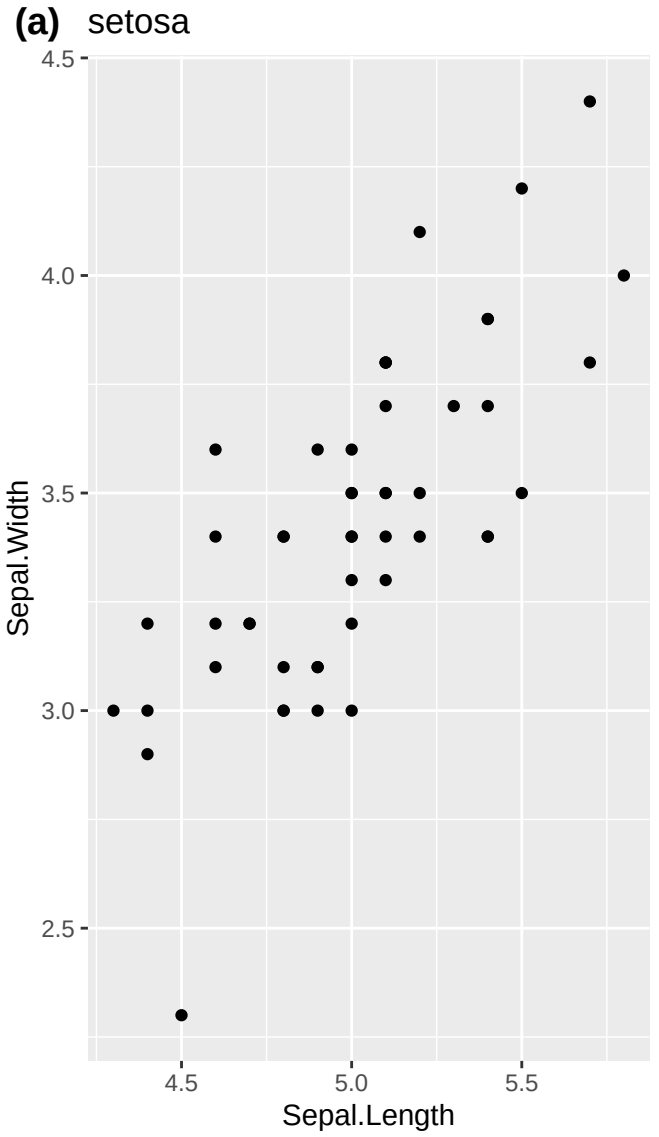
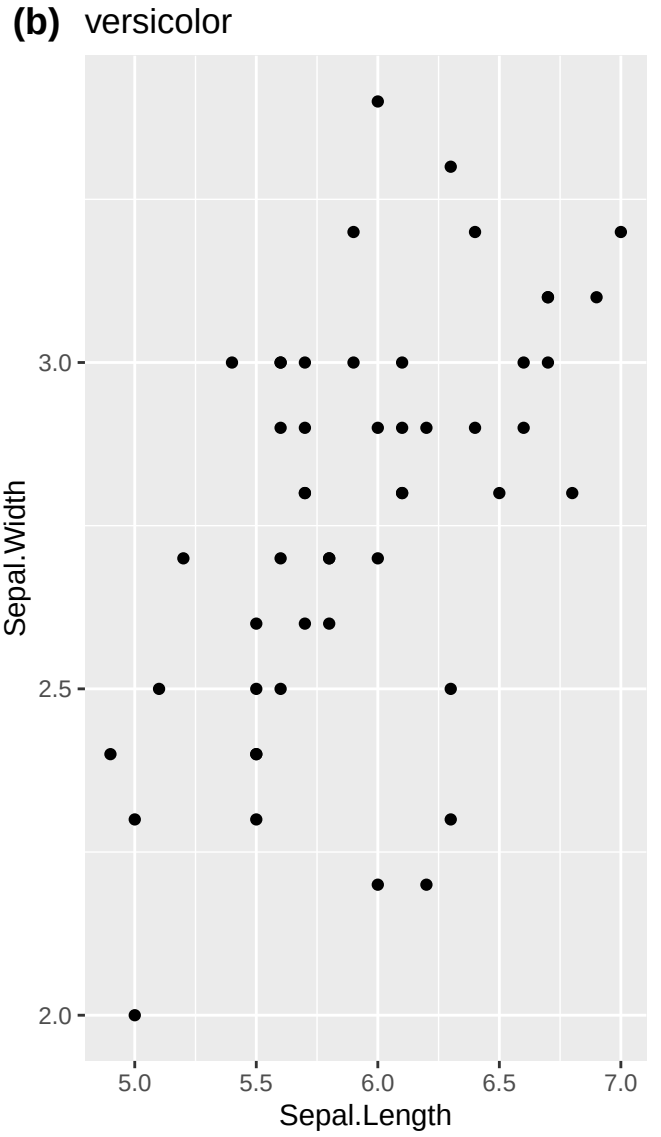
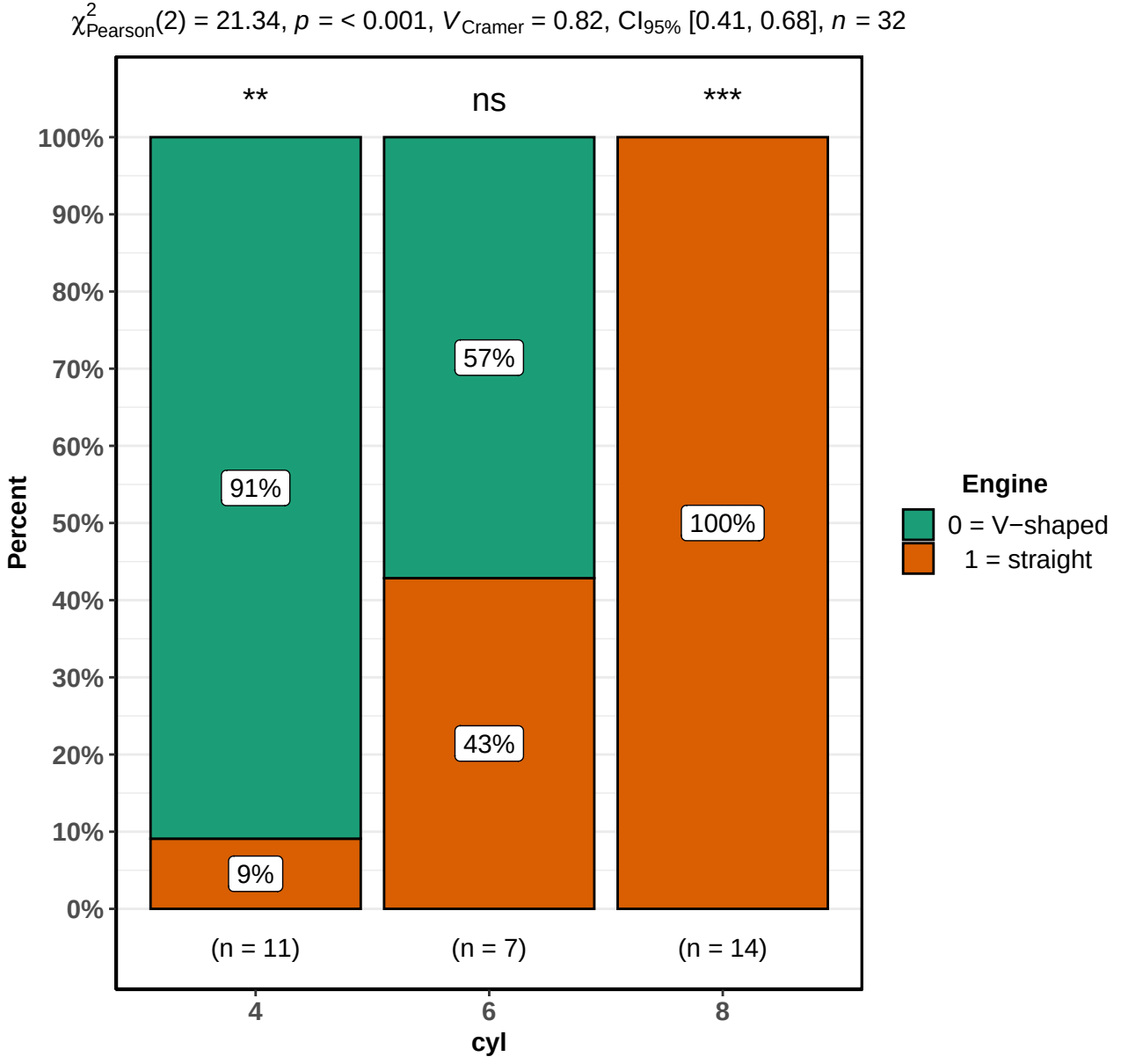
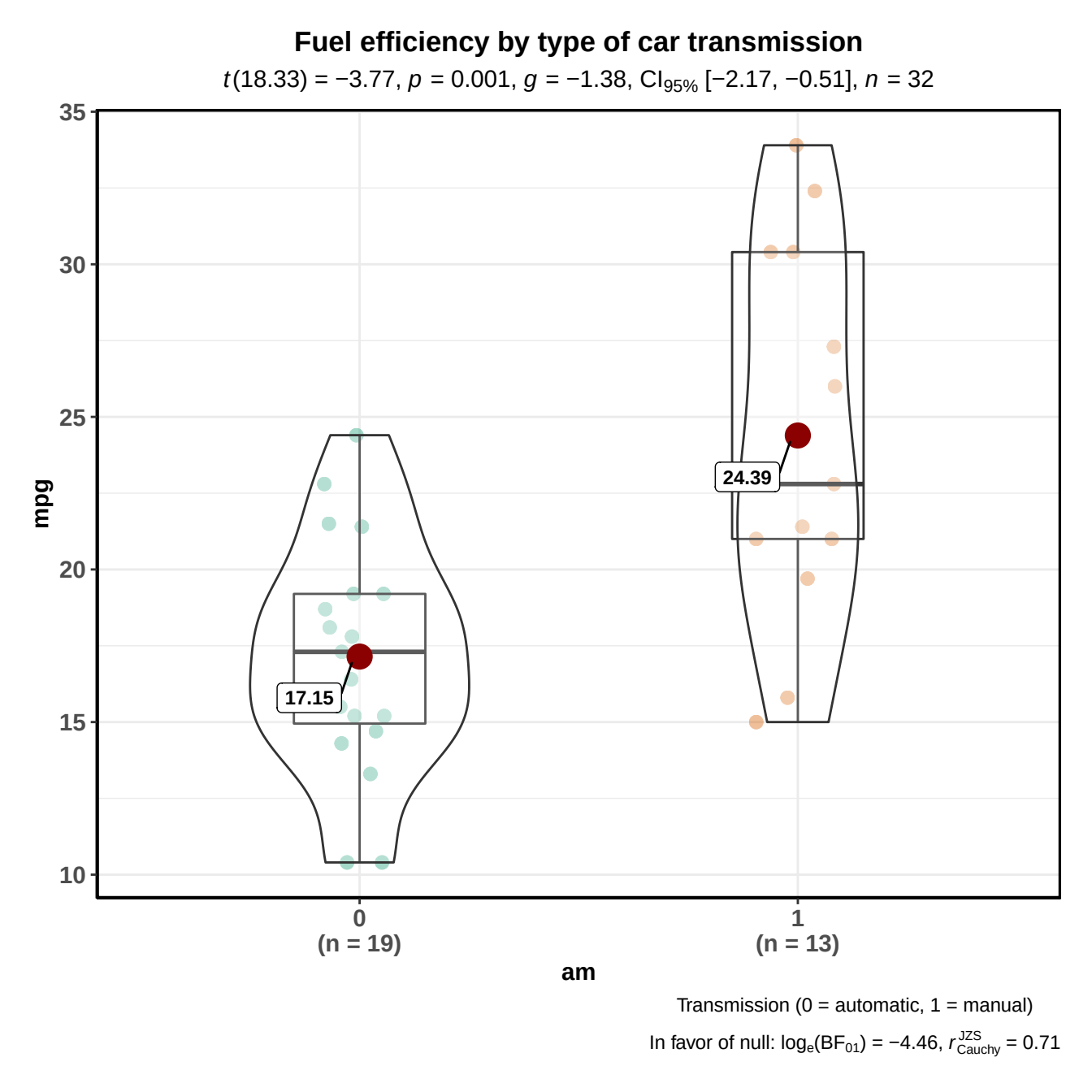
# Dataset: Iris Flower dataset

