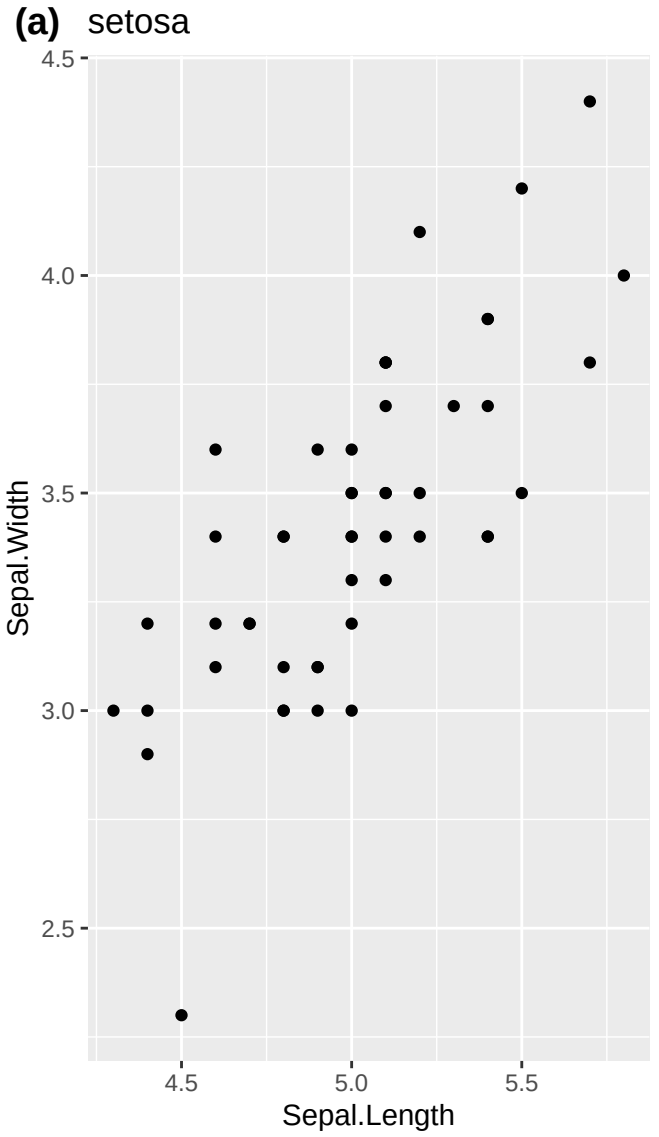
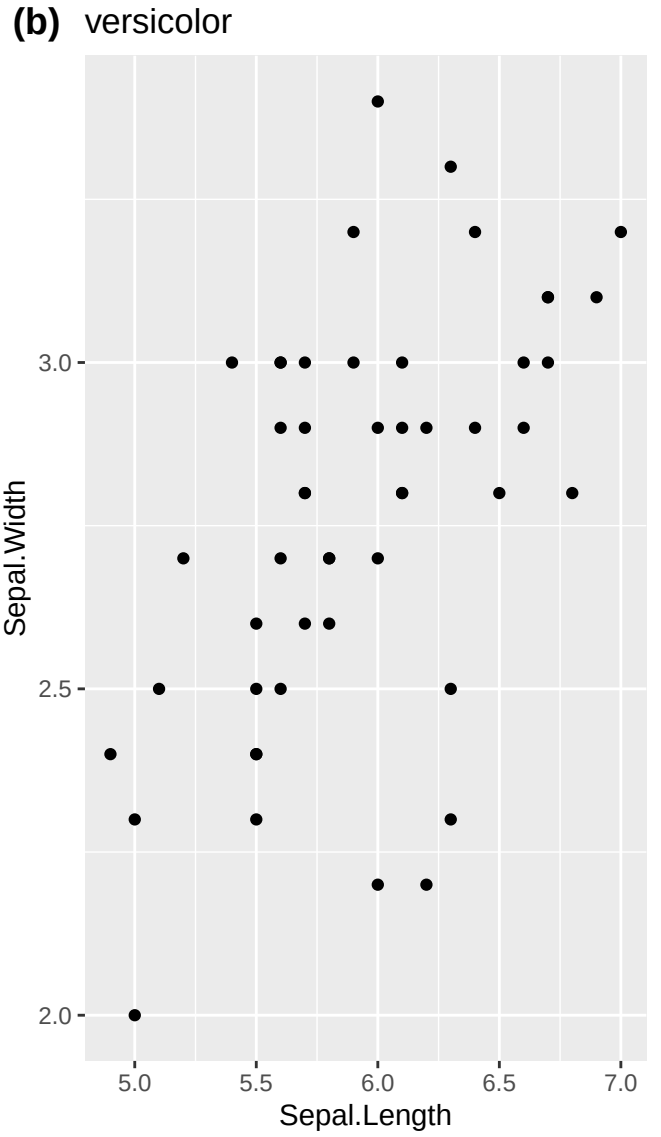
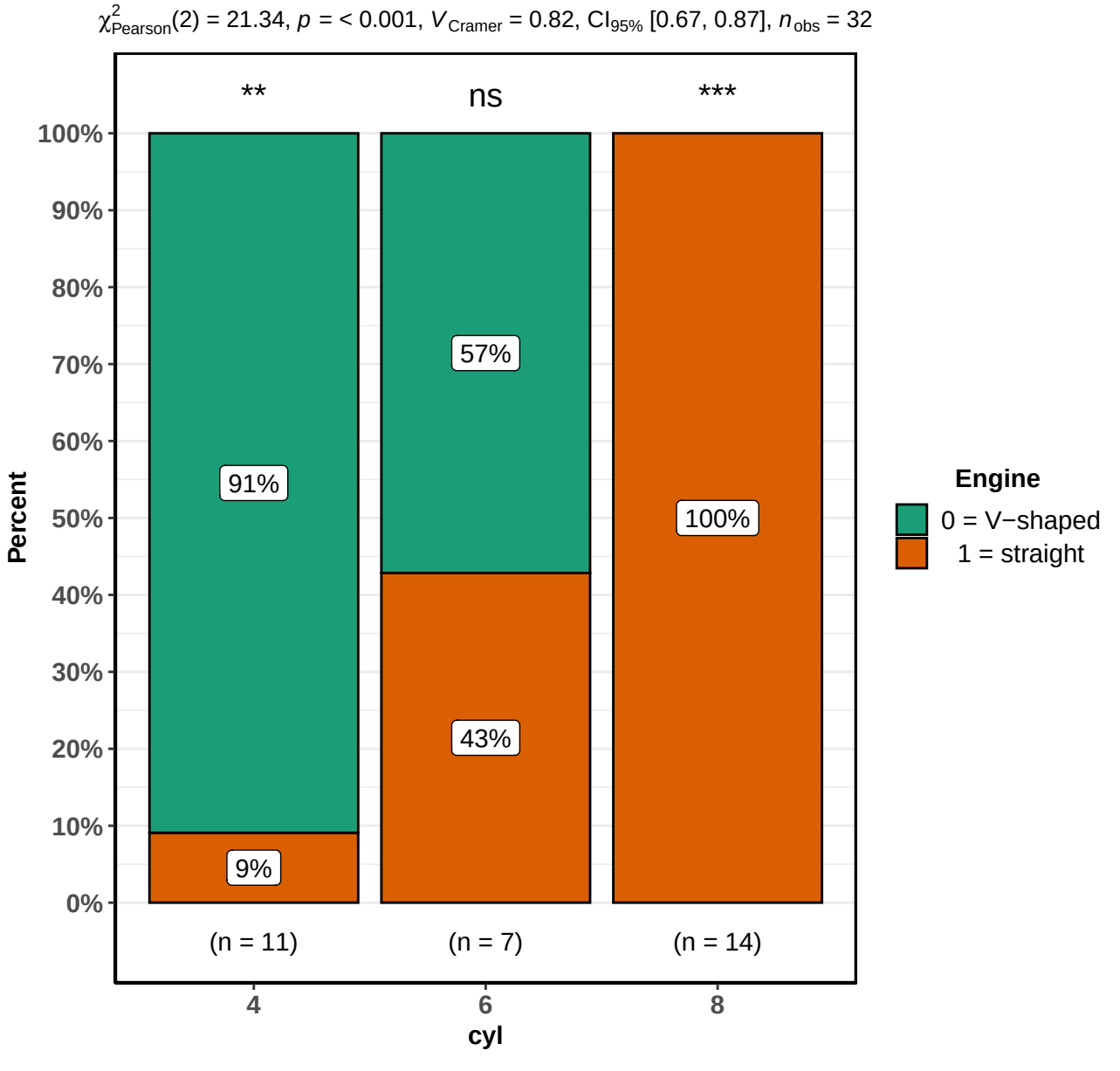
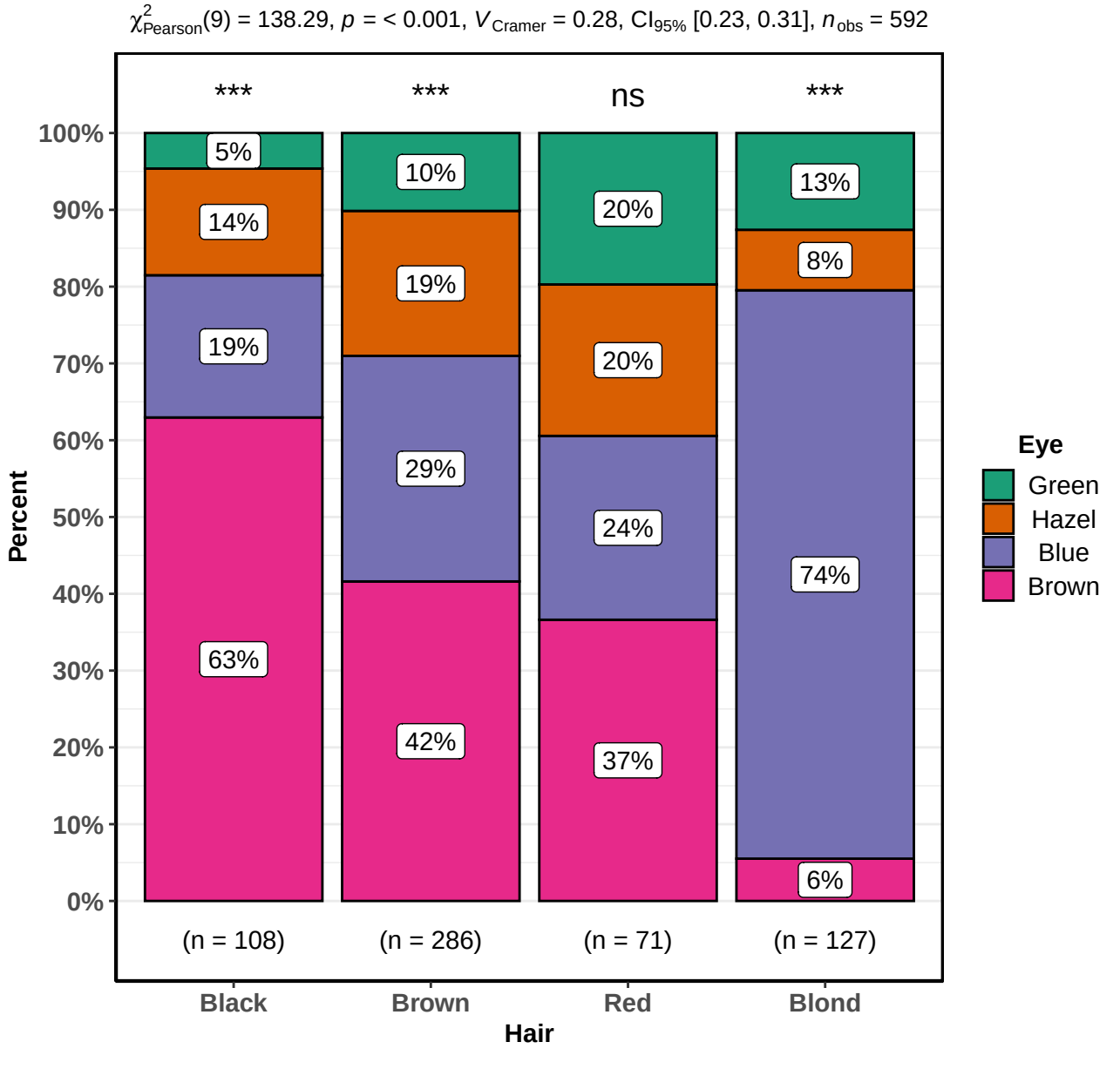
Dataset: Iris Flower dataset

