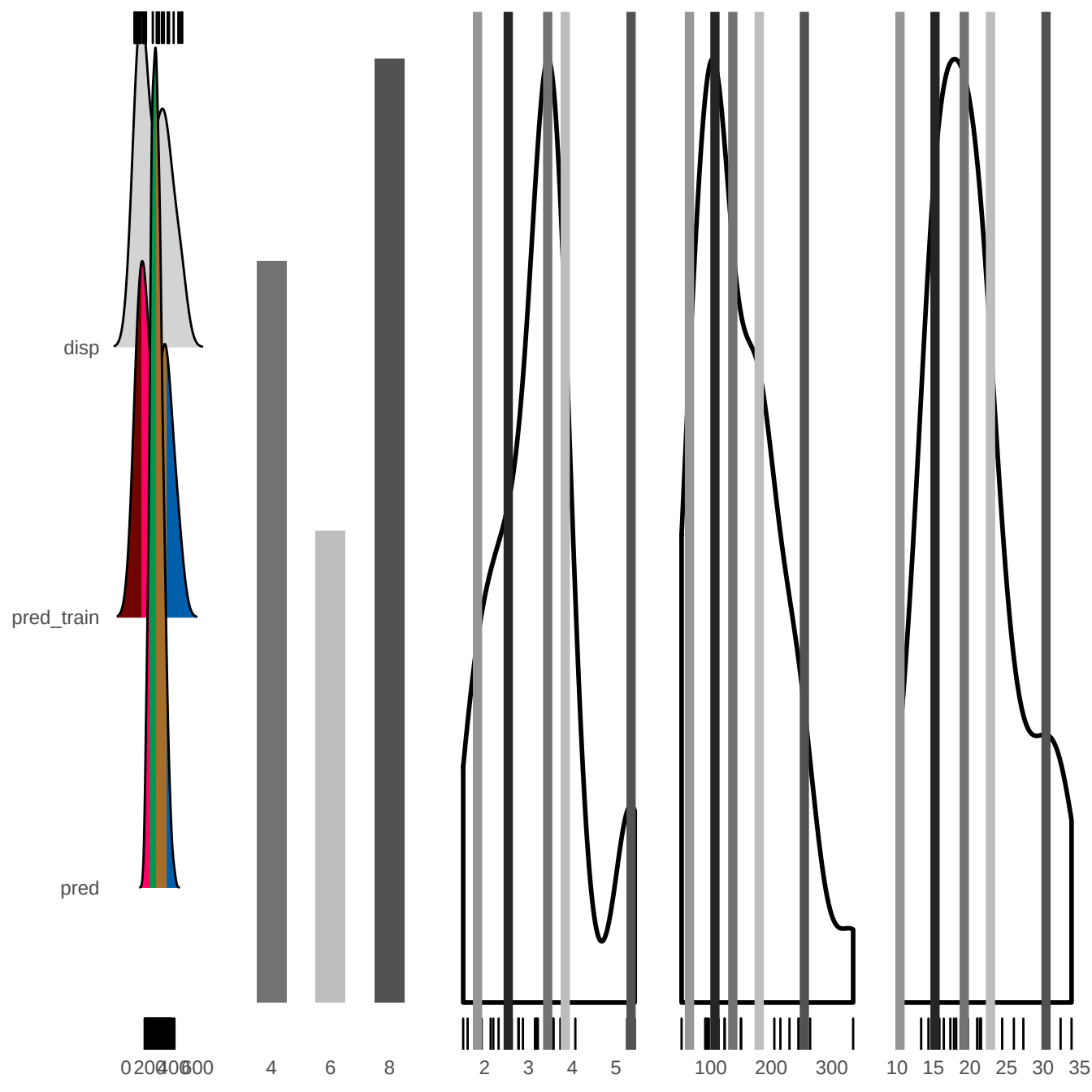
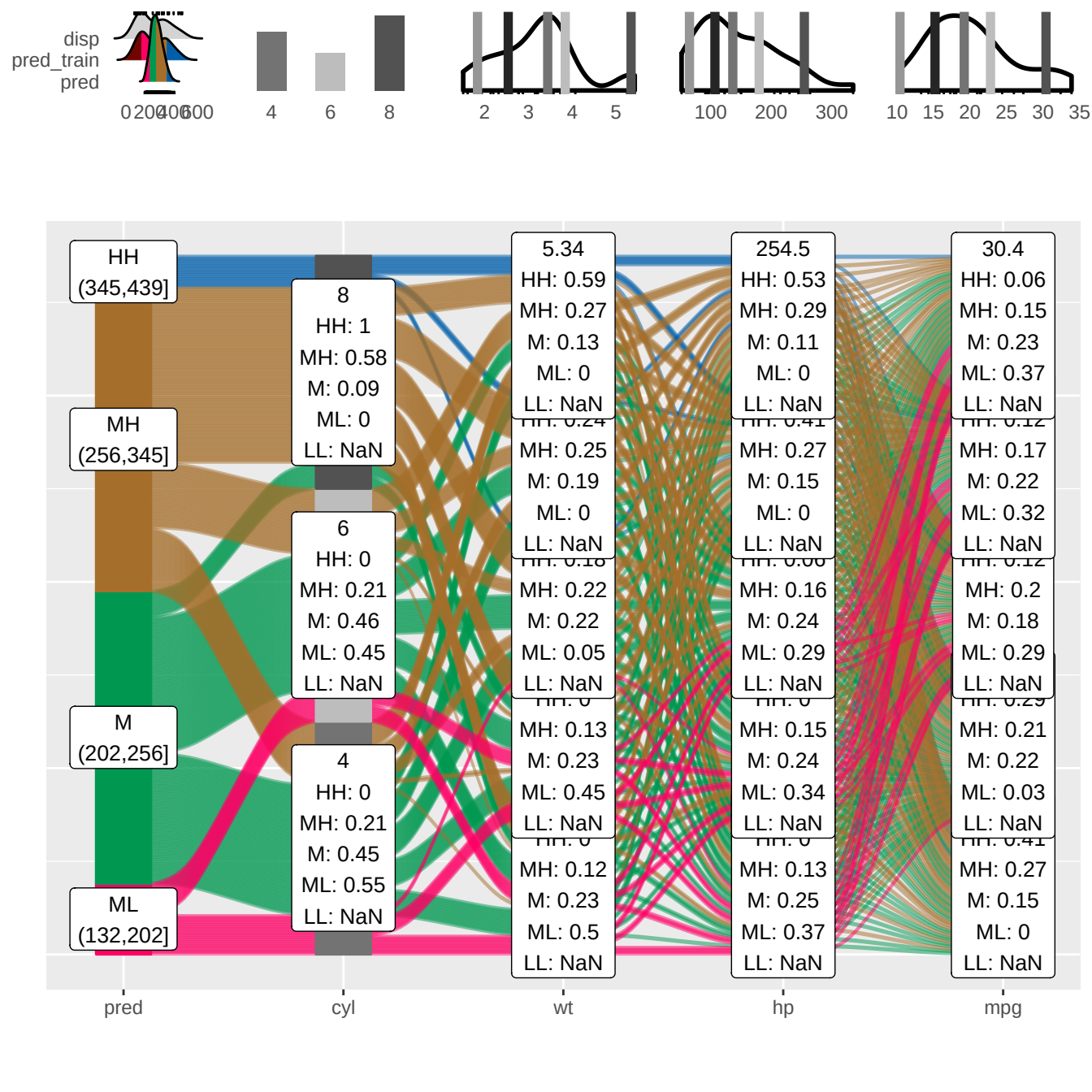
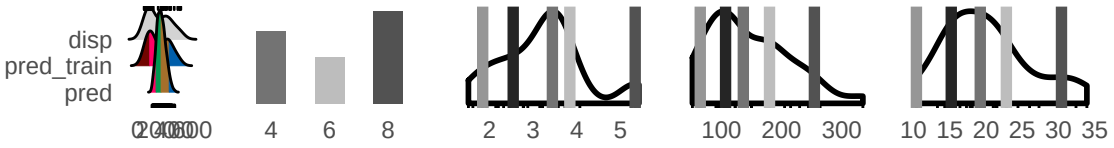
