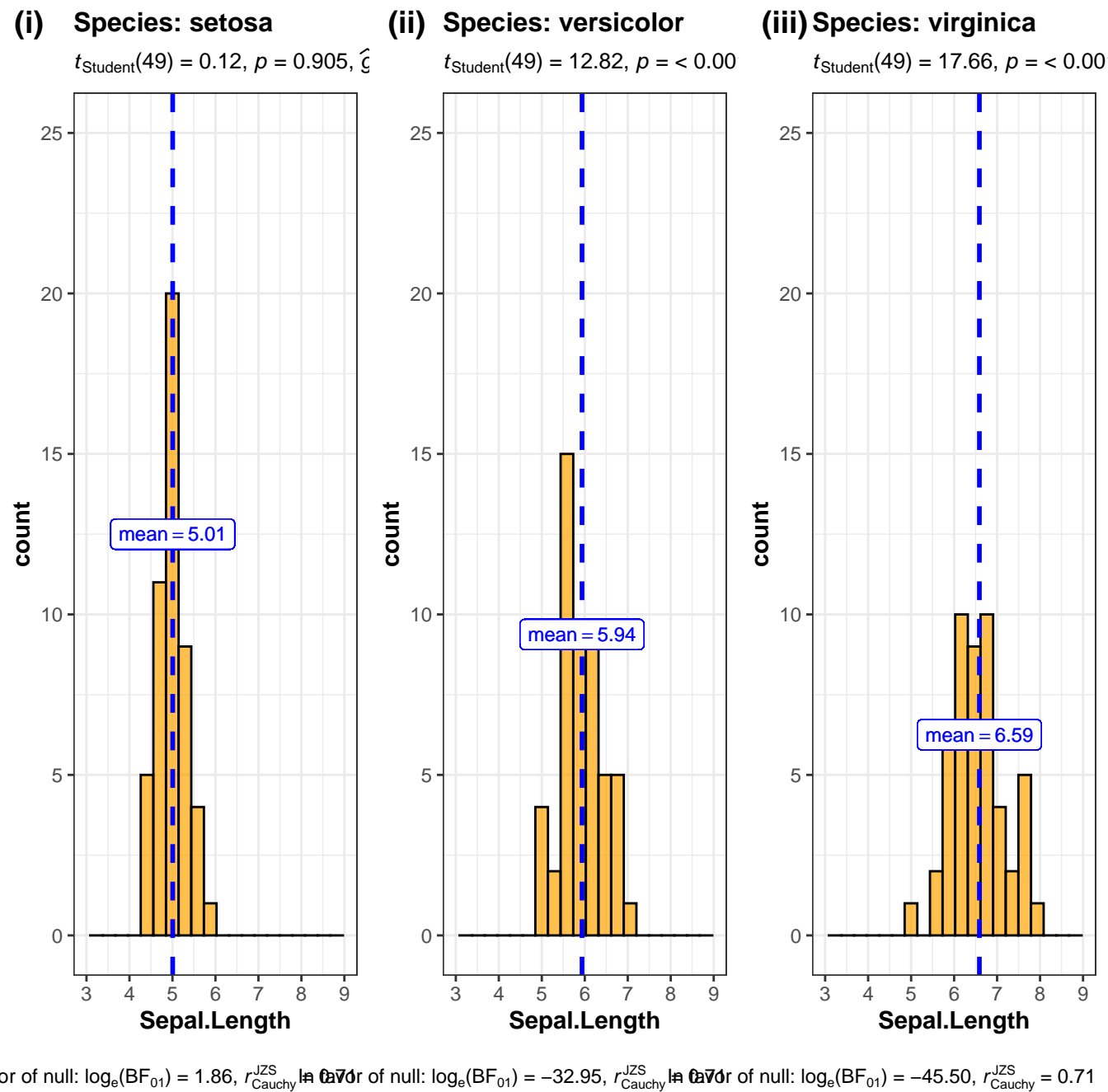
In favor of null: $\log_e(\text{BF}_{01}) = -0.23, r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

cylinder count: 8

$$t_{\text{Student}}(10) = -5.01, p = 0.001, \hat{g}_{\text{Hedge}} = -1.40, \text{CI}_{95\%} [-2.30, -0.60], n_{\text{obs}} = 11$$