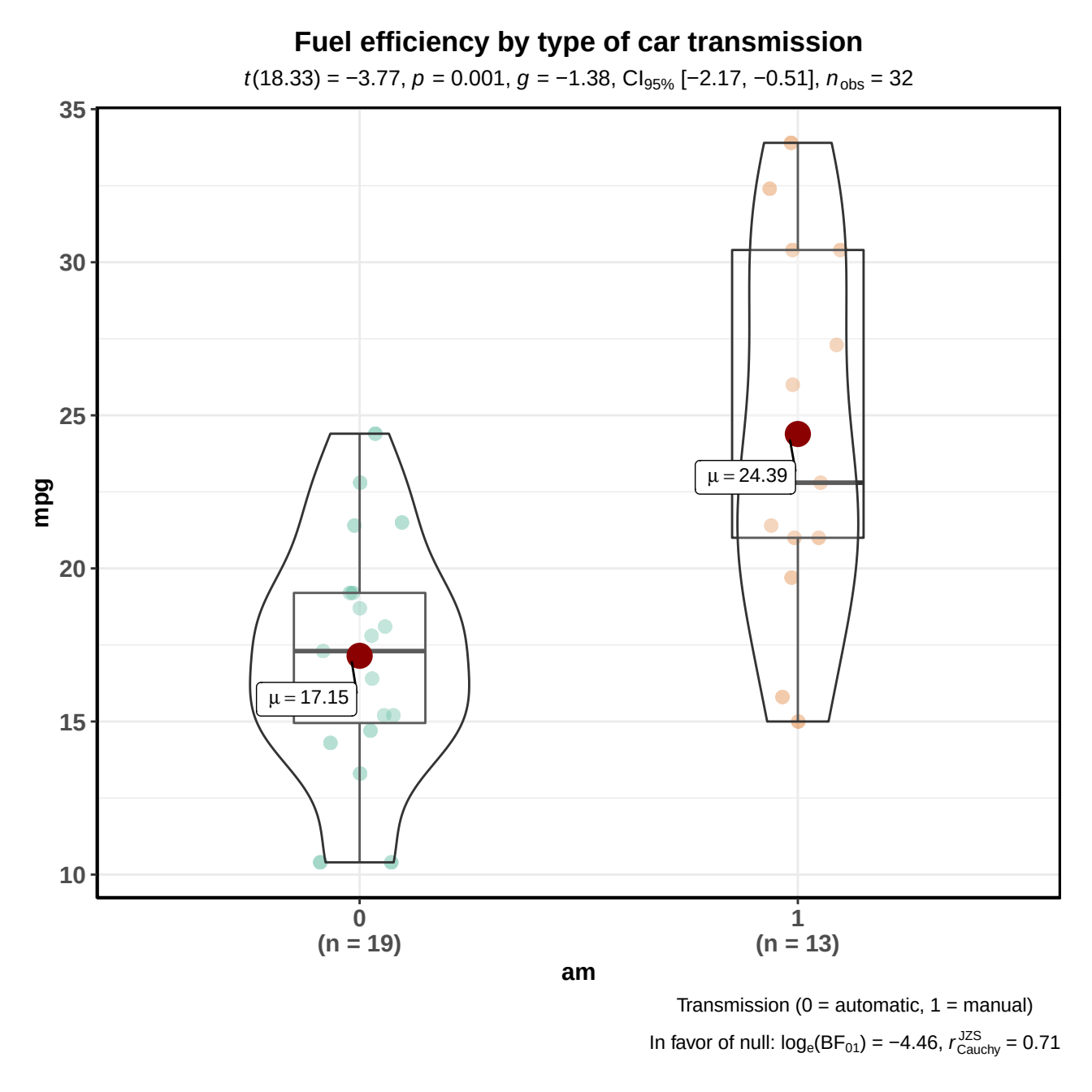


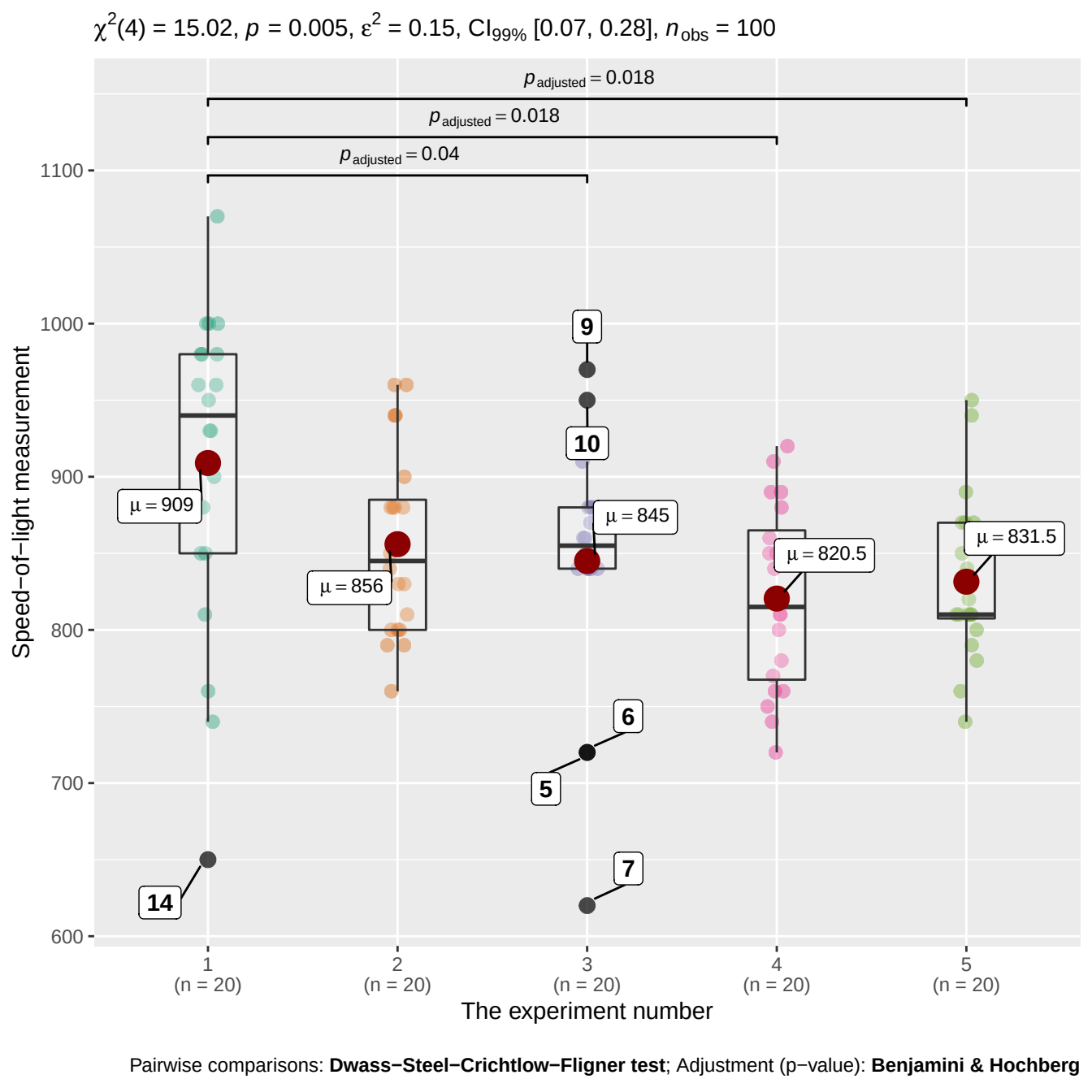


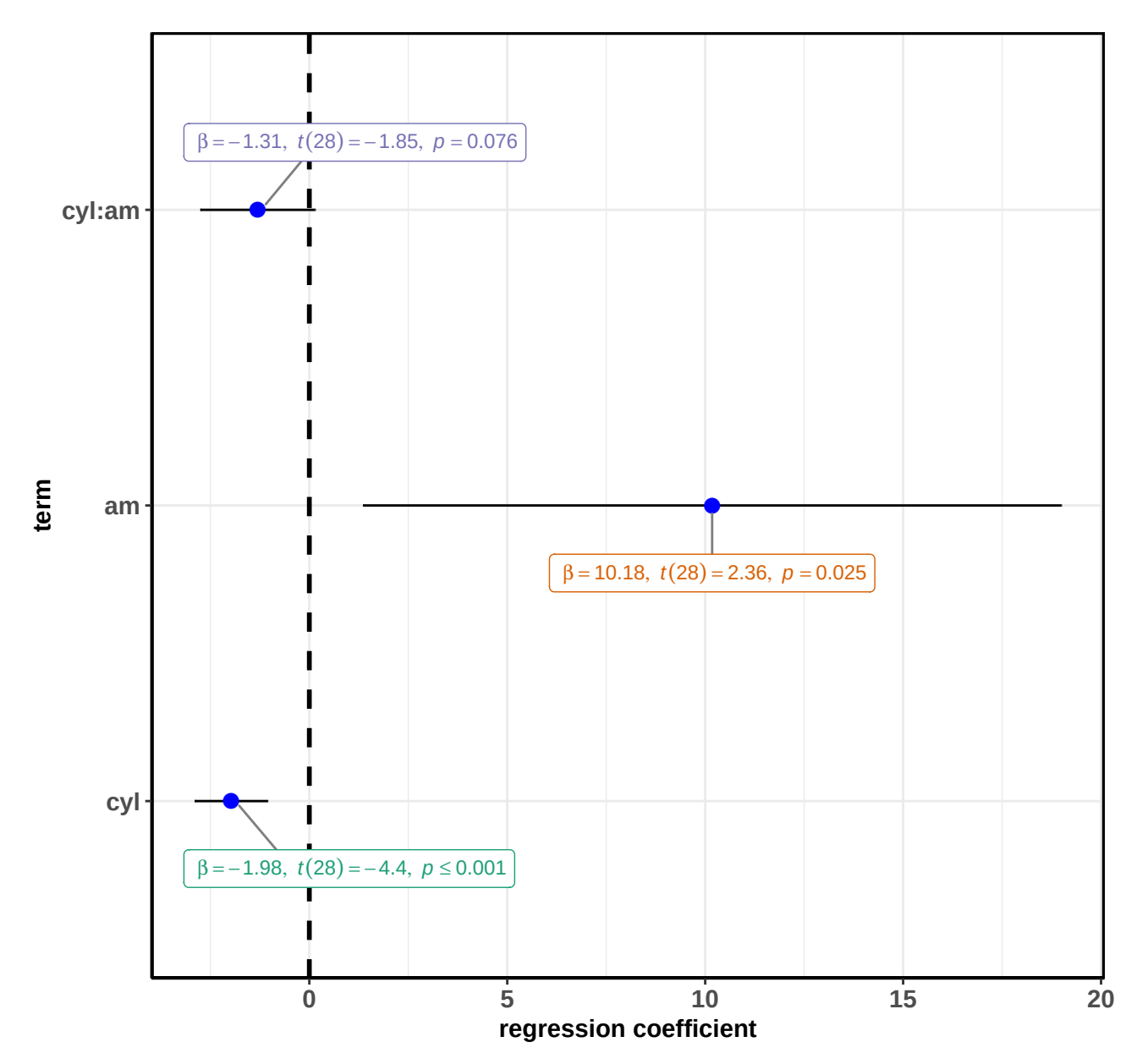
Note: Only two species of flower are displayed


$\chi^2_{Pearson}(2) = 21.34$, $p = < 0.001$, $V_{Cramer} = 0.82$, $CI_{95\%}$ [0.67, 0.87], $n_{obs} = 32$
**
ns
***
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Percent
91%
9%
57%
43%
100%
(n = 11)
(n = 7)
(n = 14)
4
6
8
cyl
Engine
0 = V−shaped
1 = straight
In favor of null: $\log_e(BF_{01}) = -10.31$, sampling = independent multinomial, $a = 1.00$

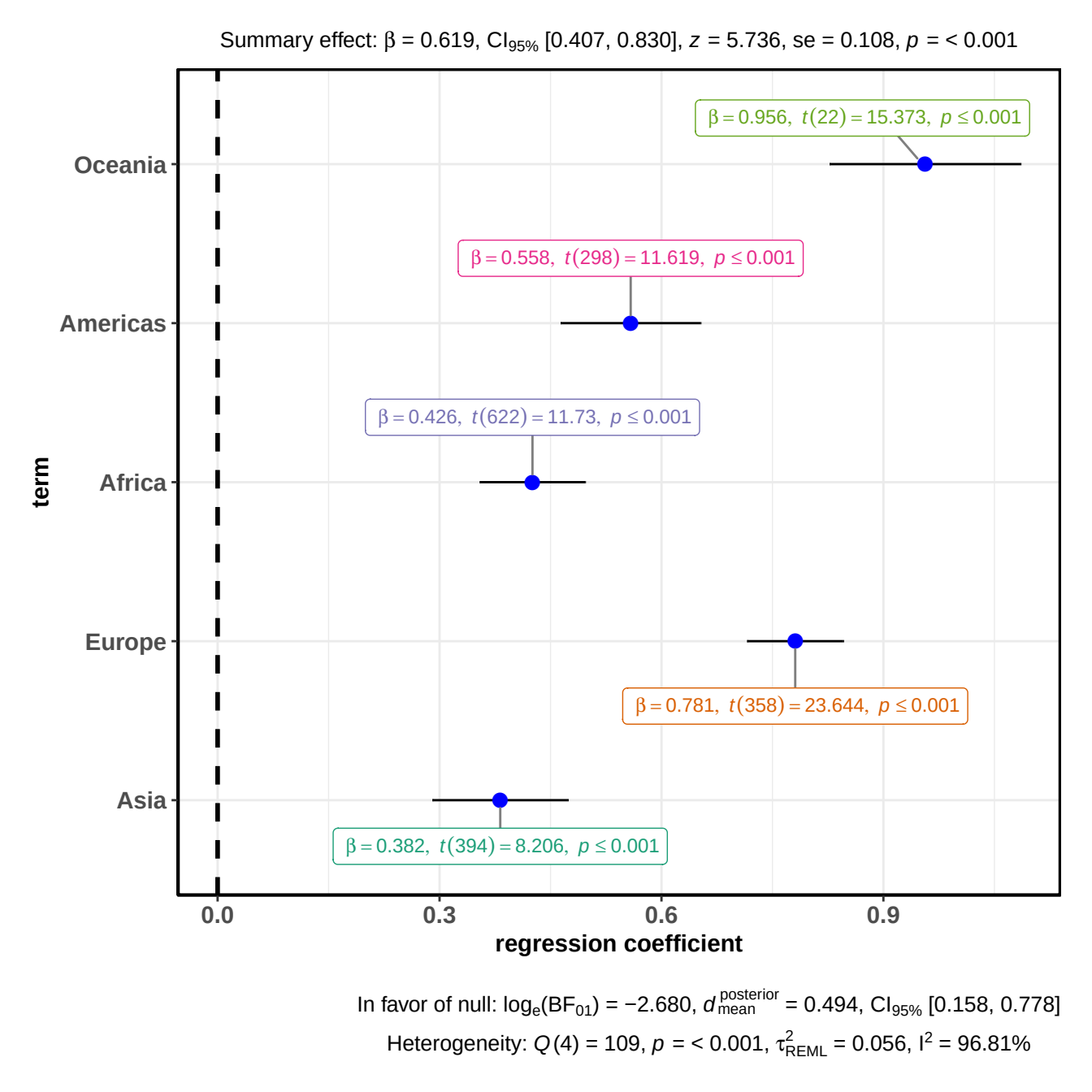

$\chi^2_{Pearson}(9) = 138.29$, $p = < 0.001$, $V_{Cramer} = 0.28$, $CI_{95\%}$ [0.23, 0.31], $n_{obs} = 592$
***
***
ns
***
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Percent
5%
14%
19%
63%
10%
19%
29%
42%
20%
20%
24%
37%
13%
8%
74%
6%
(n = 108)
(n = 286)
(n = 71)
(n = 127)
Black
Brown
Red
Blond
Hair
Eye
Green
Hazel
Blue
Brown
In favor of null: $\log_e(BF_{01}) = -56.78$, sampling = independent multinomial, $a = 1.00$

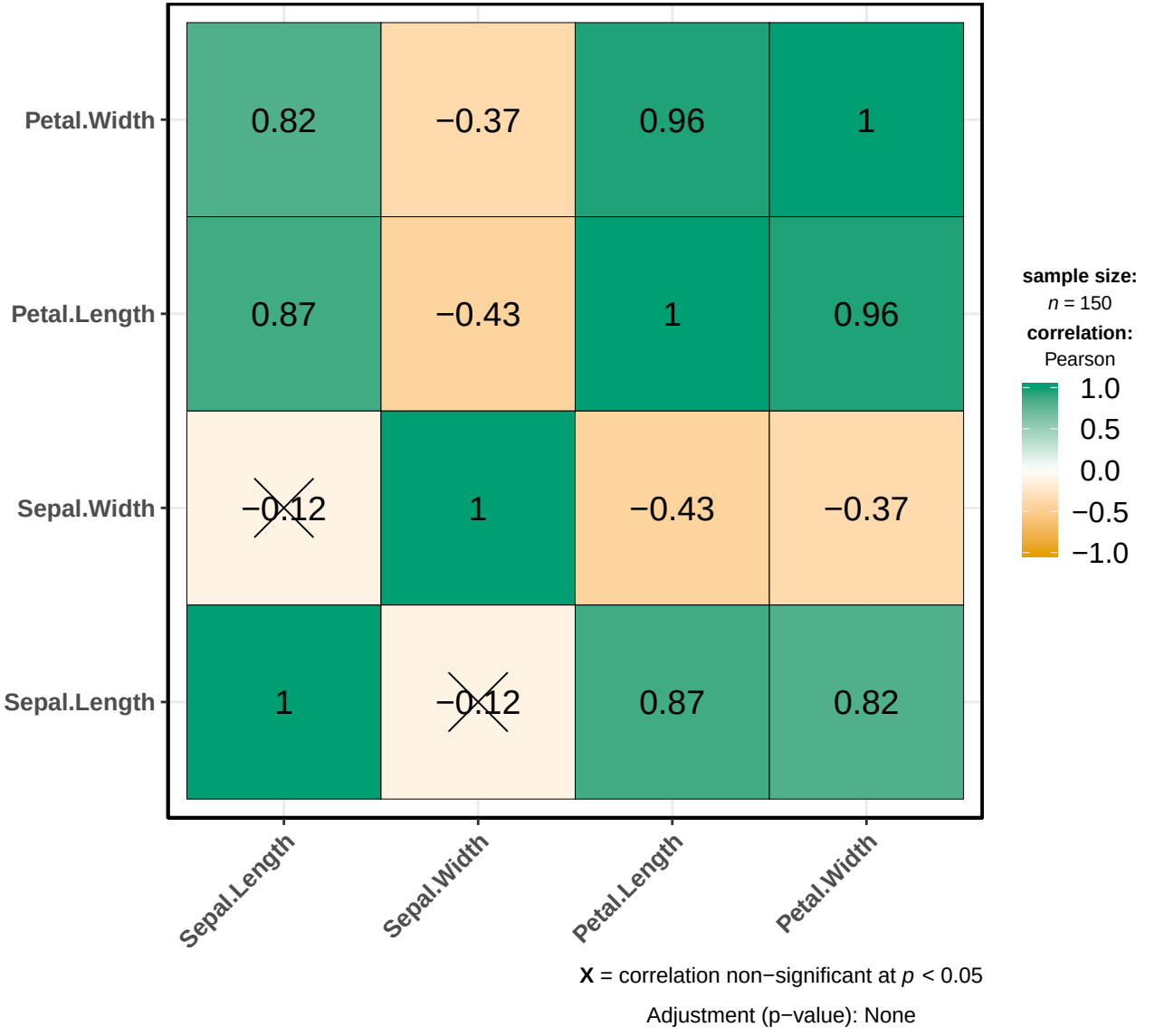

Fuel efficiency by type of car transmission
t(18.33) = −3.77, p = 0.001, g = −1.38, CI95% [−2.17, −0.51], nobs = 32
mpg
35
30
25
20
15
10
μ = 17.15
μ = 24.39
0
(n = 19)
1
(n = 13)
am
Transmission (0 = automatic, 1 = manual)
In favor of null: log_e(BF01) = −4.46, r^JZS_Cauchy = 0.71

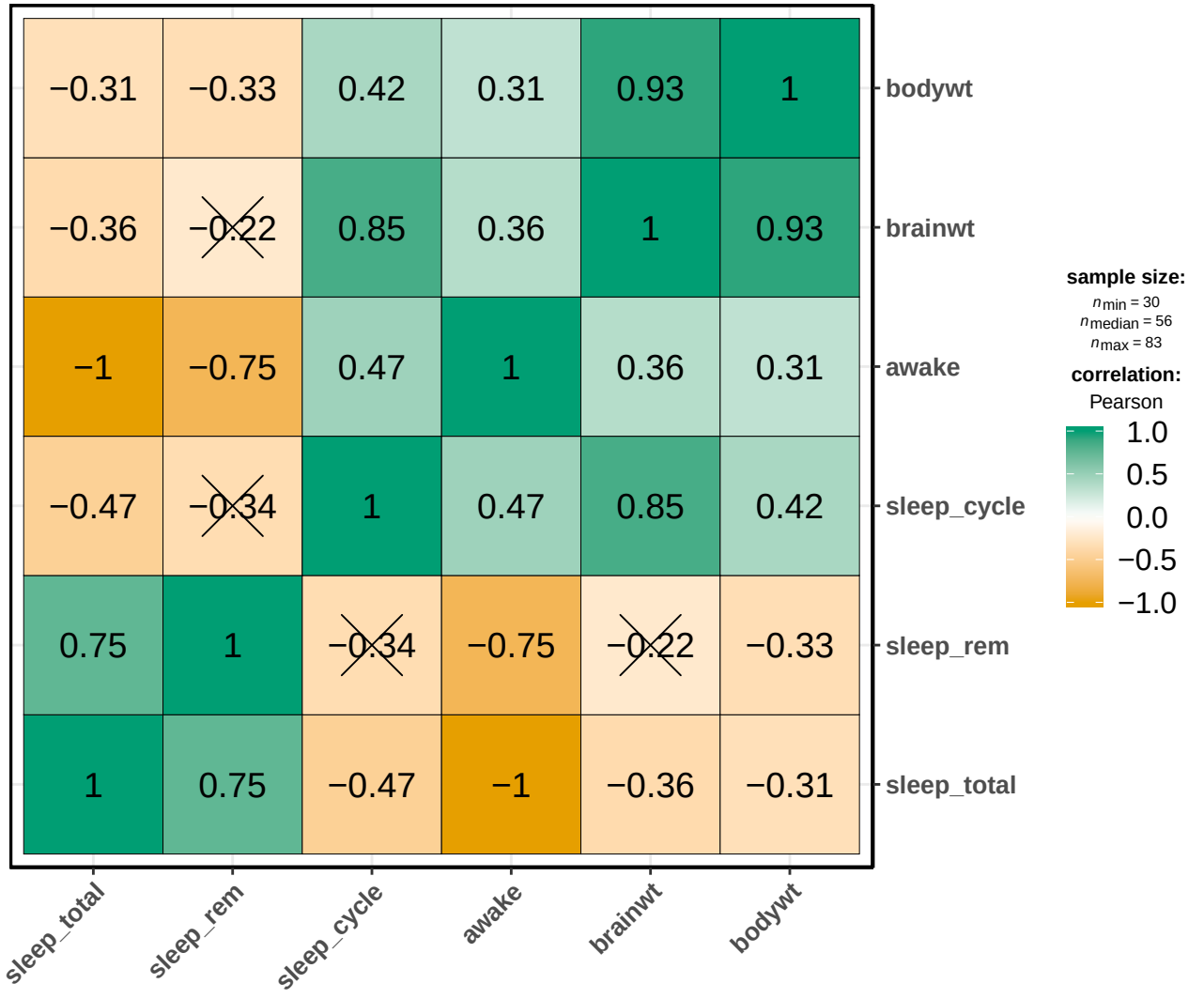

$\chi^2(4) = 15.02$, $p = 0.005$, $\varepsilon^2 = 0.15$, $CI_{99\%}$ [0.07, 0.28], $n_{obs} = 100$
$p_{adjusted} = 0.018$
$p_{adjusted} = 0.018$
$p_{adjusted} = 0.04$
Speed−of−light measurement
1100
1000
900
800
700
600
μ = 909
μ = 856
μ = 845
μ = 820.5
μ = 831.5
9
10
6
5
7
14
1 (n = 20)
2 (n = 20)
3 (n = 20)
4 (n = 20)
5 (n = 20)
The experiment number
Pairwise comparisons: **Dwass−Steel−Crichtlow−Fligner test**; Adjustment (p−value): **Benjamini & Hochberg**