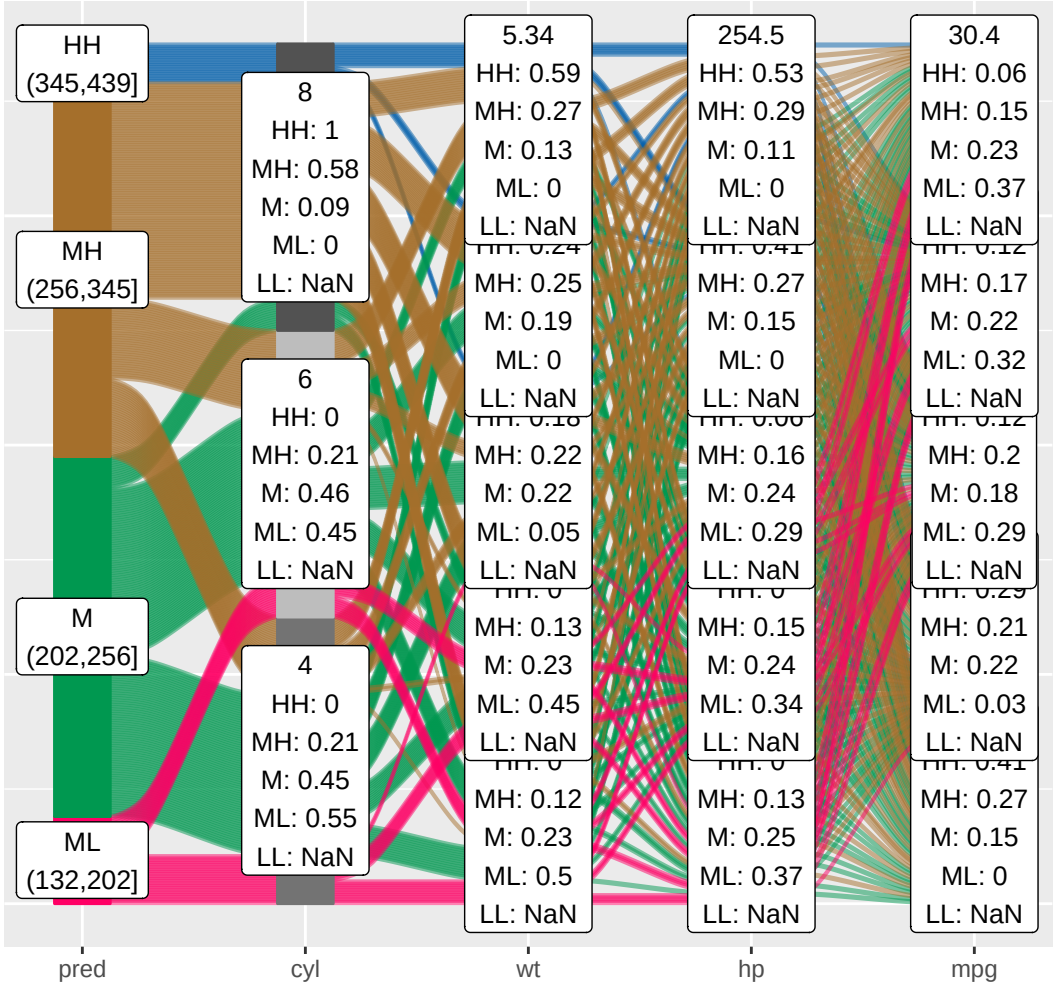
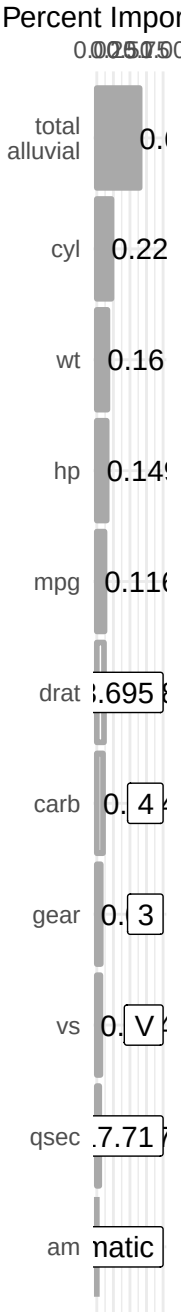
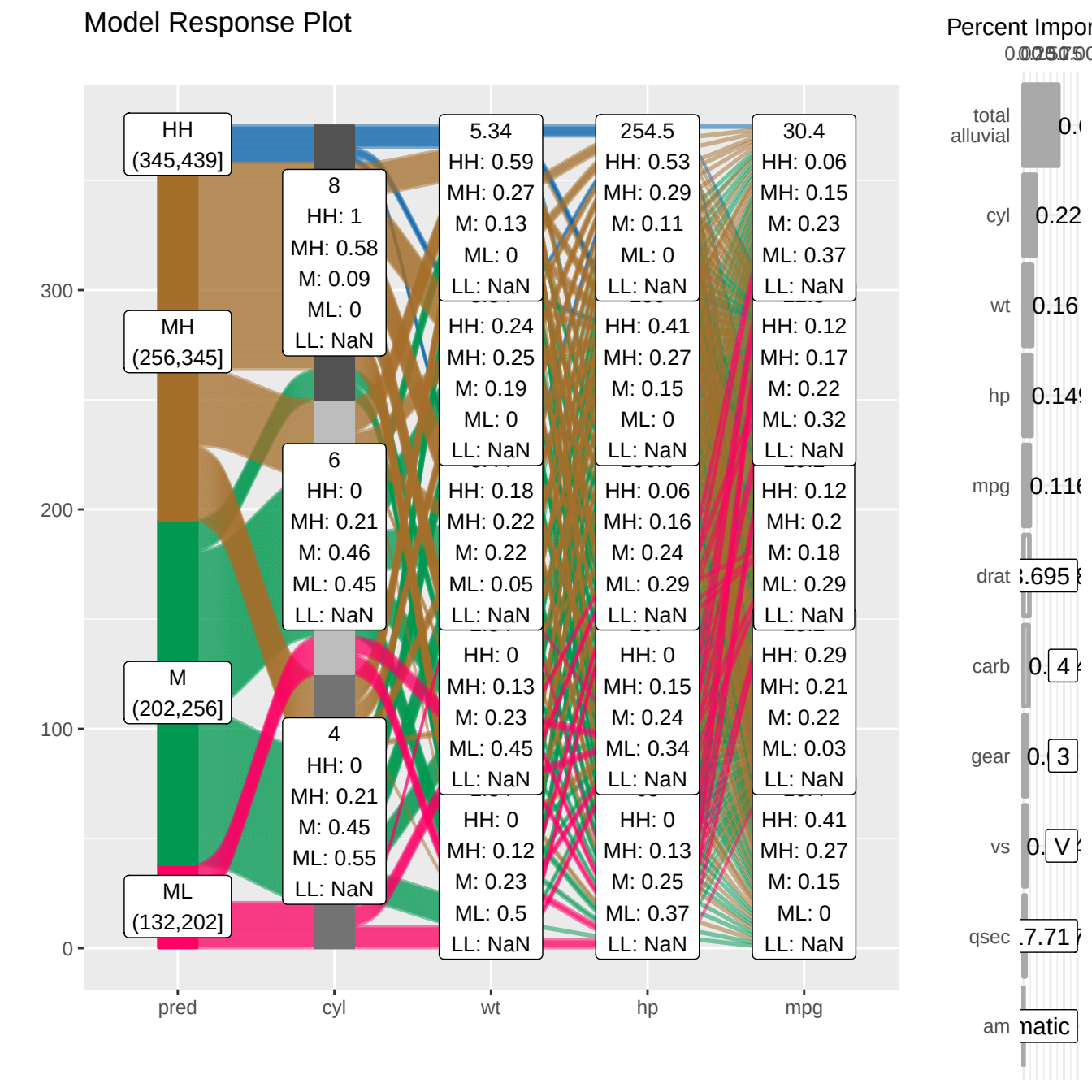