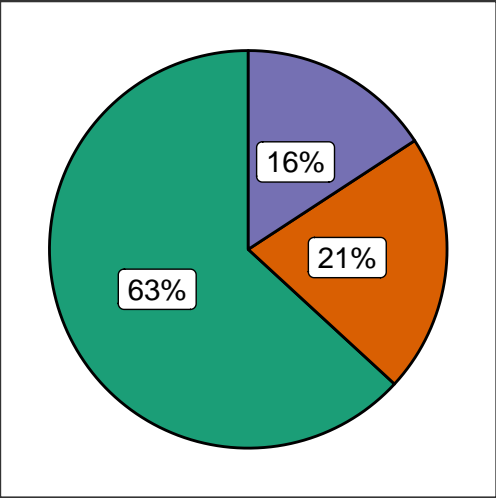


In favor of null: $\log_e(\text{BF}_{01}) = -4.24, r_{\text{Cauchy}}^{\text{JZS}} = 0.71$



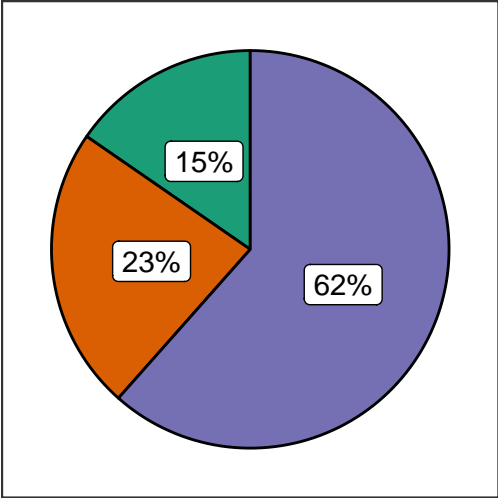
am: 0

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



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

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