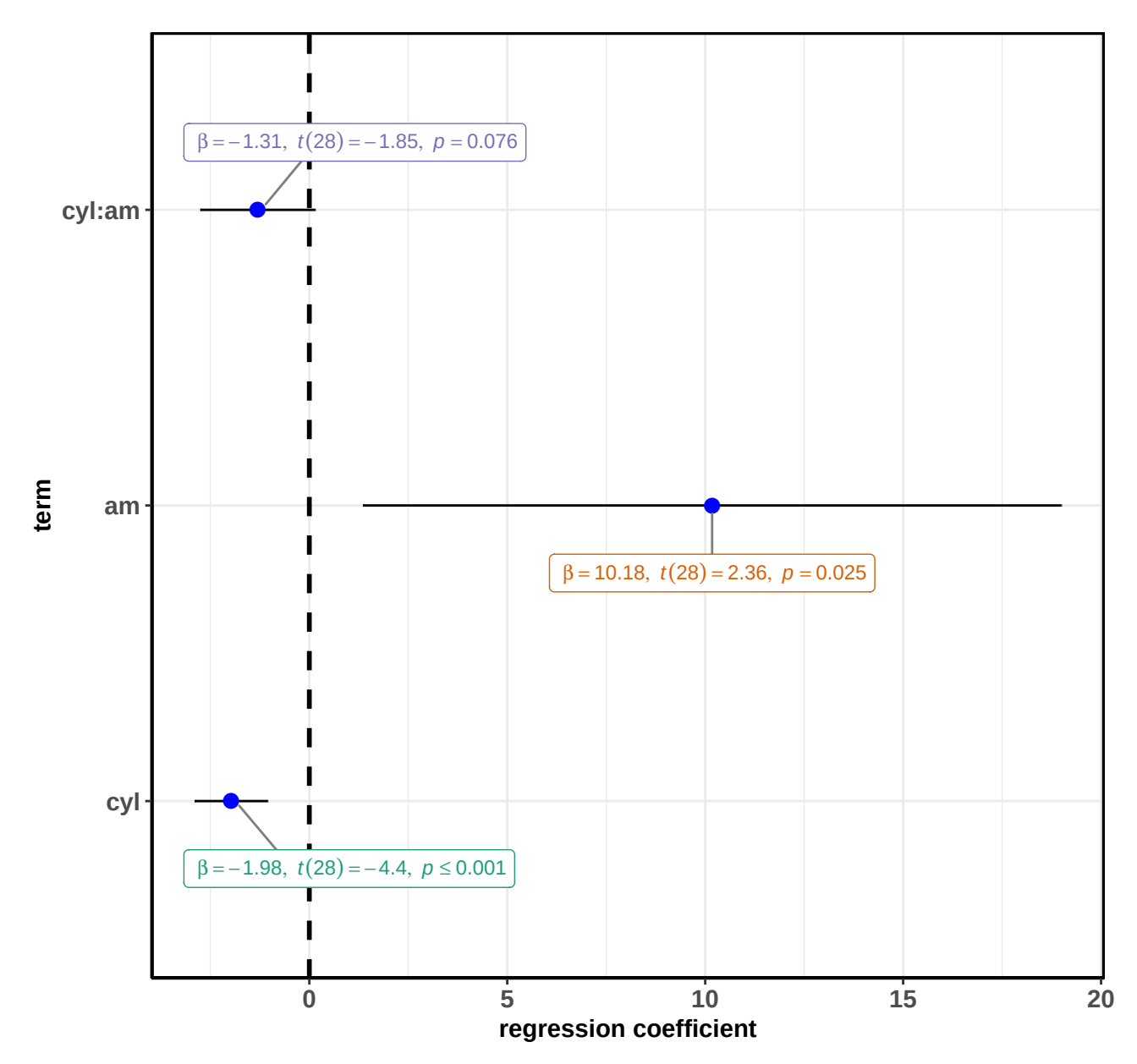


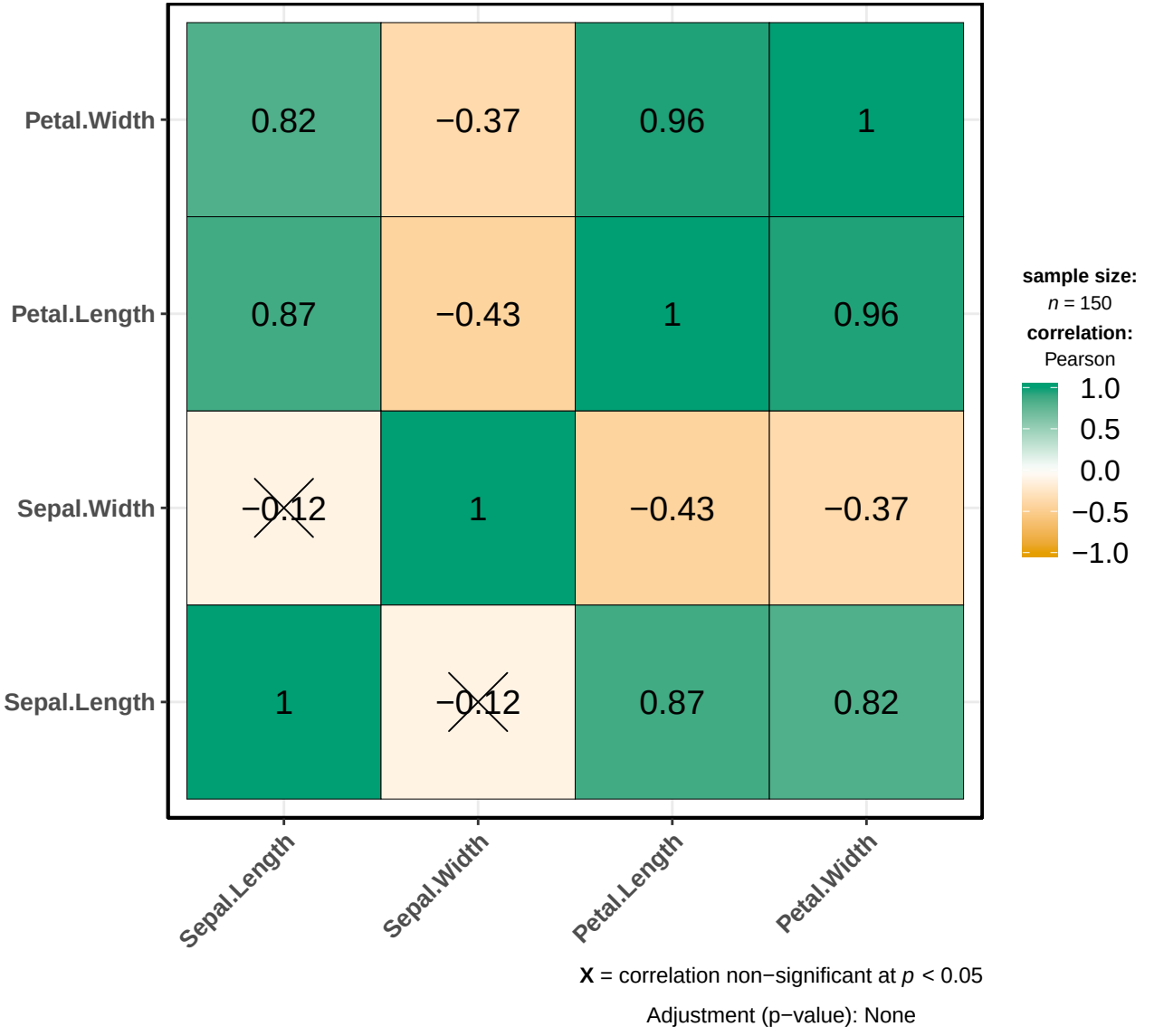

Note: Only two species of flower are displayed

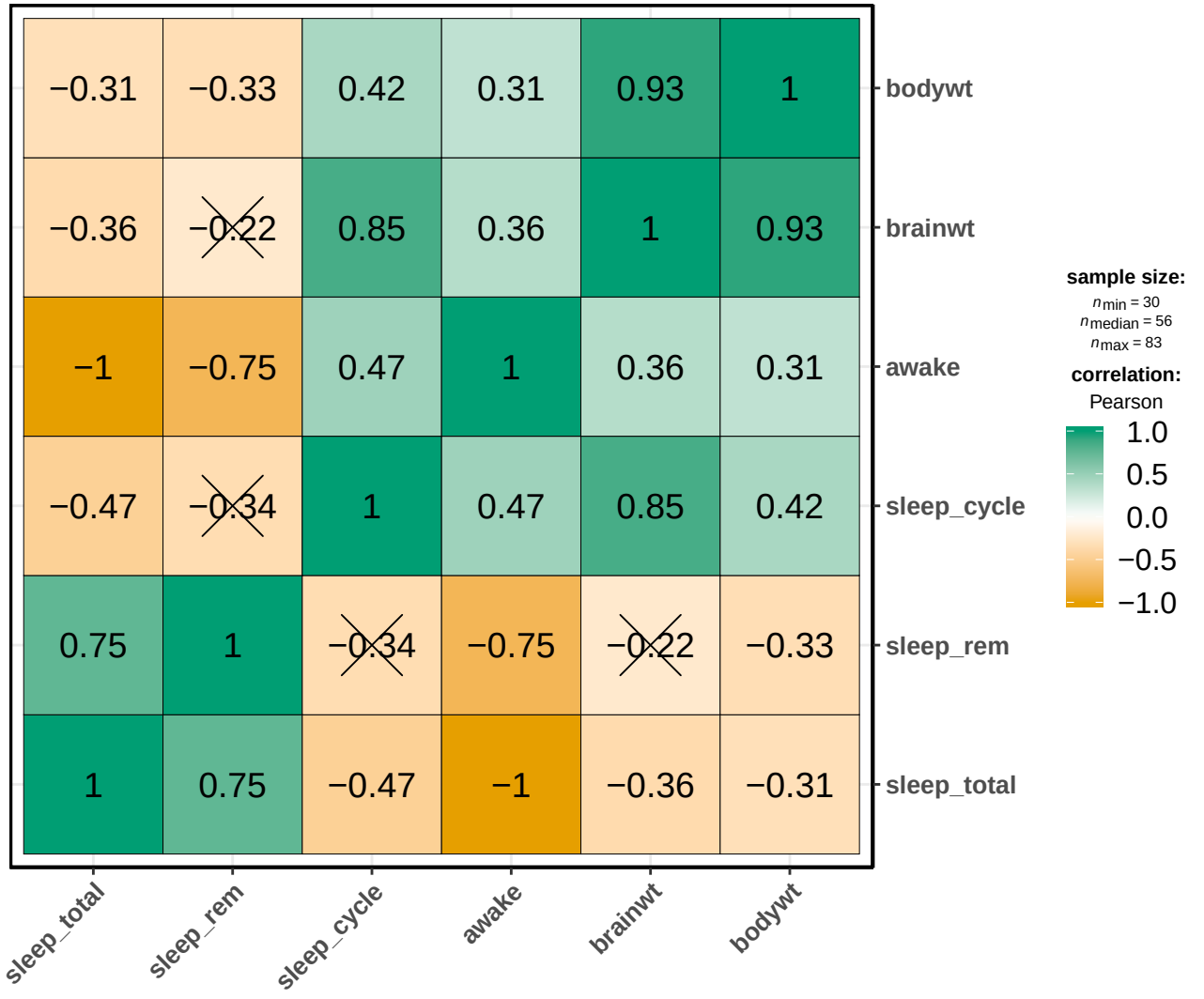

$\chi^2_{Pearson}(2) = 21.34$, $p = < 0.001$, $V_{Cramer} = 0.82$, $CI_{95\%}$ [0.41, 0.68], $n = 32$
**
ns
***
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Percent
91%
9%
57%
43%
100%
(n = 11)
(n = 7)
(n = 14)
4
6
8
cyl
Engine
0 = V−shaped
1 = straight
In favor of null: $\log_e(BF_{01}) = -10.31$, sampling = independent multinomial, $a = 1.00$