disp
pred_train
pred
0
200
400
600
4
6
8
2
3
4
5
100
200
300
10
15
20
25
30
35


disp
pred_train
pred
0 200 400 600
4 6 8
2 3 4 5
100 200 300
10 15 20 25 30 35
HH
(345,439]
MH
(256,345]
M
(202,256]
ML
(132,202]
8
HH: 1
MH: 0.58
M: 0.09
ML: 0
LL: NaN
6
HH: 0
MH: 0.21
M: 0.46
ML: 0.45
LL: NaN
4
HH: 0
MH: 0.21
M: 0.45
ML: 0.55
LL: NaN
5.34
HH: 0.59
MH: 0.27
M: 0.13
ML: 0
LL: NaN
MH: 0.25
M: 0.19
ML: 0
LL: NaN
MH: 0.22
M: 0.22
ML: 0.05
LL: NaN
MH: 0.13
M: 0.23
ML: 0.45
LL: NaN
MH: 0.12
M: 0.23
ML: 0.5
LL: NaN
254.5
HH: 0.53
MH: 0.29
M: 0.11
ML: 0
LL: NaN
MH: 0.27
M: 0.15
ML: 0
LL: NaN
MH: 0.16
M: 0.24
ML: 0.29
LL: NaN
MH: 0.15
M: 0.24
ML: 0.34
LL: NaN
MH: 0.13
M: 0.25
ML: 0.37
LL: NaN
30.4
HH: 0.06
MH: 0.15
M: 0.23
ML: 0.37
LL: NaN
MH: 0.17
M: 0.22
ML: 0.32
LL: NaN
MH: 0.2
M: 0.18
ML: 0.29
LL: NaN
MH: 0.21
M: 0.22
ML: 0.03
LL: NaN
MH: 0.27
M: 0.15
ML: 0
LL: NaN
pred
cyl
wt
hp
mpg