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

Quality: Very Good

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



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

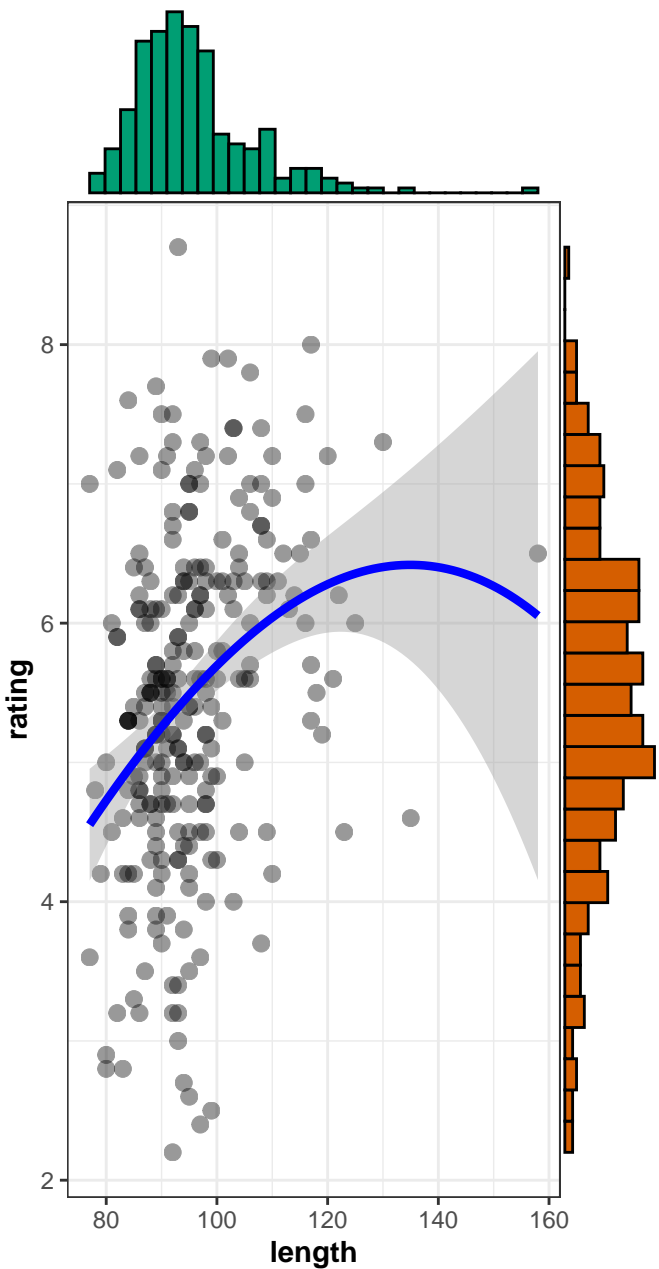
Quality: Ideal

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

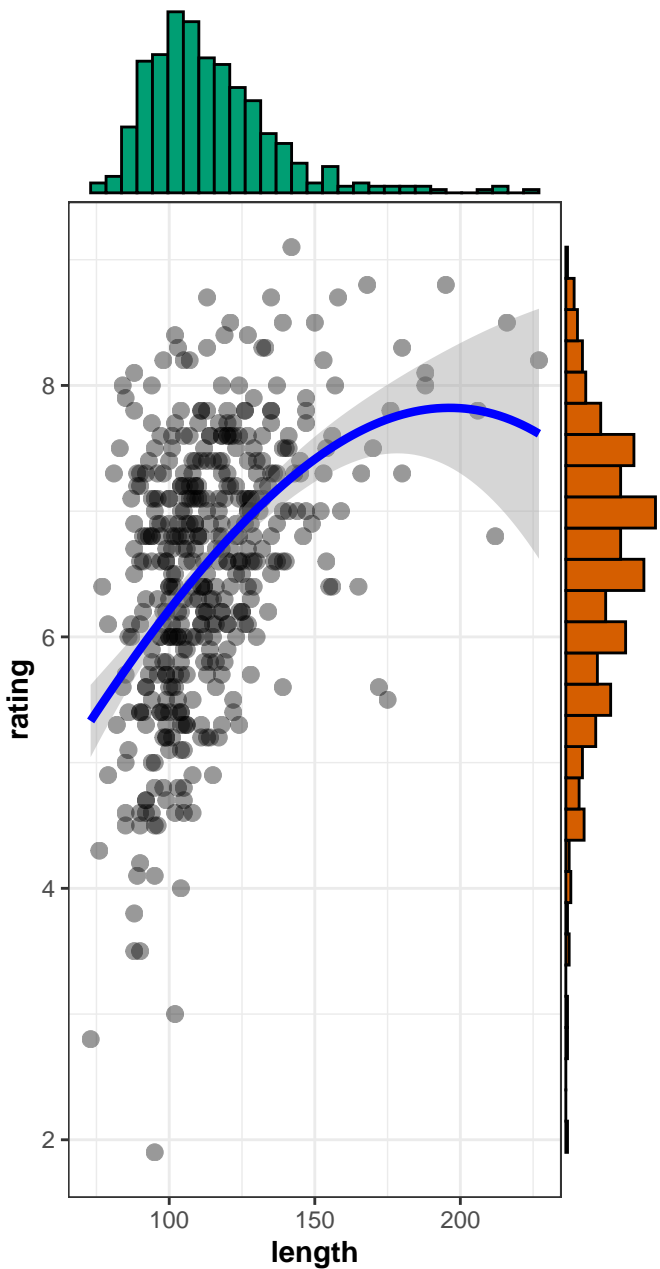