Fuel efficiency by type of car transmission
t(18.33) = −3.77, p = 0.001, g = −1.38, CI95% [−2.17, −0.51], n = 32
mpg
35
30
25
20
15
10
17.15
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



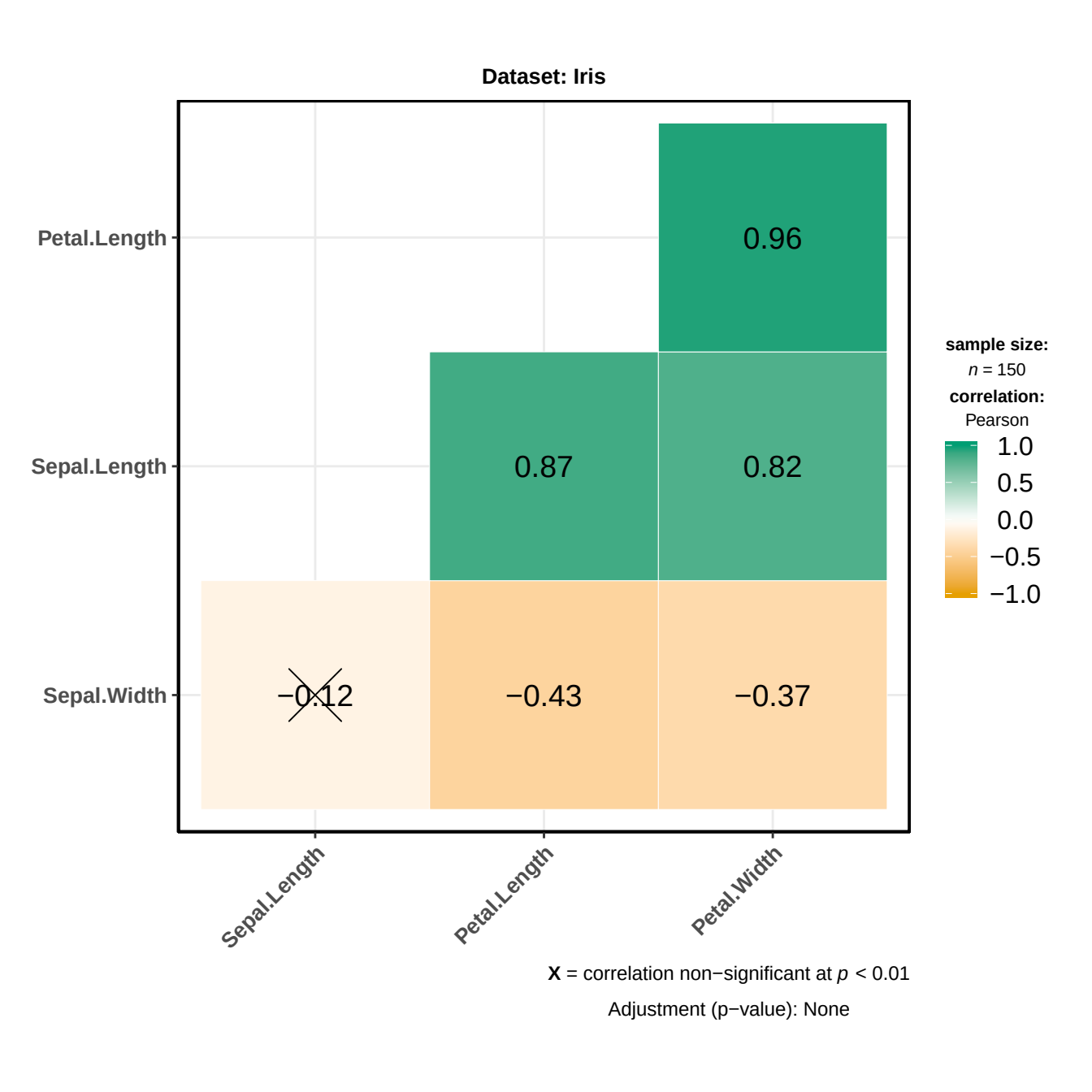

AIC = 166, BIC = 173, log−likelihood = −78

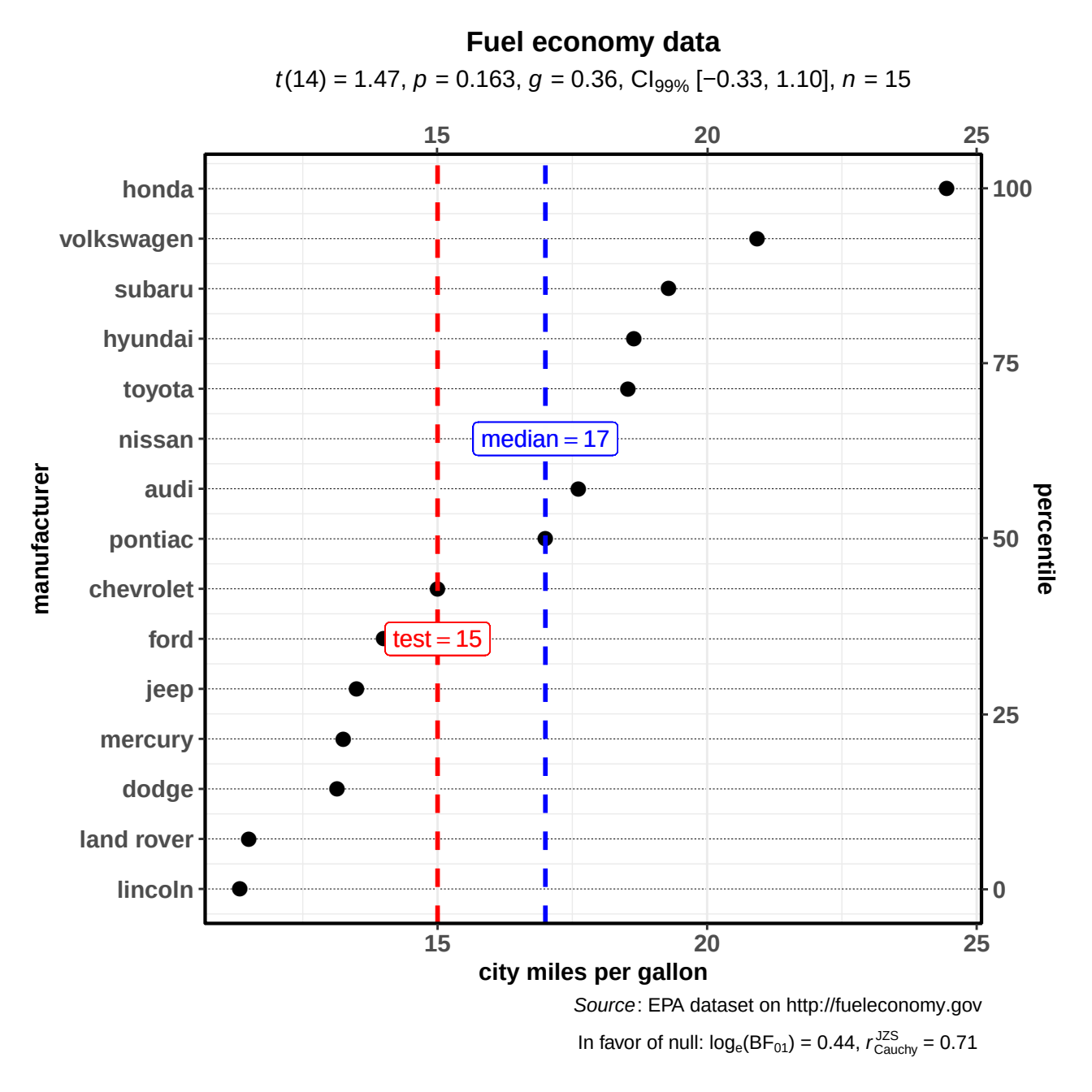

Petal.Width
Petal.Length
Sepal.Width
Sepal.Length
0.82
−0.37
0.96
1
0.87
−0.43
1
0.96
−0.12
1
−0.43
−0.37
1
−0.12
0.87
0.82
Sepal.Length
Sepal.Width
Petal.Length
Petal.Width
sample size:
n = 150
correlation:
Pearson
1.0
0.5
0.0
−0.5
−1.0
X = correlation non−significant at p < 0.05
Adjustment (p−value):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