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

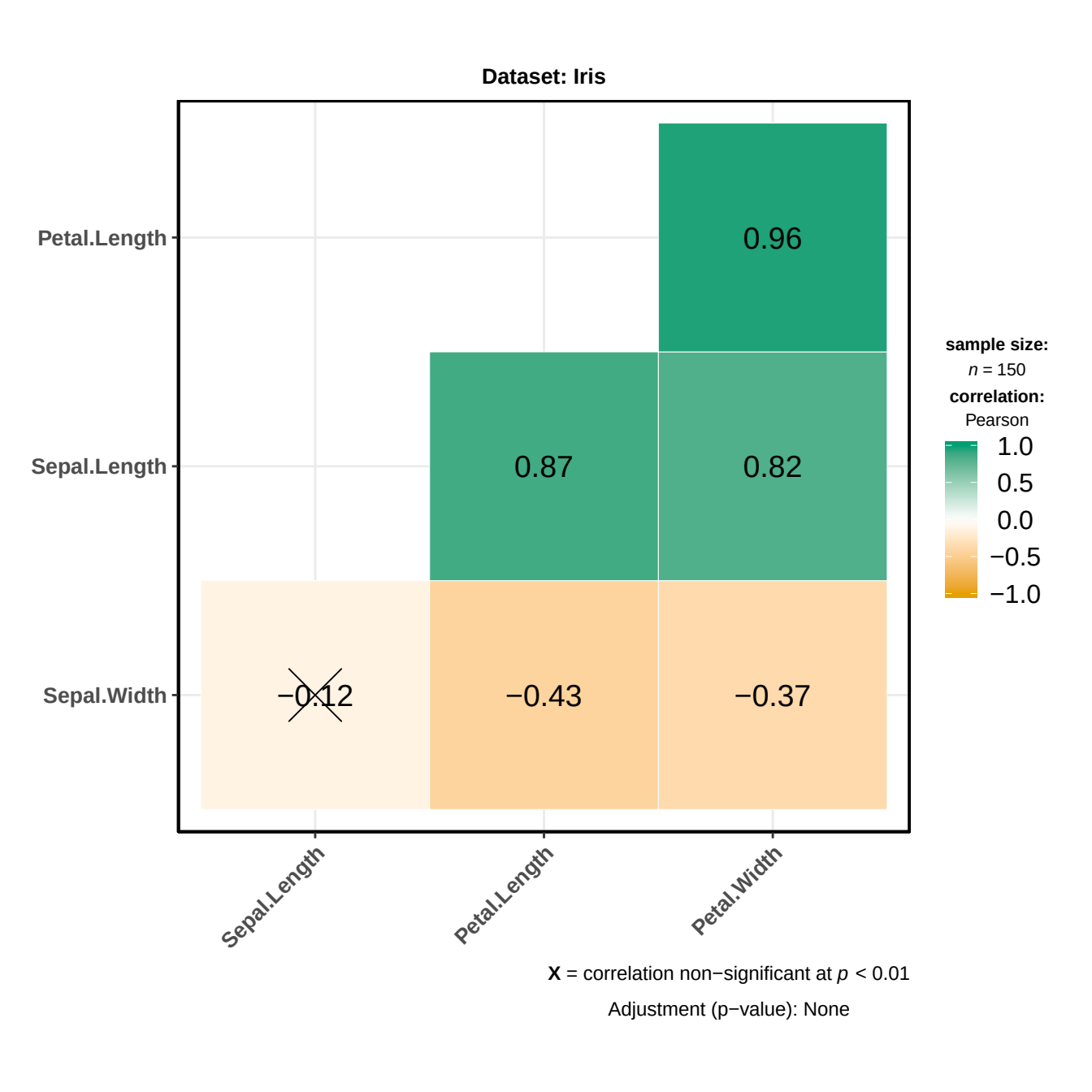

Summary effect: β = 0.619, CI95% [0.407, 0.830], z = 5.736, se = 0.108, p = < 0.001
β = 0.956, t(22) = 15.373, p ≤ 0.001
β = 0.558, t(298) = 11.619, p ≤ 0.001
β = 0.426, t(622) = 11.73, p ≤ 0.001
β = 0.781, t(358) = 23.644, p ≤ 0.001
β = 0.382, t(394) = 8.206, p ≤ 0.001
Oceania
Americas
Africa
Europe
Asia
term
0.0
0.3
0.6
0.9
regression coefficient
In favor of null: log_e(BF_01) = −2.680, d^posterior_mean = 0.494, CI95% [0.158, 0.778]
Heterogeneity: Q(4) = 109, p = < 0.001, τ²_REML = 0.056, I² = 96.81%

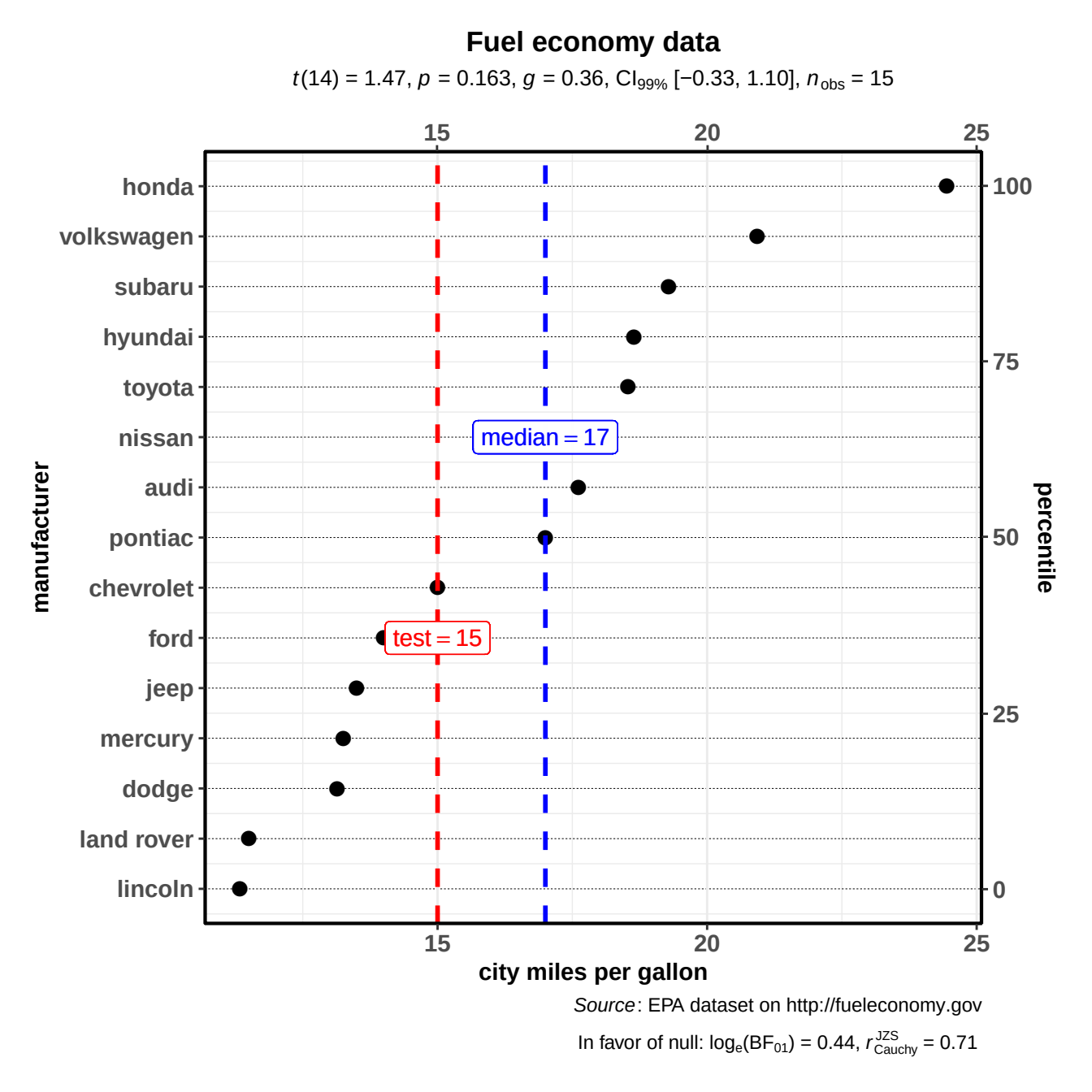

Petal.Width
Petal.Length
Sepal.Width
Sepal.Length
0.82
−0.37
0.96
1
0.87
−0.43
1
0.96
−0.12
1
−0.43
−0.37
1
−0.12
0.87
0.82
Sepal.Length
Sepal.Width
Petal.Length
Petal.Width
sample size:
n = 150
correlation:
Pearson
1.0
0.5
0.0
−0.5
−1.0
X = correlation non−significant at p < 0.05
Adjustment (p−value): None

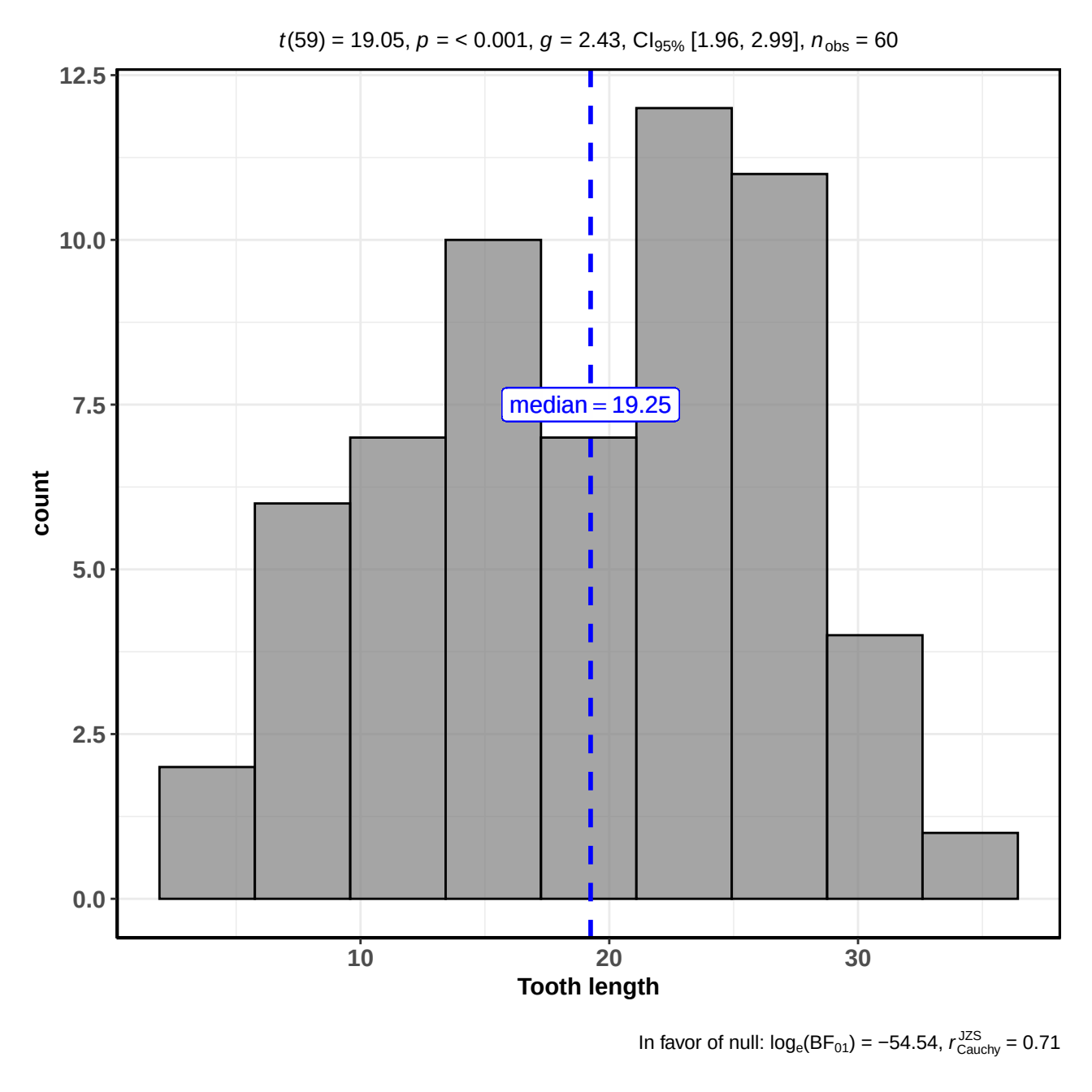


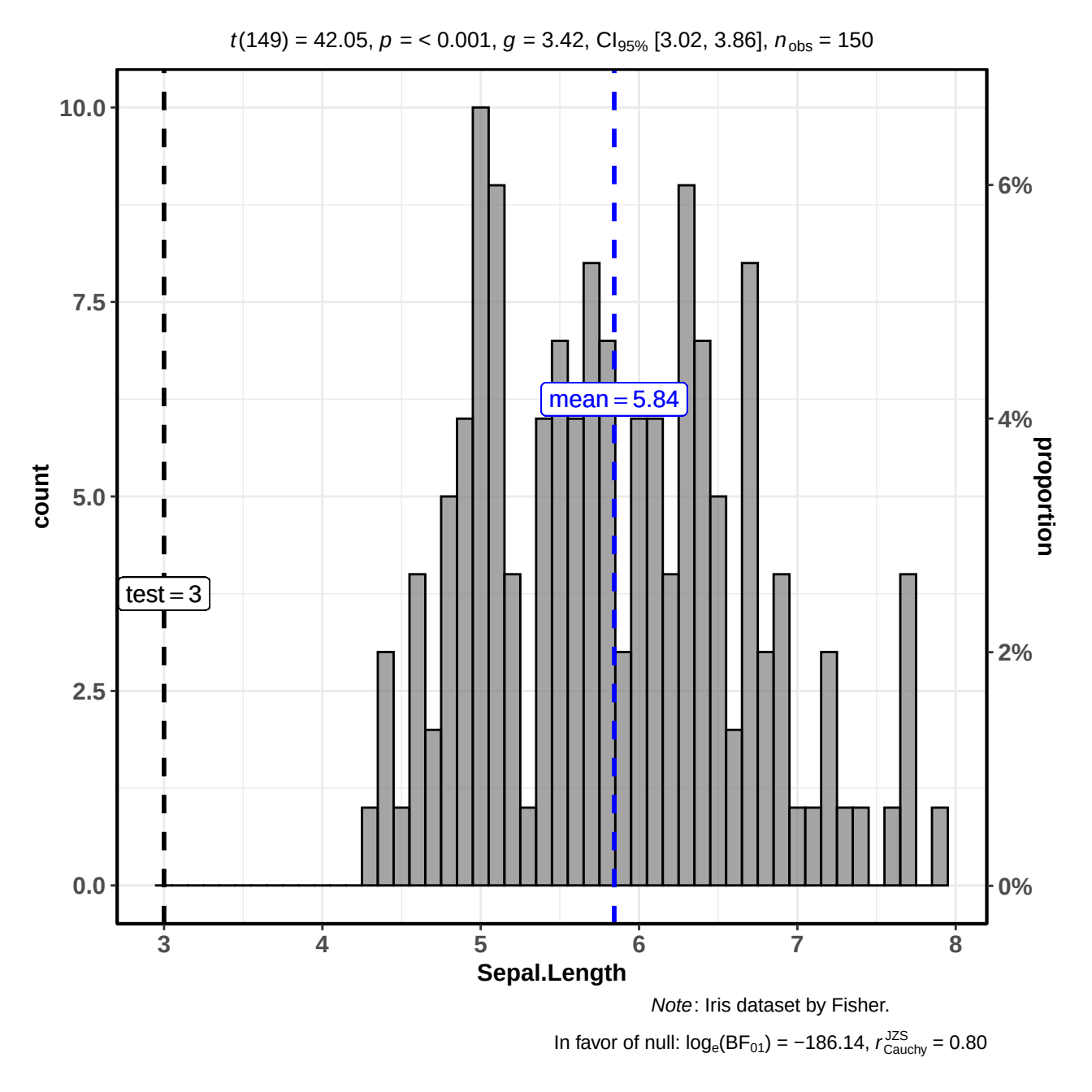
X = correlation non−significant at $p < 0.05$

