

Dataset: Iris Flower dataset

(a) setosa

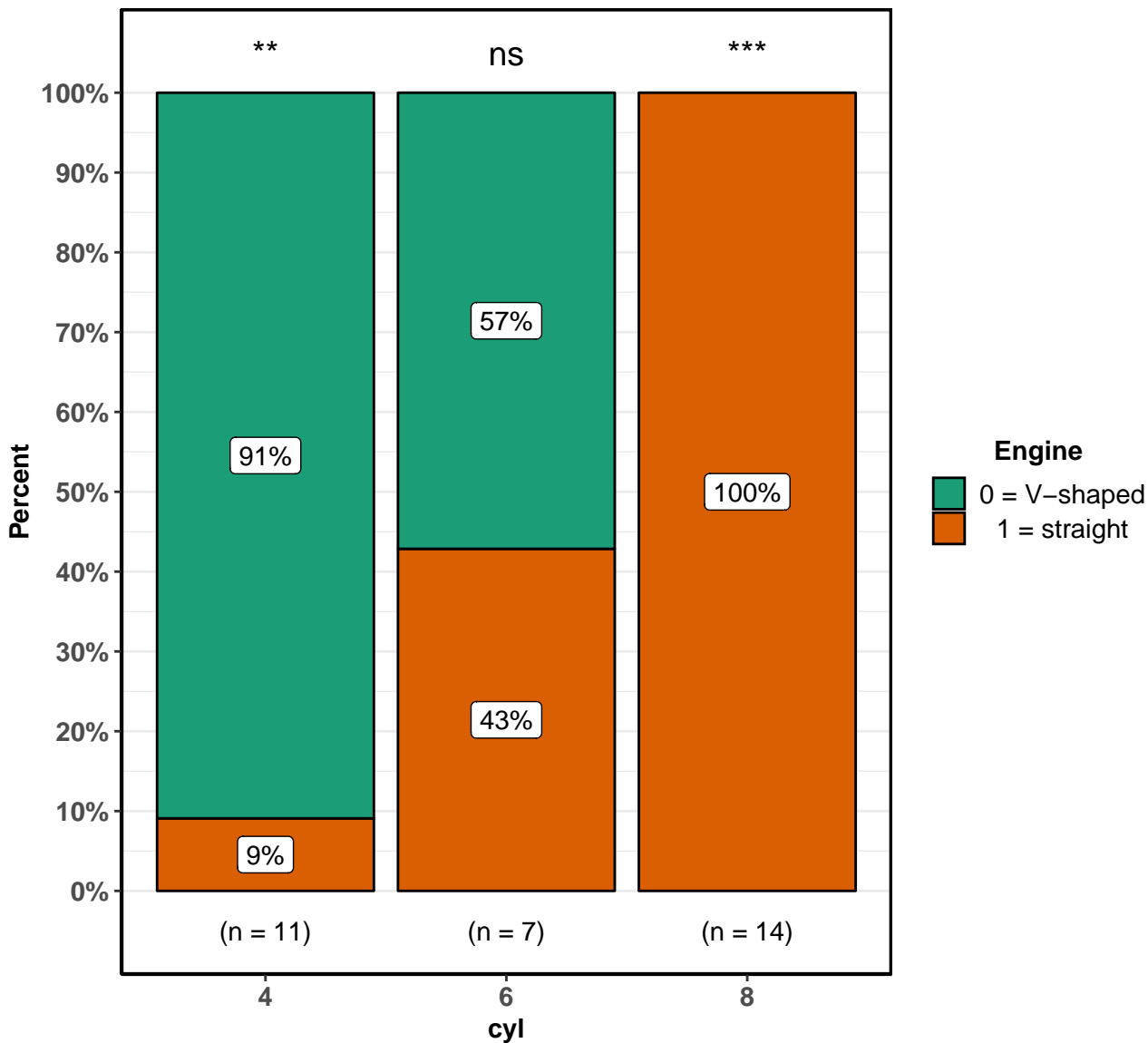


(b) versicolor



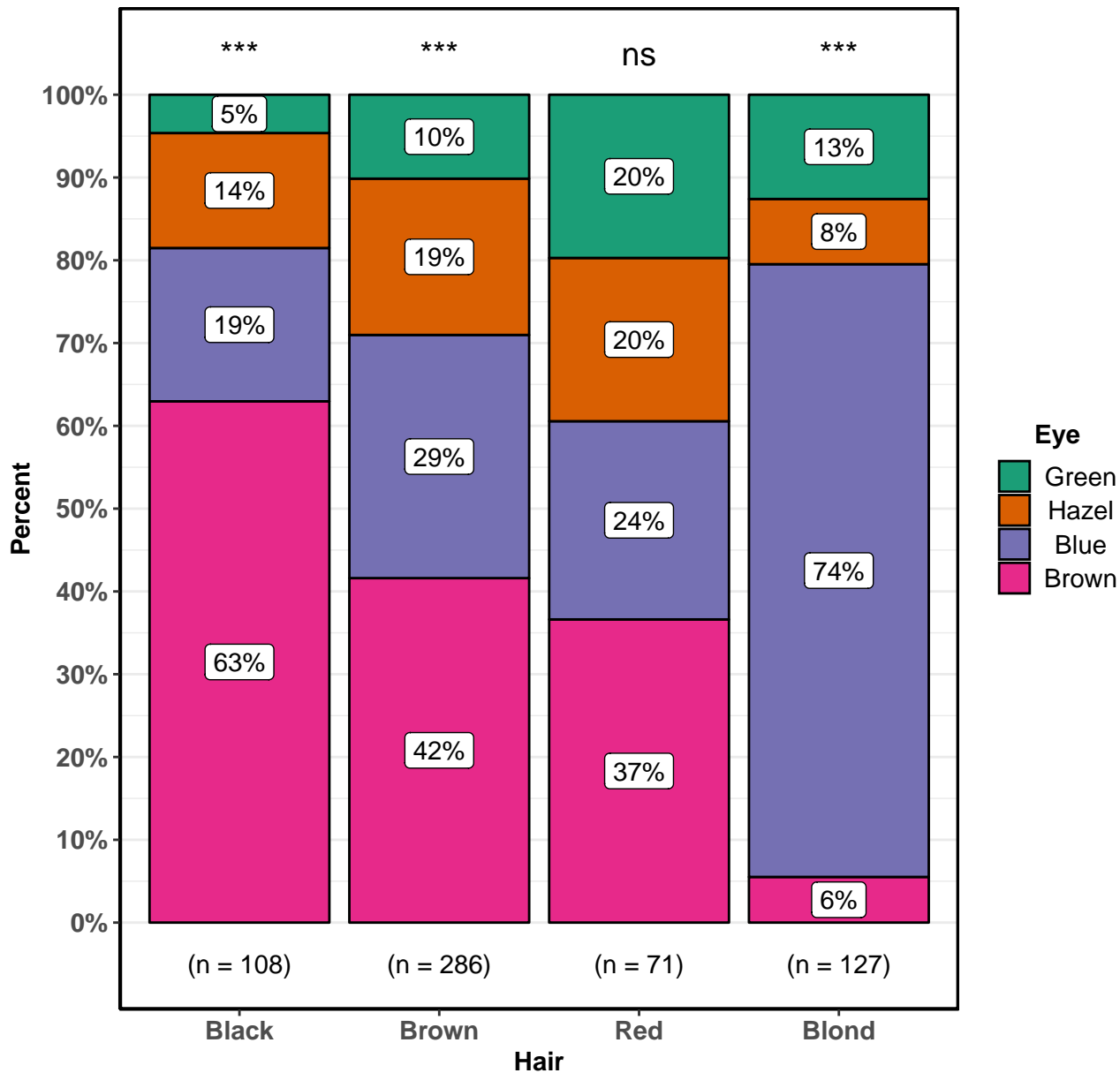
Note: Only two species of flower are displayed

$\chi^2(2) = 21.34, p = < 0.001, V = 0.82, CI_{95\%} [0.62, 0.94], n = 32$



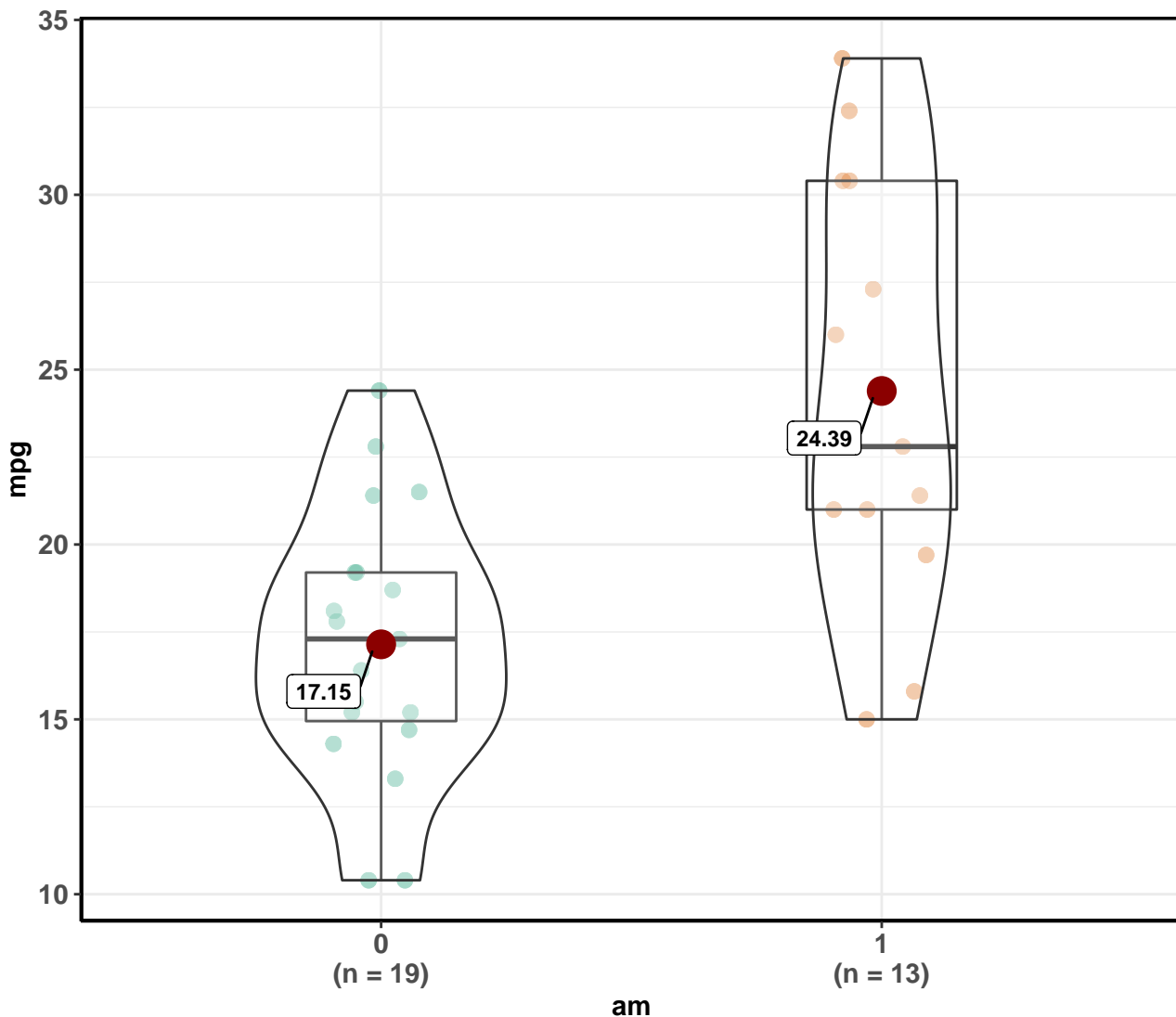
In favor of null: $\log_e(BF_{01}) = -10.86$, sampling = joint multinomial, $a = 1.00$