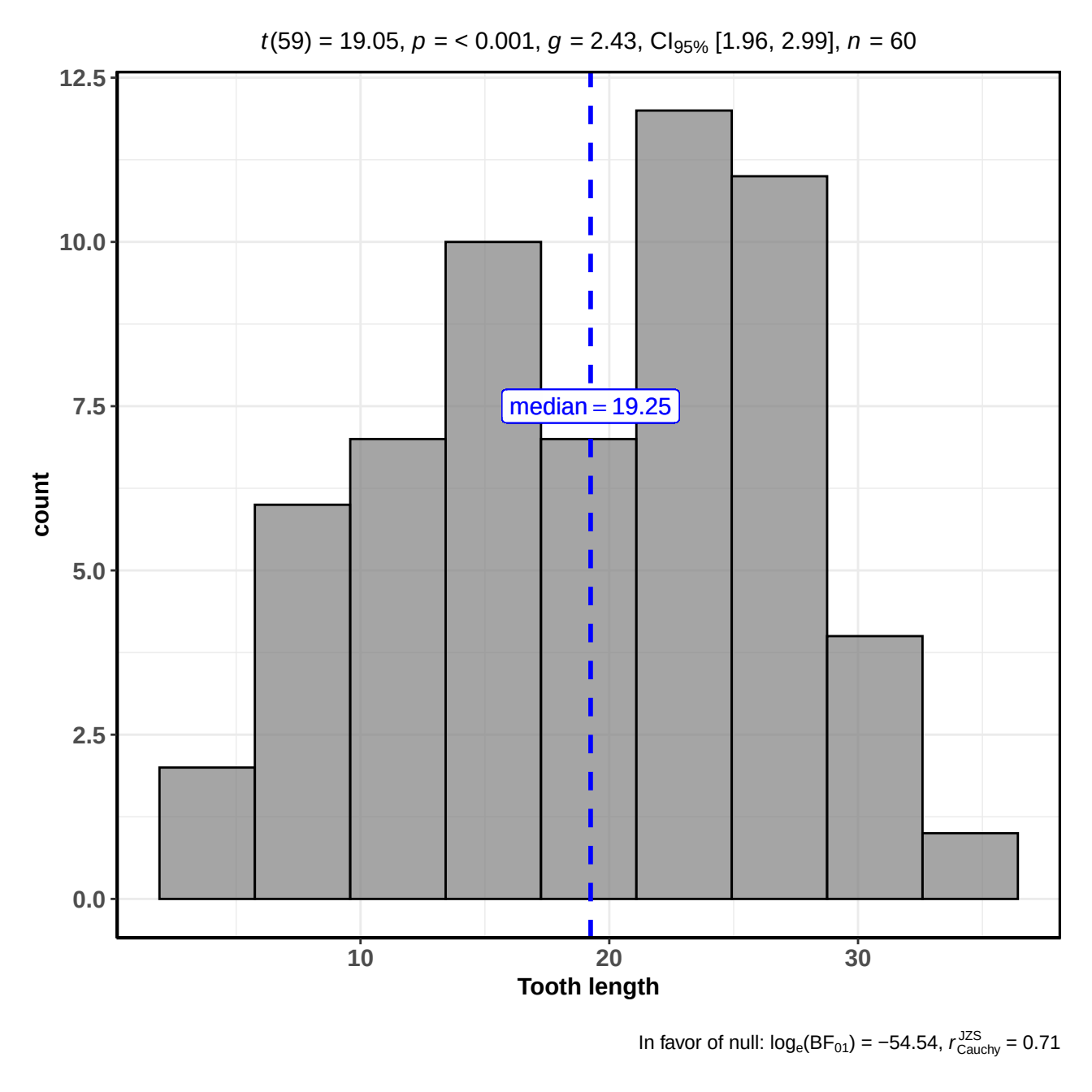


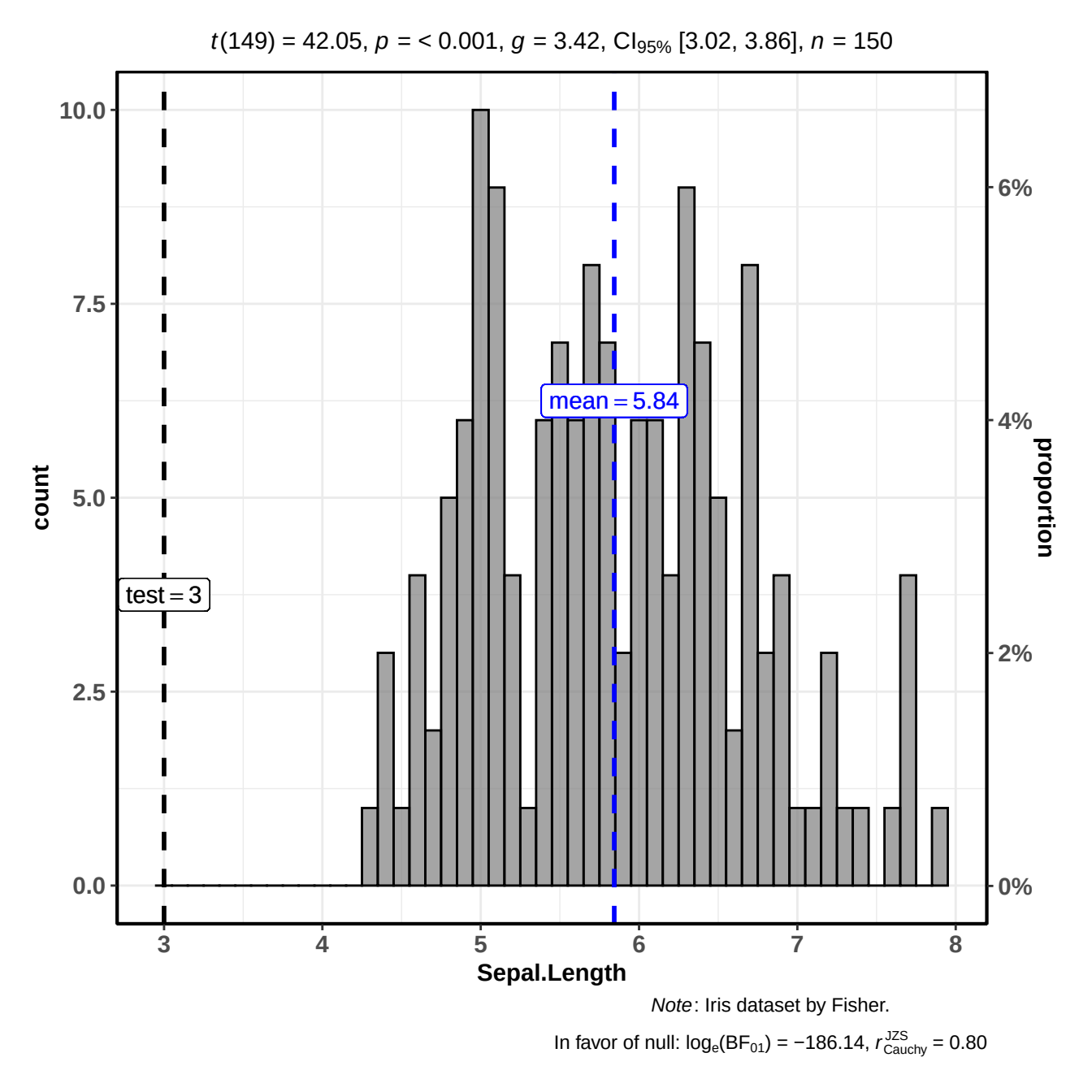

**X** = correlation non−significant at $p < 0.05$

Adjustment (p−value): None

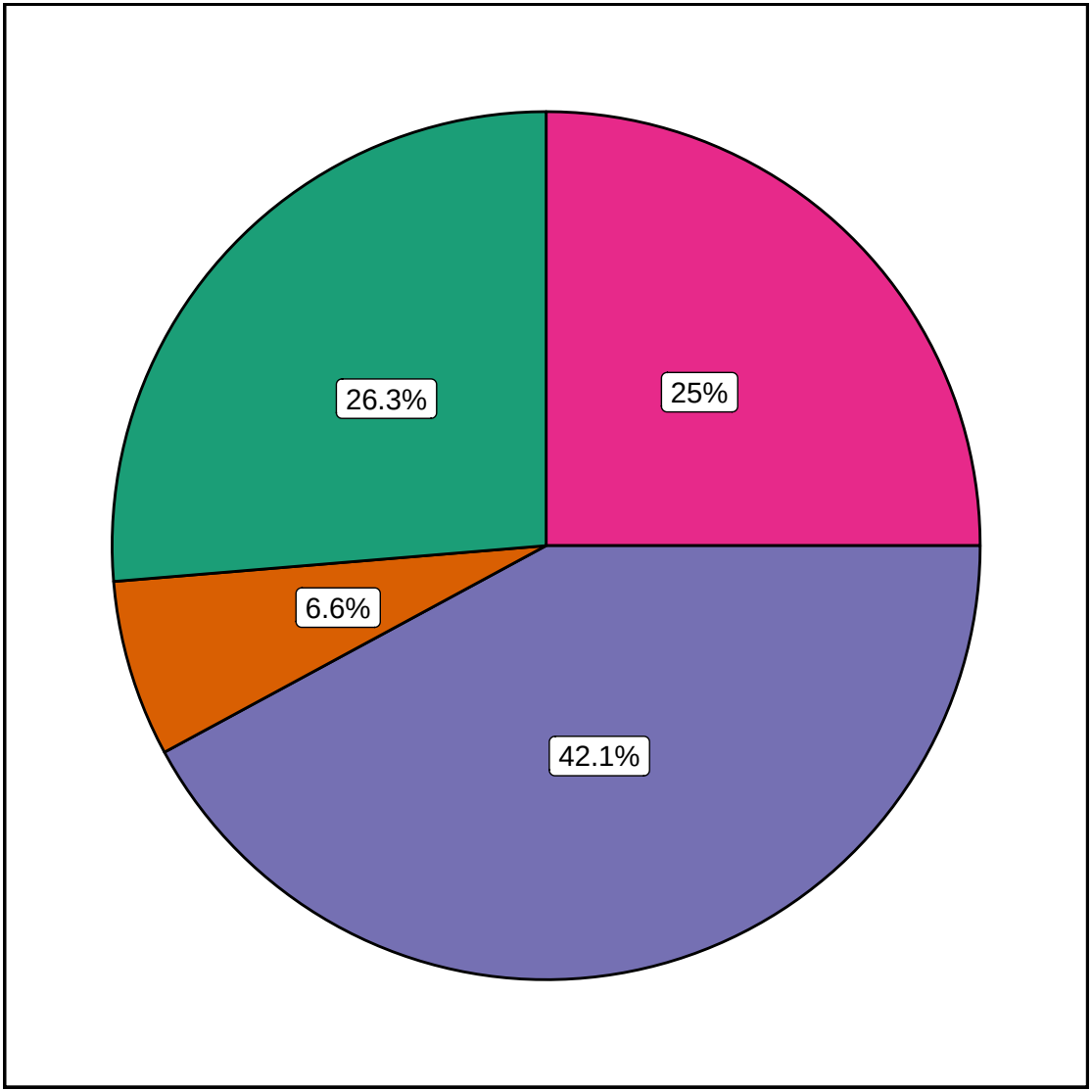

Dataset: Iris
Petal.Length
Sepal.Length
Sepal.Width
0.96
0.87
0.82
−0.12
−0.43
−0.37
Sepal.Length
Petal.Length
Petal.Width
sample size:
n = 150
correlation:
Pearson
1.0
0.5
0.0
−0.5
−1.0
X = correlation non−significant at p < 0.01
Adjustment (p−value): None


Fuel economy data
t(14) = 1.47, p = 0.163, g = 0.36, CI99% [−0.33, 1.10], n = 15
15
20
25
honda
volkswagen
subaru
hyundai
toyota
nissan
audi
pontiac
chevrolet
ford
jeep
mercury
dodge
land rover
lincoln
median = 17
test = 15
100
75
50
25
0
manufacturer
percentile
15
20
25
city miles per gallon
Source: EPA dataset on http://fueleconomy.gov
In favor of null: log_e(BF_01) = 0.44, r^JZS_Cauchy = 0.71

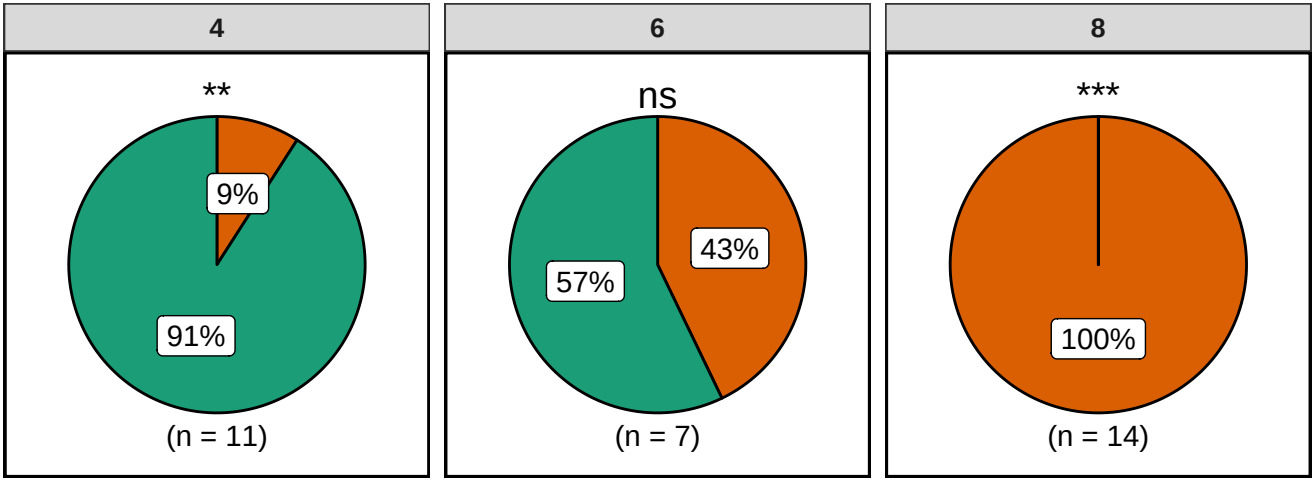

$t(59) = 19.05$, $p = < 0.001$, $g = 2.43$, $CI_{95\%}$ [1.96, 2.99], $n = 60$
12.5
10.0
7.5
5.0
2.5
0.0
count
median = 19.25
10
20
30
Tooth length
In favor of null: $\log_e(BF_{01}) = -54.54$, $r^{JZS}_{Cauchy} = 0.71$


$t(149) = 42.05$, $p = < 0.001$, $g = 3.42$, $CI_{95\%}$ [3.02, 3.86], $n = 150$
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: $\log_e(BF_{01}) = -186.14$, $r^{JZS}_{Cauchy} = 0.80$