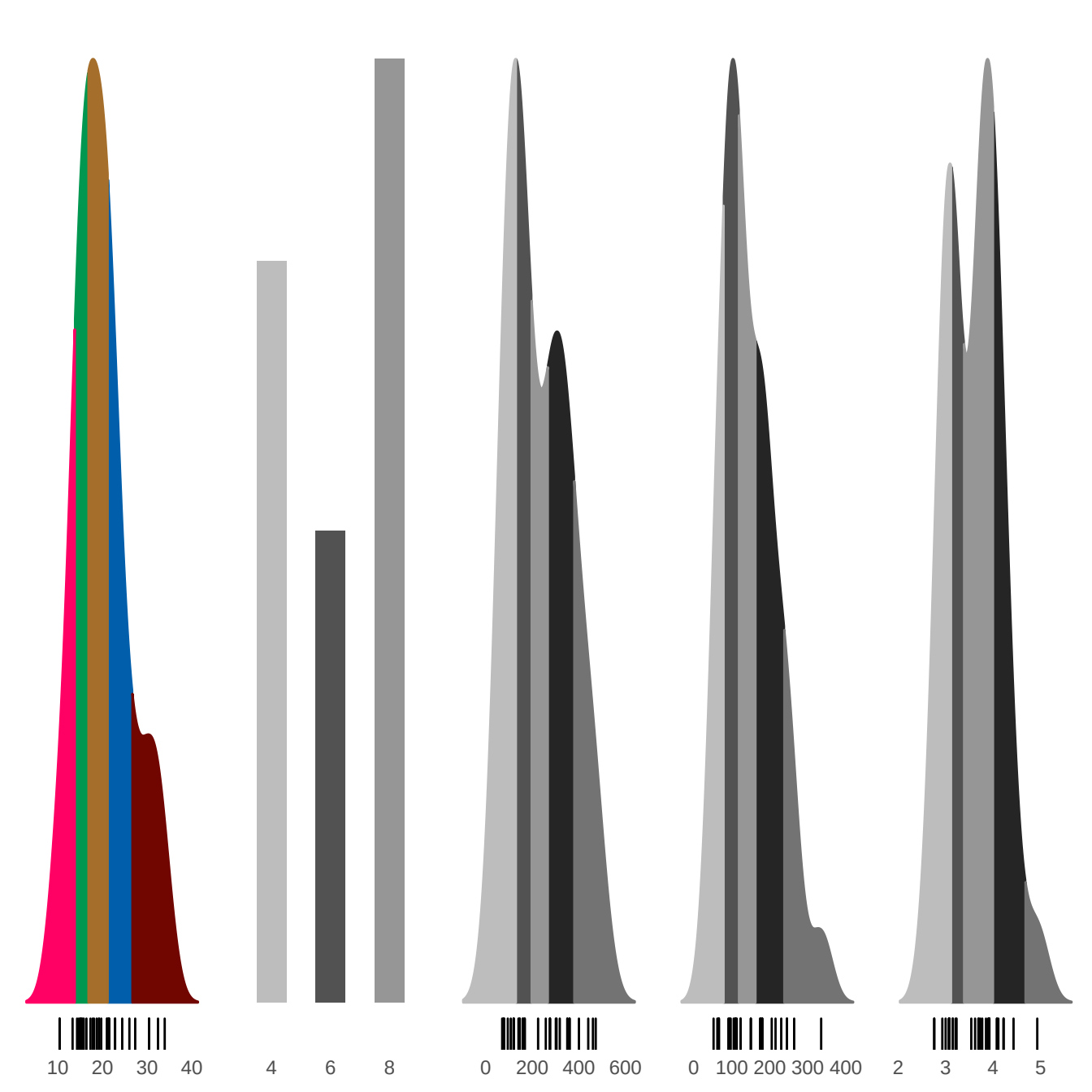

disp
pred_train
pred
4
6
8
2
3
4
5
100
200
300
10
15
20
25
30
35

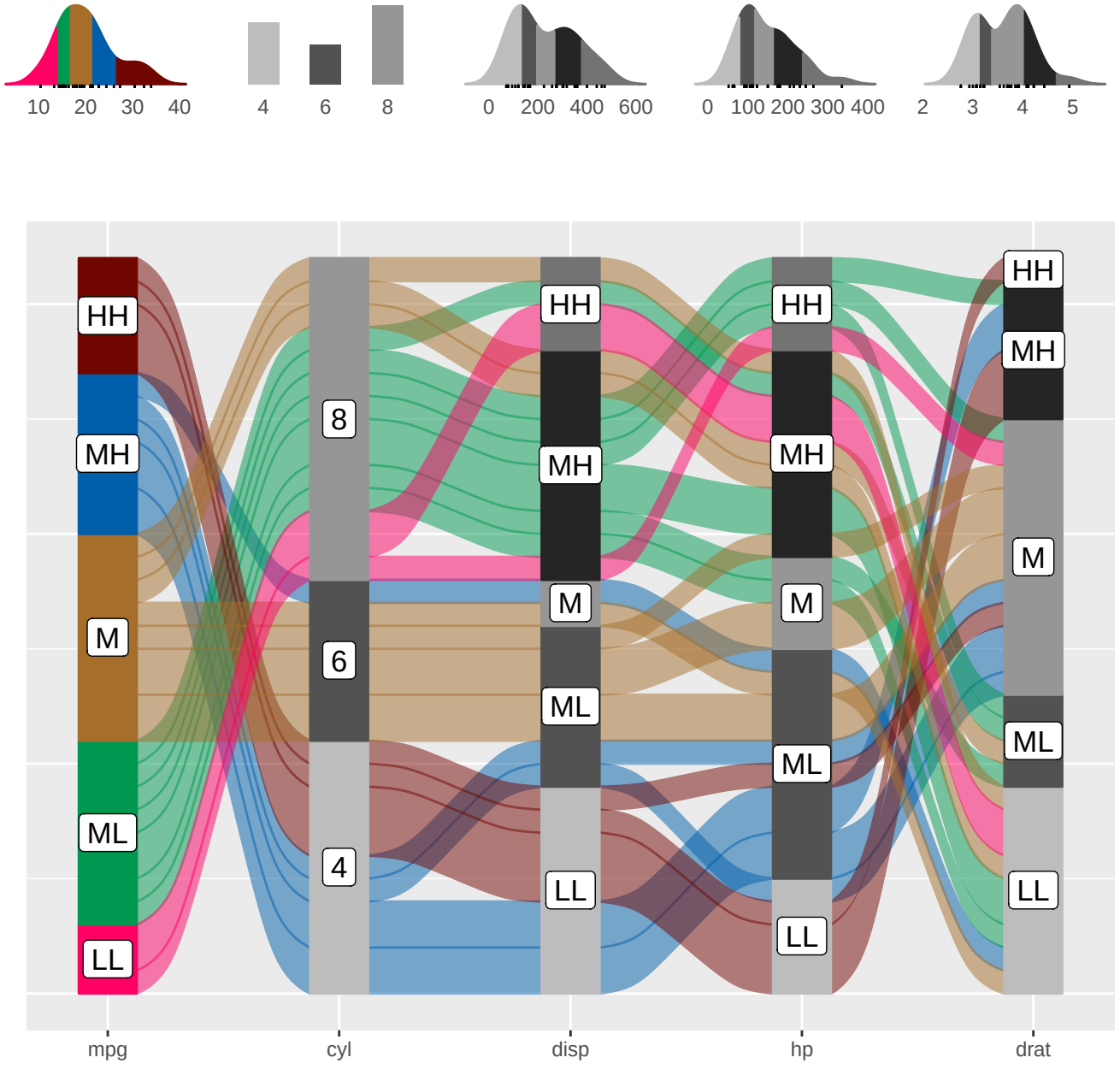

HH
(345,439]
MH
(256,345]
M
(202,256]
ML
(132,202]
8
HH: 1
MH: 0.58
M: 0.09
ML: 0
LL: NaN
6
HH: 0
MH: 0.21
M: 0.46
ML: 0.45
LL: NaN
4
HH: 0
MH: 0.21
M: 0.45
ML: 0.55
LL: NaN
5.34
HH: 0.59
MH: 0.27
M: 0.13
ML: 0
LL: NaN
MH: 0.25
M: 0.19
ML: 0
LL: NaN
MH: 0.22
M: 0.22
ML: 0.05
LL: NaN
MH: 0.13
M: 0.23
ML: 0.45
LL: NaN
MH: 0.12
M: 0.23
ML: 0.5
LL: NaN
254.5
HH: 0.53
MH: 0.29
M: 0.11
ML: 0
LL: NaN
MH: 0.27
M: 0.15
ML: 0
LL: NaN
MH: 0.16
M: 0.24
ML: 0.29
LL: NaN
MH: 0.15
M: 0.24
ML: 0.34
LL: NaN
MH: 0.13
M: 0.25
ML: 0.37
LL: NaN
30.4
HH: 0.06
MH: 0.15
M: 0.23
ML: 0.37
LL: NaN
MH: 0.17
M: 0.22
ML: 0.32
LL: NaN
MH: 0.2
M: 0.18
ML: 0.29
LL: NaN
MH: 0.21
M: 0.22
ML: 0.03
LL: NaN
MH: 0.27
M: 0.15
ML: 0
LL: NaN
pred
cyl
wt
hp
mpg