$\chi^2(9) = 138.29, p = < 0.001, V = 0.28, CI_{95\%} [0.23, 0.31], n = 592$



Fuel efficiency by type of car transmission

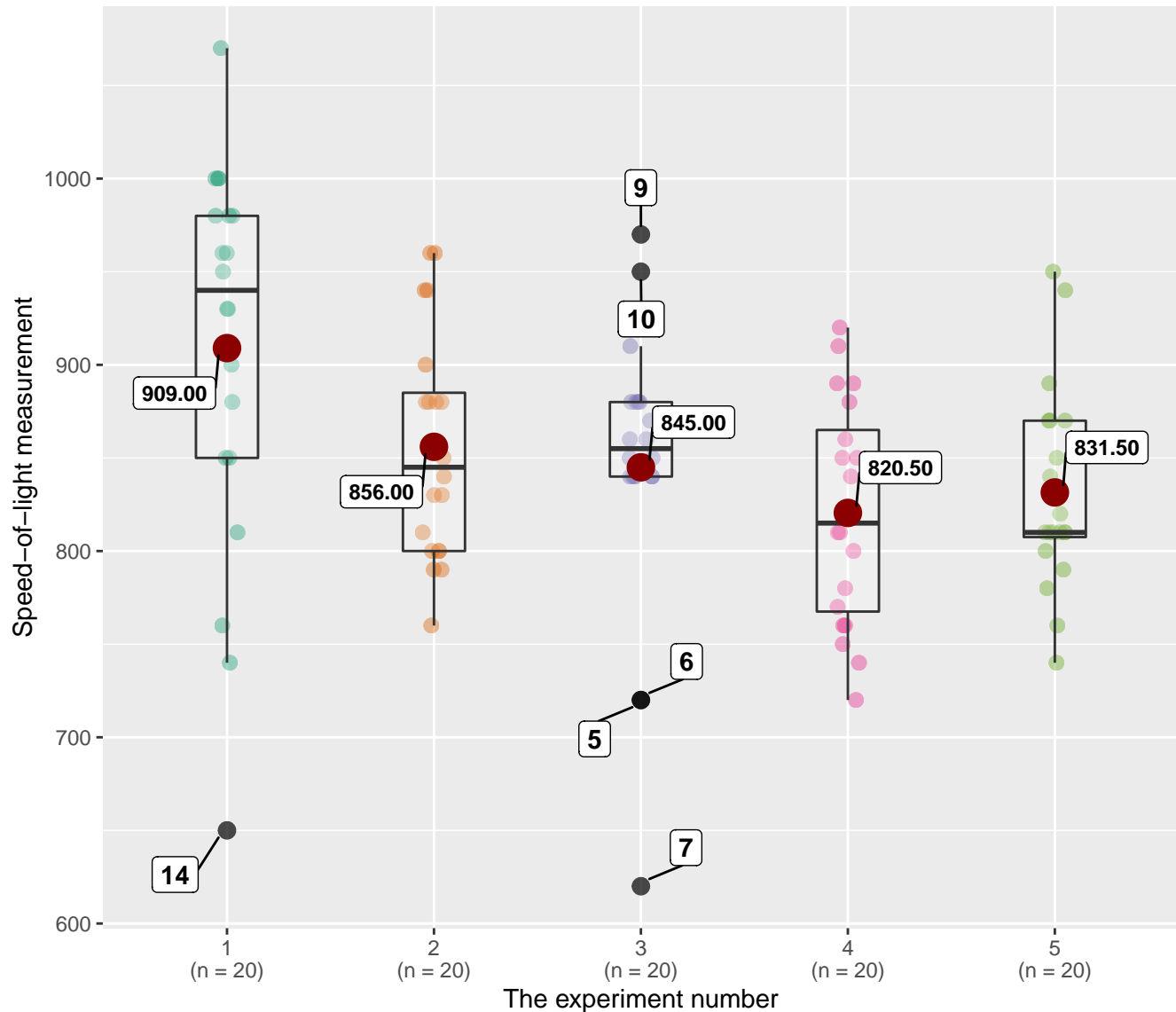
$t(18.33) = -3.77, p = 0.001, g = -1.38, \text{CI}_{95\%} [-2.17, -0.51], n = 32$



Transmission (0 = automatic, 1 = manual)

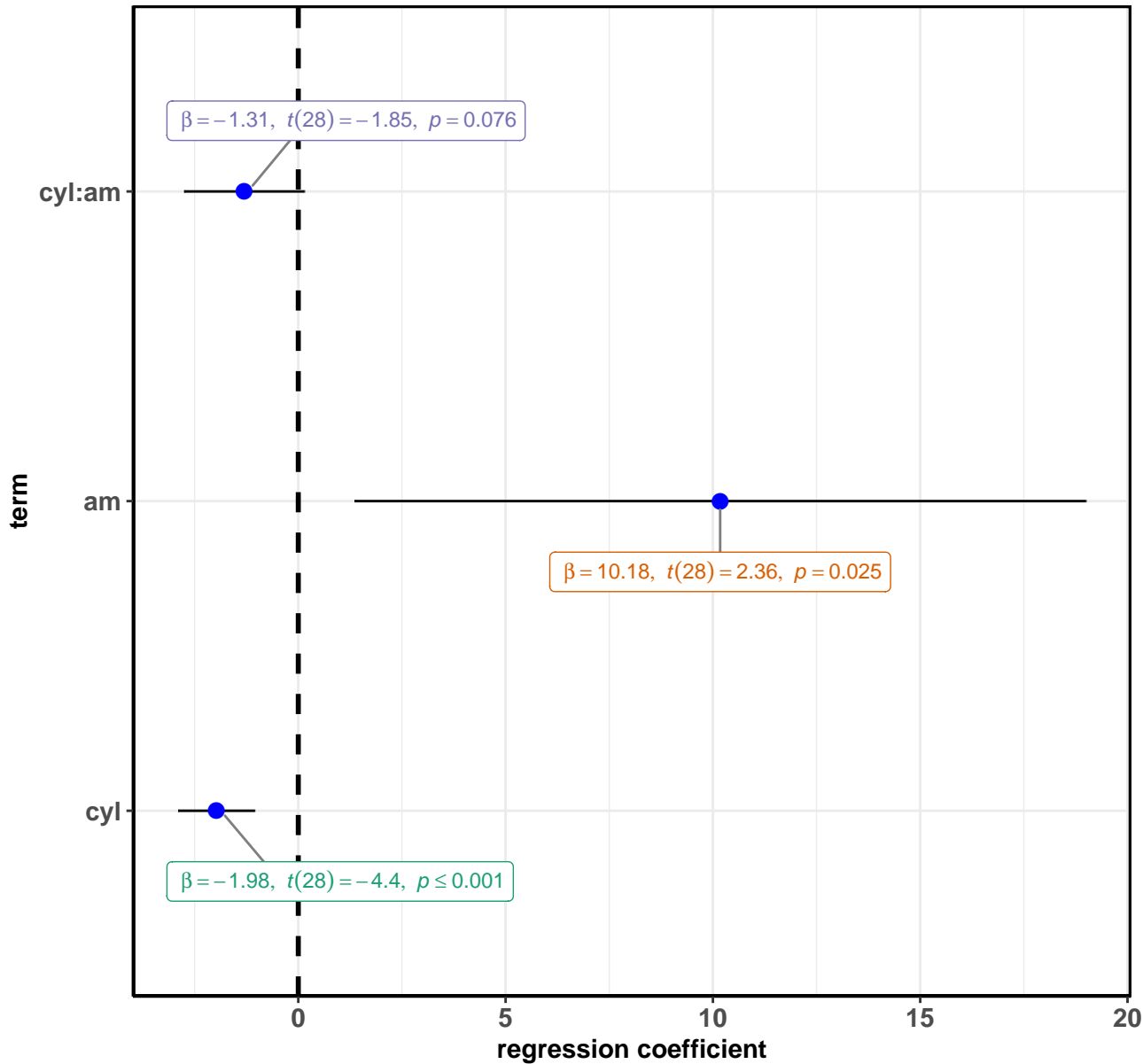
In favor of null: $\log_e(\text{BF}_{01}) = -4.46, r_{\text{Cauchy}} = 0.71$

$F(4,47.04) = 3.01$, $p = 0.027$, $\omega_p^2 = 0.12$, $CI_{99\%} [-0.21, 0.47]$, $n = 100$



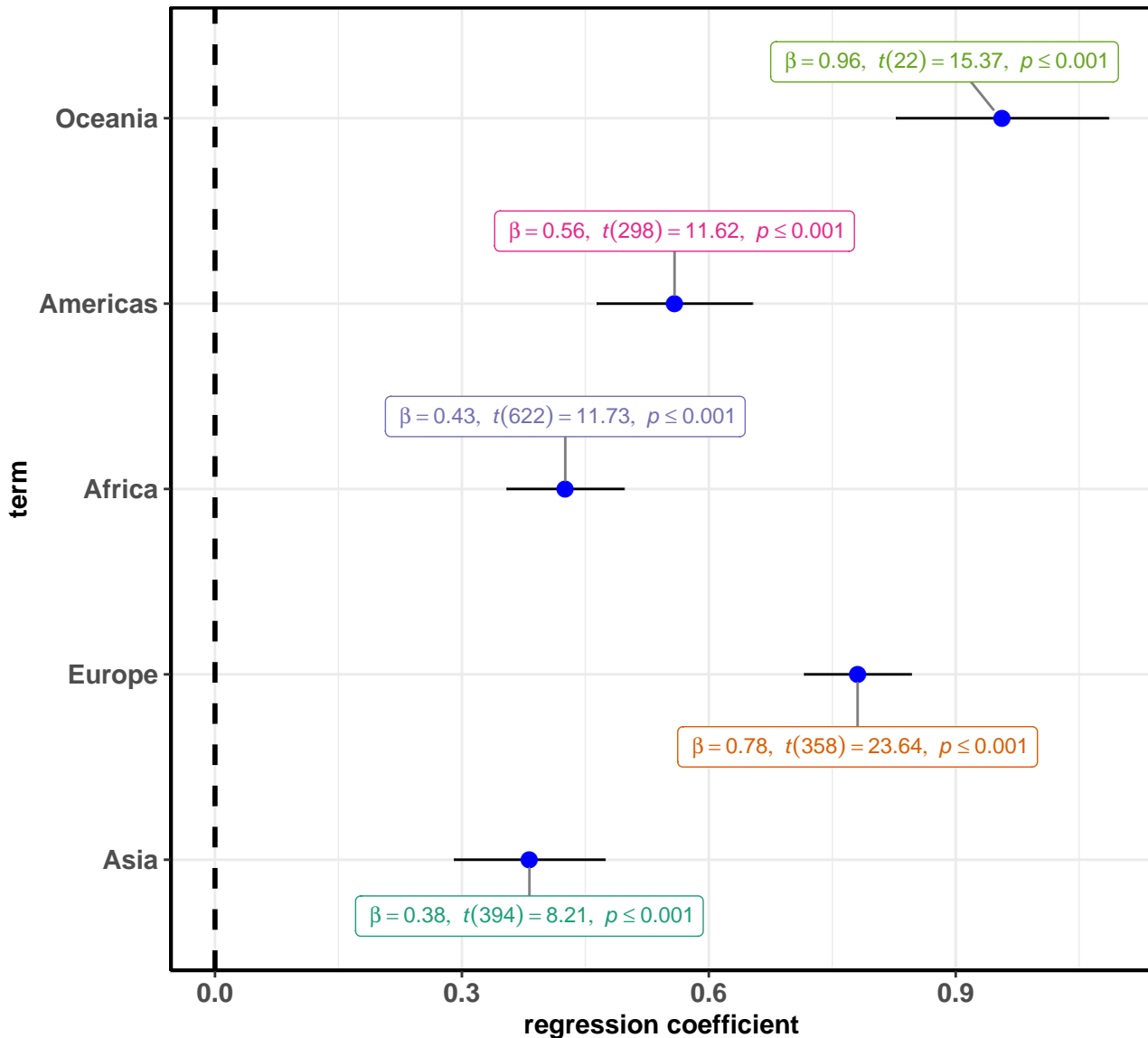
In favor of null: $\log_e(BF_{01}) = -2.19$, $r_{\text{Cauchy}} = 0.71$

Pairwise comparisons: **Games-Howell test**; Adjustment (p-value): **Benjamini & Hochberg**

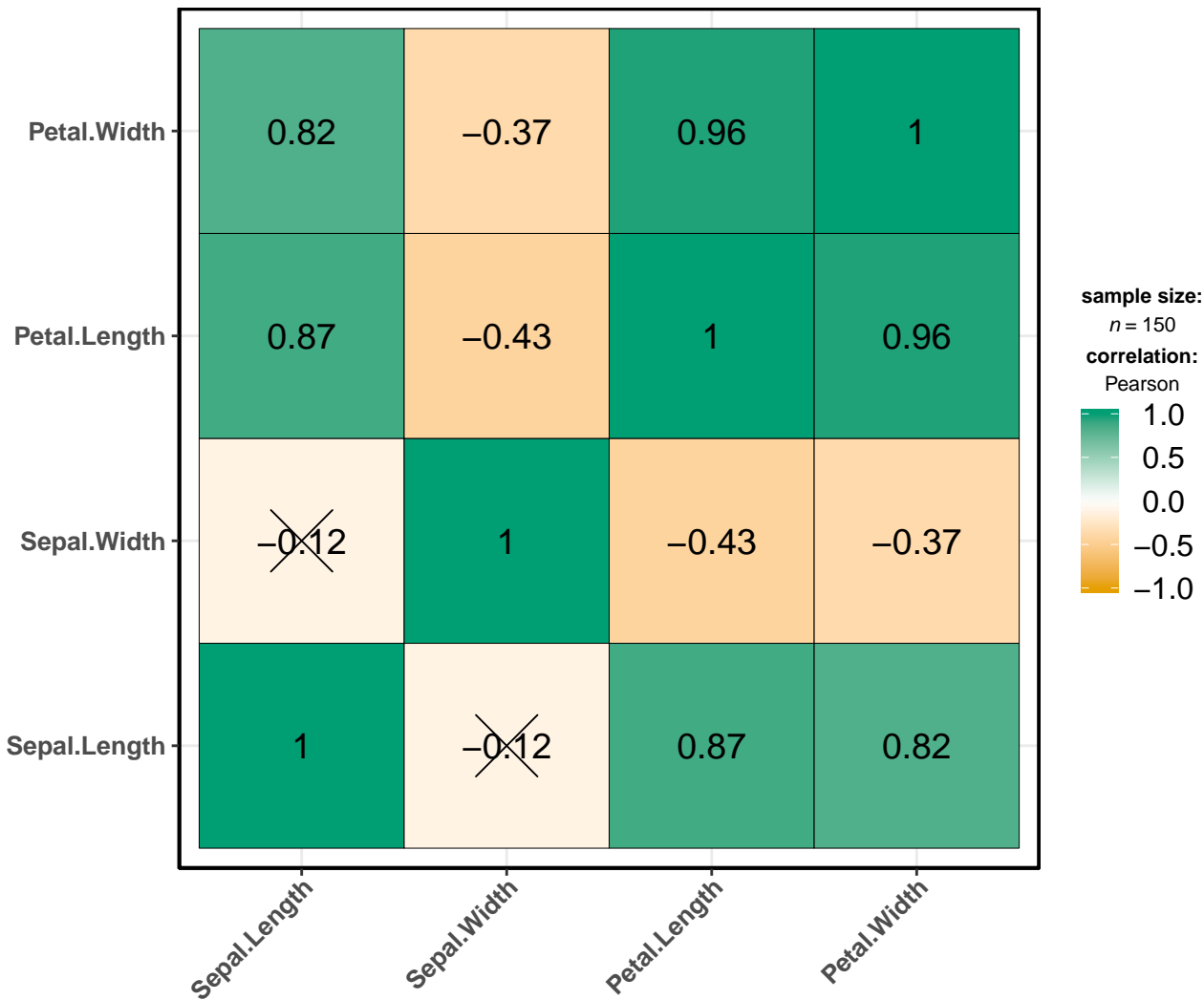


AIC = 166, BIC = 173, log-likelihood = -78

Summary effect: $\beta = 0.62$, $CI_{95\%} [0.41, 0.83]$, $z = 5.74$, $se = 0.11$, $p = < 0.001$