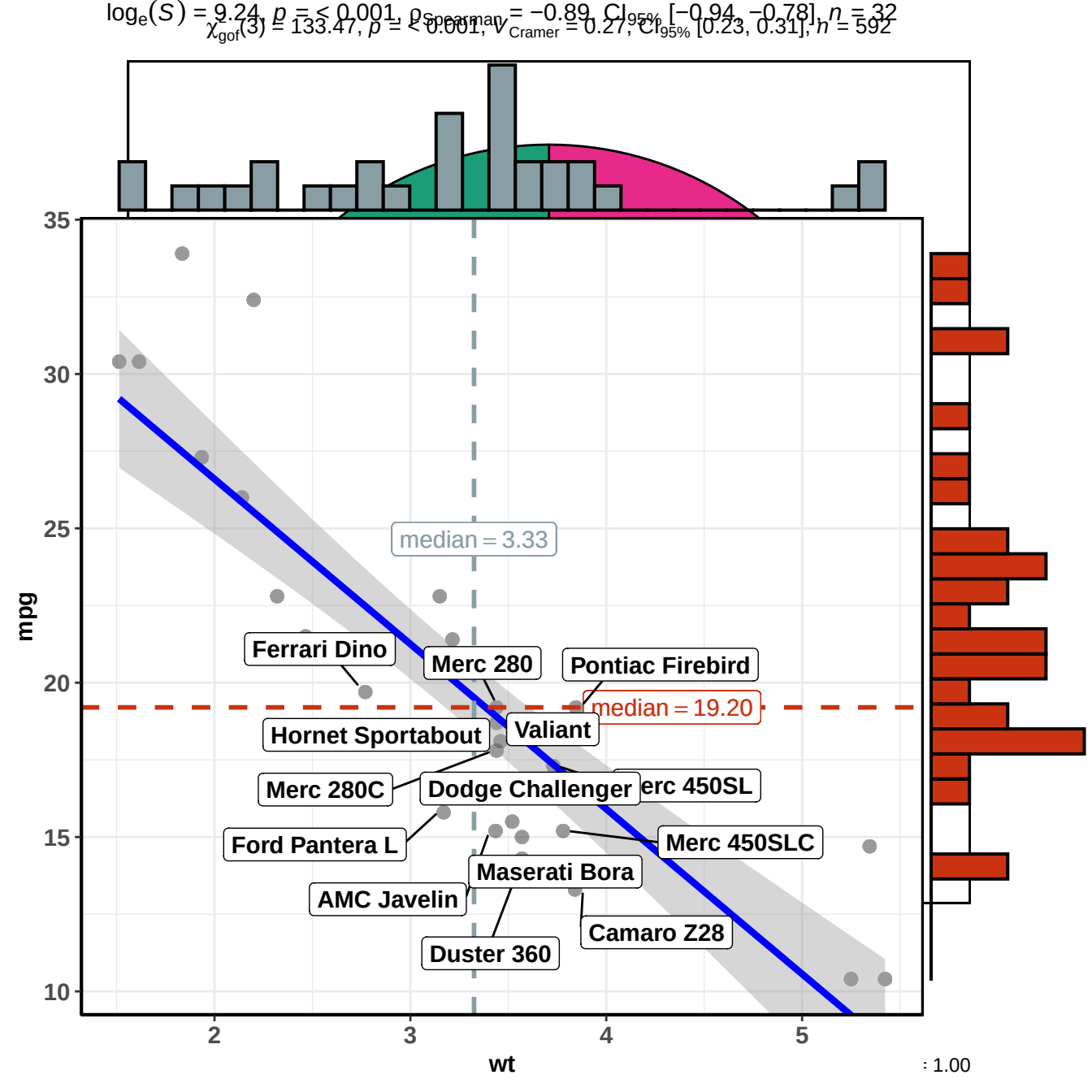
$\chi^2_{gof}(3) = 19.263$, $p = < 0.001$, $V_{Cramer} = 0.291$, $CI_{95\%}$ [0.181, 0.366], $n = 76$

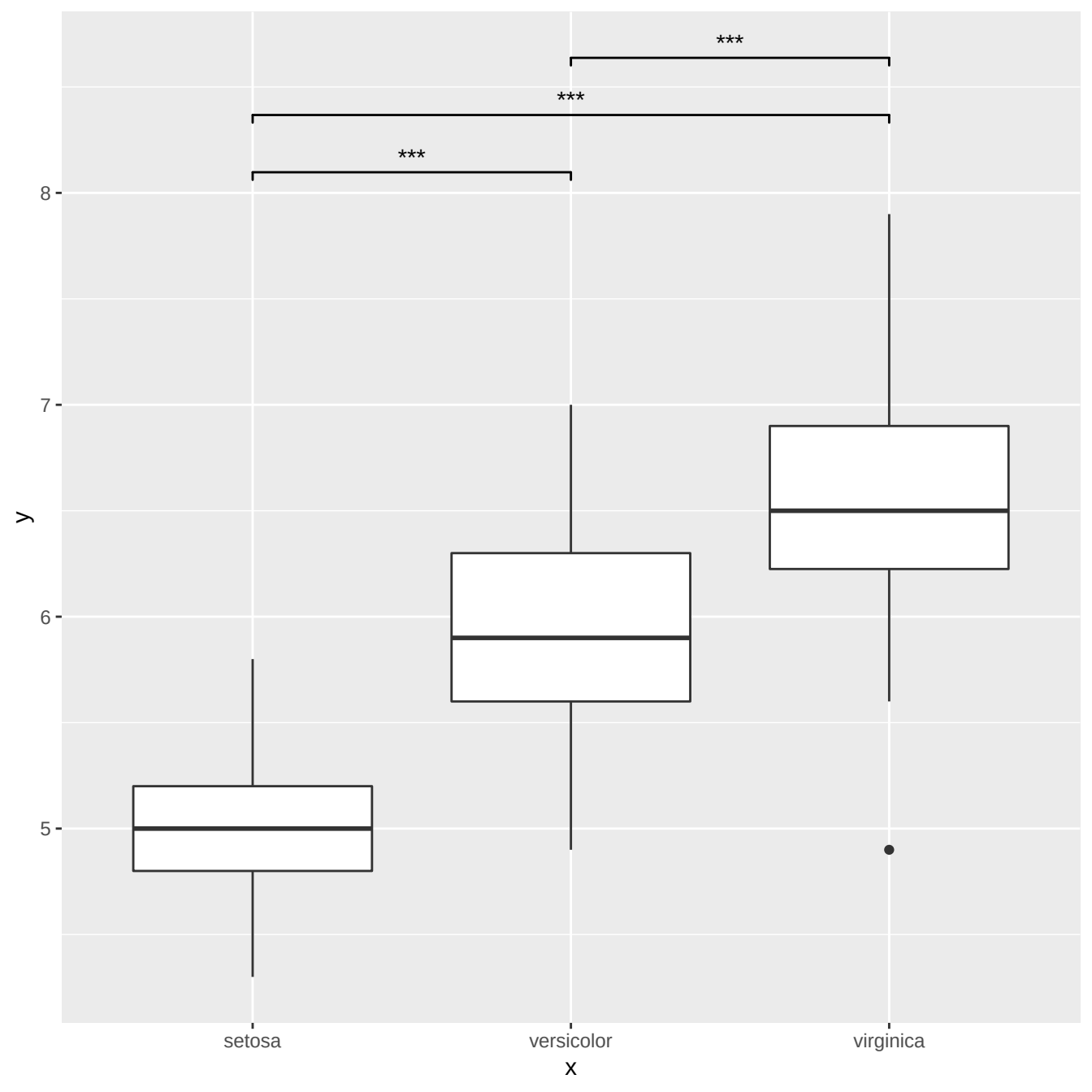


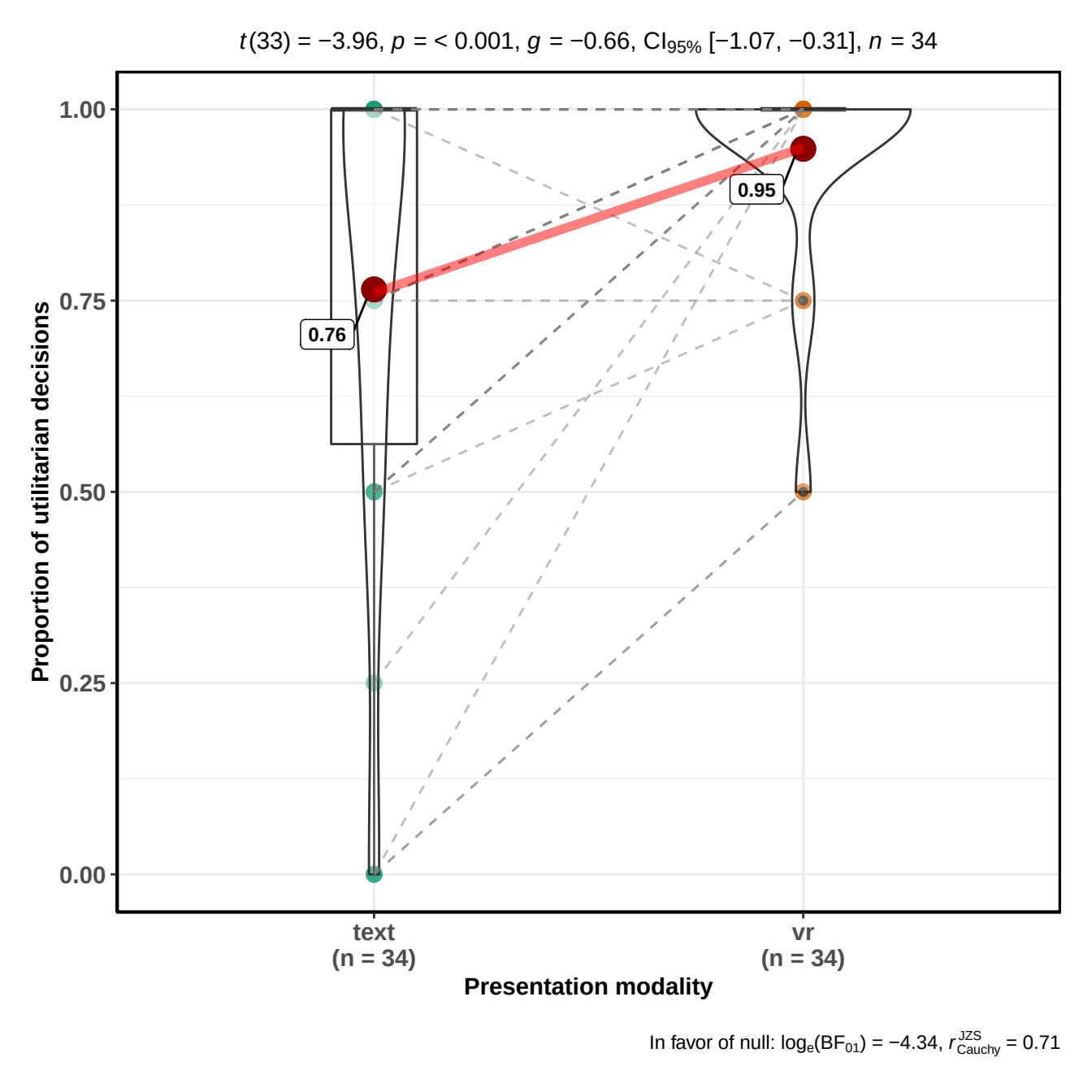
$\chi^2_{Pearson}(2) = 21.34$, $p = < 0.001$, $V_{Cramer} = 0.82$, $CI_{95\%}$ [0.46, 0.62], $n = 32$