favor of null: $\log_e(\text{BF}_{01}) = -25.04$, sampling = poisson, $a = 1.00$

genre: Comedy

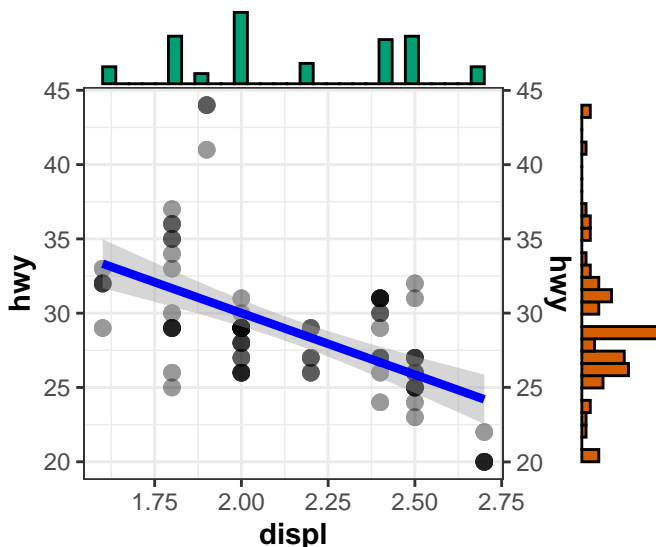


genre: Drama



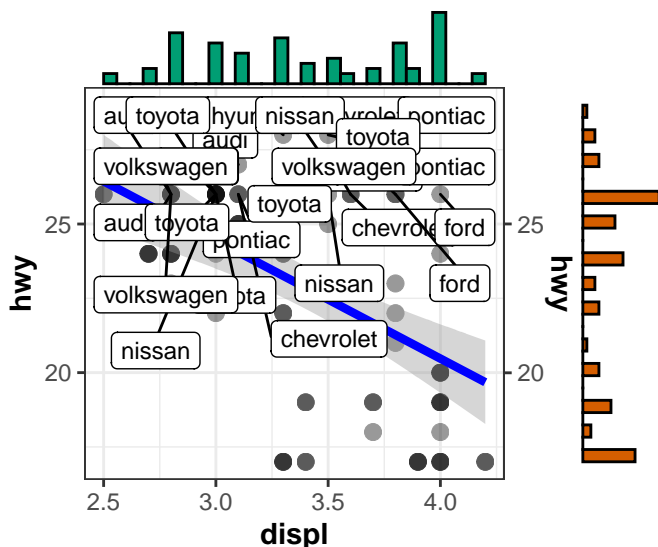
Cylinder count: 4

$t(79) = -6.93, p = < 0.001, \hat{\rho}_{pb} = -0$



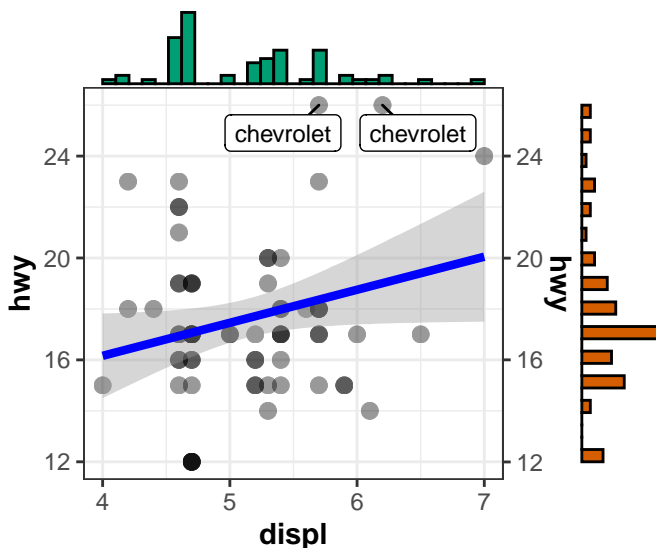