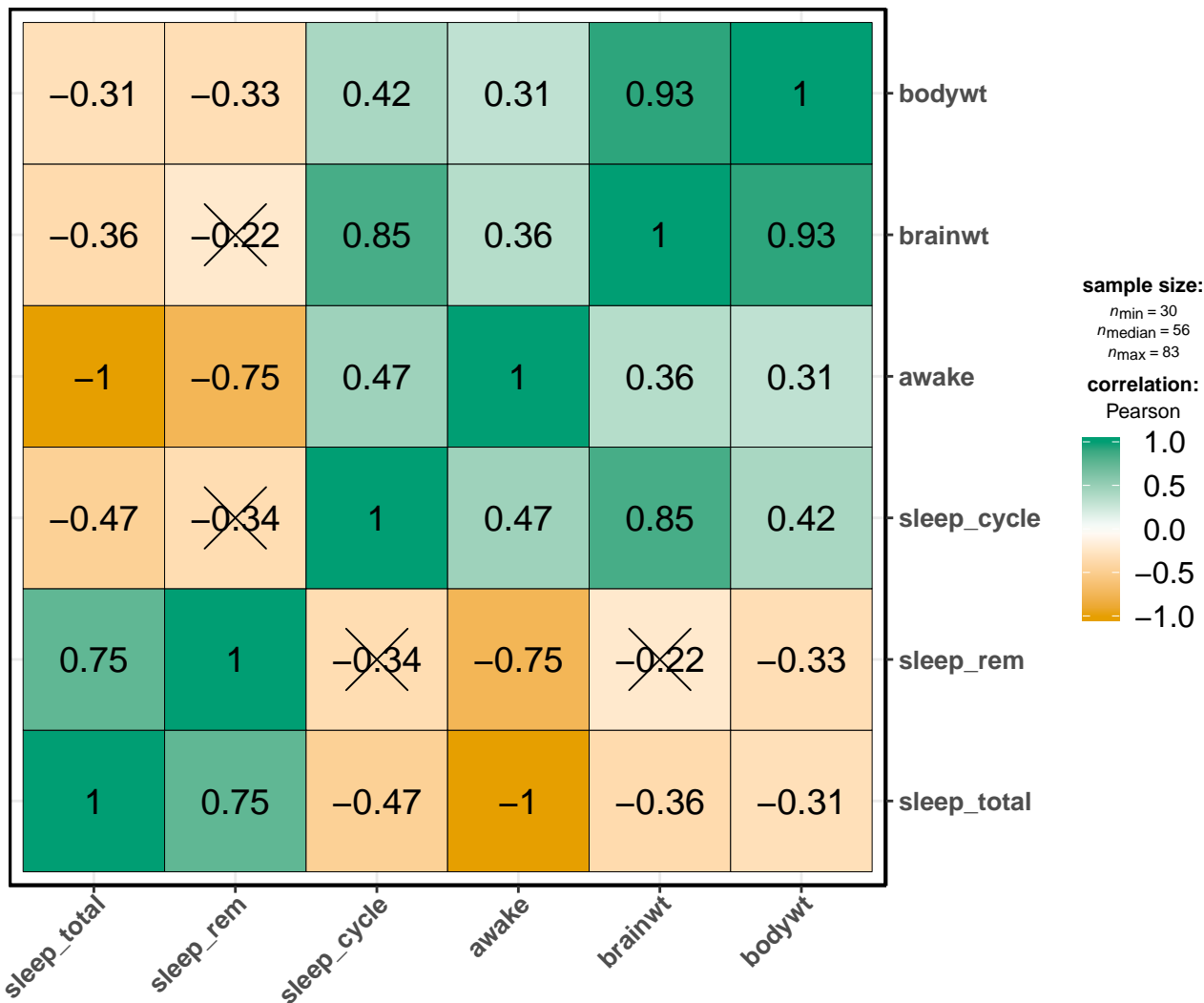


Heterogeneity: $Q(4) = 109, p = < 0.001, \tau^2_{REML} = 0.06, I^2 = 96.81\%$



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

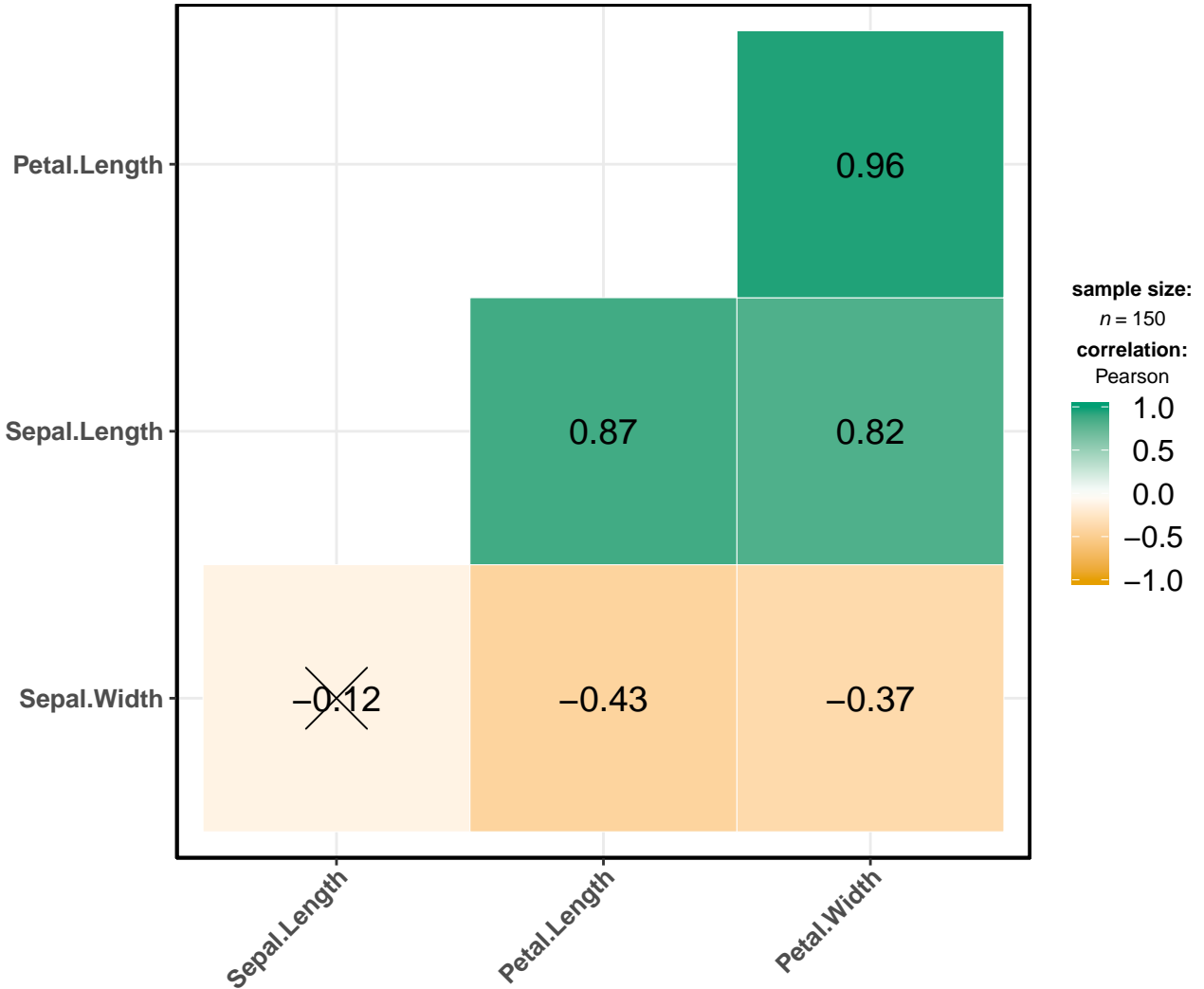
Adjustment (p-value): None



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

Adjustment (p-value): None

Dataset: Iris

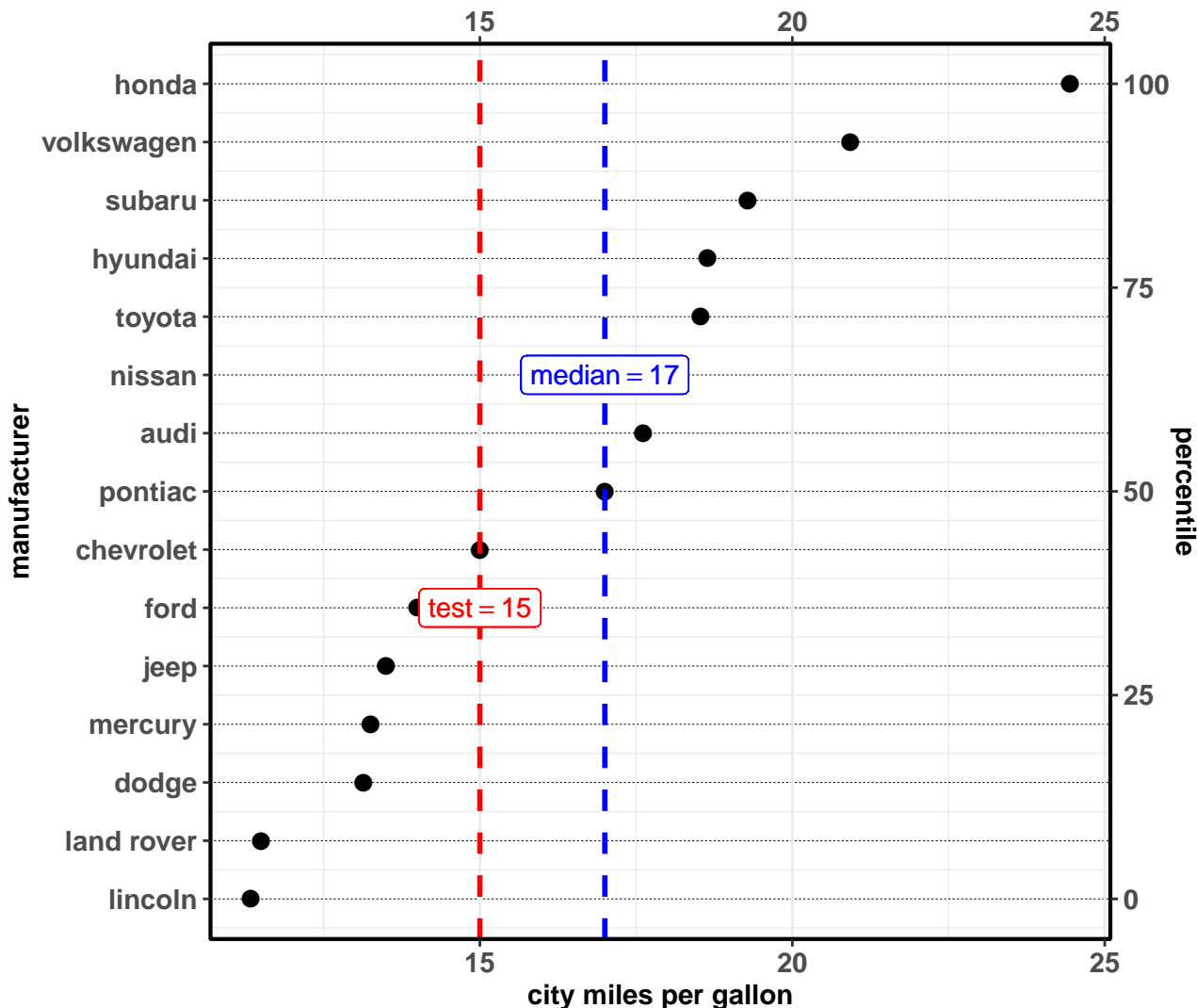


X = correlation non-significant at $p < 0.01$

Adjustment (p-value): None

Fuel economy data

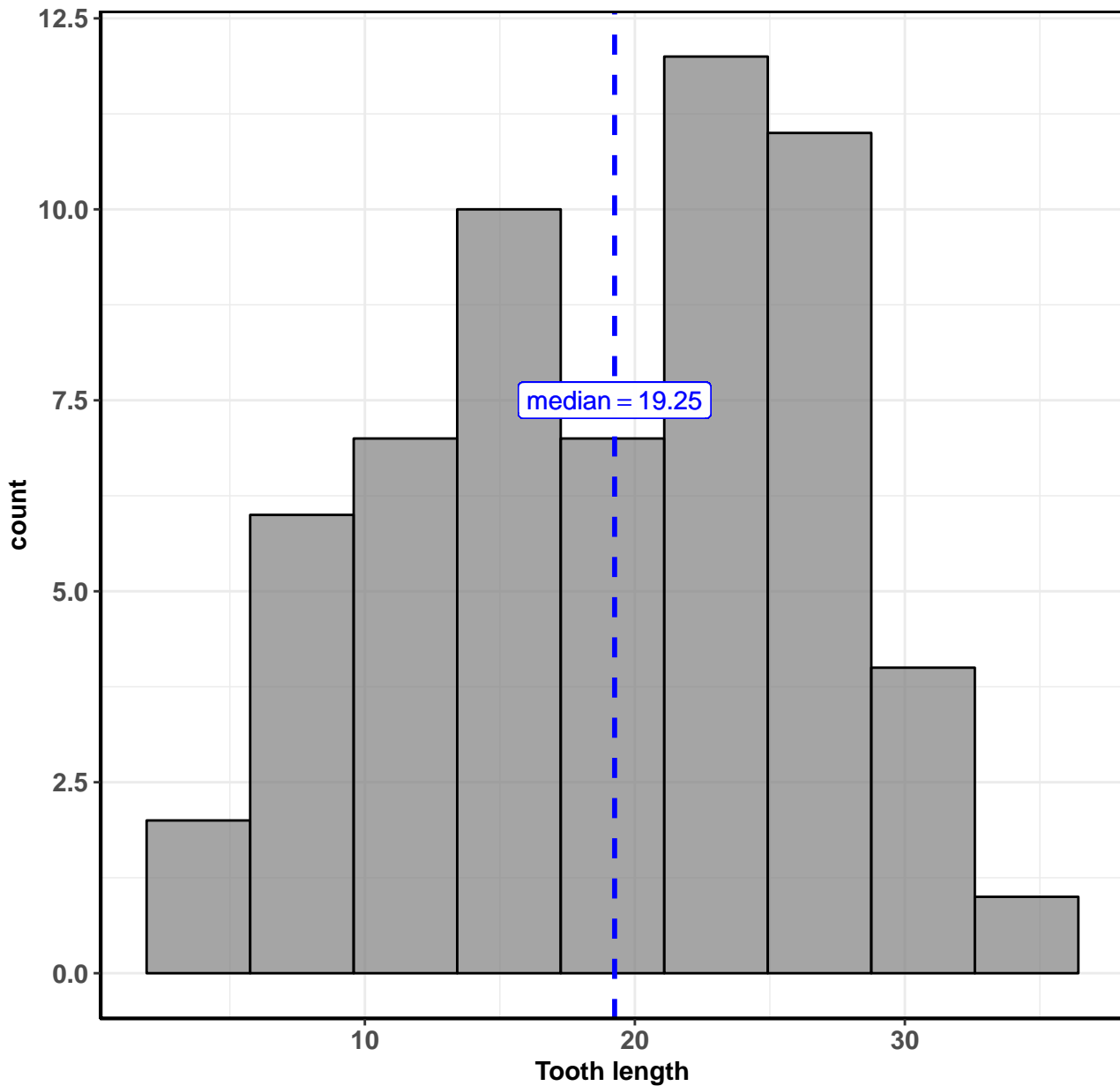
$t(14) = 1.47$, $p = 0.163$, $d = 0.38$, $CI_{99\%} [-0.32, 1.06]$, $n = 15$



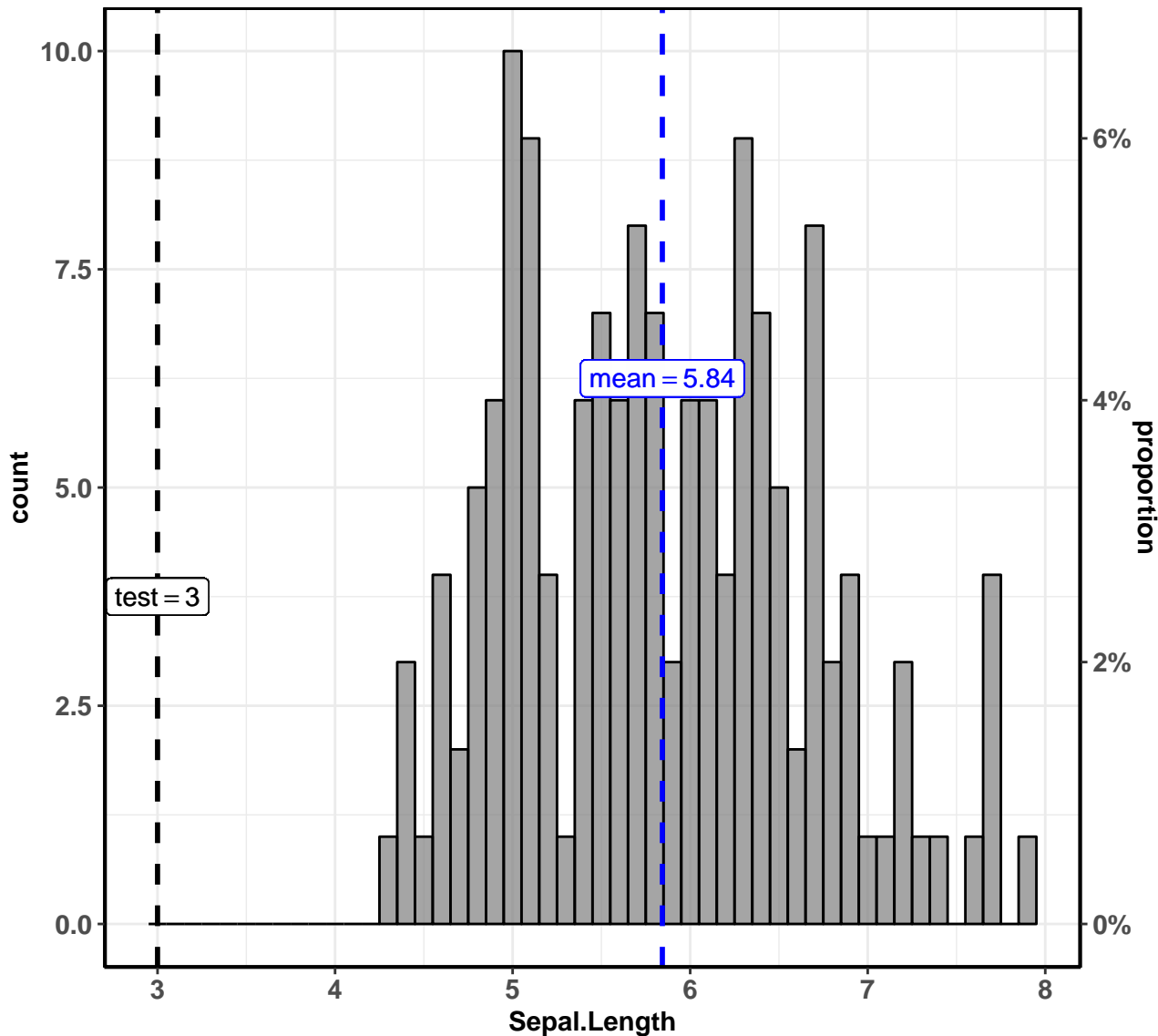