Adjustment (p−value): None

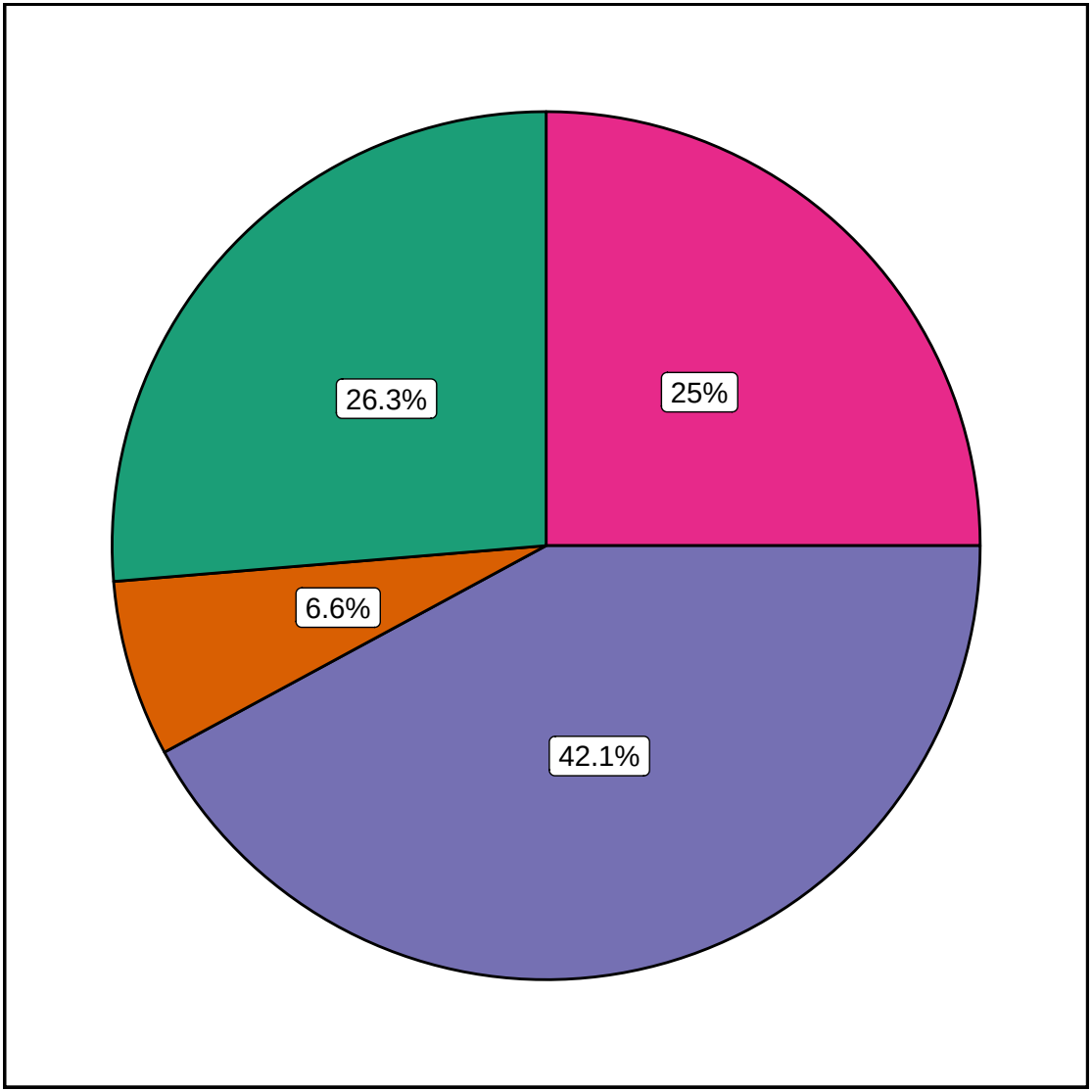

Dataset: Iris
Petal.Length
Sepal.Length
Sepal.Width
0.96
0.87
0.82
−0.12
−0.43
−0.37
Sepal.Length
Petal.Length
Petal.Width
sample size:
n = 150
correlation:
Pearson
1.0
0.5
0.0
−0.5
−1.0
X = correlation non−significant at p < 0.01
Adjustment (p−value): None


Fuel economy data
t(14) = 1.47, p = 0.163, g = 0.36, CI99% [−0.33, 1.10], nobs = 15
15
20
25
honda
volkswagen
subaru
hyundai
toyota
nissan
audi
pontiac
chevrolet
ford
jeep
mercury
dodge
land rover
lincoln
median = 17
test = 15
manufacturer
100
75
50
25
0
percentile
15
20
25
city miles per gallon
Source: EPA dataset on http://fueleconomy.gov
In favor of null: log_e(BF01) = 0.44, r^JZS_Cauchy = 0.71

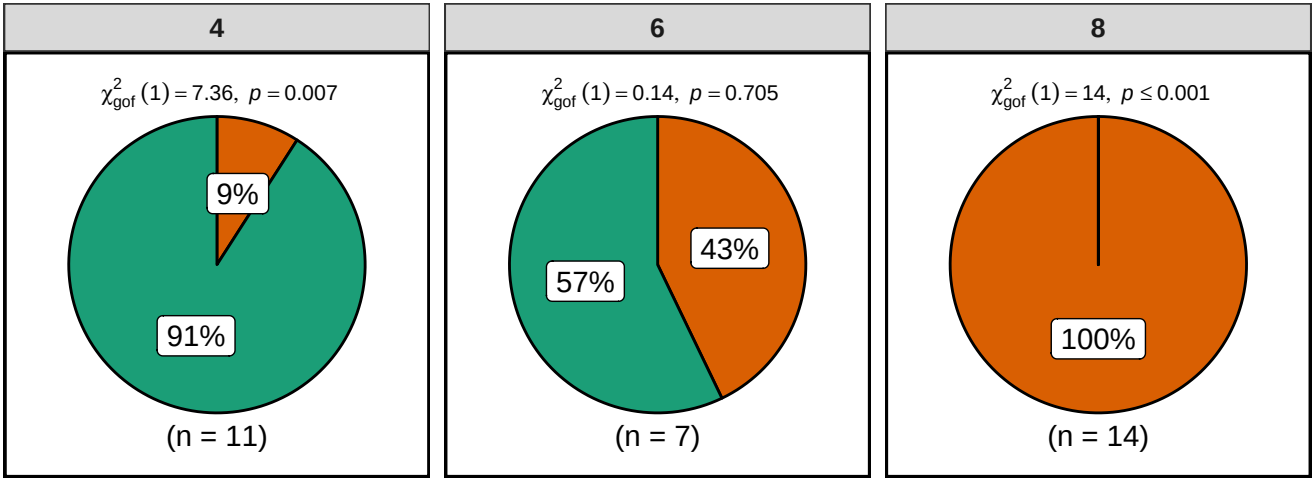

$t(59) = 19.05$, $p = < 0.001$, $g = 2.43$, $CI_{95\%}$ [1.96, 2.99], $n_{obs} = 60$
12.5
10.0
7.5
5.0
2.5
0.0
count
median = 19.25
10
20
30
Tooth length
In favor of null: $\log_e(BF_{01}) = -54.54$, $r^{JZS}_{Cauchy} = 0.71$


$t(149) = 42.05$, $p = < 0.001$, $g = 3.42$, $CI_{95\%}$ [3.02, 3.86], $n_{obs} = 150$
10.0
7.5
5.0
2.5
0.0
count
6%
4%
2%
0%
proportion
mean = 5.84
test = 3
3
4
5
6
7
8
Sepal.Length
Note: Iris dataset by Fisher.
In favor of null: $\log_e(BF_{01}) = -186.14$, $r^{JZS}_{Cauchy} = 0.80$

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

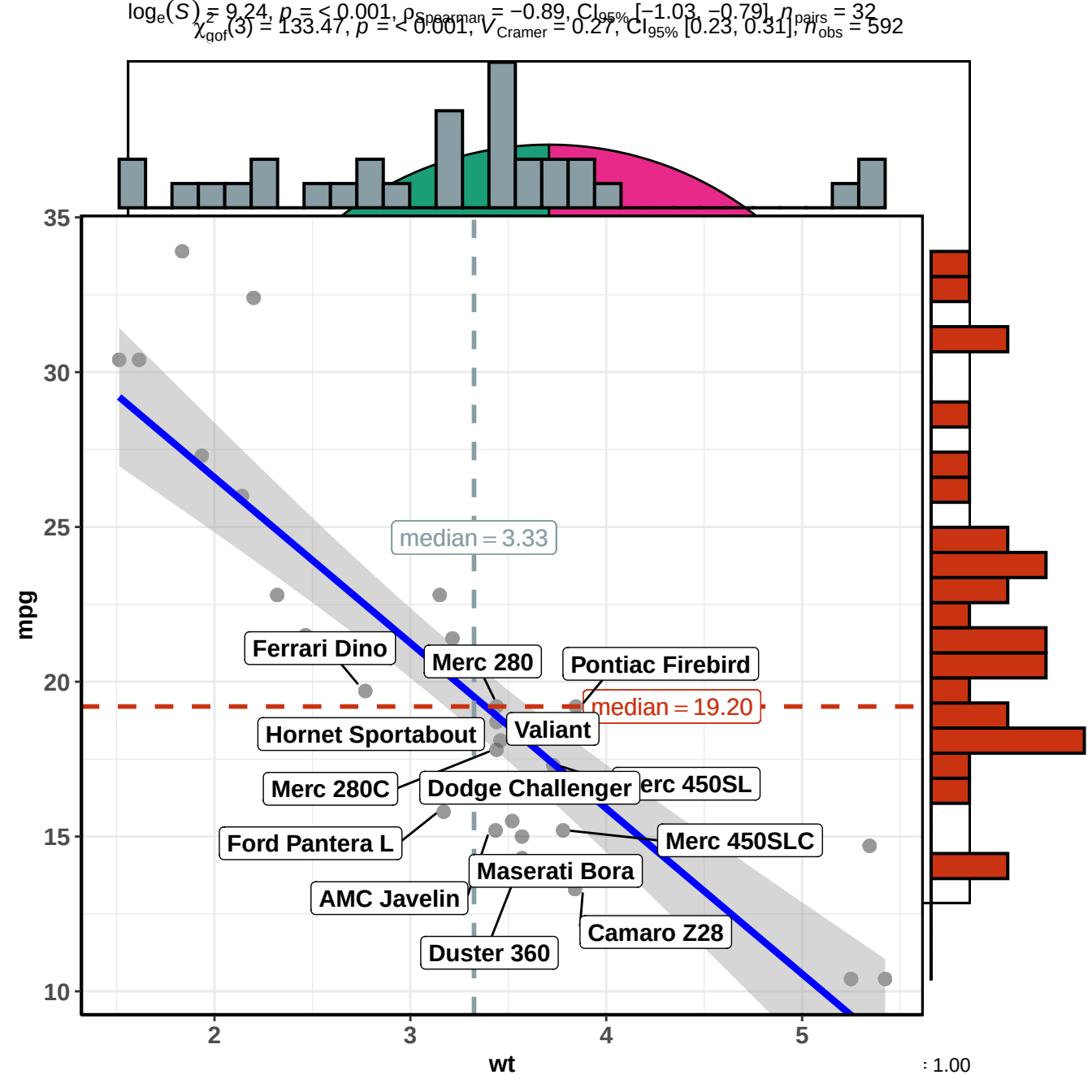


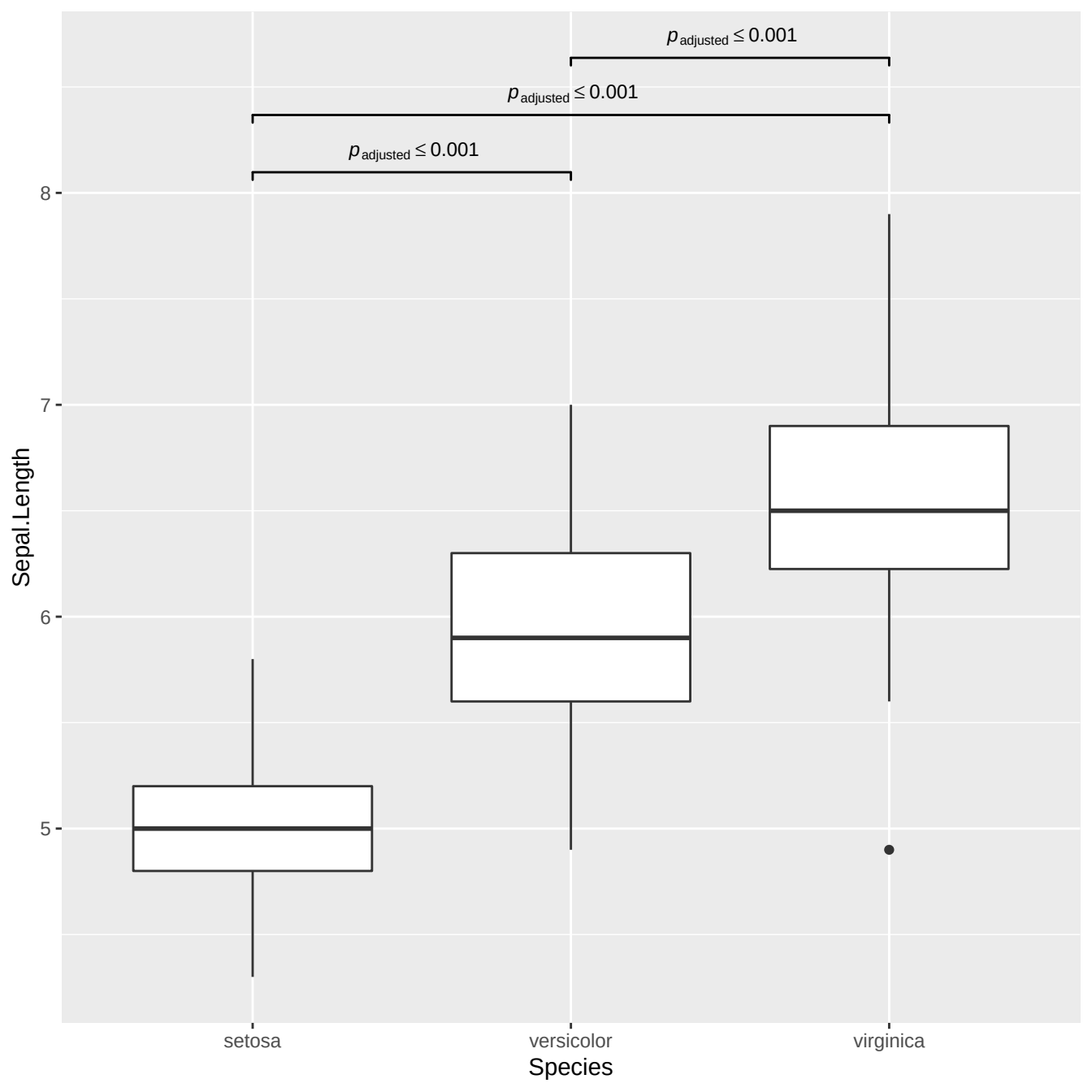
$\chi^2_{Pearson}(2) = 21.34$, $p = < 0.001$, $V_{Cramer} = 0.82$, $CI_{95\%}$ [0.57, 0.94], $n_{obs} = 32$