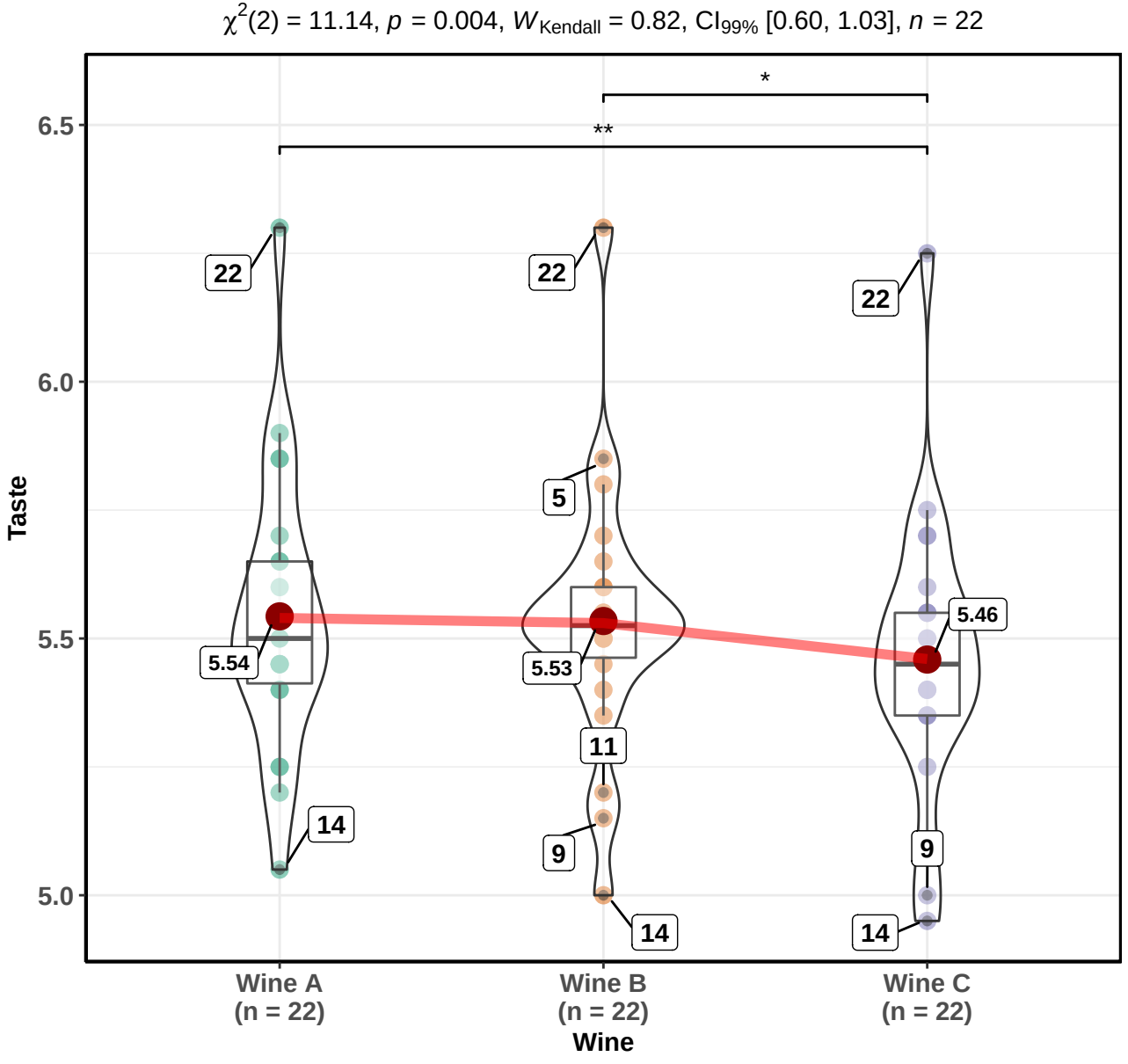



In favor of null: $\log_e(BF_{01}) = -10.31$, sampling = independent multinomial, $a = 1.00$

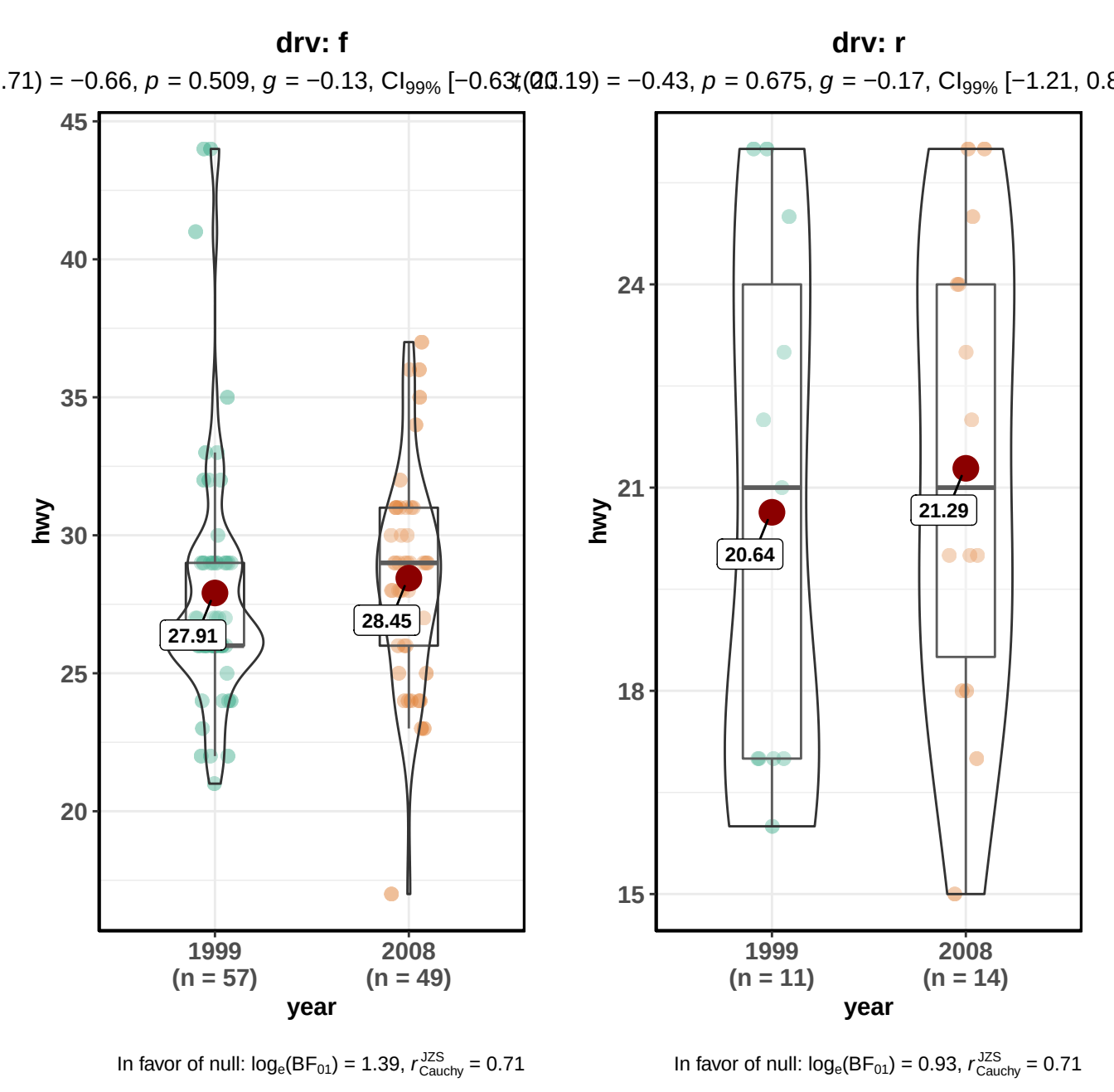

log_e(S) = 9.24, p = < 0.001, ρ_Spearman = −0.89, CI_95% [−0.94, −0.78], n = 32
χ²_gof(3) = 133.47, p = < 0.001, V_Cramer = 0.27, CI_95% [0.23, 0.31], n = 592
median = 3.33
median = 19.20
Ferrari Dino
Merc 280
Pontiac Firebird
Hornet Sportabout
Valiant
Merc 280C
Dodge Challenger
erc 450SL
Ford Pantera 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

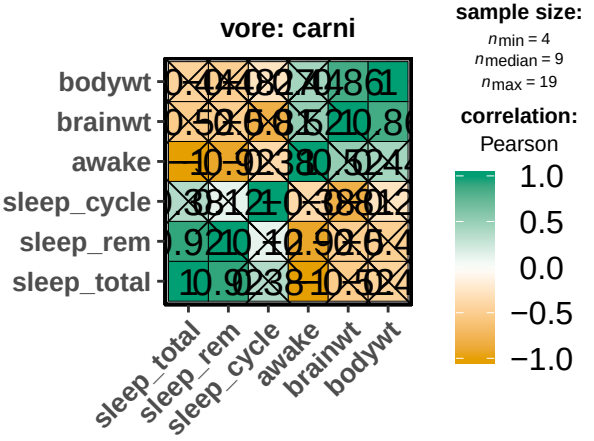

***
***
***
8
7
6
5
y
setosa
versicolor
virginica
x


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



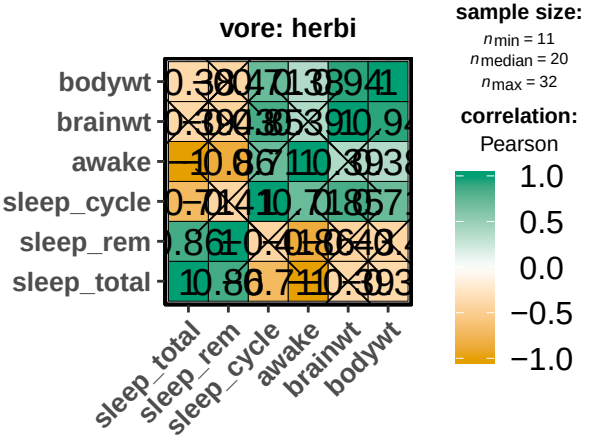

Pairwise comparisons: **Durbin−Conover test**; Adjustment (p−value): **Holm**


drv: f
.71) = −0.66, p = 0.509, g = −0.13, CI99% [−0.63, 0.
t(20.19) = −0.43, p = 0.675, g = −0.17, CI99% [−1.21, 0.8
drv: r
hwy
45
40
35
30
25
20
27.91
28.45
1999
(n = 57)
2008
(n = 49)
year
hwy
24
21
18
15
20.64
21.29
1999
(n = 11)
2008
(n = 14)
year
In favor of null: log_e(BF01) = 1.39, r^JZS_Cauchy = 0.71
In favor of null: log_e(BF01) = 0.93, r^JZS_Cauchy = 0.71