Source: EPA dataset on <http://fuelconomy.gov>

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

$t(59) = 19.05, p = < 0.001, d = 2.46, CI_{95\%} [1.95, 2.97], n = 60$



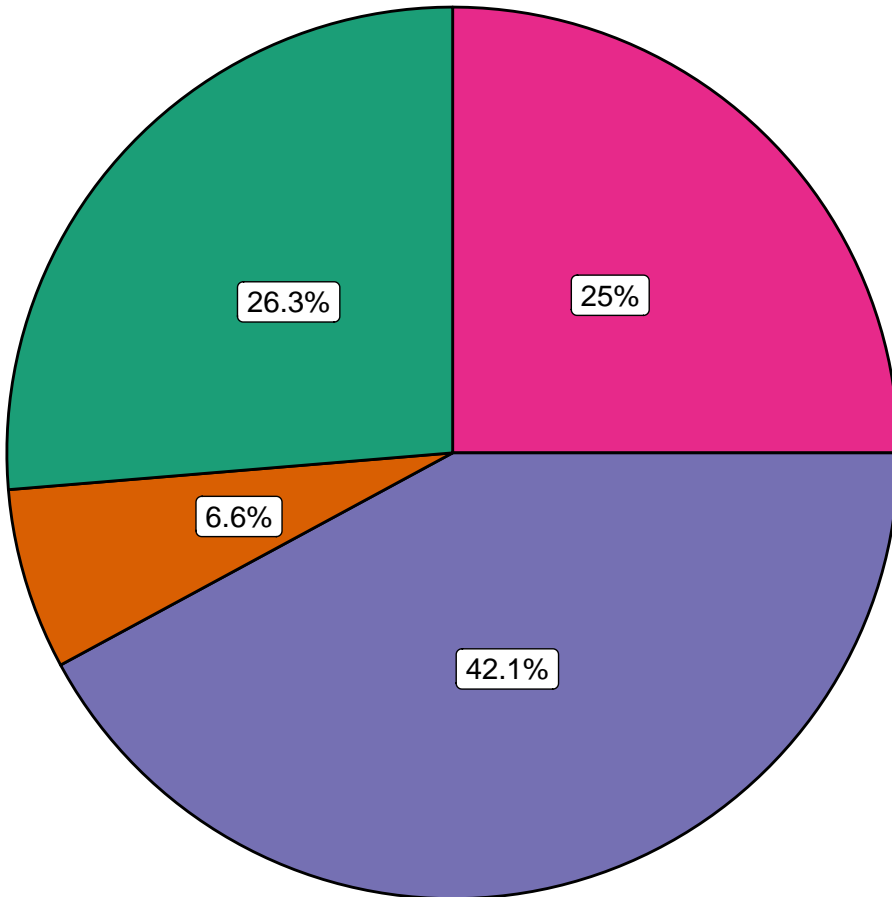
$t(149) = 42.05$, $p = < 0.001$, $d = 3.43$, $CI_{95\%} [3.01, 3.85]$, $n = 150$







Note: Iris dataset by Fisher.

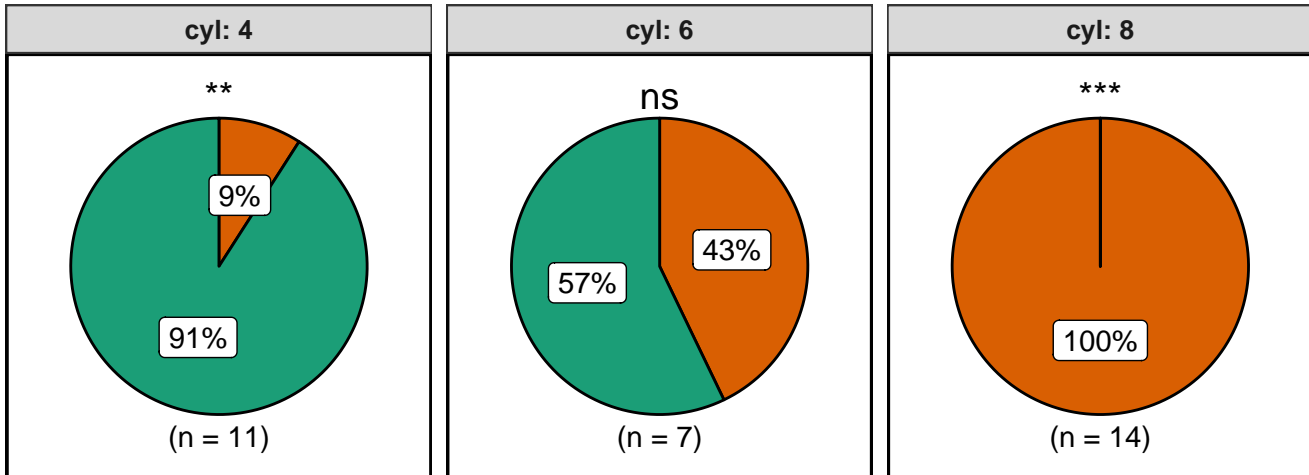
In favor of null: $\log_e(BF_{01}) = -186.14$, $r_{\text{Cauchy}} = 0.80$

$\chi^2(3) = 19.26, p = < 0.001, n = 76$



vore  omni  insecti  herbi  carni

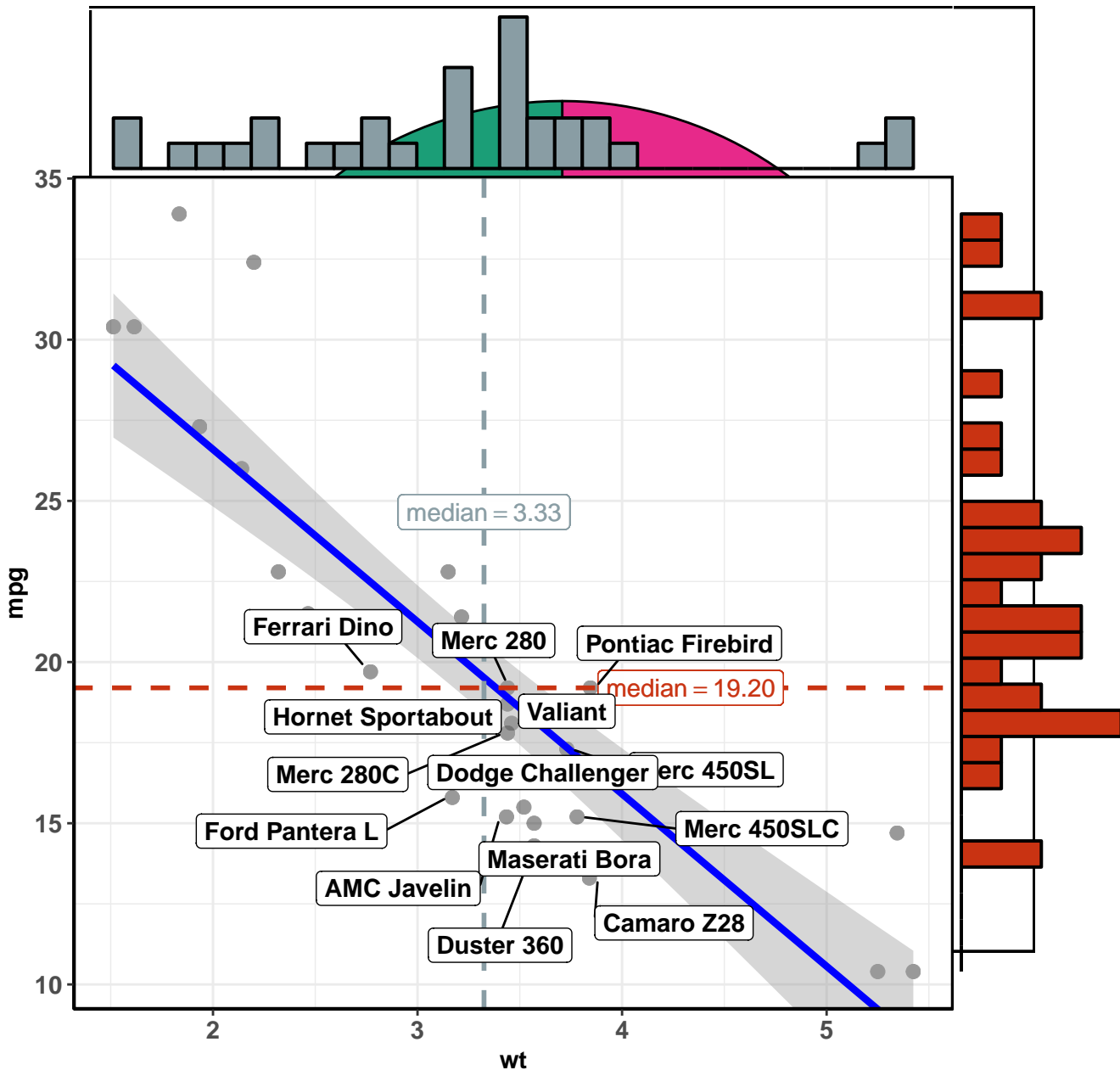
$\chi^2(2) = 21.34, p = < 0.001, V = 0.82, CI_{95\%} [0.62, 0.94], n = 32$