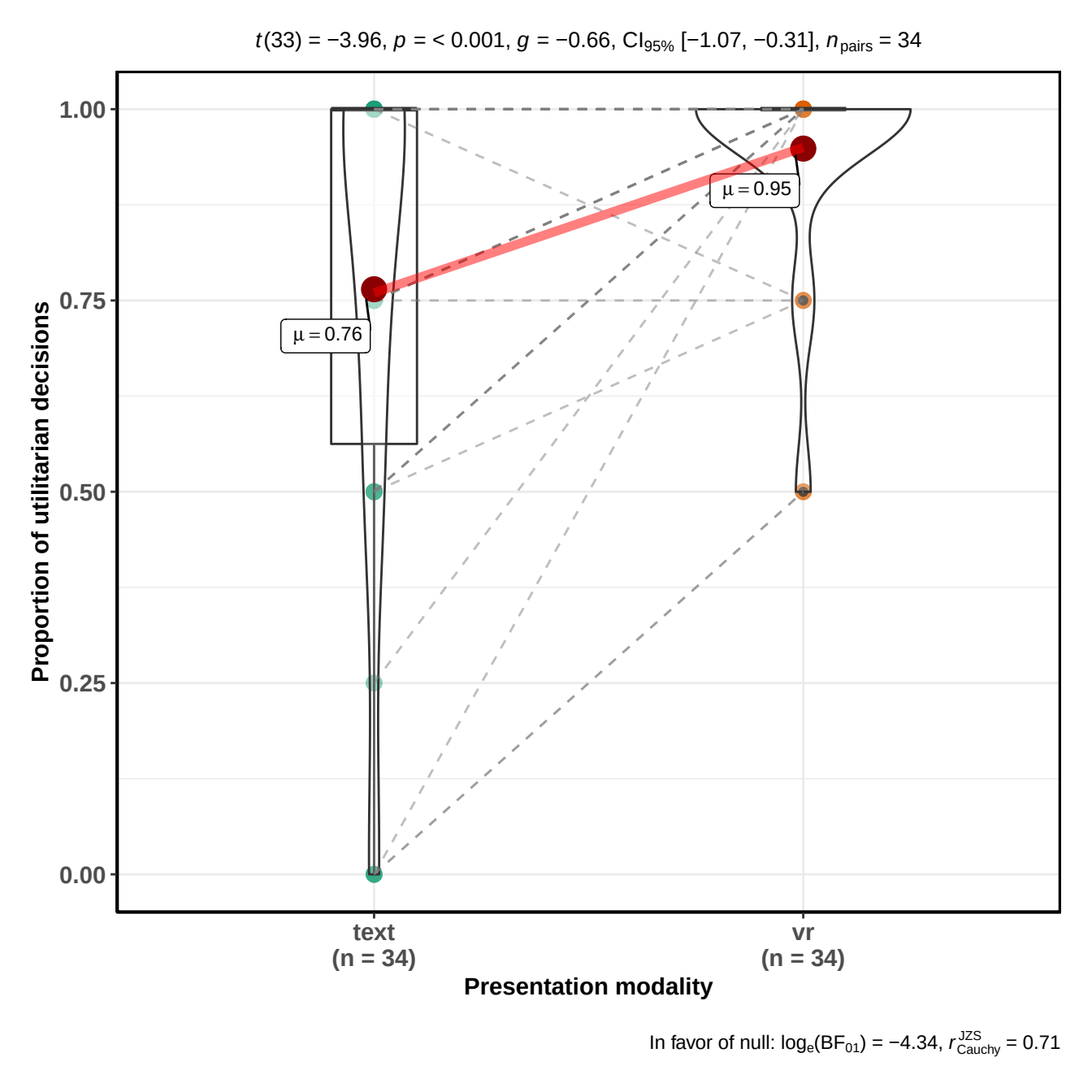


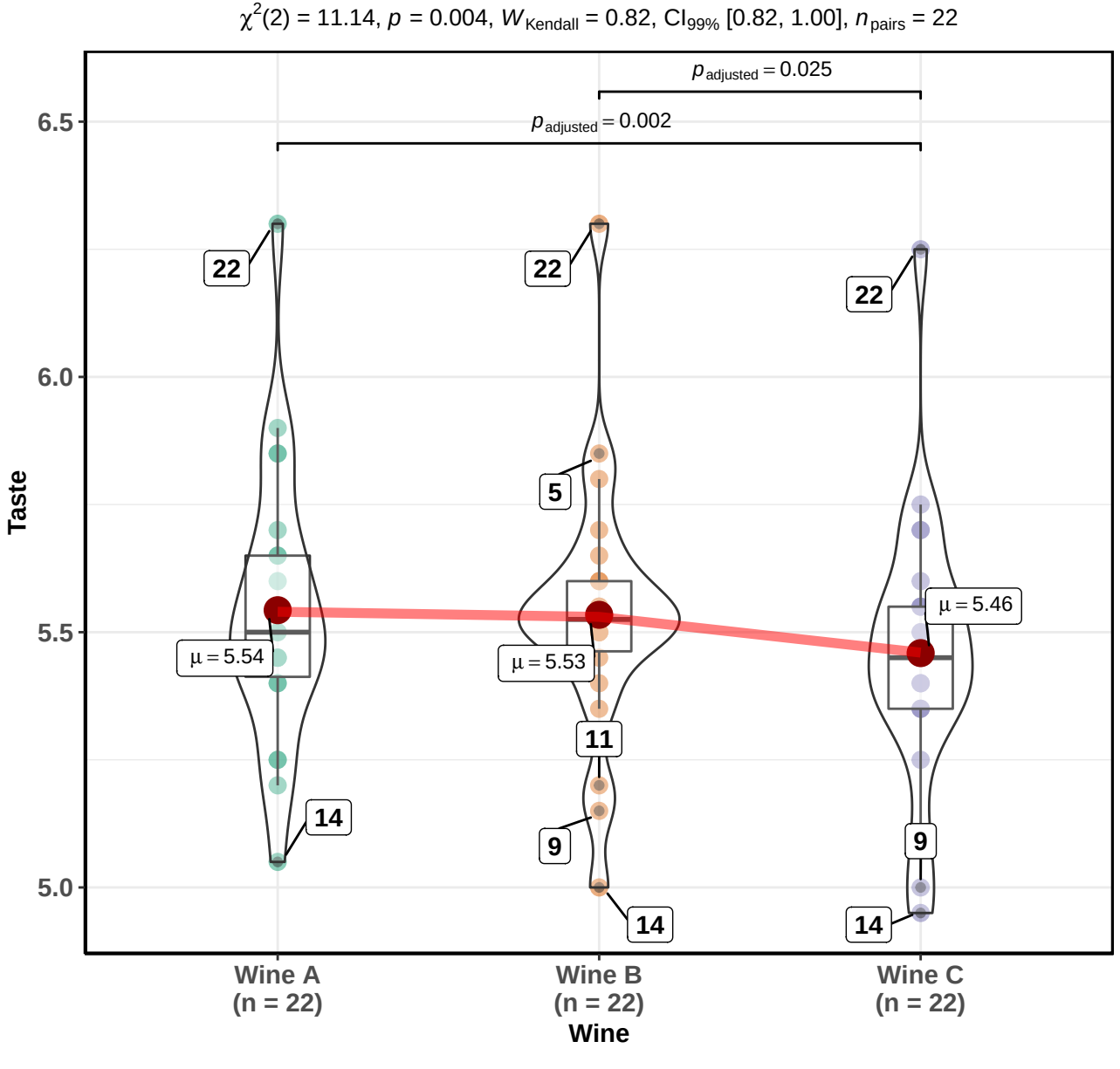
Engine 0 = V−shaped 1 = straight

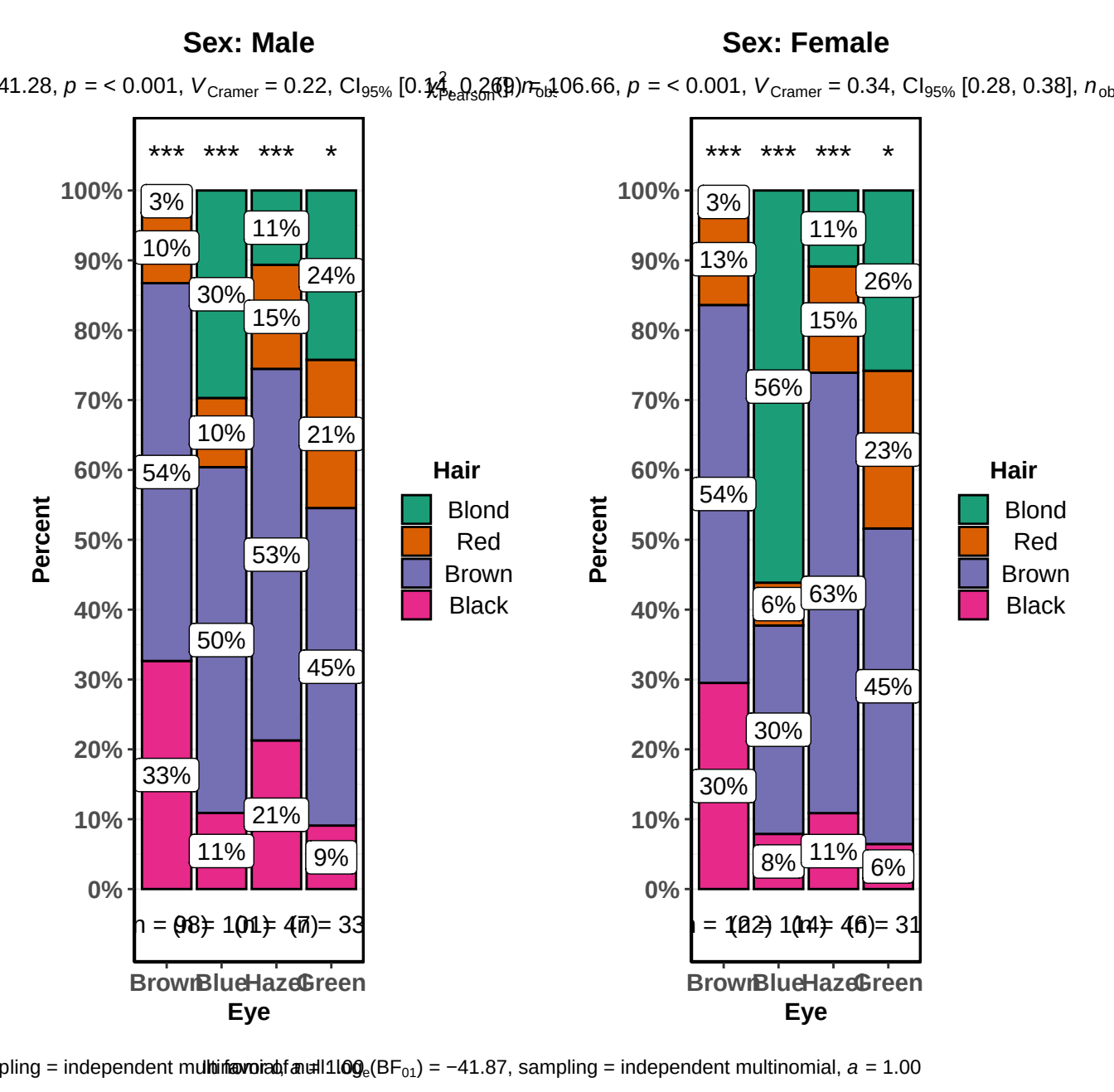
In favor of null: $\log_e(BF_{01}) = -10.31$, sampling = independent multinomial, $a = 1.00$


log_e(S) = 9.24, p = < 0.001, ρ_Spearman = −0.89, CI_95% [−1.03, −0.79], n_pairs = 32
χ²_gof(3) = 133.47, p = < 0.001, V_Cramer = 0.27, CI_95% [0.23, 0.31], n_obs = 592
median = 3.33
median = 19.20
Ferrari Dino
Merc 280
Pontiac Firebird
Hornet Sportabout
Valiant
Merc 280C
Dodge Challenger
erc 450SL
Ford Pantera L
Merc 450SLC
Maserati Bora
AMC Javelin
Camaro Z28
Duster 360
mpg
wt
35
30
25
20
15
10
2
3
4
5
: 1.00


$p_{adjusted} \leq 0.001$
$p_{adjusted} \leq 0.001$
$p_{adjusted} \leq 0.001$
8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species

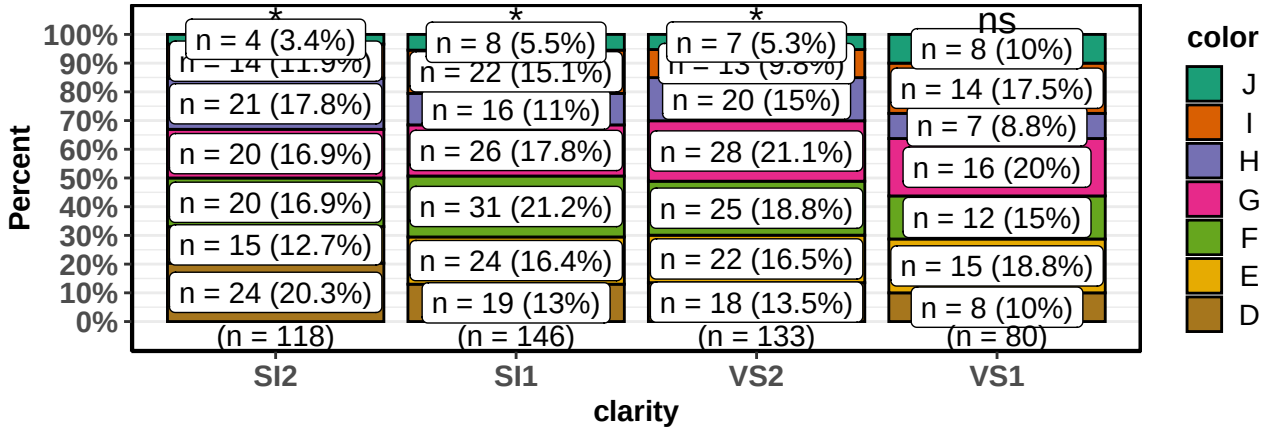

$t(33) = -3.96$, $p = < 0.001$, $g = -0.66$, $CI_{95\%}$ [−1.07, −0.31], $n_{pairs} = 34$
1.00
0.75
0.50
0.25
0.00
Proportion of utilitarian decisions
μ = 0.76
μ = 0.95
text
(n = 34)
vr
(n = 34)
Presentation modality
In favor of null: $\log_e(BF_{01}) = -4.34$, $r^{JZS}_{Cauchy} = 0.71$


$\chi^2(2) = 11.14$, $p = 0.004$, $W_{Kendall} = 0.82$, $CI_{99\%}$ [0.82, 1.00], $n_{pairs} = 22$
$p_{adjusted} = 0.025$
$p_{adjusted} = 0.002$
Taste
6.5
6.0
5.5
5.0
22
22
22
5
11
9
14
9
14
μ = 5.54
μ = 5.53
μ = 5.46
Wine A
(n = 22)
Wine B
(n = 22)
Wine C
(n = 22)
Wine
Pairwise comparisons: **Durbin−Conover test**; Adjustment (p−value): **Holm**


Sex: Male
41.28, p = < 0.001, V Cramer = 0.22, CI95% [0.14, 0.26], n obs = 106.66, p = < 0.001, V Cramer = 0.34, CI95% [0.28, 0.38], n ob
Sex: Female
Percent
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
***
***
***
*
3%
10%
54%
33%
30%
10%
50%
11%
11%
15%
53%
21%
24%
21%
45%
9%
3%
13%
54%
30%
56%
6%
30%
8%
11%
15%
63%
11%
26%
23%
45%
6%
Brown
Blue
Hazel
Green
Eye
Hair
Blond
Red
Brown
Black
pling = independent multinomial, a = 1.00
ln favoring the null: log e(BF 01) = −41.87, sampling = independent multinomial, a = 1.00

Quality: Very Good

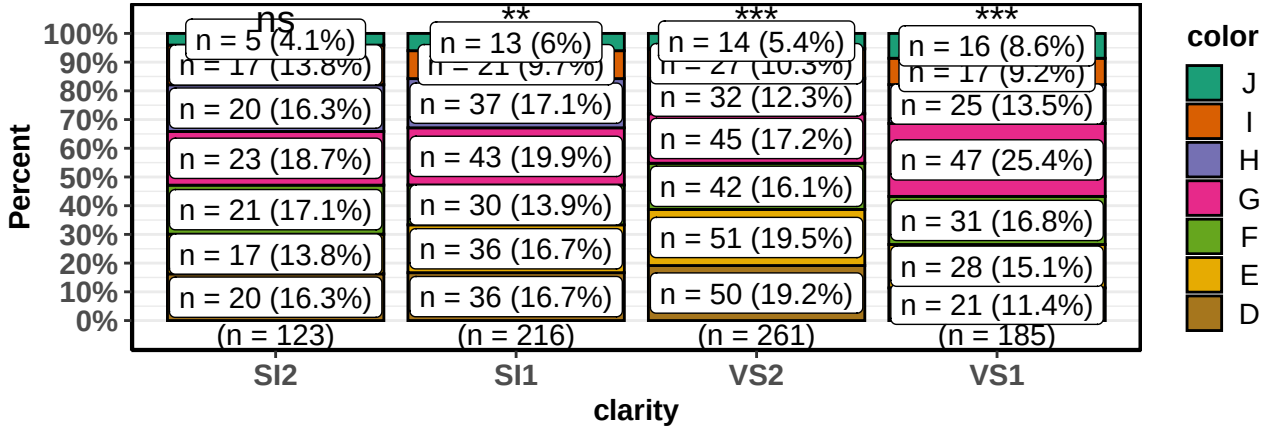
$\chi^2_{Pearson}(18) = 17.95$, $p = 0.459$, $V_{Cramer} = 0.11$, $CI_{95\%}$ [0.02, 0.11], $n_{obs} = 477$



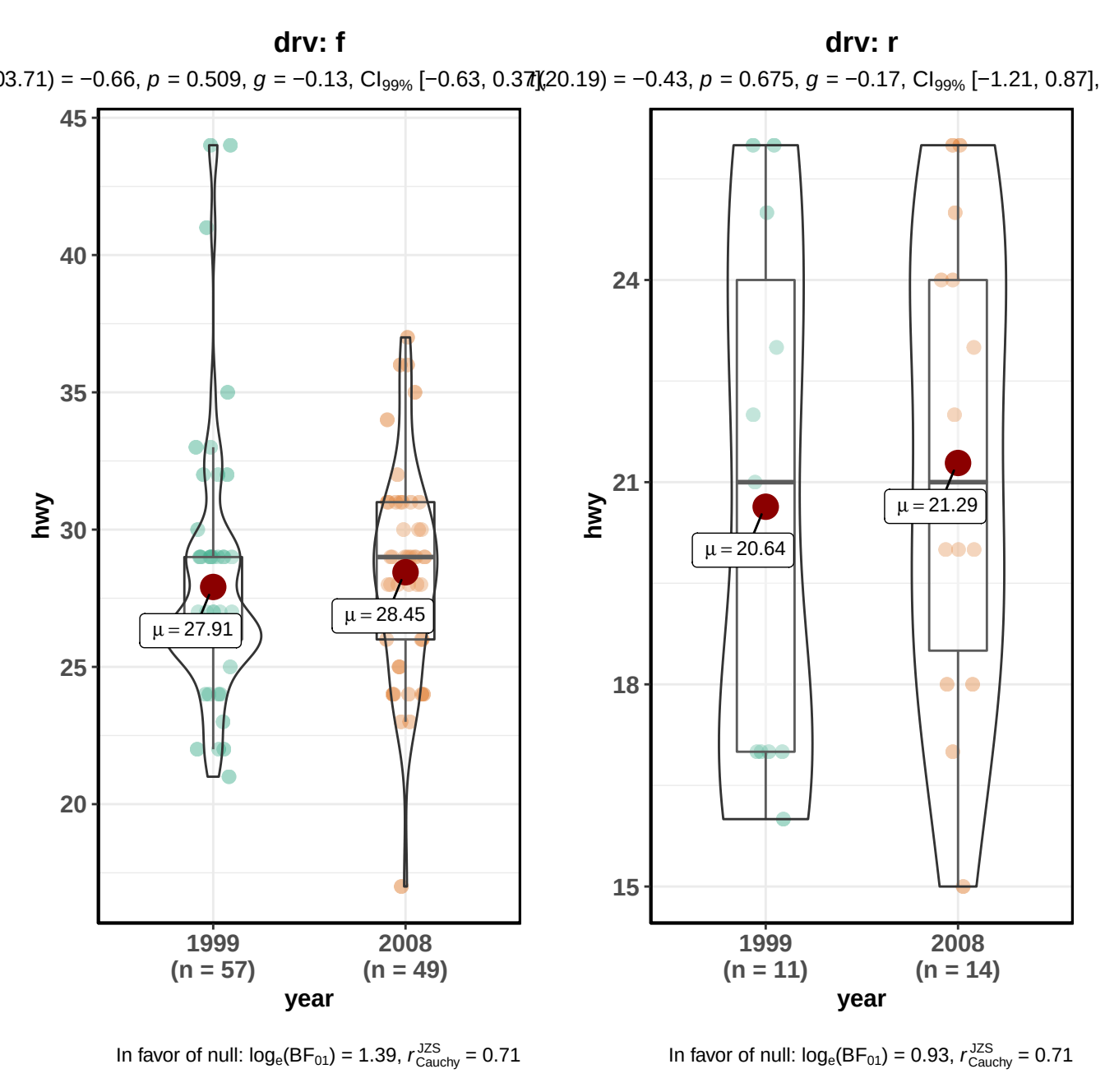
In favor of null: $\log_e(BF_{01}) = 4.95$, sampling = poisson, $a = 1.00$