Cylinder count: 6

$t(77) = -5.13, p = < 0.001, \hat{\rho}_{pb} = -0$



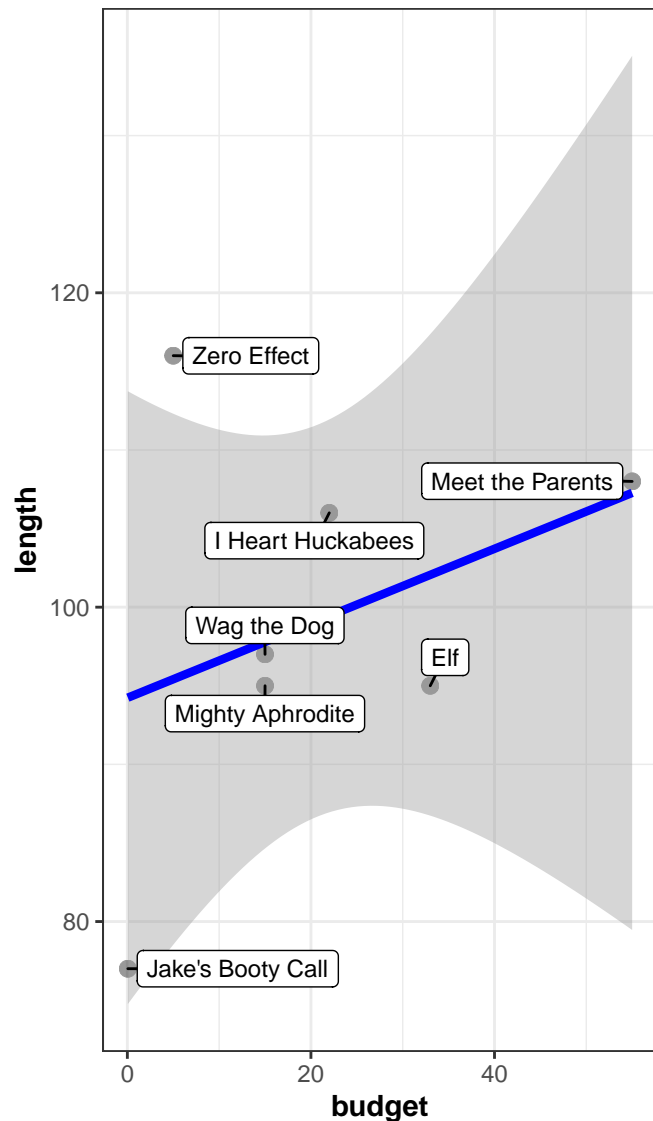
Cylinder count: 8

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



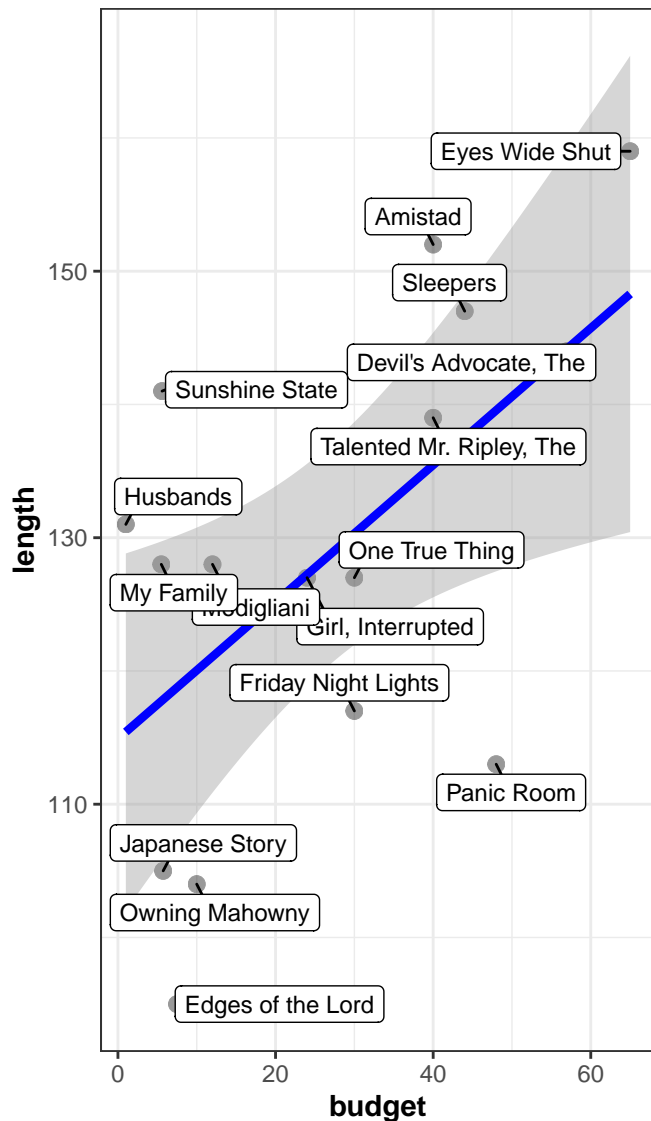
Genre: Comedy

$t(5) = 0.84$, $p = 0.439$, $\hat{r}_{\text{Pearson}} = 0.35$, $\text{CI}_{95\%} [-0.5, 0.7]$