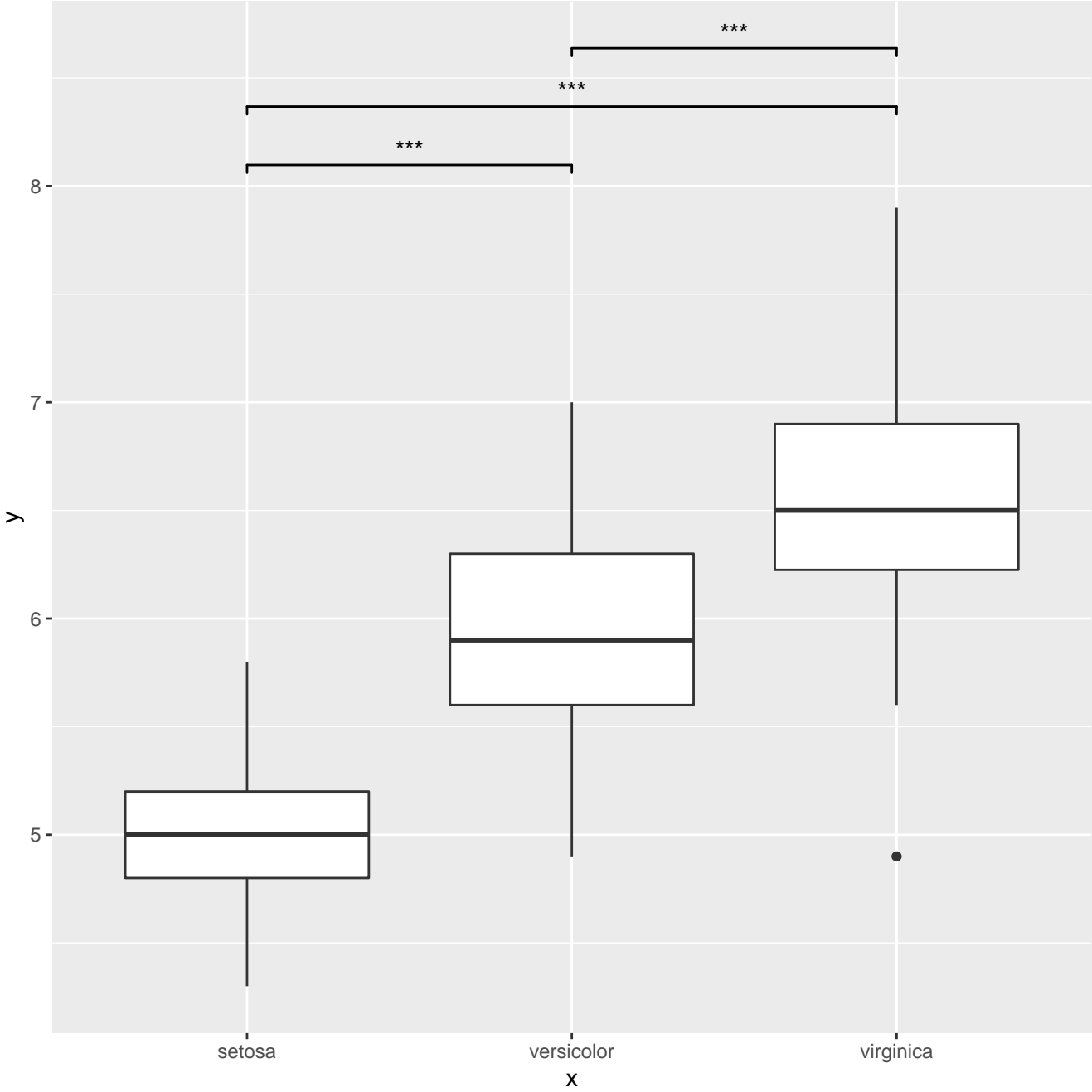


Engine 0 = V-shaped 1 = straight

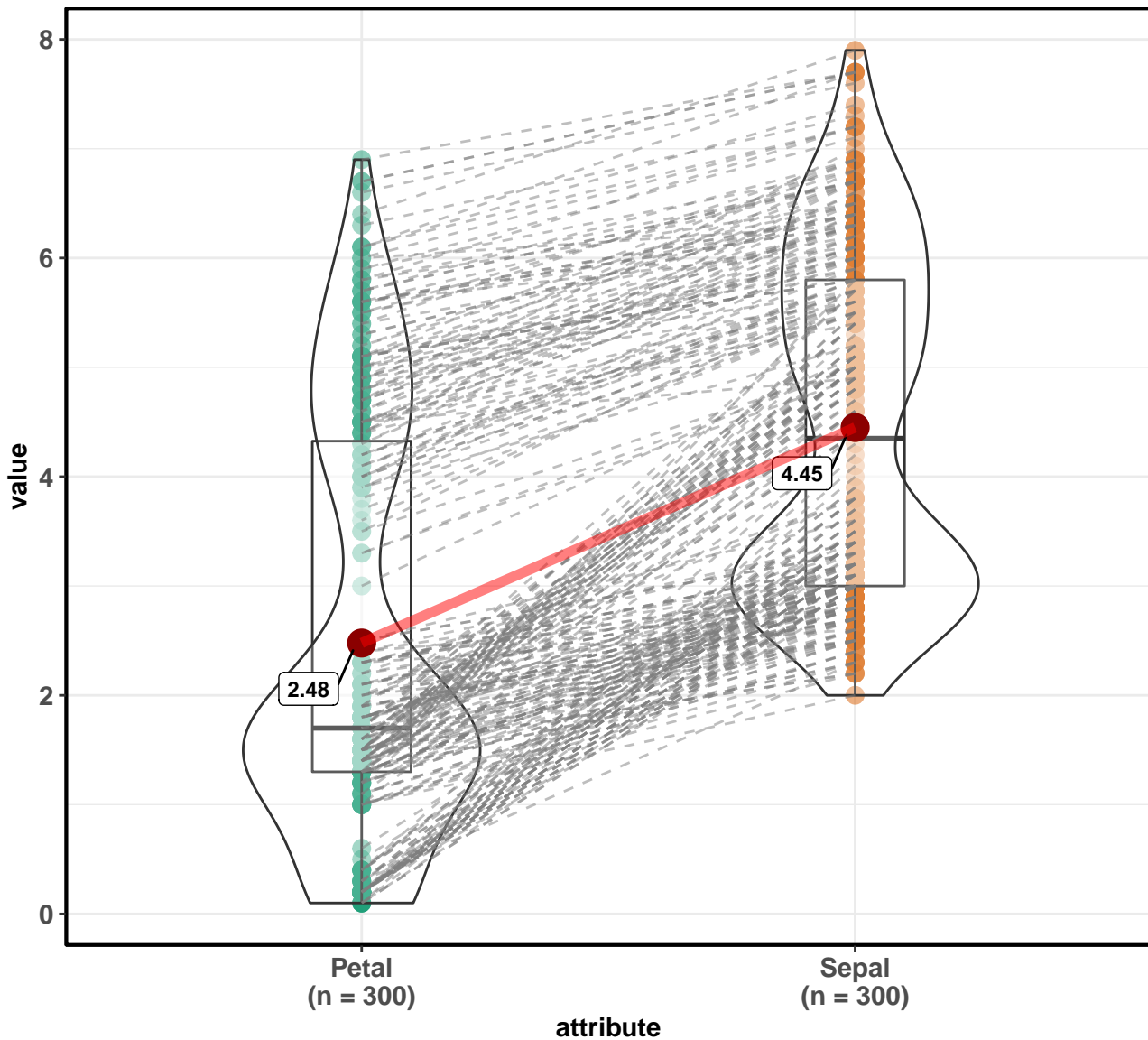
In favor of null: $\log_e(BF_{01}) = -10.31$, sampling = independent multinomial, $a = 1.00$

$\log_e(S) = 9.24, p = < 0.001, \rho_{\text{Spearman}} = -0.89, \text{CI}_{95\%} [-1.00, -0.79], n = 32$
 $\chi^2(3) = 133.47, p = < 0.001, n = 592$





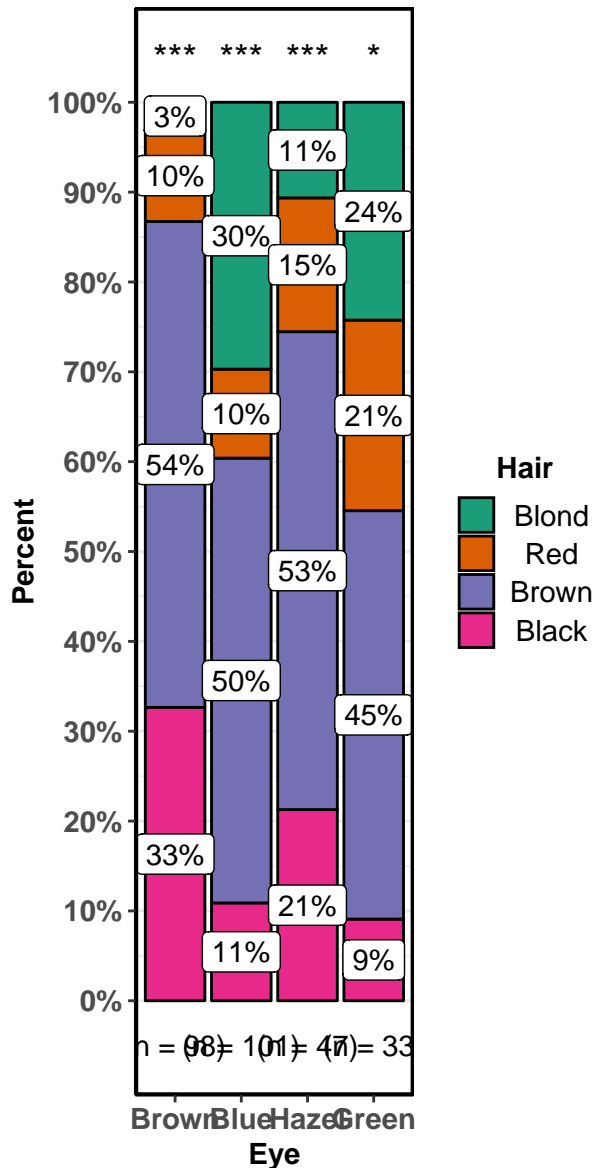
$t(299) = -31.94, p = < 0.001, g = 1.84, \text{CI}_{95\%} [-2.03, -1.66], n = 300$



In favor of null: $\log_e(\text{BF}_{01}) = -217.89, r_{\text{Cauchy}} = 0.71$

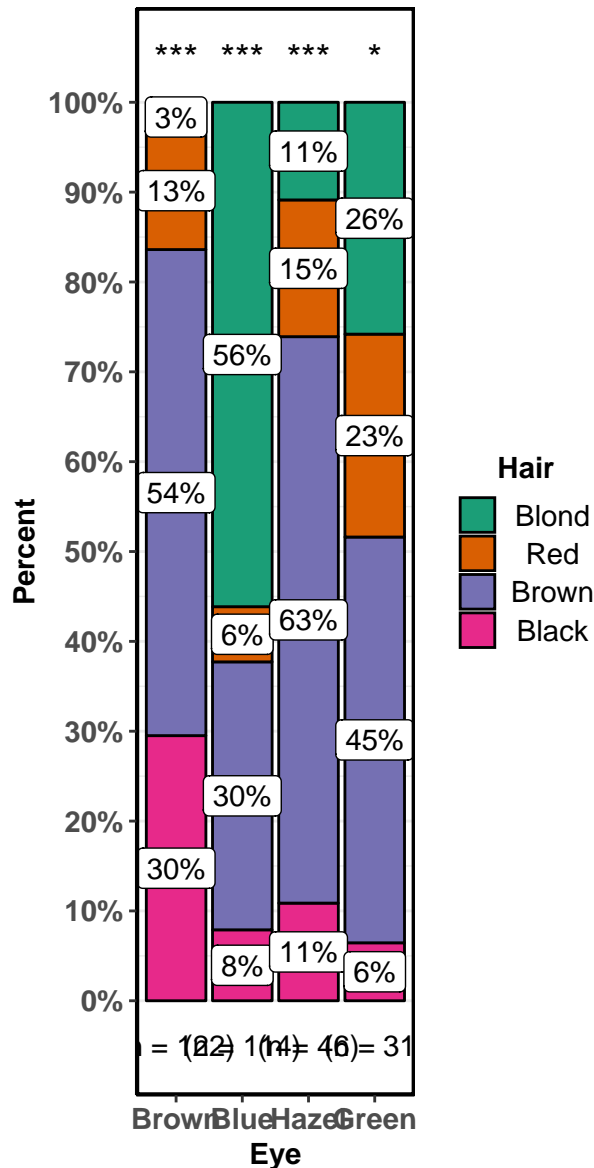
Sex: Male

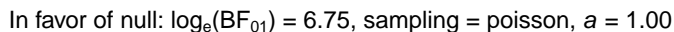
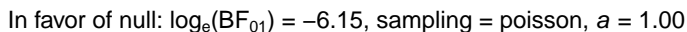
1.28, $p < 0.001$, $V = 0.22$, $CI_{95\%} [0.14, 0.26]$, $n = 106$