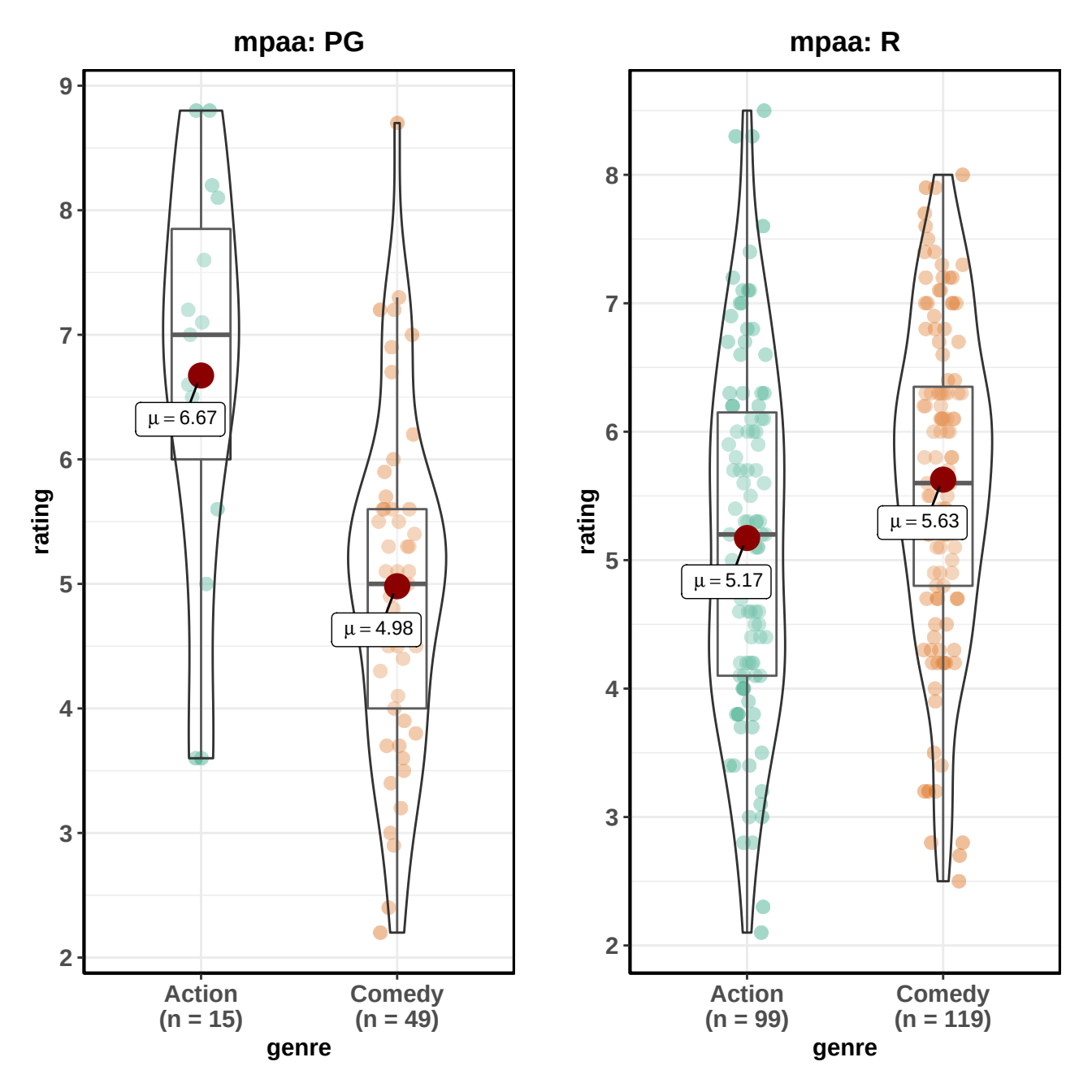
Quality: Ideal

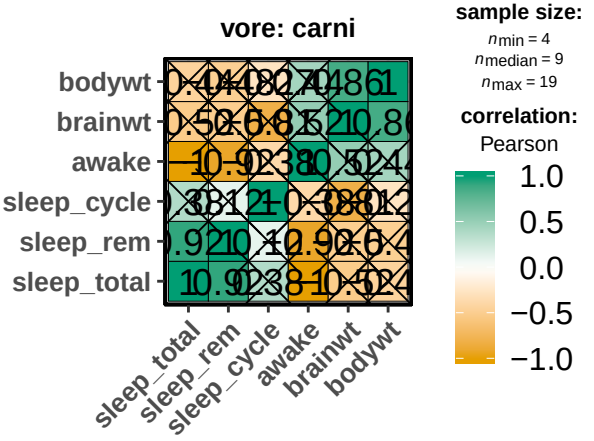
$\chi^2_{Pearson}(18) = 17.85$, $p = 0.466$, $V_{Cramer} = 0.09$, $CI_{95\%}$ [0.02, 0.08], $n_{obs} = 785$



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

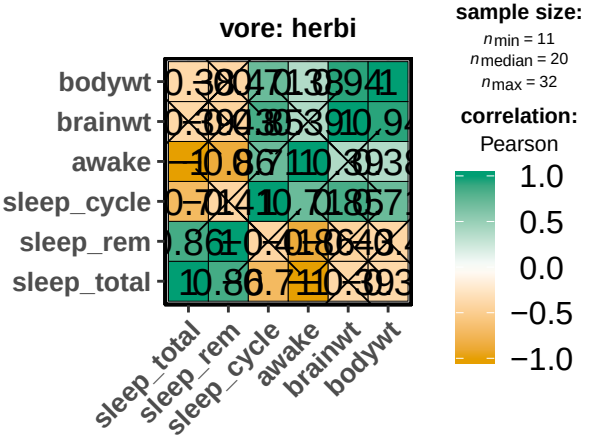

drv: f
03.71) = −0.66, p = 0.509, g = −0.13, CI99% [−0.63, 0.37],
hwy
45
40
35
30
25
20
μ = 27.91
μ = 28.45
1999
(n = 57)
2008
(n = 49)
year
In favor of null: log_e(BF01) = 1.39, r^JZS_Cauchy = 0.71
drv: r
t(20.19) = −0.43, p = 0.675, g = −0.17, CI99% [−1.21, 0.87],
hwy
24
21
18
15
μ = 20.64
μ = 21.29
1999
(n = 11)
2008
(n = 14)
year
In favor of null: log_e(BF01) = 0.93, r^JZS_Cauchy = 0.71


mpaa: PG
mpaa: R
rating
genre
μ = 6.67
μ = 4.98
μ = 5.17
μ = 5.63
Action
(n = 15)
Comedy
(n = 49)
Action
(n = 99)
Comedy
(n = 119)



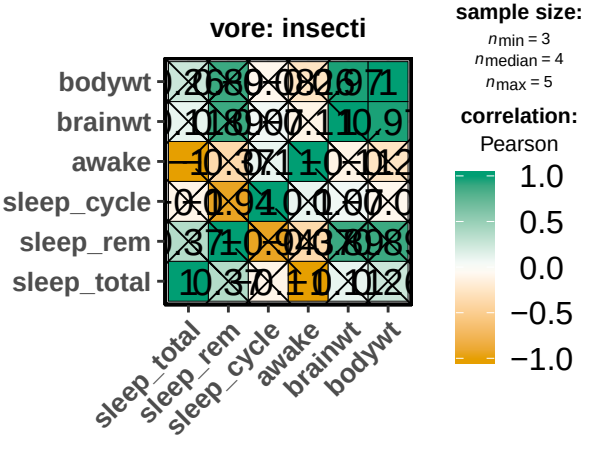
X = correlation non−significant at $p < 0.05$

Adjustment (p−value): None



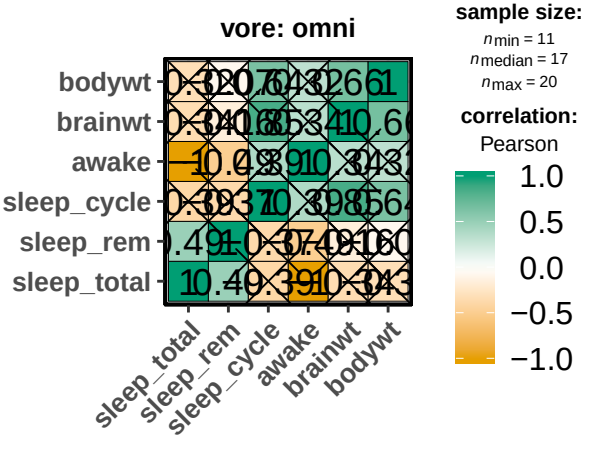
X = correlation non−significant at $p < 0.05$

Adjustment (p−value): None



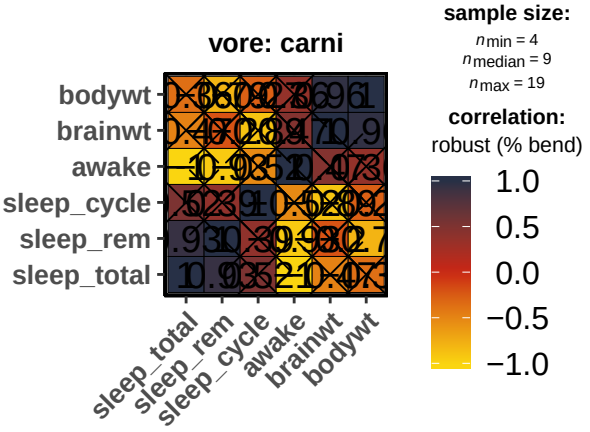
X = correlation non−significant at $p < 0.05$

Adjustment (p−value): None



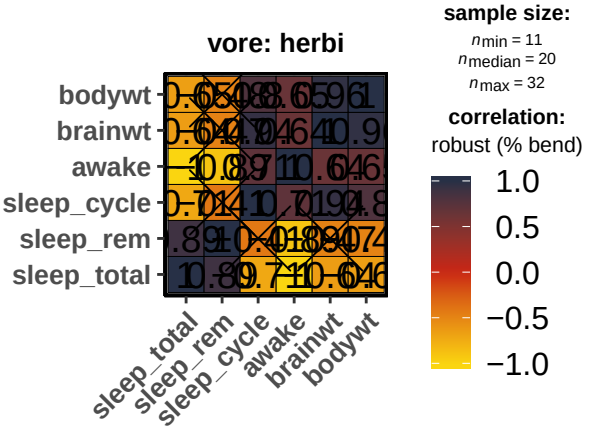
X = correlation non−significant at $p < 0.05$

Adjustment (p−value): None



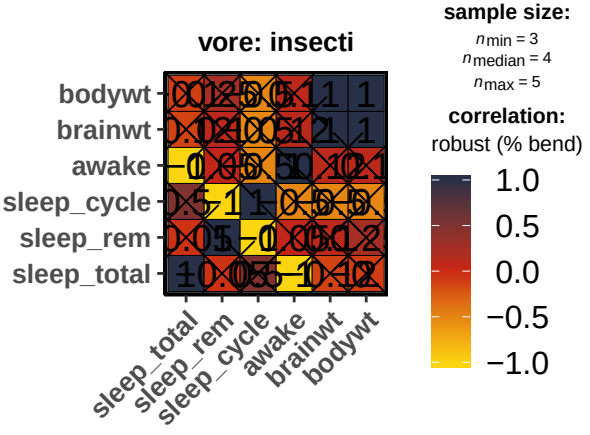
= correlation non−significant at $p < 0.05$

Adjustment (p−value): Holm



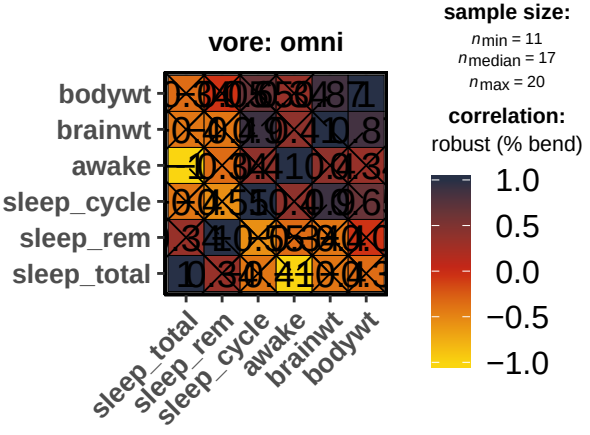
X = correlation non−significant at $p < 0.05$

Adjustment (p−value): Holm



= correlation non−significant at $p < 0.05$

Adjustment (p−value): Holm

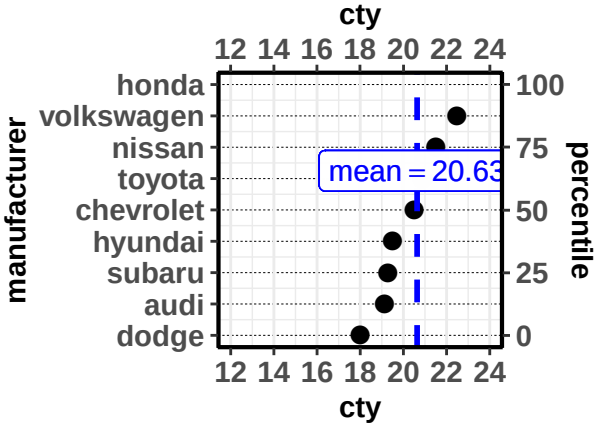


X = correlation non−significant at $p < 0.05$

Adjustment (p−value): Holm

cylinder count: 4

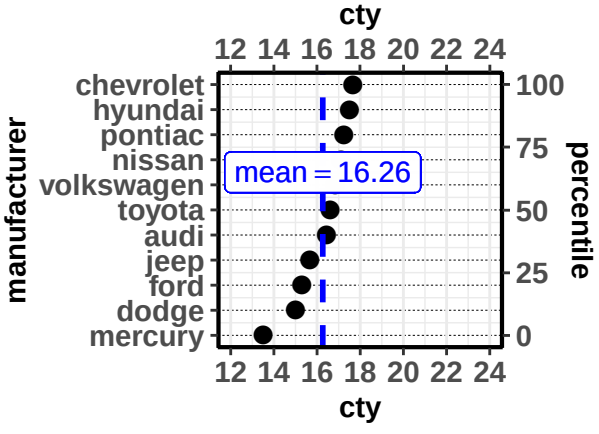
$t(8) = 7.82$, $p = < 0.001$, $g = 2.32$, $CI_{95\%}$ [1.25, 4.25], n



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

cylinder count: 6

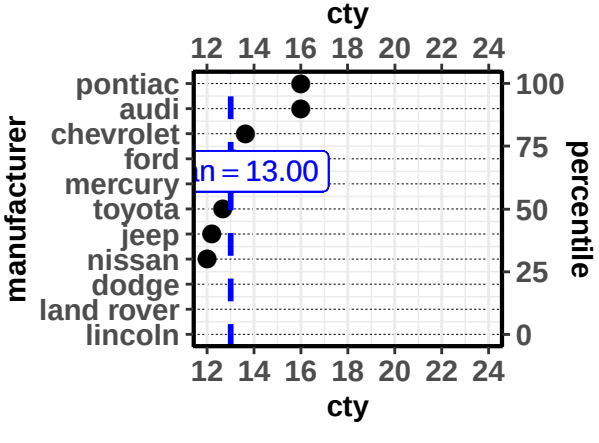
$t(10) = 1.99$, $p = 0.075$, $g = 0.55$, $CI_{95\%}$ [−0.06, 1.29], n



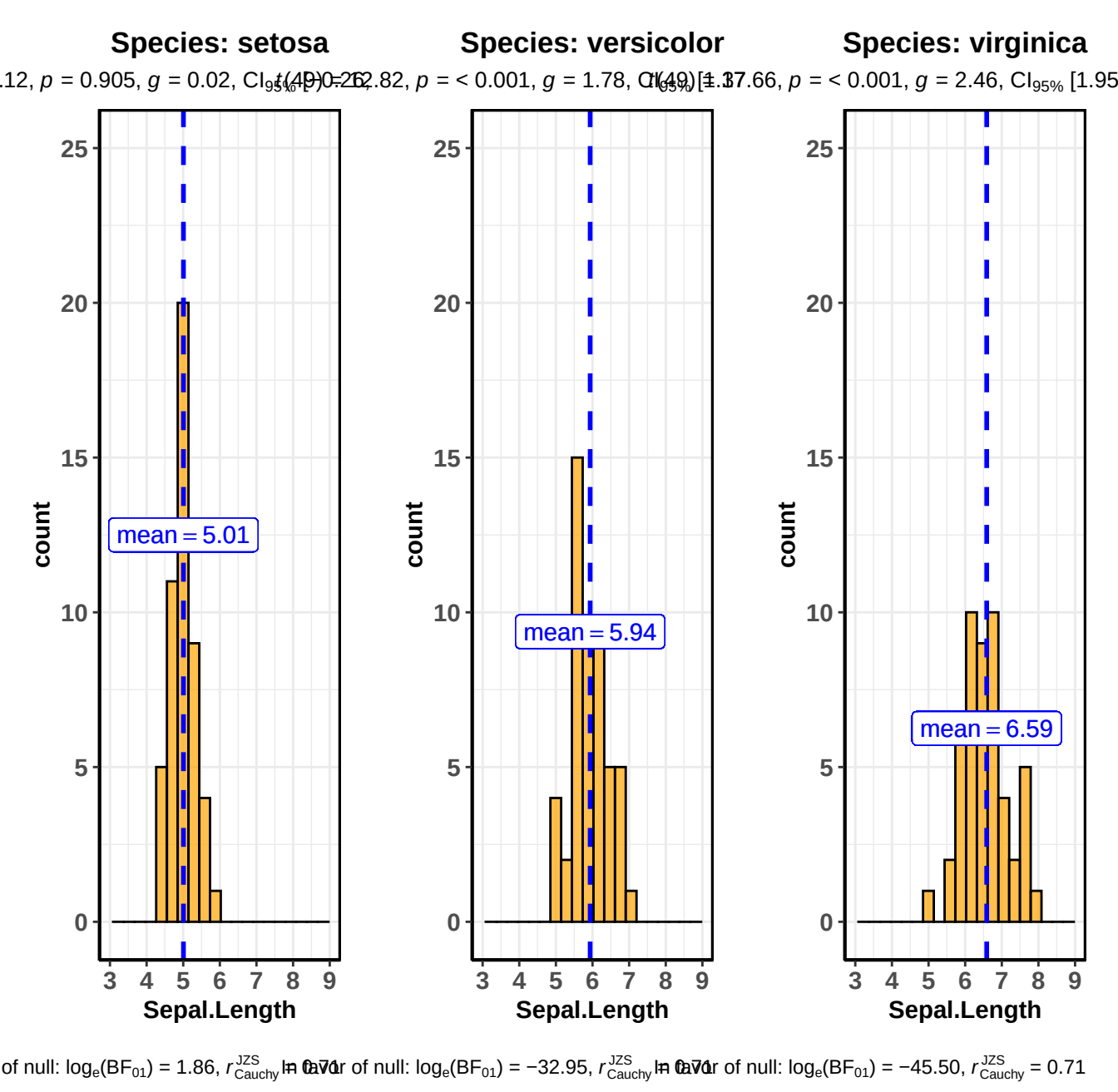
In favor of null: $\log_e(BF_{01}) = -0.23$, $r^{JZS}_{Cauchy} = 0.71$