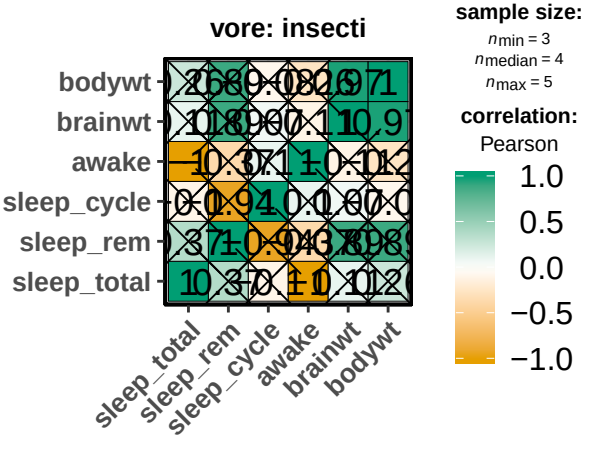

**X** = correlation non−significant at $p < 0.05$

Adjustment (p−value): None



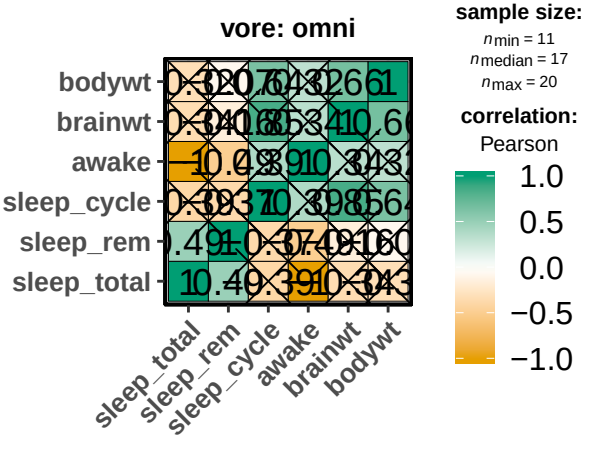

**X** = correlation non−significant at $p < 0.05$

Adjustment (p−value): None



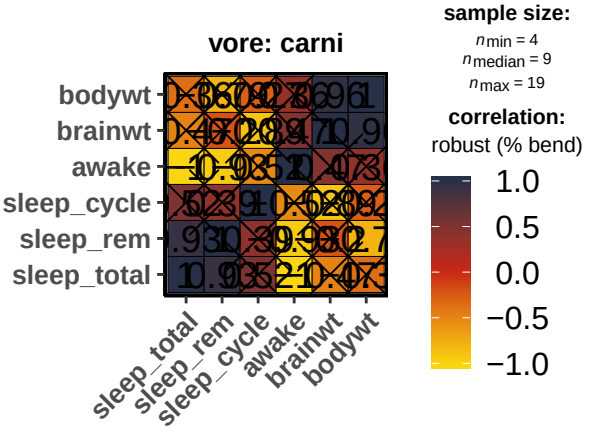

**X** = correlation non−significant at $p < 0.05$

Adjustment (p−value): None



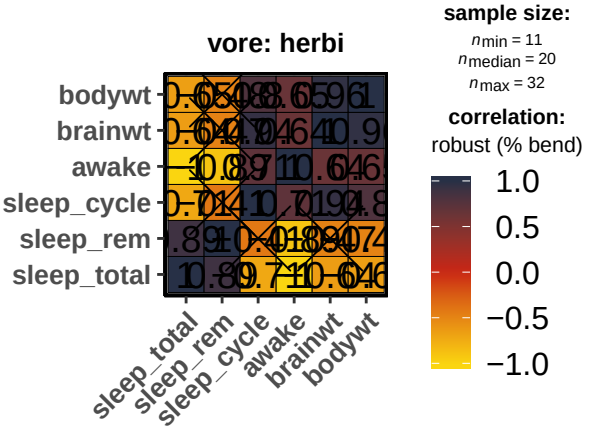

**X** = correlation non−significant at $p < 0.05$

Adjustment (p−value): None



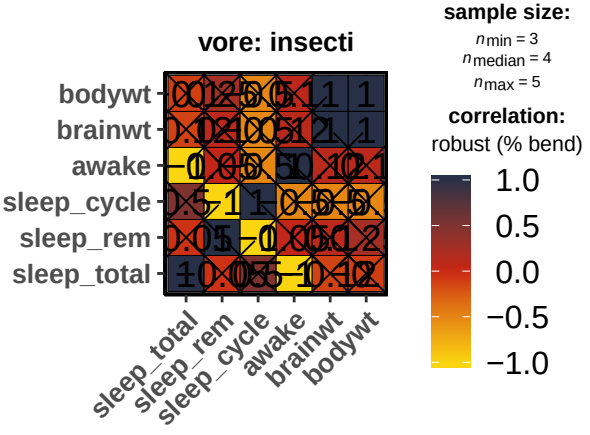

= correlation non−significant at $p < 0.05$

Adjustment (p−value): Holm



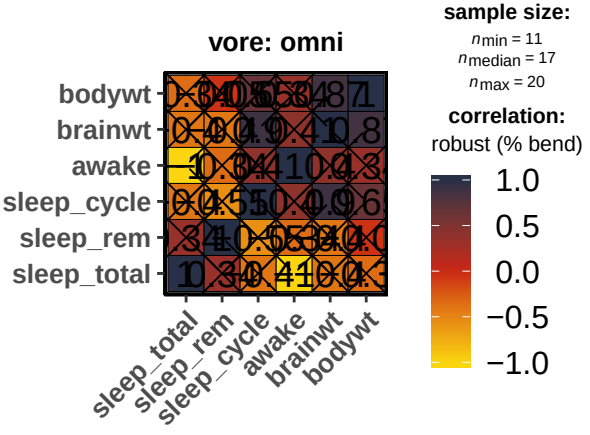

**X** = correlation non−significant at $p < 0.05$

Adjustment (p−value): Holm




= correlation non−significant at $p < 0.05$

Adjustment (p−value): Holm

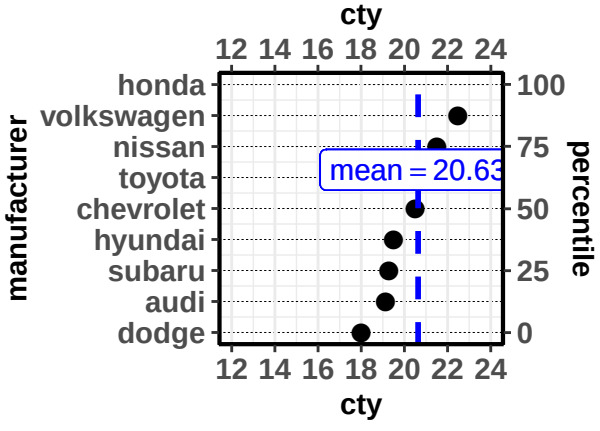



**X** = correlation non−significant at $p < 0.05$

Adjustment (p−value): Holm

## cylinder count: 4

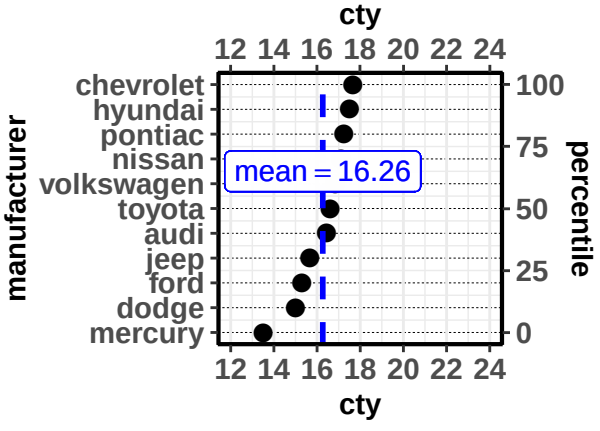
$t(8) = 7.82$, $p = < 0.001$, $g = 2.32$, $CI_{95\%}$ [1.25, 4.25




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

## cylinder count: 6

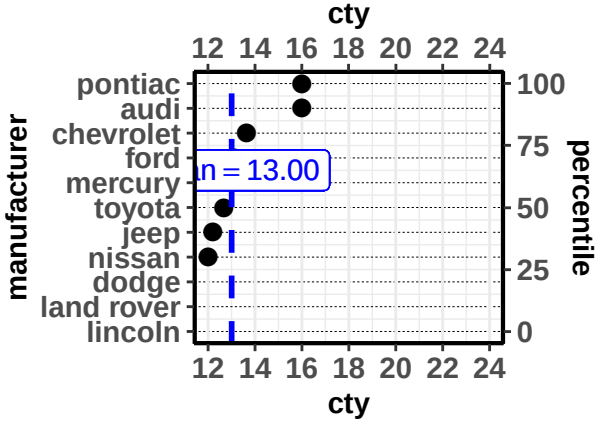
$t(10) = 1.99$, $p = 0.075$, $g = 0.55$, $CI_{95\%}$ [−0.06, 1.29