Sex: Female

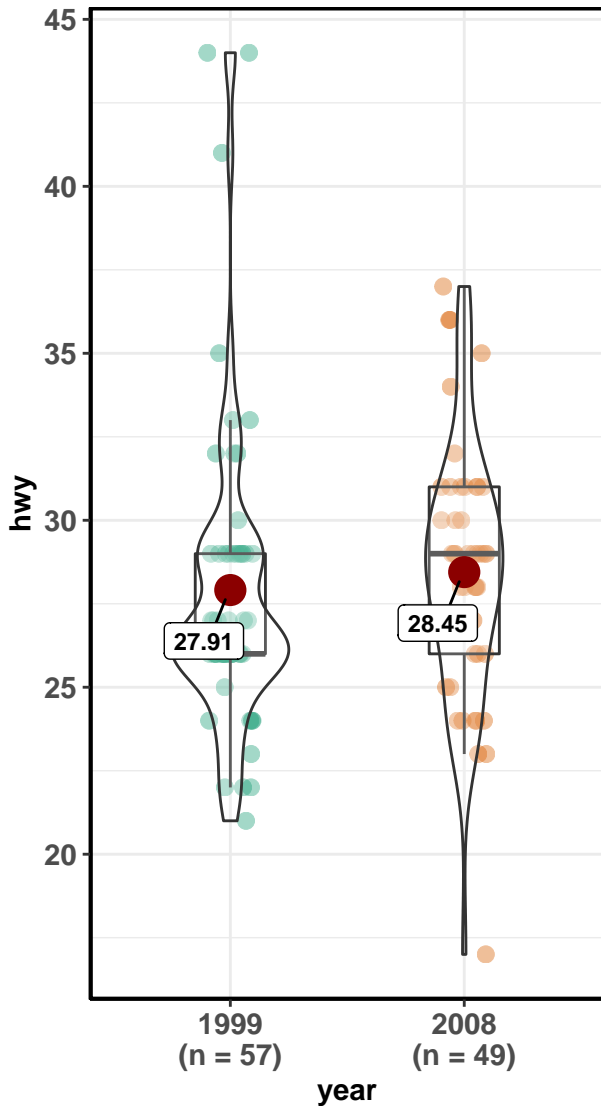
1.66, $p < 0.001$, $V = 0.34$, $CI_{95\%} [0.27, 0.38]$, $n = 106$



$$\chi^2(18) = 14.86, p = 0.671, V = 0.10, \text{CI}_{95\%} [0.02, 0.10], n = 480$$

$$\chi^2(18) = 50.13, p = < 0.001, V = 0.15, \text{CI}_{95\%} [0.09, 0.16], n = 782$$


drv: f

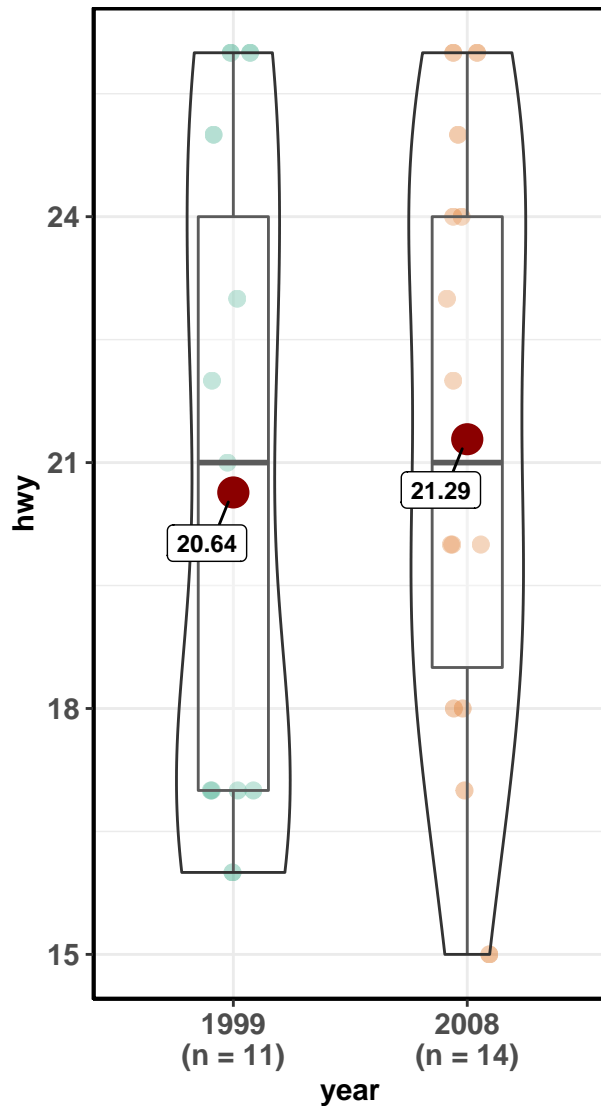
$t(20.71) = -0.66, p = 0.509, g = -0.13, CI_{99\%} [-0.63, 0.19]$



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

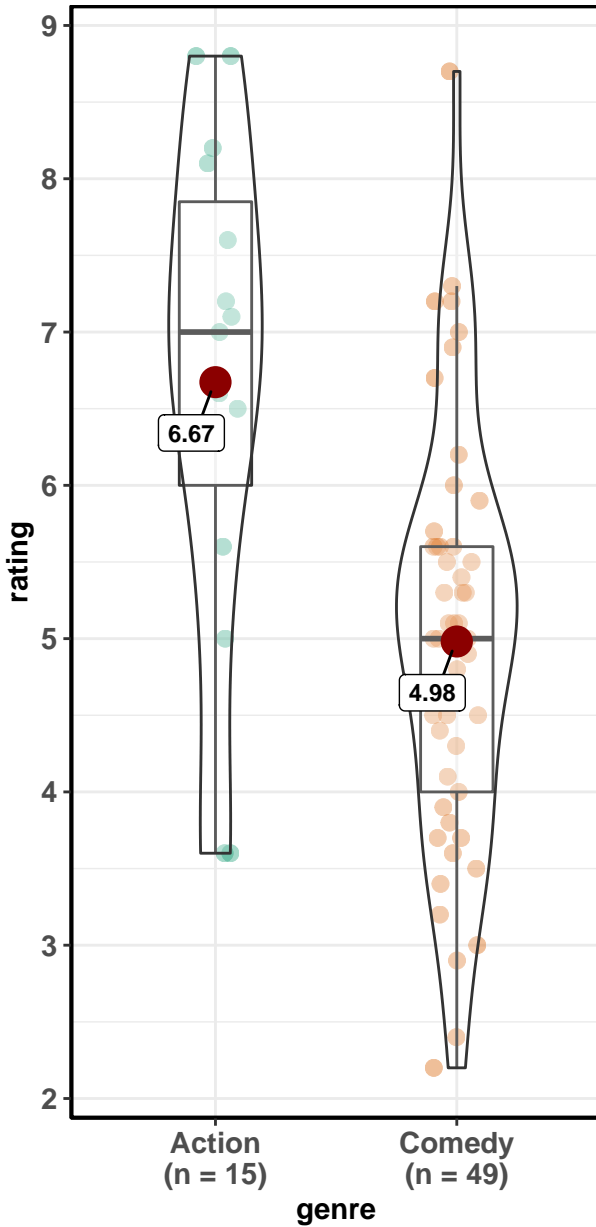
drv: r

$t(21.19) = -0.43, p = 0.675, g = -0.17, CI_{99\%} [-1.21, 0.8]$

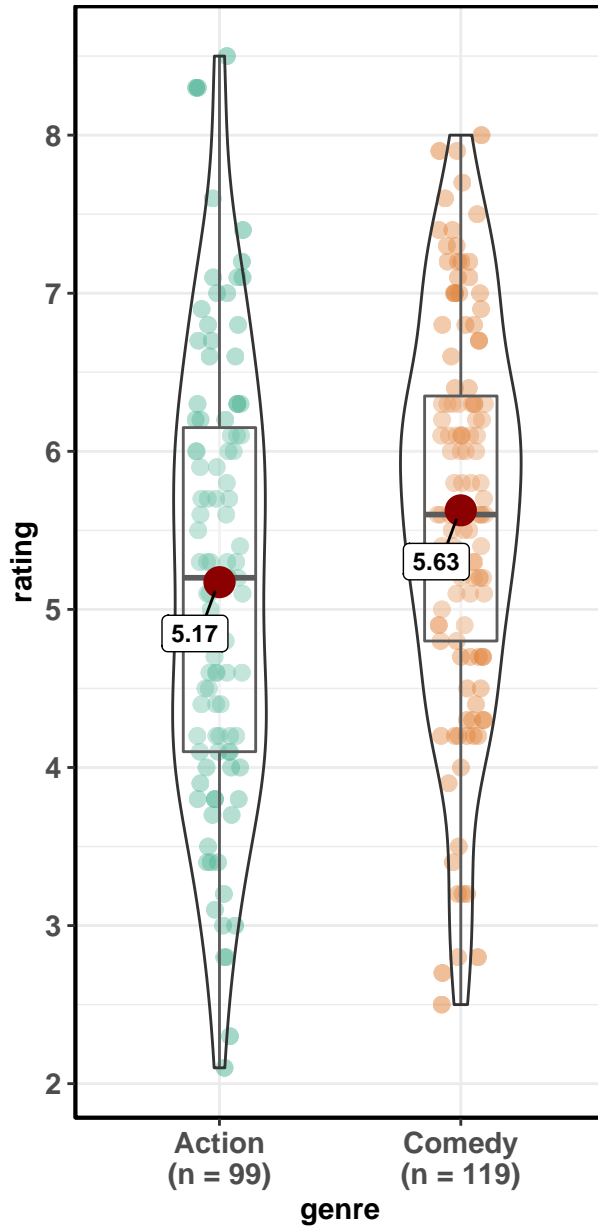


In favor of null: $\log_e(BF_{01}) = 0.93, r_{\text{Cauchy}} = 0.71$

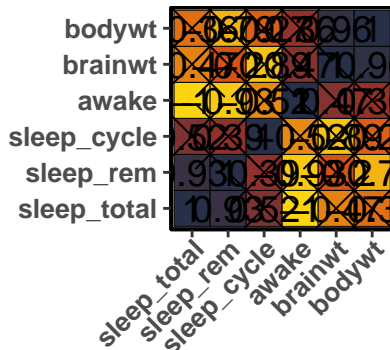
mpaa: PG



mpaa: R



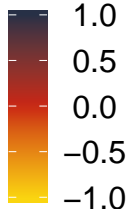
vore: carni



sample size:

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

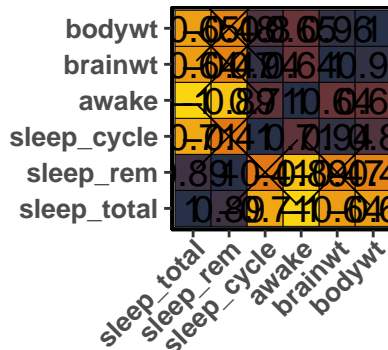
correlation:
 robust (% bend)



= correlation non-significant at $p < 0.05$

Adjustment (p-value): Holm

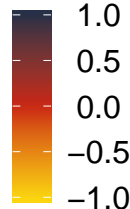
vore: herbi



sample size:

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

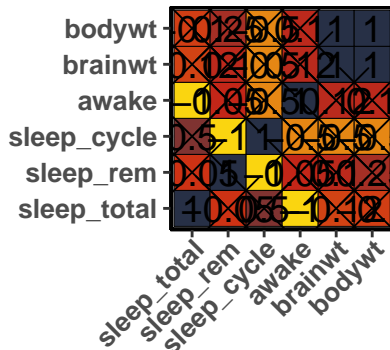
correlation:
 robust (% bend)



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

Adjustment (p-value): Holm

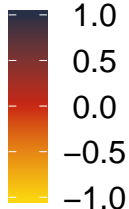
vore: insecti



sample size:

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

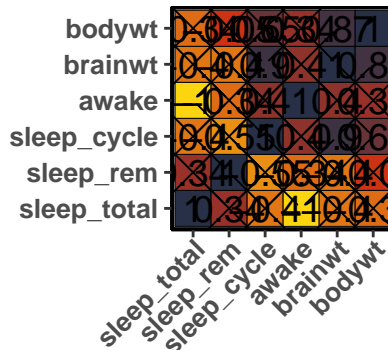
correlation:
 robust (% bend)



= correlation non-significant at $p < 0.05$

Adjustment (p-value): Holm

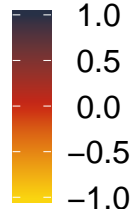
vore: omni



sample size:

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

correlation:
 robust (% bend)

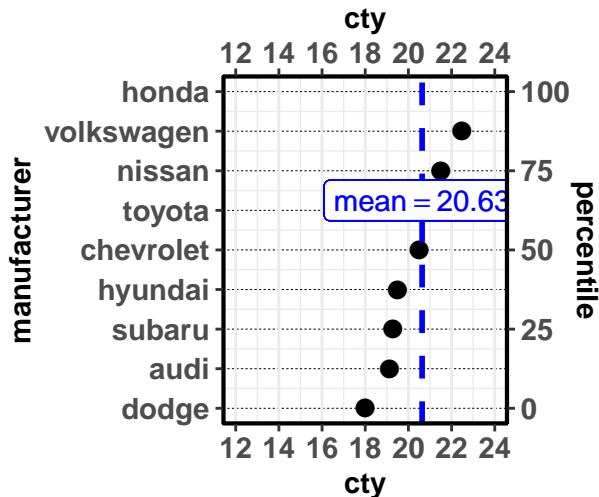


X = correlation non-significant at $p < 0.05$

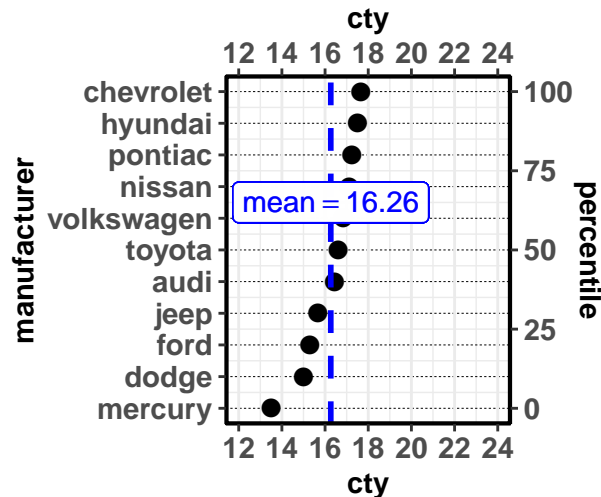
Adjustment (p-value): Holm

cylinder count: 4

$t(8) = 7.82, p = < 0.001, d = 2.61, CI_{95\%} [1.18, 4.0]$ $t(10) = 1.99, p = 0.075, d = 0.60, CI_{95\%} [-0.06, 1.23]$

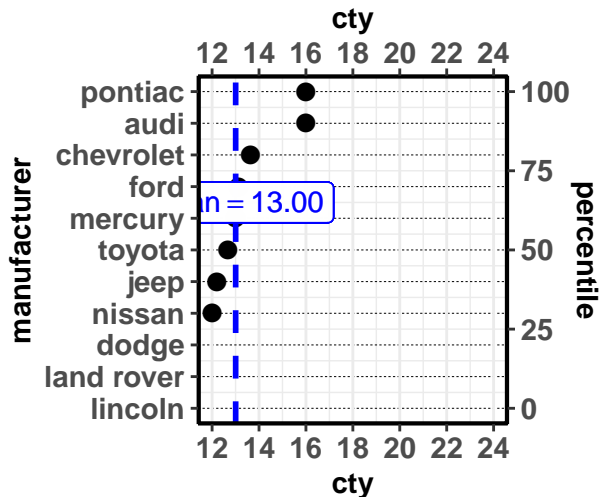


cylinder count: 6



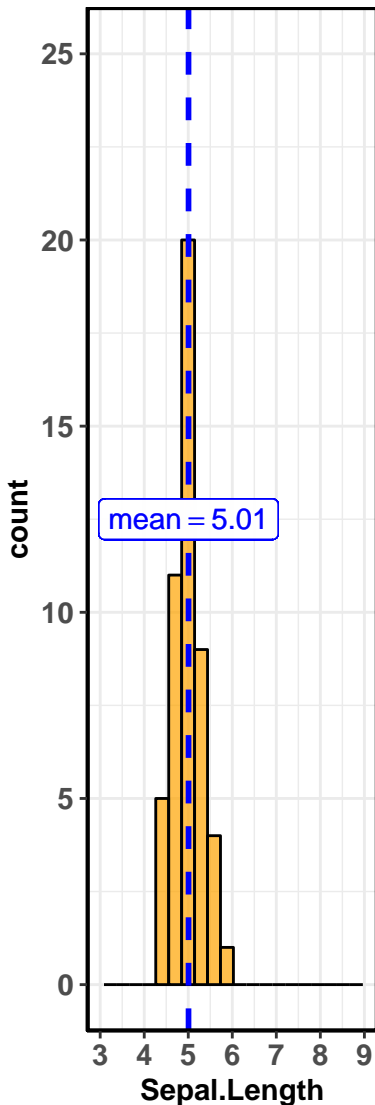
cylinder count: 8

$t(10) = -5.01, p = 0.001, d = -1.51, CI_{95\%} [-2.38, -0.61], n = 11$



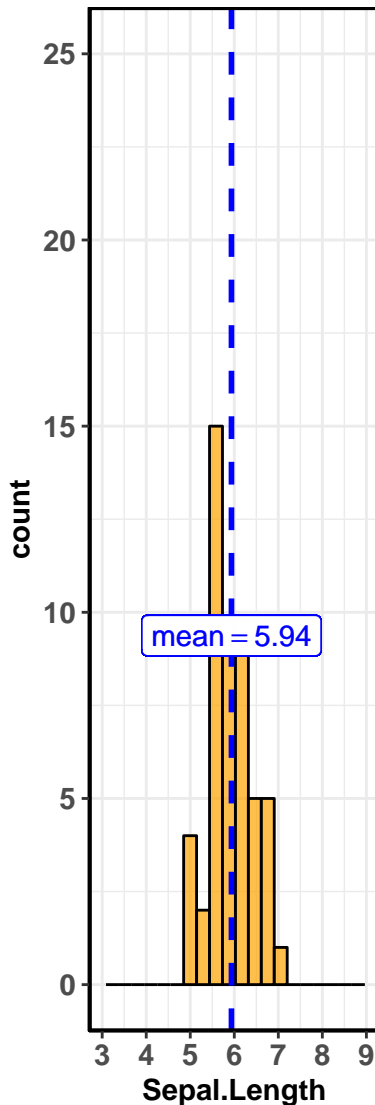
Species: setosa

12, $p = 0.905$, $d = 0.02$, $CI_{95\%} = [-0.98, 1.02]$



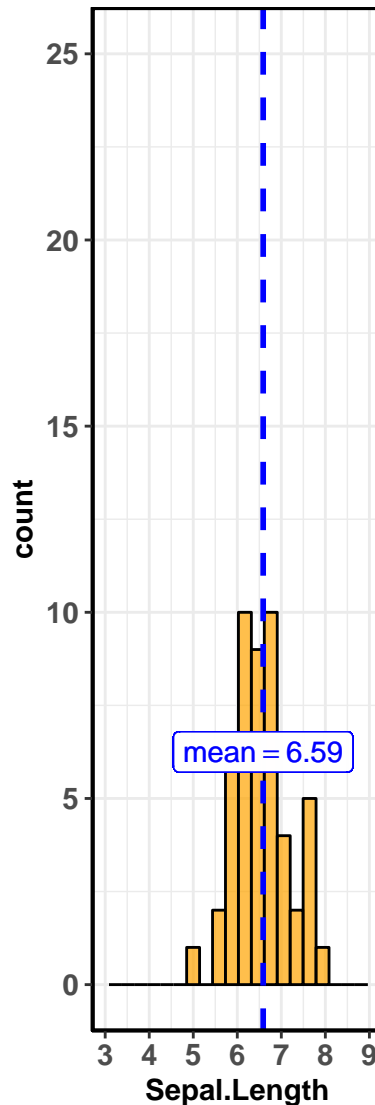
Species: versicolor

12, $p = < 0.001$, $d = 1.81$, $CI_{95\%} = [1.49, 2.13]$



Species: virginica

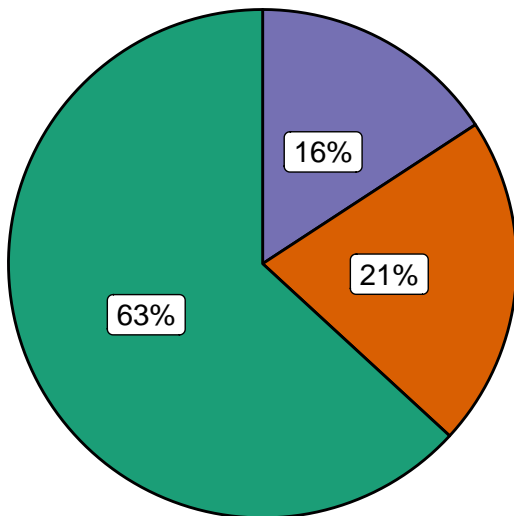
12, $p = < 0.001$, $d = 2.50$, $CI_{95\%} = [1.99, 3.01]$



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

am: 0

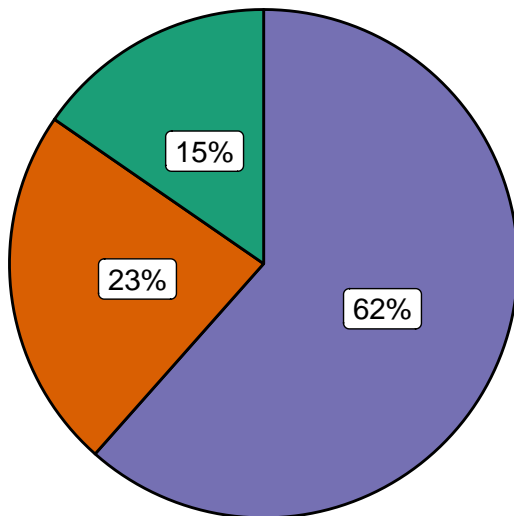
$\chi^2(2) = 7.68, p = 0.021, n = 19$



cyl  8  6  4

am: 1

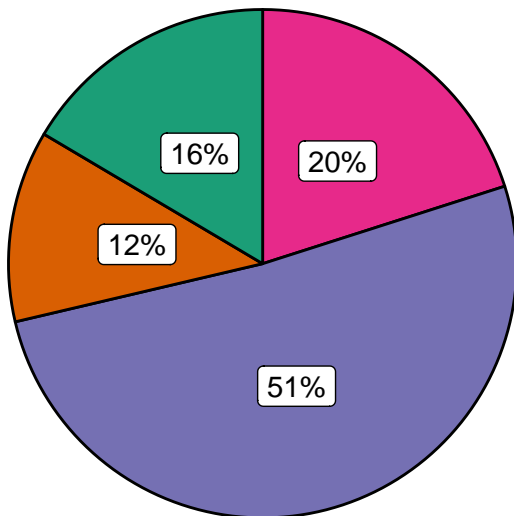
$\chi^2(2) = 4.77, p = 0.092, n = 13$



cyl  8  6  4

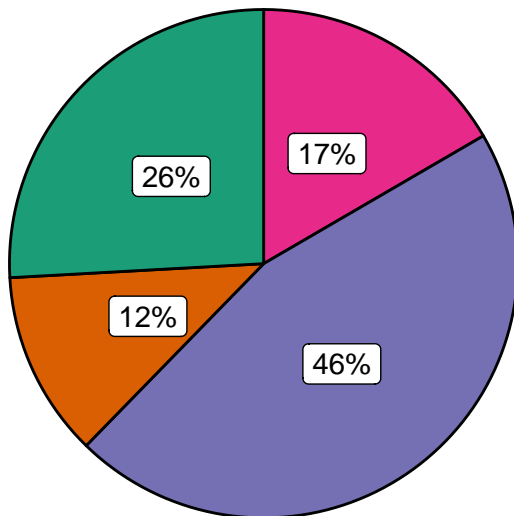
Sex: Male

$\chi^2(3) = 106.05, p = < 0.001, n = 279$



Sex: Female

$\chi^2(3) = 84.23, p = < 0.001, n = 313$

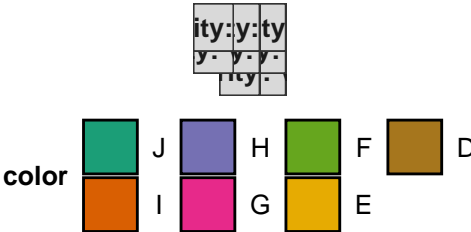


Hair  Blond  Red  Brown  Black

Hair  Blond  Red  Brown  Black

Quality: Fair

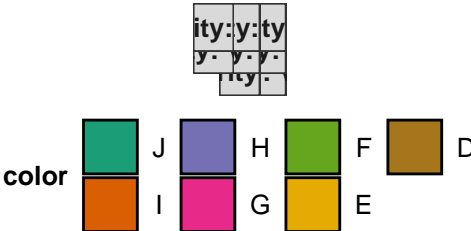
$\chi^2(42) = 52.31, p = 0.132, V = 0.22, Cl_{95\%} [0.10, 0.21], n = 173$



avor of null: $\log_e(BF_{01}) = -8.80$, sampling = poisson, $a = 1.00$

Quality: Very Good

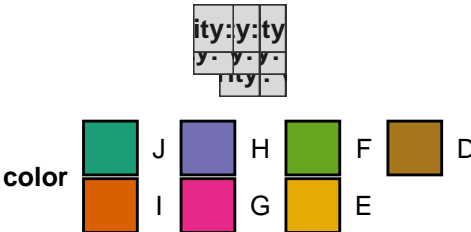
$\chi^2(42) = 82.60, p = < 0.001, V = 0.11, Cl_{95\%} [0.06, 0.11], n = 1219$