Genre: Drama

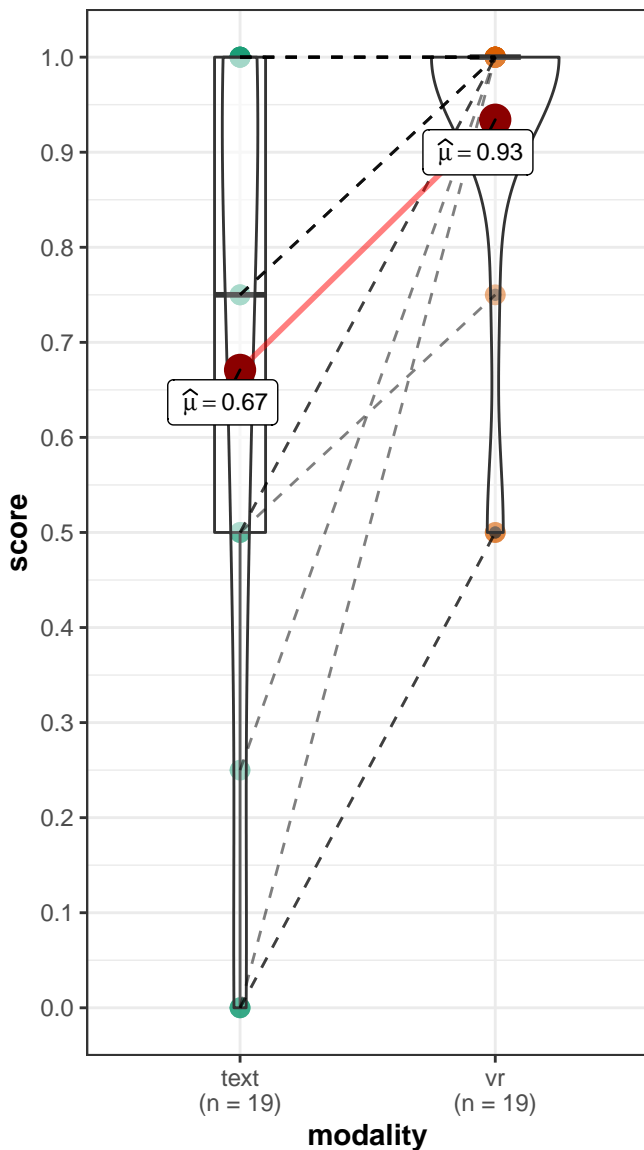
$t(14) = 2.67$, $p = 0.018$, $\hat{r}_{\text{Pearson}} = 0.58$, $\text{CI}_{95\%} [0.1, 0.9]$



All movies have IMDB rating equal to 7.

order: 0

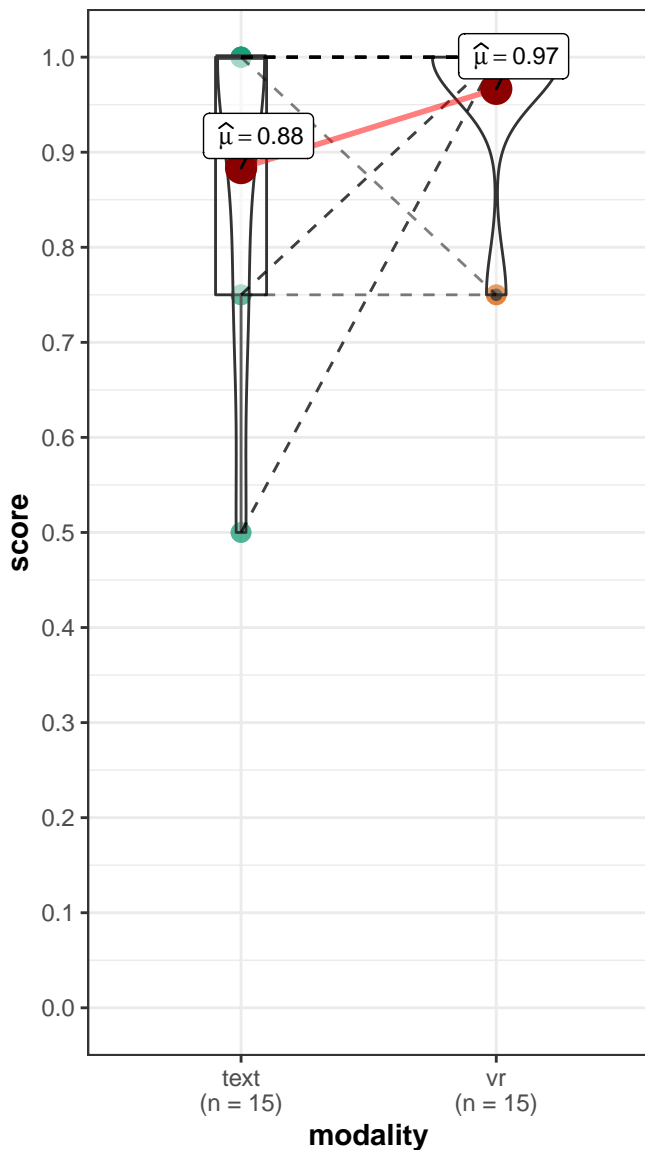
$t_{\text{Student}}(18) = -3.90, p = 0.001, \hat{g}_{\text{Hedge}} = -0.86, \text{CI}$



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

order: 1

$t_{\text{Student}}(14) = -1.58, p = 0.136, \hat{g}_{\text{Hedge}} = -0.39, \text{CI}$



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