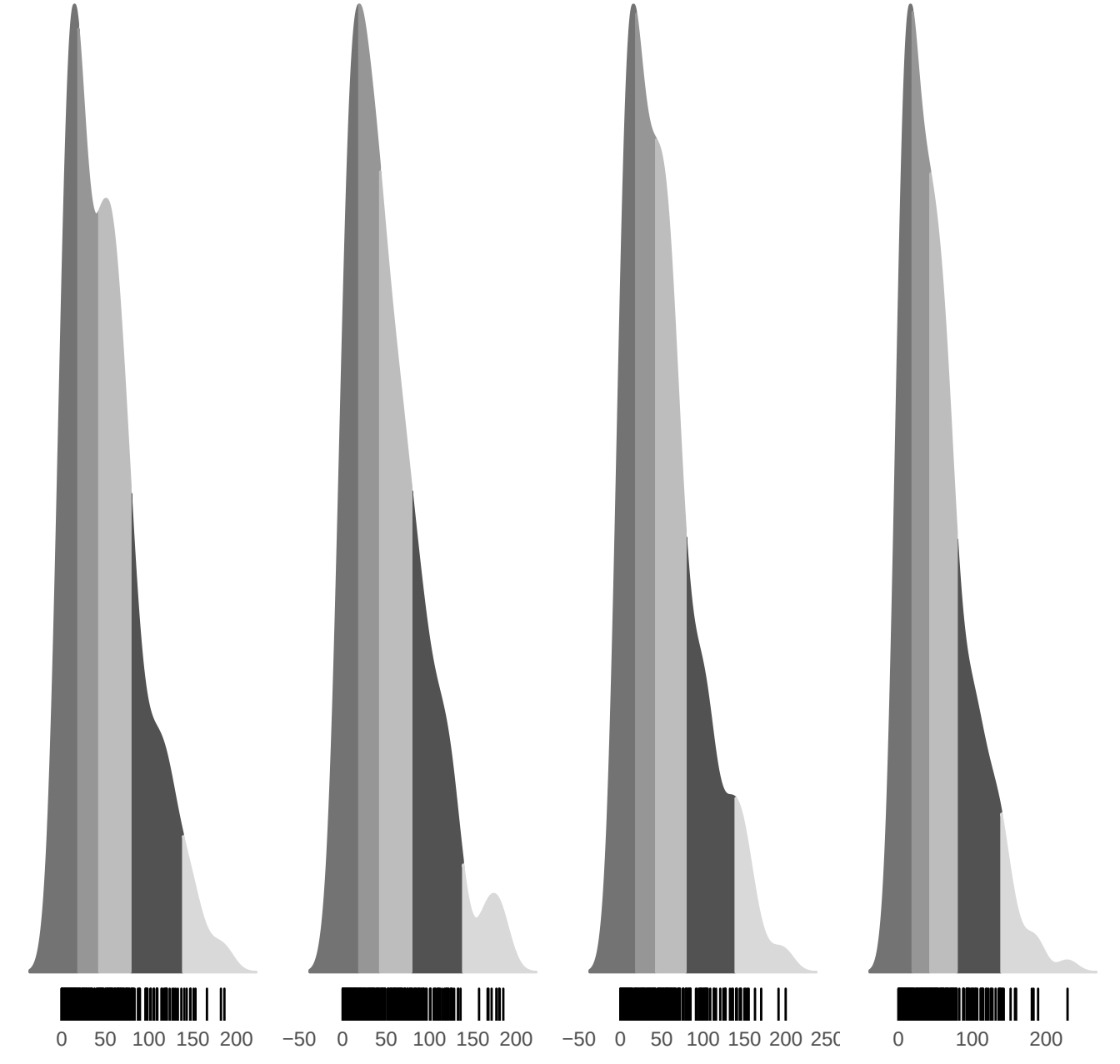

Percent Impor
total
alluvial
cyl
0.22
wt
0.16
hp
mpg
drat
carb
4
gear
3
vs
V
qsec
7.71
am
natic