cylinder count: 8

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

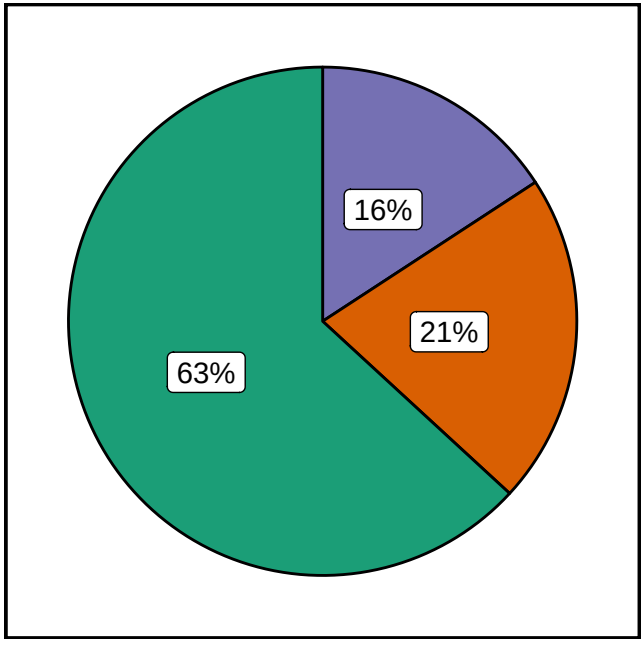


In favor of null: $\log_e(BF_{01}) = -4.24$, $r^{JZS}_{Cauchy} = 0.71$


Species: setosa
Species: versicolor
Species: virginica
.12, p = 0.905, g = 0.02, CI95% [-0.27,
t(49) = 26.82, p = < 0.001, g = 1.78, CI95% [1.37
t(49) = 37.66, p = < 0.001, g = 2.46, CI95% [1.95
count
Sepal.Length
mean = 5.01
mean = 5.94
mean = 6.59
of null: loge(BF01) = 1.86, rCauchyJZS = 0.71
of null: loge(BF01) = −32.95, rCauchyJZS = 0.71
of null: loge(BF01) = −45.50, rCauchyJZS = 0.71

am: 0

) = 7.68, p = 0.021, V_{Cramer} = 0.45, $CI_{95\%}$ [0.05, 0.77], n_{obs}

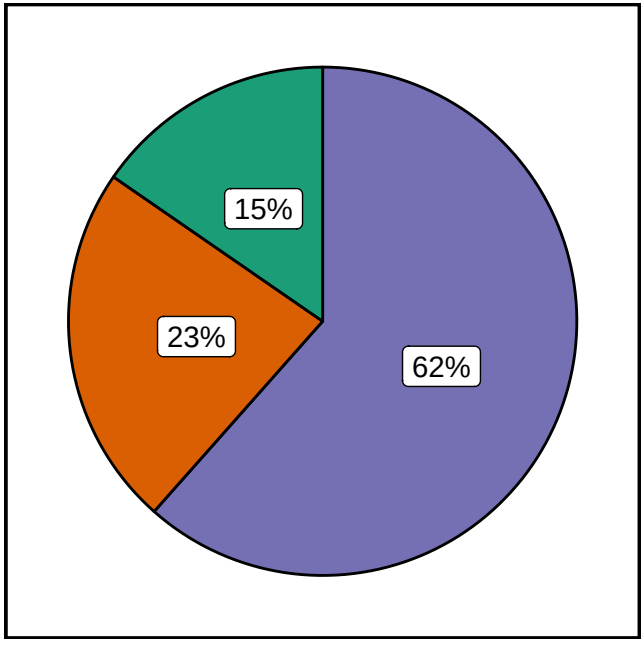


cyl 8 6 4

In favor of null: $\log_e(BF_{01})$ = −0.16, a = 1.00

am: 1

$\chi^2_{gof}(2)$ = 4.77, p = 0.092, V_{Cramer} = 0.43, $CI_{95\%}$ [0.07, 0.71], n_{ob}

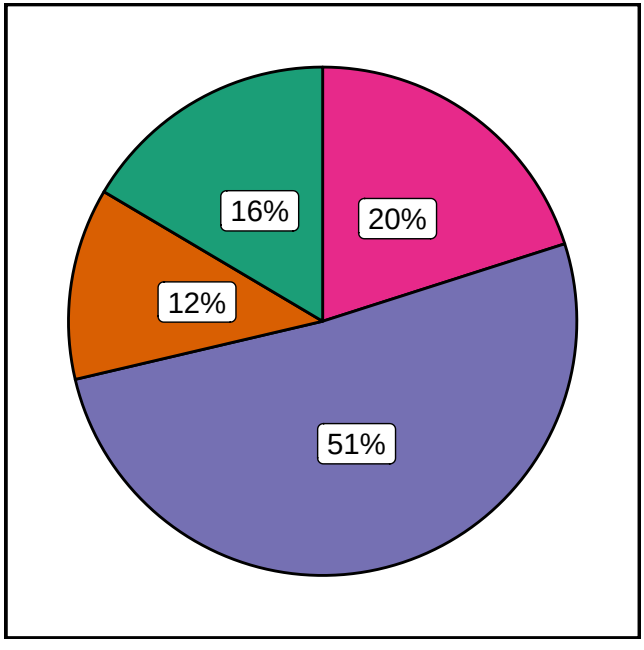


cyl 8 6 4

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

Sex: Male

106.05, p = < 0.001, V_{Cramer} = 0.36, $CI_{95\%}$ [0.27, 0.43], n = 438

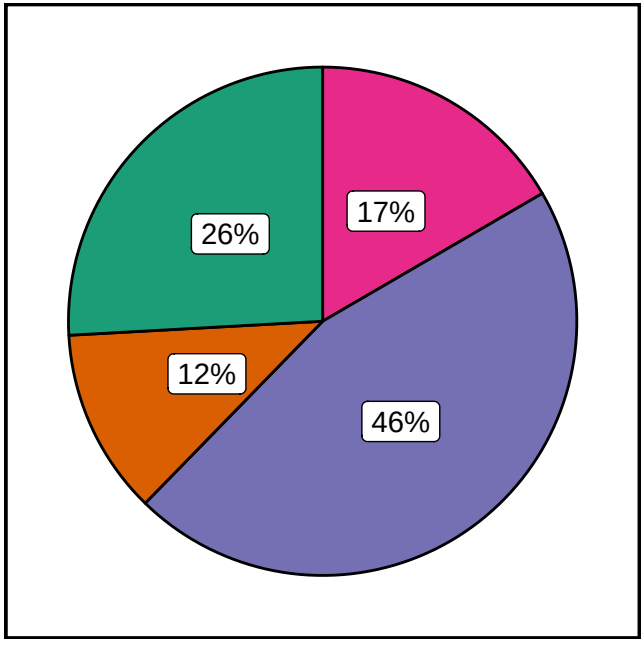


Hair Blond Red Brown Black

In favor of null: $\log_e(BF_{01})$ = −37.65, a = 1.00

Sex: Female

χ^2_{gof} = 84.23, p = < 0.001, V_{Cramer} = 0.30, $CI_{95\%}$ [0.23, 0.37], n_o

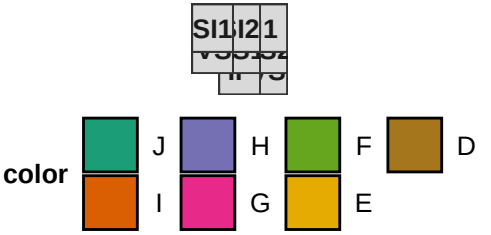


Hair Blond Red Brown Black

In favor of null: $\log_e(BF_{01})$ = −30.42, a = 1.00

Quality: Fair

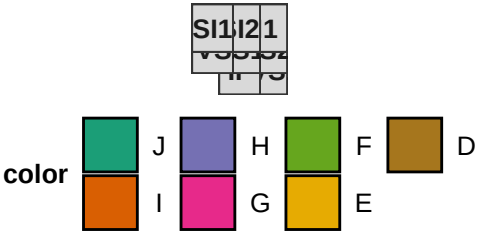
$\chi^2_{Pearson}(42) = 55.71$, $p = 0.076$, $V_{Cramer} = 0.23$, $CI_{95\%}$ [0.14, 0.22], $n_{obs} = 172$



vor of null: $\log_e(BF_{01}) = -7.86$, sampling = poisson, $a = 1.00$

Quality: Very Good

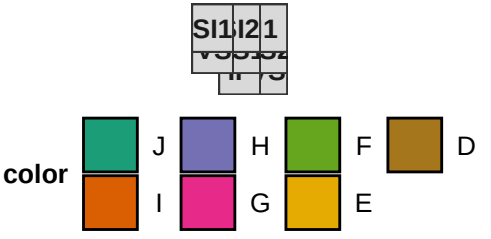
$\chi^2_{Pearson}(42) = 64.05$, $p = 0.016$, $V_{Cramer} = 0.09$, $CI_{95\%}$ [0.05, 0.09], $n_{obs} = 1187$



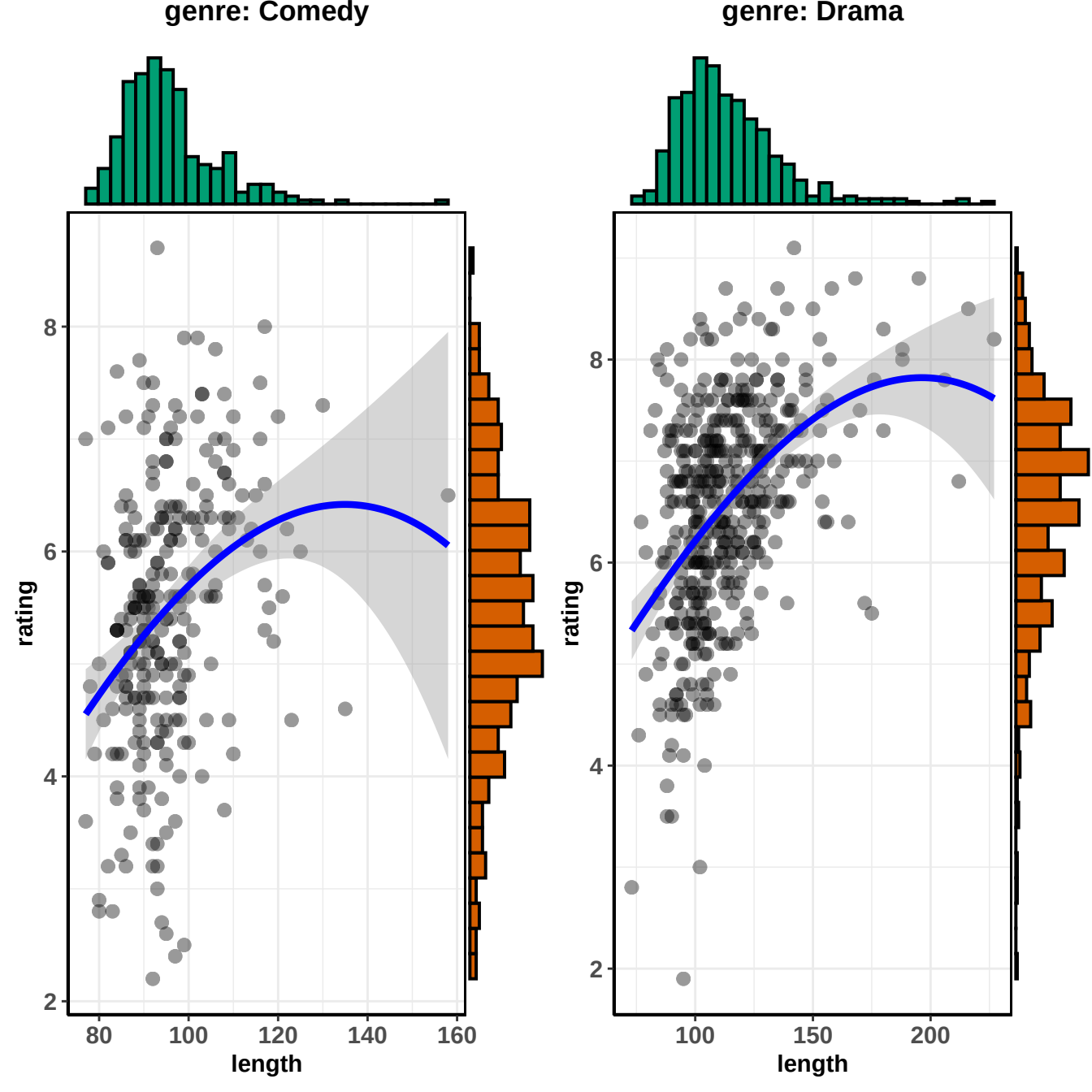
vor of null: $\log_e(BF_{01}) = 14.79$, sampling = poisson, $a = 1.00$

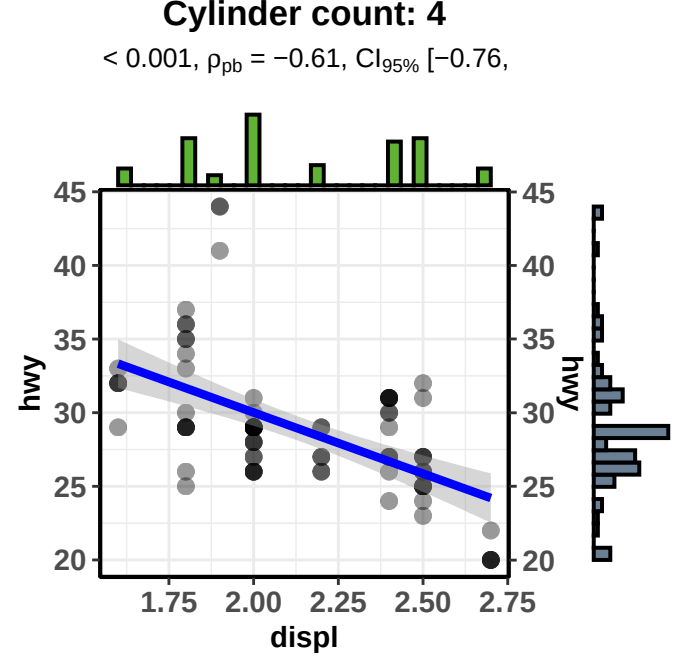
Quality: Ideal

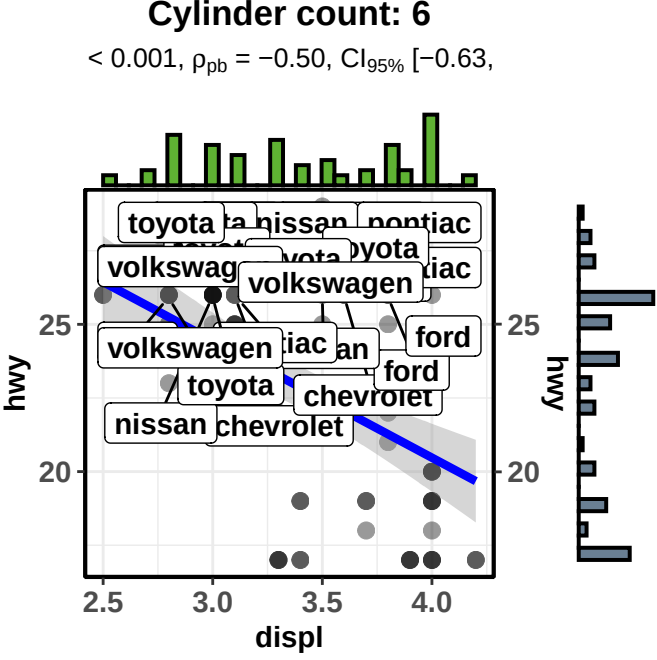
$\chi^2_{Pearson}(42) = 153.32$, $p = < 0.001$, $V_{Cramer} = 0.11$, $CI_{95\%}$ [0.08, 0.11], $n_{obs} = 2165$

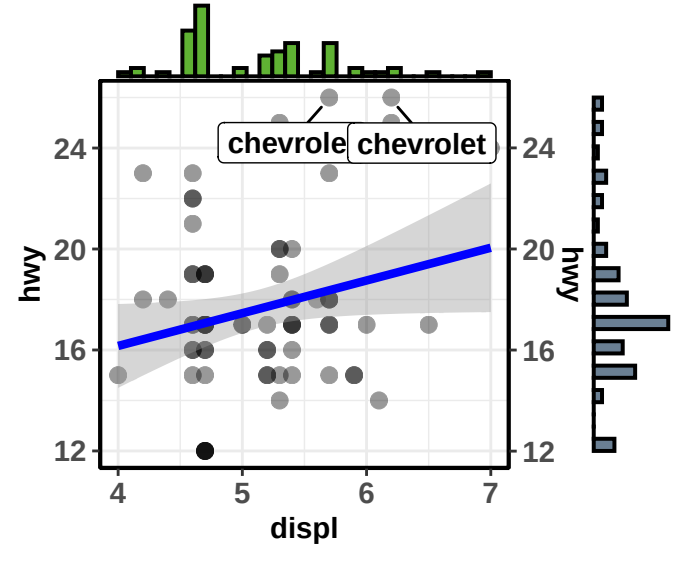


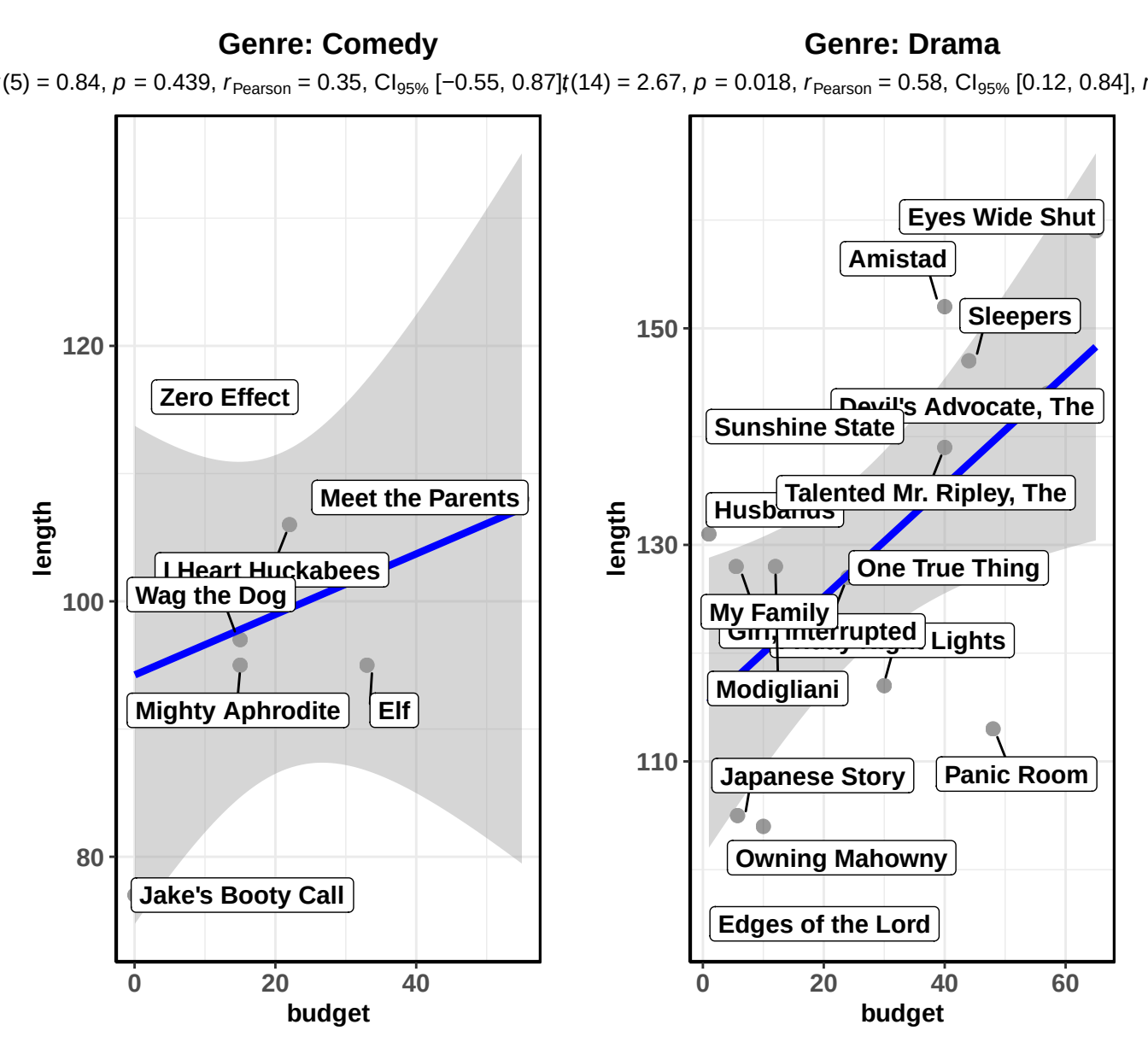
or of null: $\log_e(BF_{01}) = -25.04$, sampling = poisson, $a = 1.00$