avor of null: $\log_e(BF_{01}) = 5.13$, sampling = poisson, $a = 1.00$

Quality: Ideal

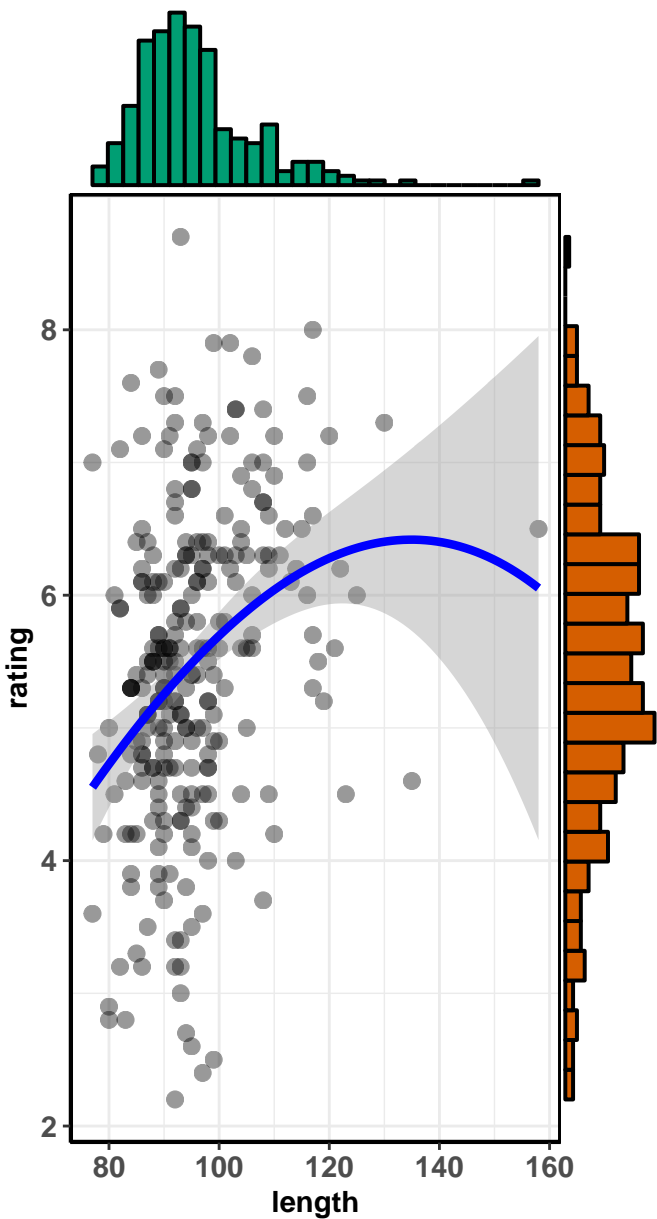
$\chi^2(42) = 155.36, p = < 0.001, V = 0.11, Cl_{95\%} [0.08, 0.11], n = 2132$



avor of null: $\log_e(BF_{01}) = -25.77$, sampling = poisson, $a = 1.00$

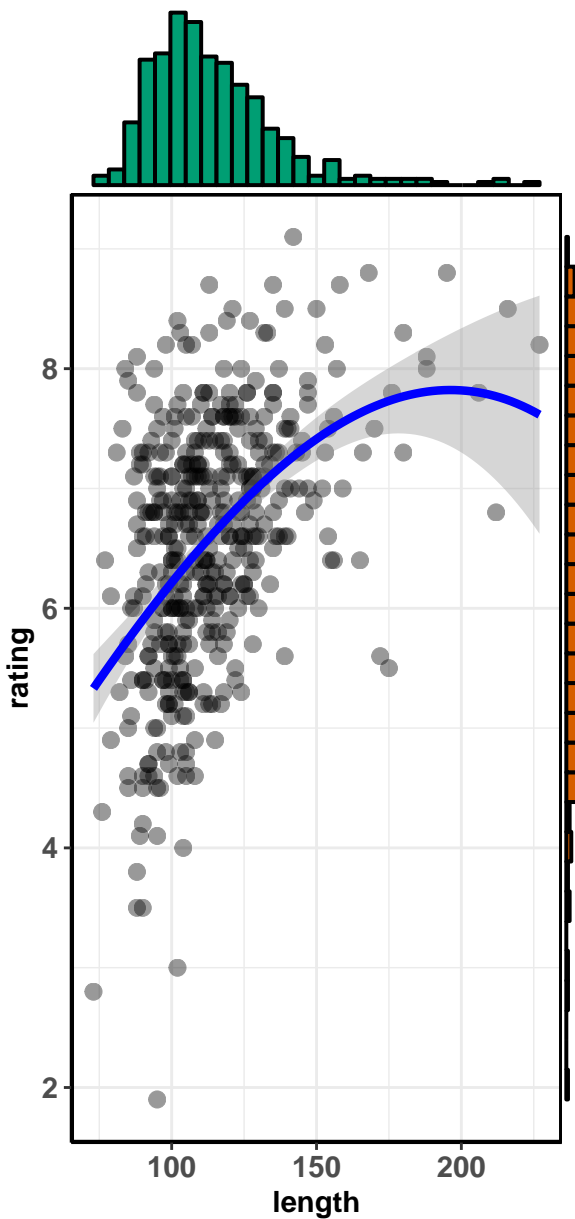
genre: Comedy

$\rho = < 0.001$, $r_{\text{Pearson}} = 0.31$, $\text{CI}_{95\%} [0.19$



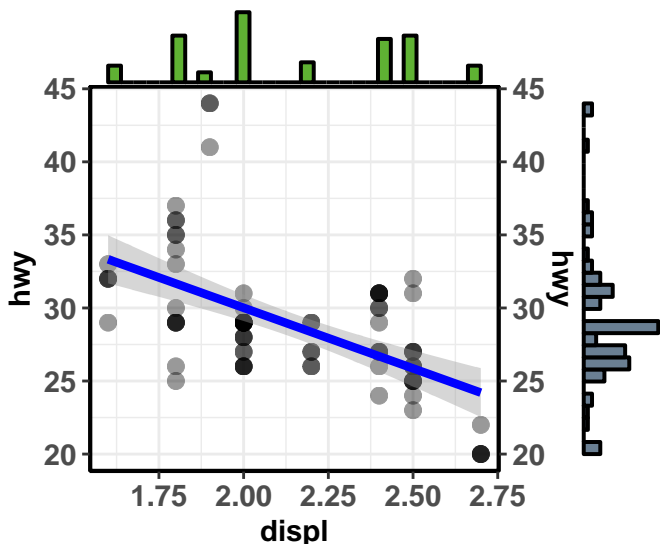
genre: Drama

$\rho = < 0.001$, $r_{\text{Pearson}} = 0.45$, $\text{CI}_{95\%} [0.3$



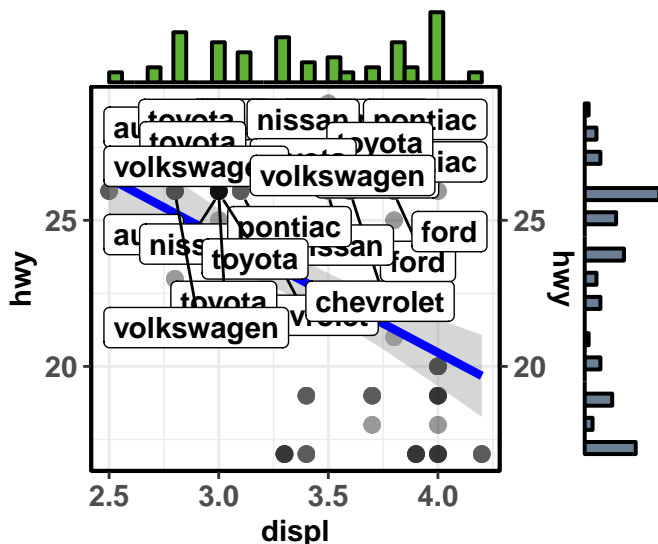
Cylinder count: 4

< 0.001, $\rho_{pb} = -0.61$, $CI_{95\%} [-0.$



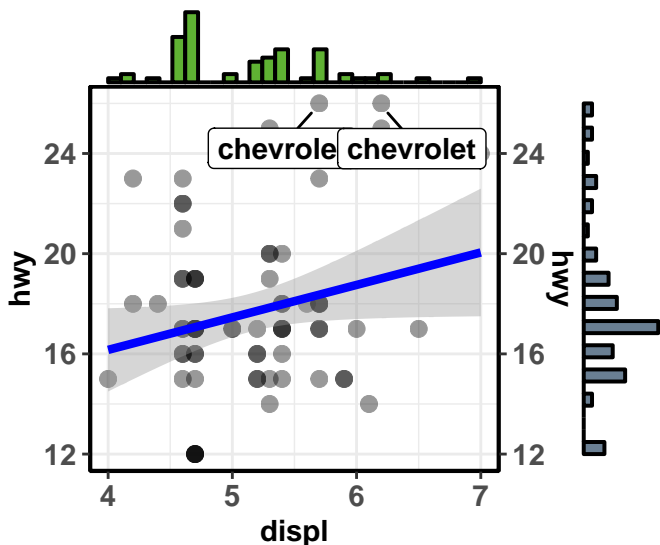
Cylinder count: 6

< 0.001, $\rho_{pb} = -0.50$, $CI_{95\%} [-0.$



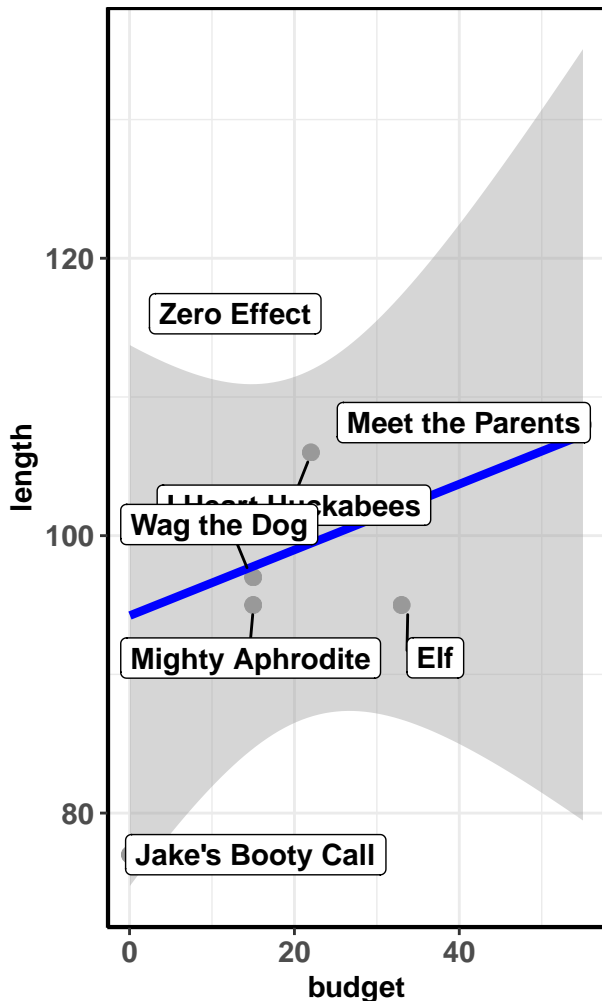
Cylinder count: 8

= 0.216, $\rho_{pb} = 0.15$, $CI_{95\%} [-0.1$



Genre: Comedy

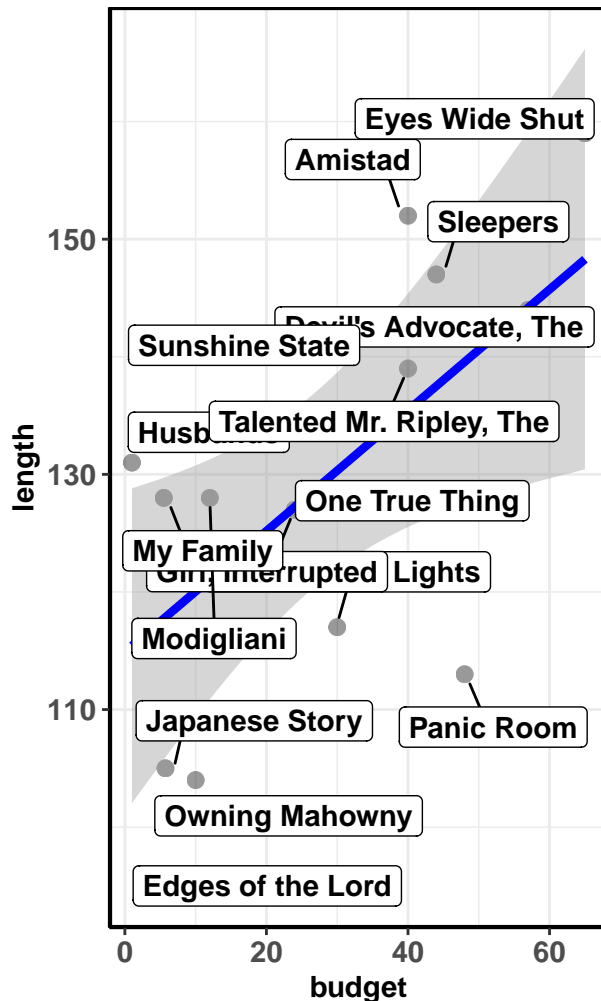
$t(14) = 0.84, p = 0.439, r_{\text{Pearson}} = 0.35, \text{CI}_{95\%} [-0.55, 0.14]$



In favor of null: $\log_e(\text{BF}_{01}) = 0.39, r_{\text{Cauchy}} = 0.71$

Genre: Drama

$t(14) = 2.67, p = 0.018, r_{\text{Pearson}} = 0.58, \text{CI}_{95\%} [0.12, 0.84]$



In favor of null: $\log_e(\text{BF}_{01}) = -1.45, r_{\text{Cauchy}} = 0.71$

All movies have IMDB rating equal to 7.