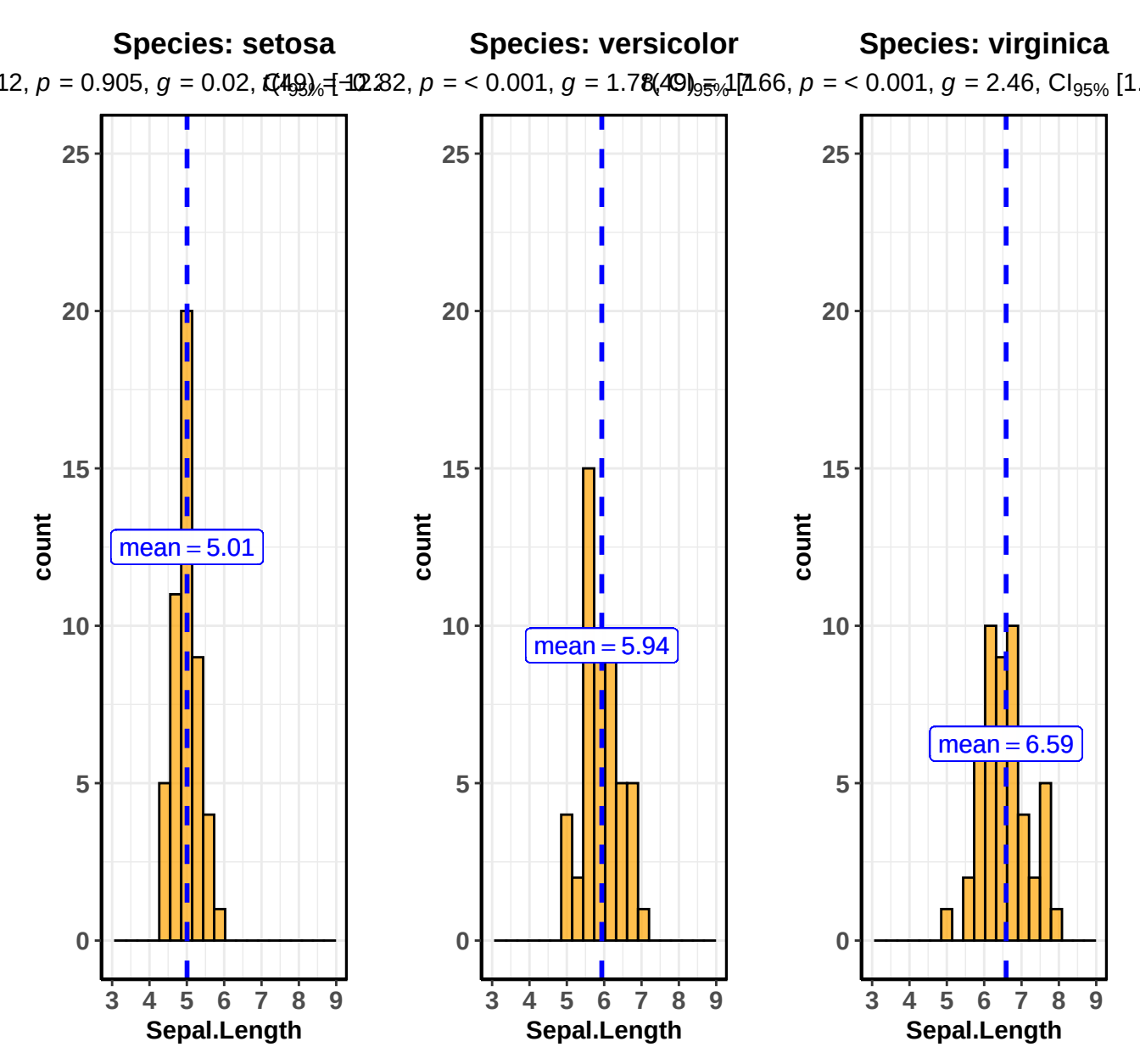

In favor of null: $\log_e(BF_{01}) = -0.23$, $r^{JZS}_{Cauchy} = 0.71$

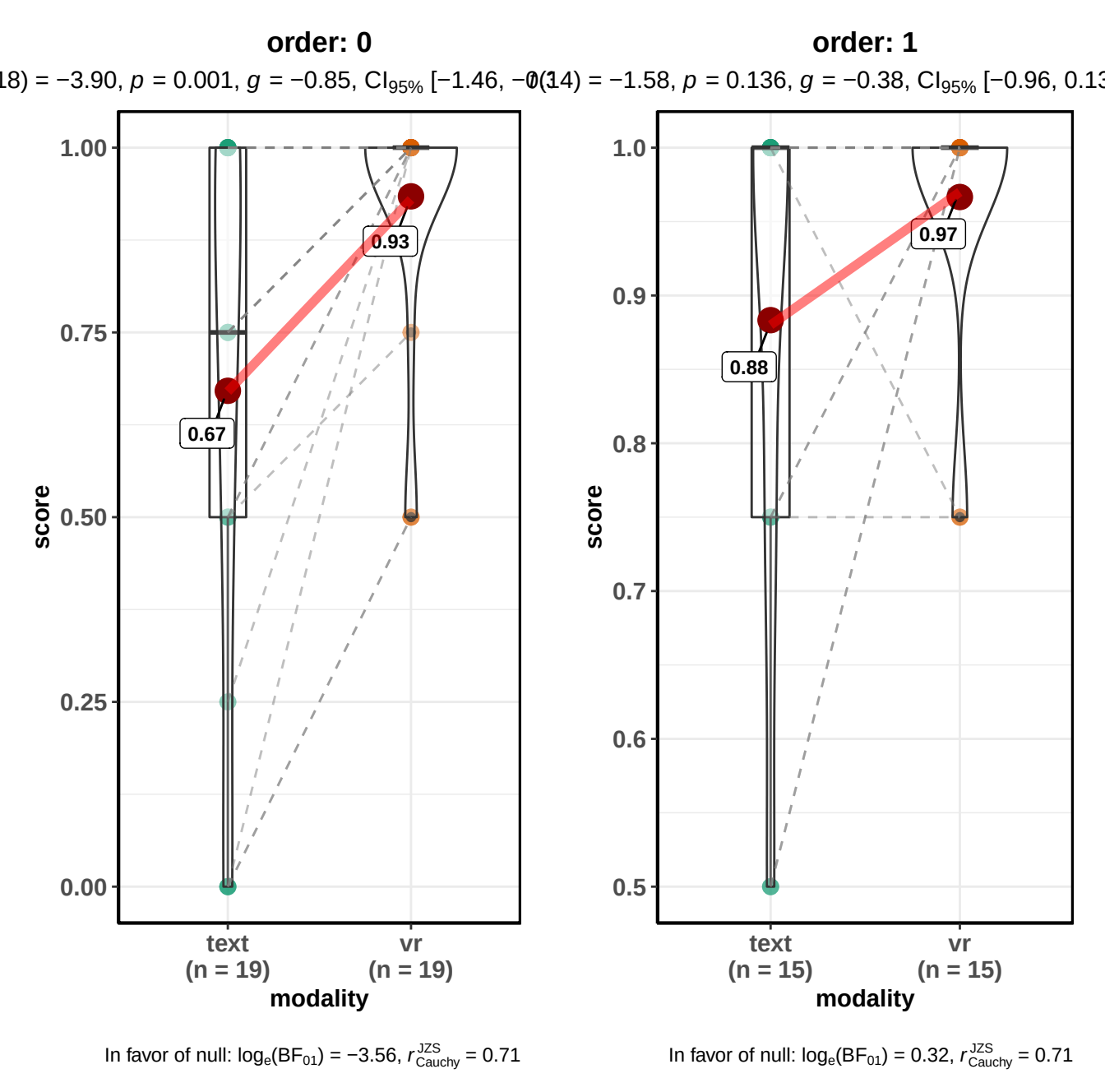
## cylinder count: 8

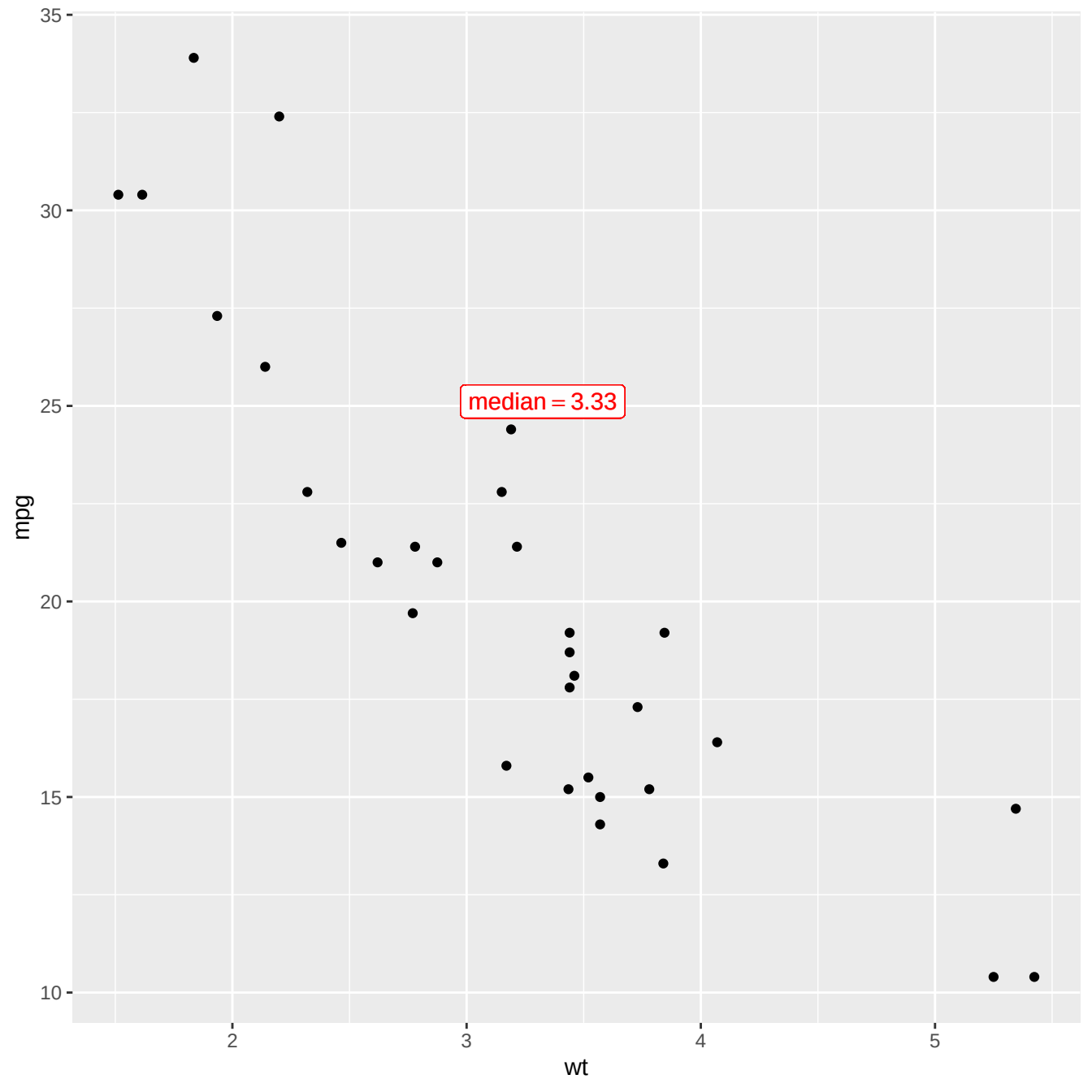
0) = −5.01, $p = 0.001$, $g = -1.38$, $CI_{95\%}$ [−2.49, −0.64], $n = 11$

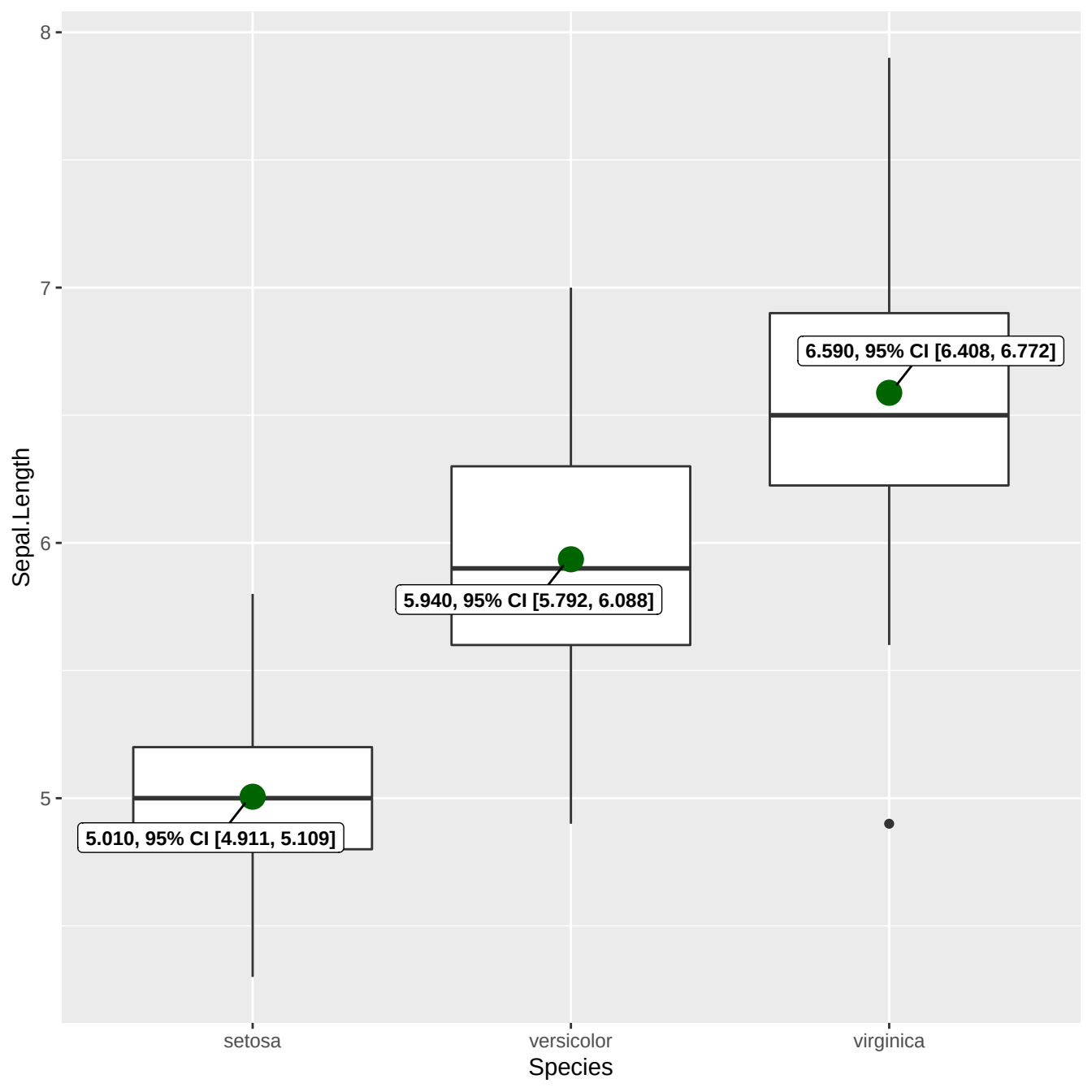



In favor of null: $\log_e(BF_{01}) = -4.24$, $r^{JZS}_{Cauchy} = 0.71$


Species: setosa
12, p = 0.905, g = 0.02, CI95% [−0.2
Species: versicolor
(49) = −12.82, p = < 0.001, g = 1.78, CI95% [1.
Species: virginica
(49) = 17.66, p = < 0.001, g = 2.46, CI95% [1.
count
mean = 5.01
mean = 5.94
mean = 6.59
Sepal.Length
of null: log_e(BF01) = 1.86, r_Cauchy^JZS = 0.71
of null: log_e(BF01) = −32.95, r_Cauchy^JZS = 0.71
of null: log_e(BF01) = −45.50, r_Cauchy^JZS = 0.71


order: 0
18) = −3.90, p = 0.001, g = −0.85, CI95% [−1.46, −0.
order: 1
(14) = −1.58, p = 0.136, g = −0.38, CI95% [−0.96, 0.13
1.00
0.75
0.50
0.25
0.00
score
0.93
0.67
text
(n = 19)
vr
(n = 19)
modality
1.0
0.9
0.8
0.7
0.6
0.5
0.97
0.88
text
(n = 15)
vr
(n = 15)
modality
In favor of null: log_e(BF_01) = −3.56, r^JZS_Cauchy = 0.71
In favor of null: log_e(BF_01) = 0.32, r^JZS_Cauchy = 0.71


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


8
7
6
5
Sepal.Length
6.590, 95% CI [6.408, 6.772]
5.940, 95% CI [5.792, 6.088]
5.010, 95% CI [4.911, 5.109]
setosa
versicolor
virginica
Species