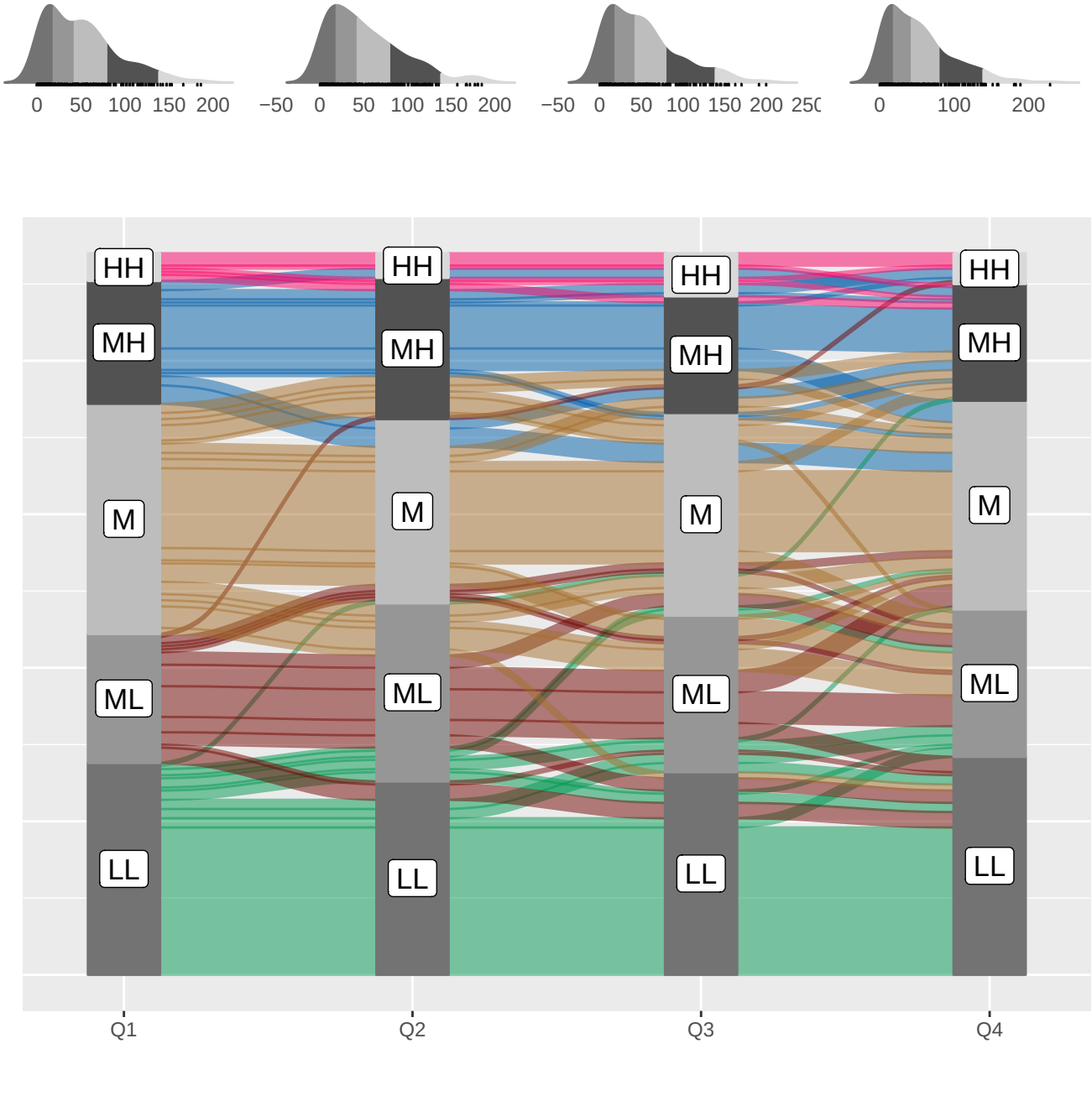


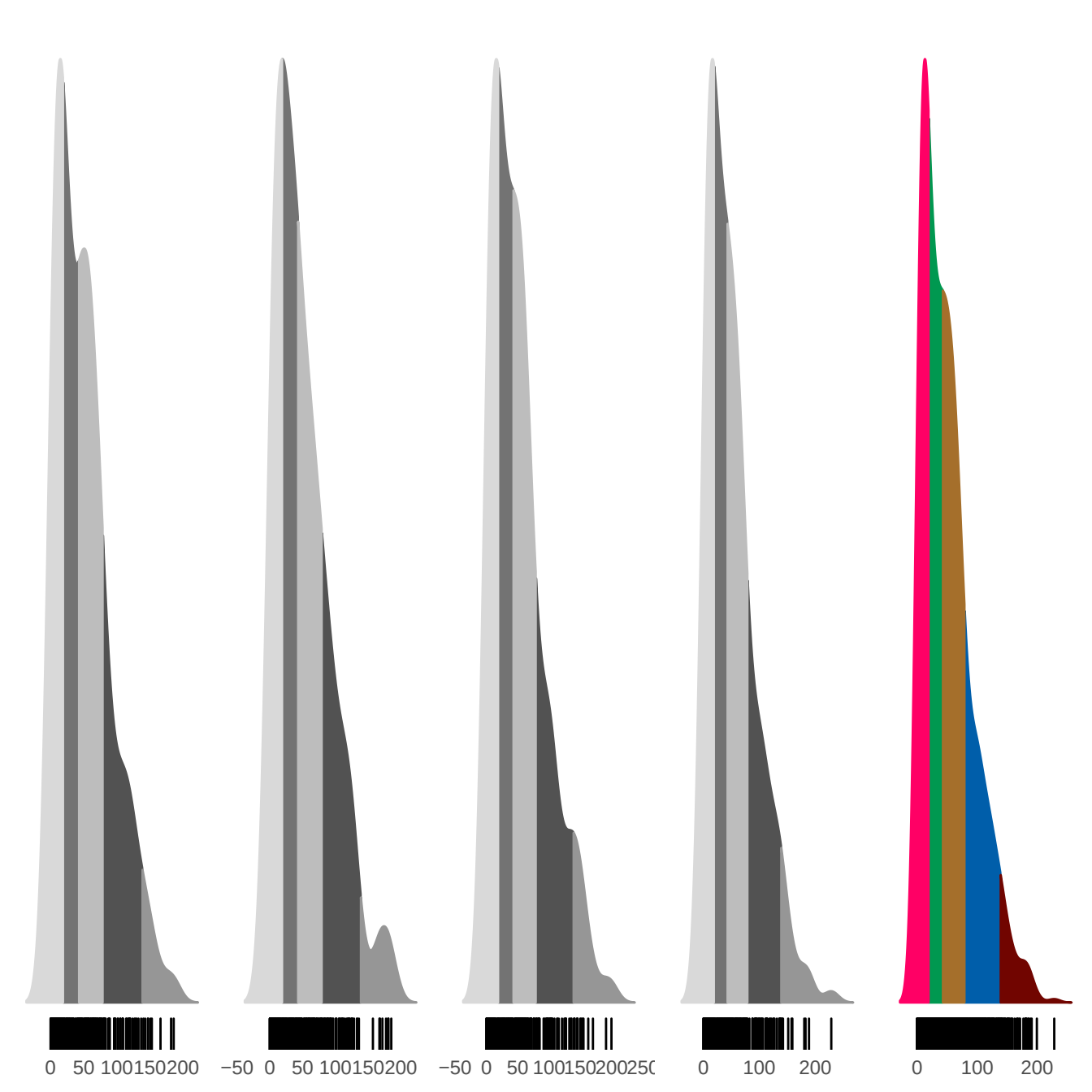
Model Response Plot
Percent Impor
HH (345,439]
MH (256,345]
M (202,256]
ML (132,202]
8 HH: 1 MH: 0.58 M: 0.09 ML: 0 LL: NaN
6 HH: 0 MH: 0.21 M: 0.46 ML: 0.45 LL: NaN
4 HH: 0 MH: 0.21 M: 0.45 ML: 0.55 LL: NaN
5.34 HH: 0.59 MH: 0.27 M: 0.13 ML: 0 LL: NaN
HH: 0.24 MH: 0.25 M: 0.19 ML: 0 LL: NaN
HH: 0.18 MH: 0.22 M: 0.22 ML: 0.05 LL: NaN
HH: 0 MH: 0.13 M: 0.23 ML: 0.45 LL: NaN
HH: 0 MH: 0.12 M: 0.23 ML: 0.5 LL: NaN
254.5 HH: 0.53 MH: 0.29 M: 0.11 ML: 0 LL: NaN
HH: 0.41 MH: 0.27 M: 0.15 ML: 0 LL: NaN
HH: 0.06 MH: 0.16 M: 0.24 ML: 0.29 LL: NaN
HH: 0 MH: 0.15 M: 0.24 ML: 0.34 LL: NaN
HH: 0 MH: 0.13 M: 0.25 ML: 0.37 LL: NaN
30.4 HH: 0.06 MH: 0.15 M: 0.23 ML: 0.37 LL: NaN
HH: 0.12 MH: 0.17 M: 0.22 ML: 0.32 LL: NaN
HH: 0.12 MH: 0.2 M: 0.18 ML: 0.29 LL: NaN
HH: 0.29 MH: 0.21 M: 0.22 ML: 0.03 LL: NaN
HH: 0.41 MH: 0.27 M: 0.15 ML: 0 LL: NaN
300
200
100
0
pred
cyl
wt
hp
mpg
total alluvial
cyl
wt
hp
mpg
drat
carb
gear
vs
qsec
am