genre: Comedy
genre: Drama
rating
length
8
6
4
2
80
100
120
140
160
150
200

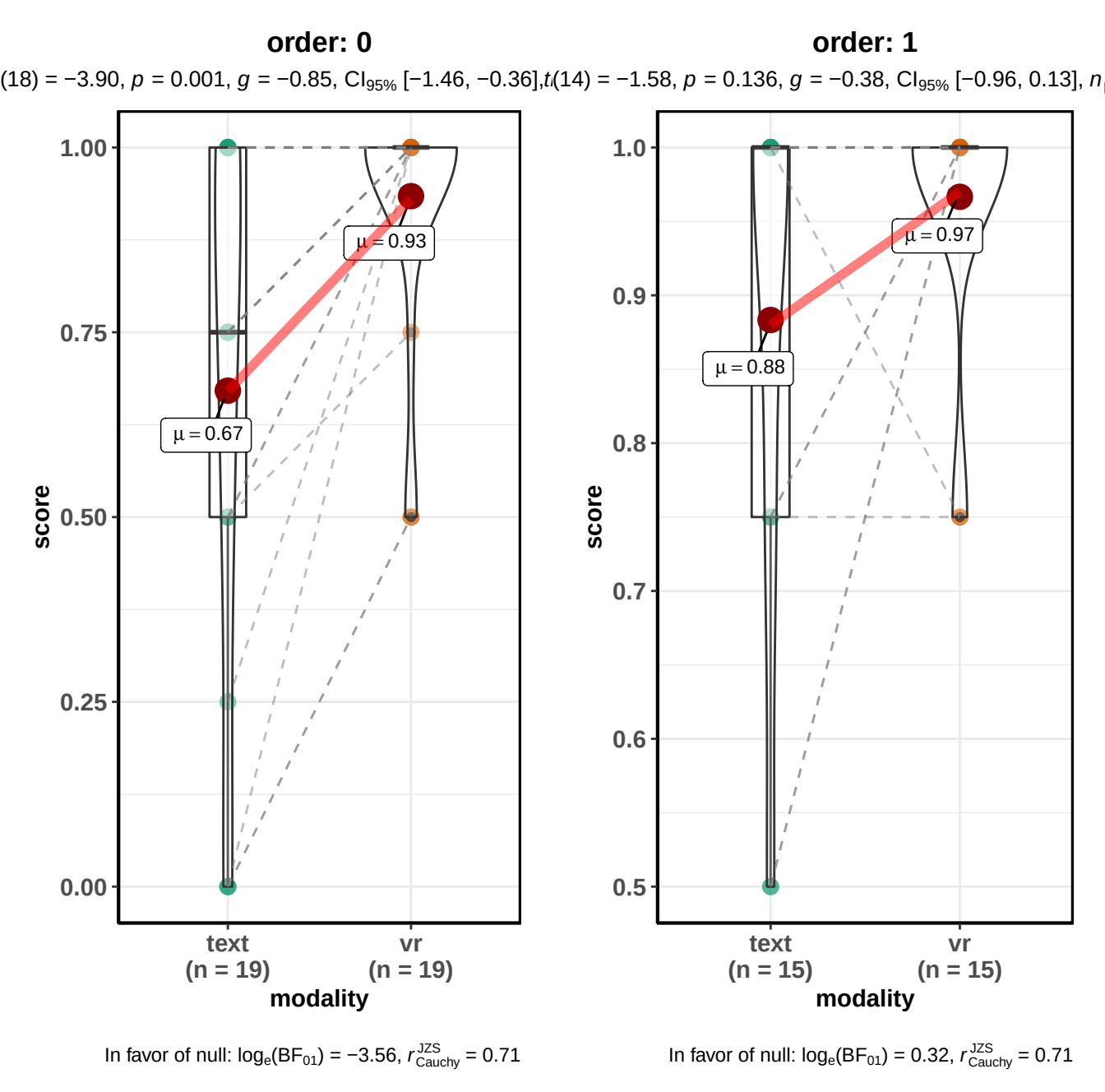

Cylinder count: 4
< 0.001, ρpb = −0.61, CI95% [−0.76,
hwy
displ
45
40
35
30
25
20
1.75
2.00
2.25
2.50
2.75

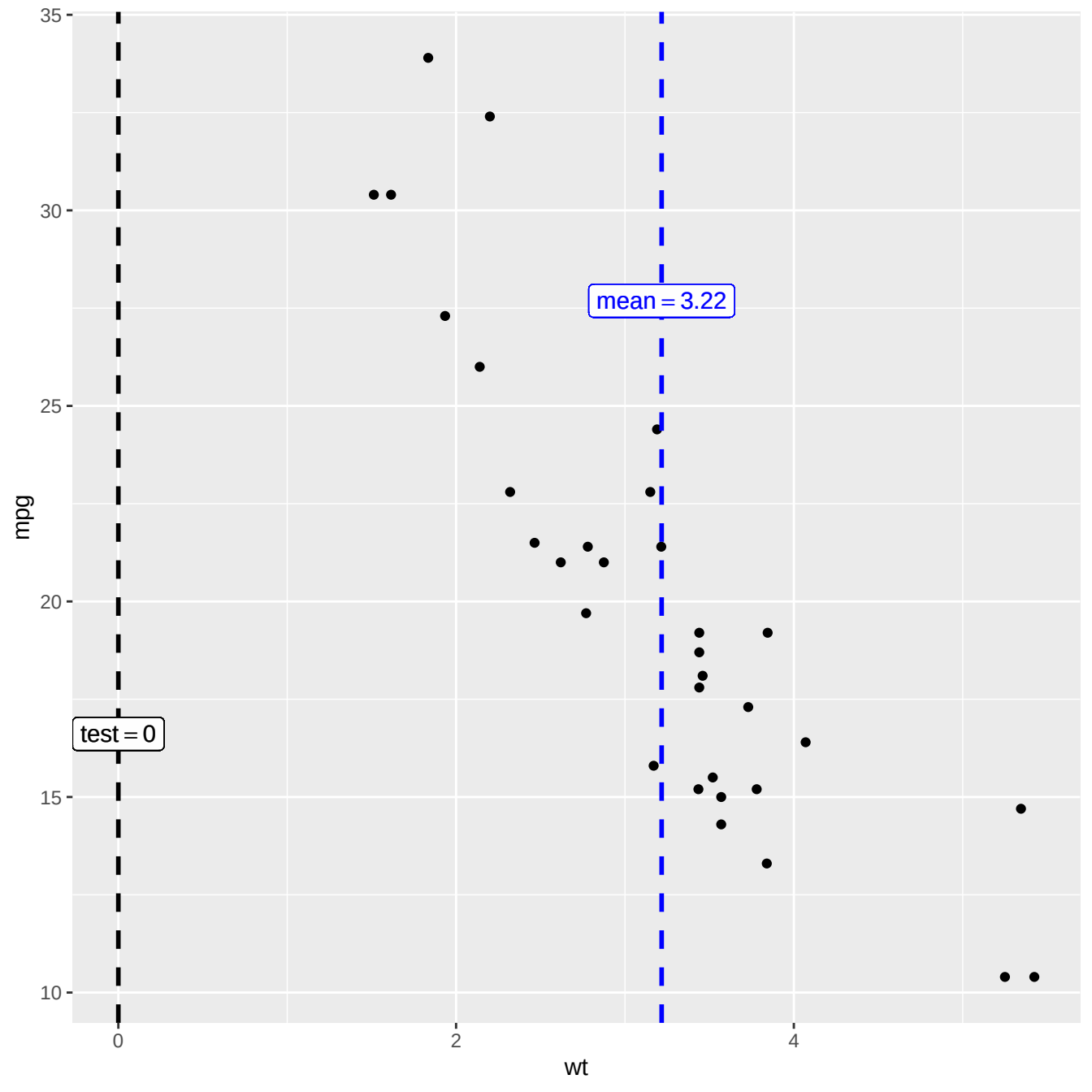

Cylinder count: 6
< 0.001, ρpb = −0.50, CI95% [−0.63,
toyota
pontiac
volkswagen
ford
chevrolet
nissan
hwy
displ
25
20
2.5
3.0
3.5
4.0

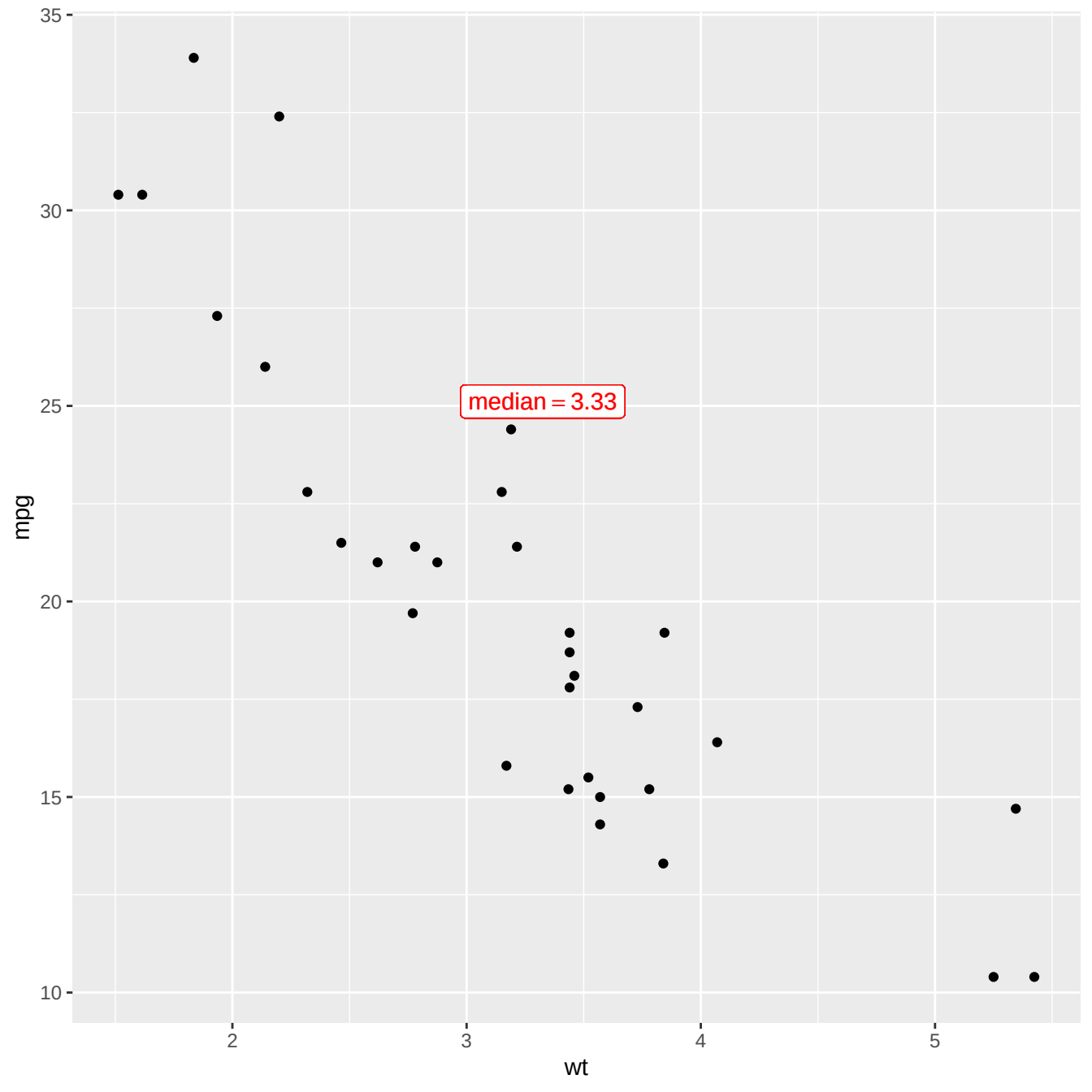

Cylinder count: 8
= 0.216, ρpb = 0.15, CI95% [−0.17, 0
chevrole
chevrolet
hwy
displ
24
20
16
12
4
5
6
7

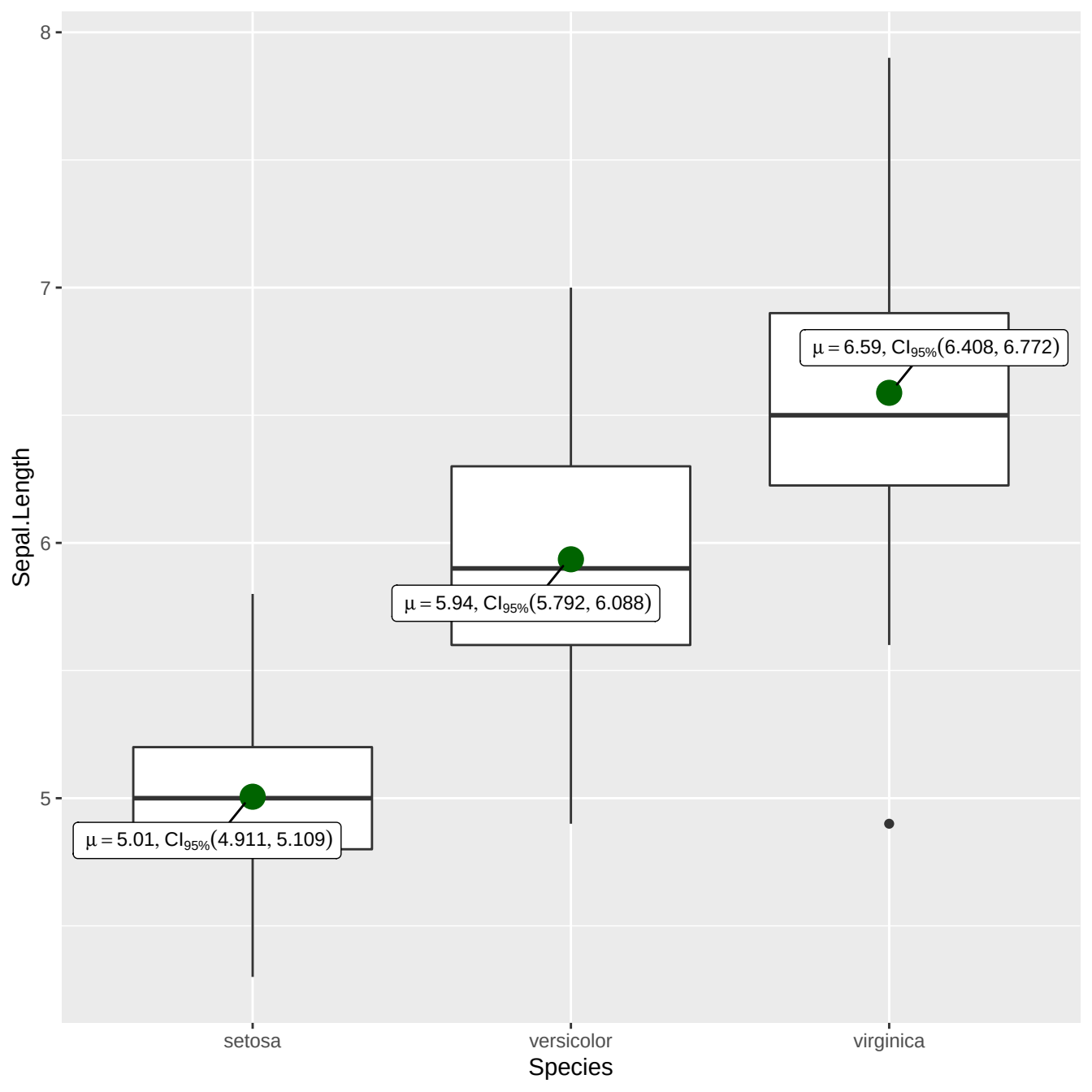


All movies have IMDB rating equal to 7.


order: 0
(18) = −3.90, p = 0.001, g = −0.85, CI95% [−1.46, −0.36],
order: 1
t(14) = −1.58, p = 0.136, g = −0.38, CI95% [−0.96, 0.13], n
1.00
0.75
0.50
0.25
0.00
score
μ = 0.93
μ = 0.67
text
(n = 19)
vr
(n = 19)
modality
In favor of null: log_e(BF01) = −3.56, r JZS Cauchy = 0.71
1.0
0.9
0.8
0.7
0.6
0.5
score
μ = 0.97
μ = 0.88
text
(n = 15)
vr
(n = 15)
modality
In favor of null: log_e(BF01) = 0.32, r JZS Cauchy = 0.71


35
30
25
20
15
10
mpg
0
2
4
wt
mean = 3.22
test = 0


median = 3.33
mpg
wt
35
30
25
20
15
10
2
3
4
5


8
7
6
5
Sepal.Length
μ = 5.01, CI95%(4.911, 5.109)
μ = 5.94, CI95%(5.792, 6.088)
μ = 6.59, CI95%(6.408, 6.772)
setosa
versicolor
virginica
Species