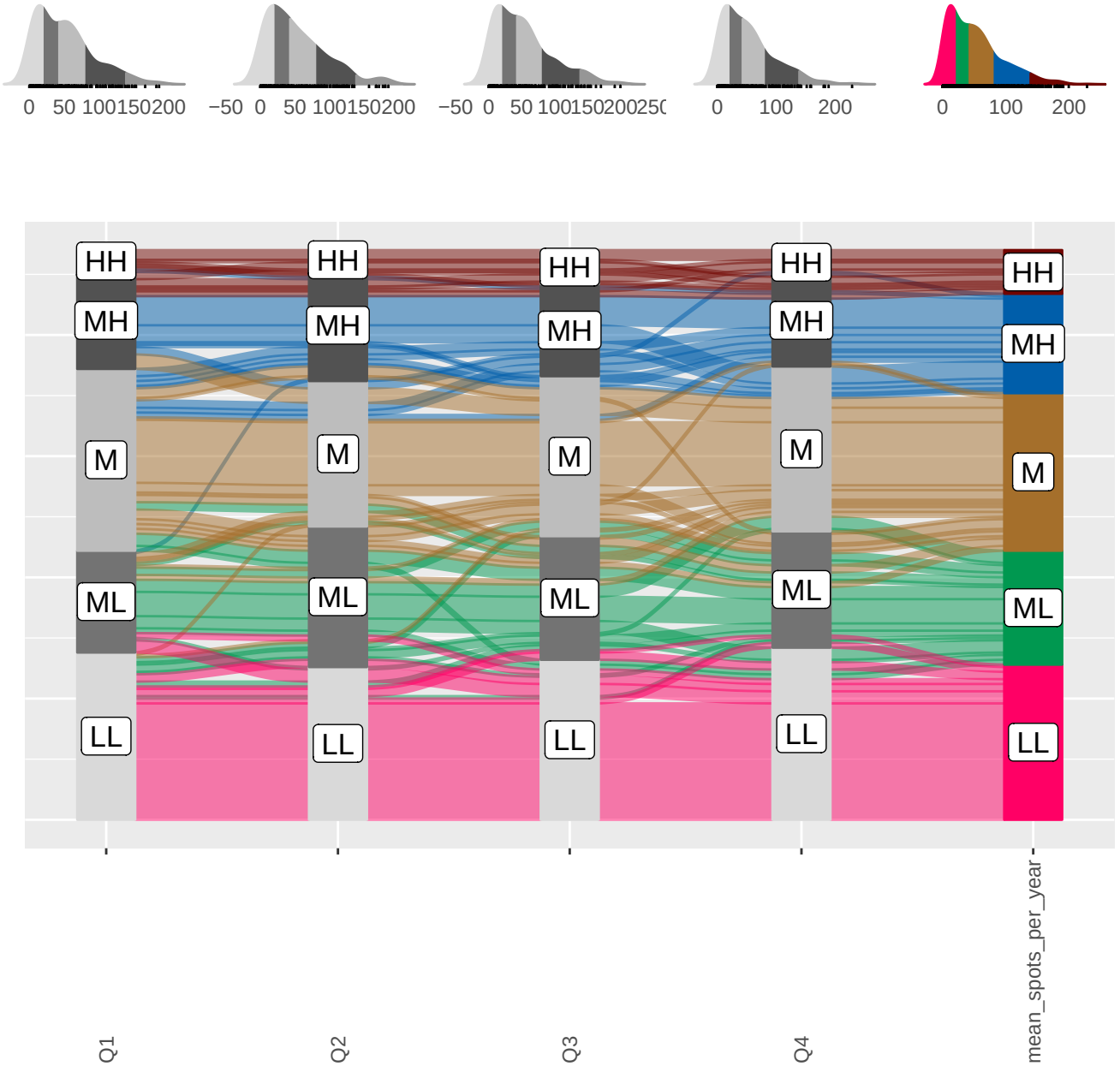

10
20
30
40
4
6
8
0
200
400
600
0
100
200
300
400
2
3
4
5

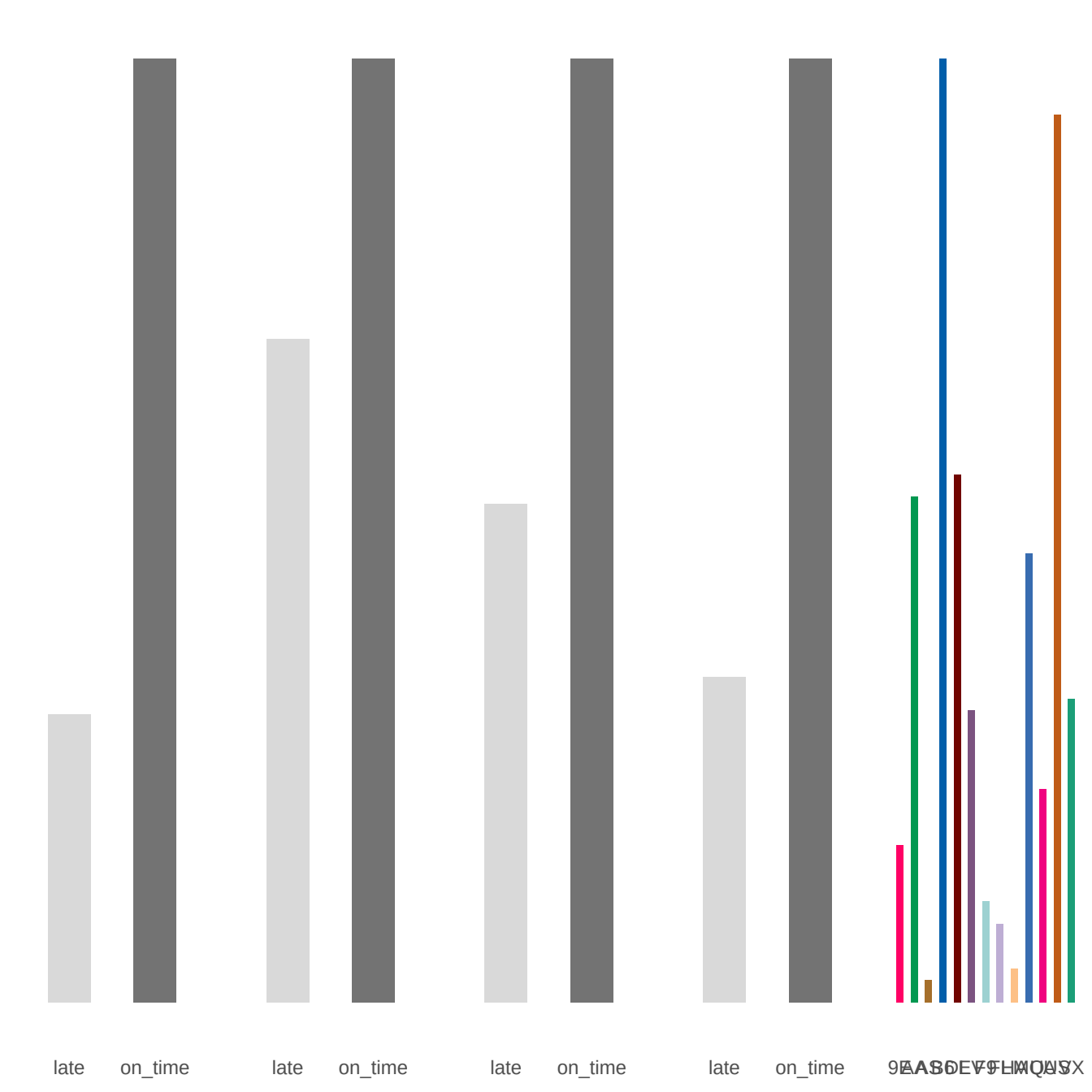

10 20 30 40
4 6 8
0 200 400 600
0 100 200 300 400
2 3 4 5
HH
MH
M
ML
LL
8
6
4
HH
MH
M
ML
LL
HH
MH
M
ML
LL
HH
MH
M
ML
LL
mpg
cyl
disp
hp
drat

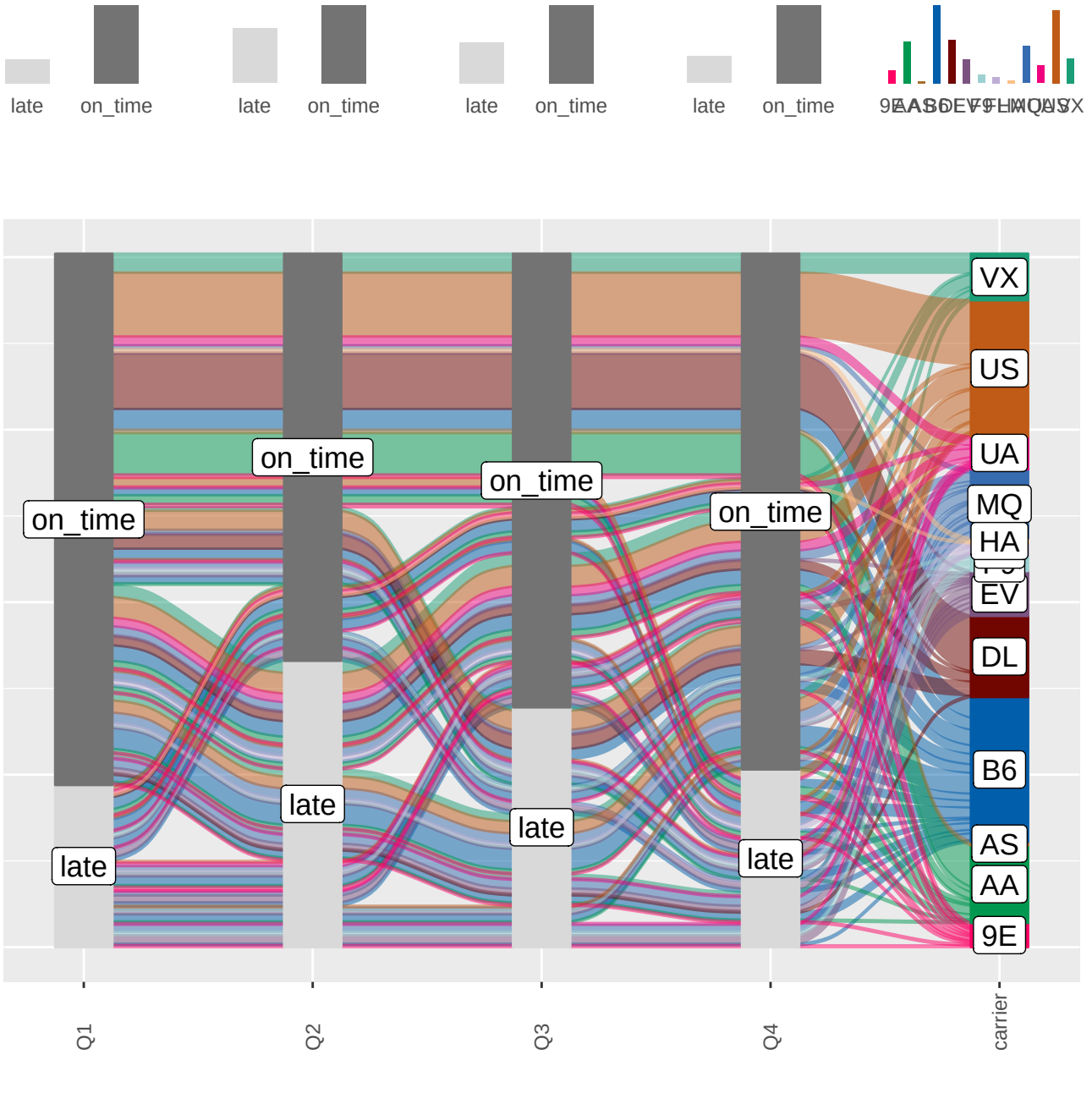

0 50 100 150 200
−50 0 50 100 150 200
−50 0 50 100 150 200 250
0 100 200

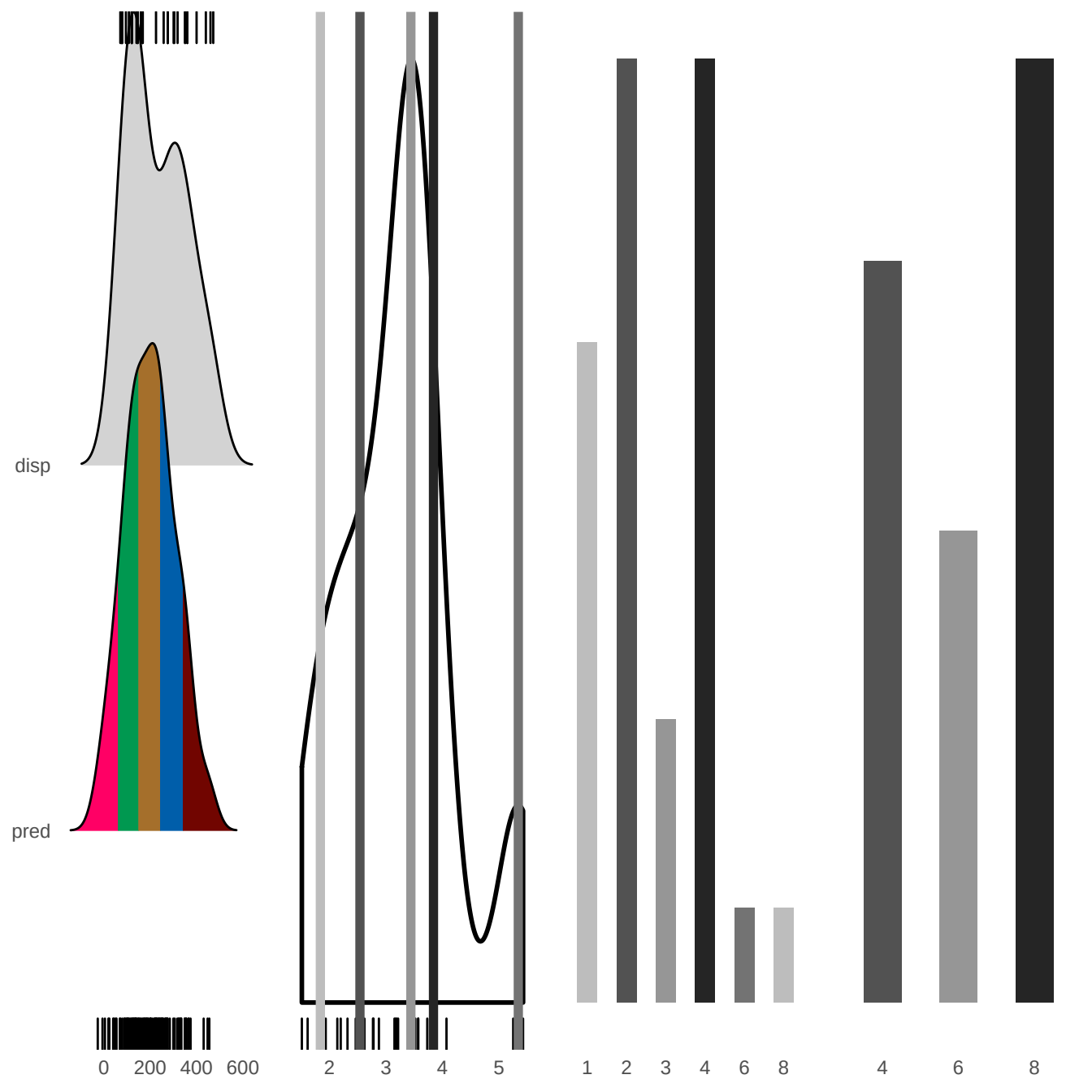

0 50 100 150 200
−50 0 50 100 150 200
−50 0 50 100 150 200 250
0 100 200
HH
MH
M
ML
LL
Q1
Q2
Q3
Q4

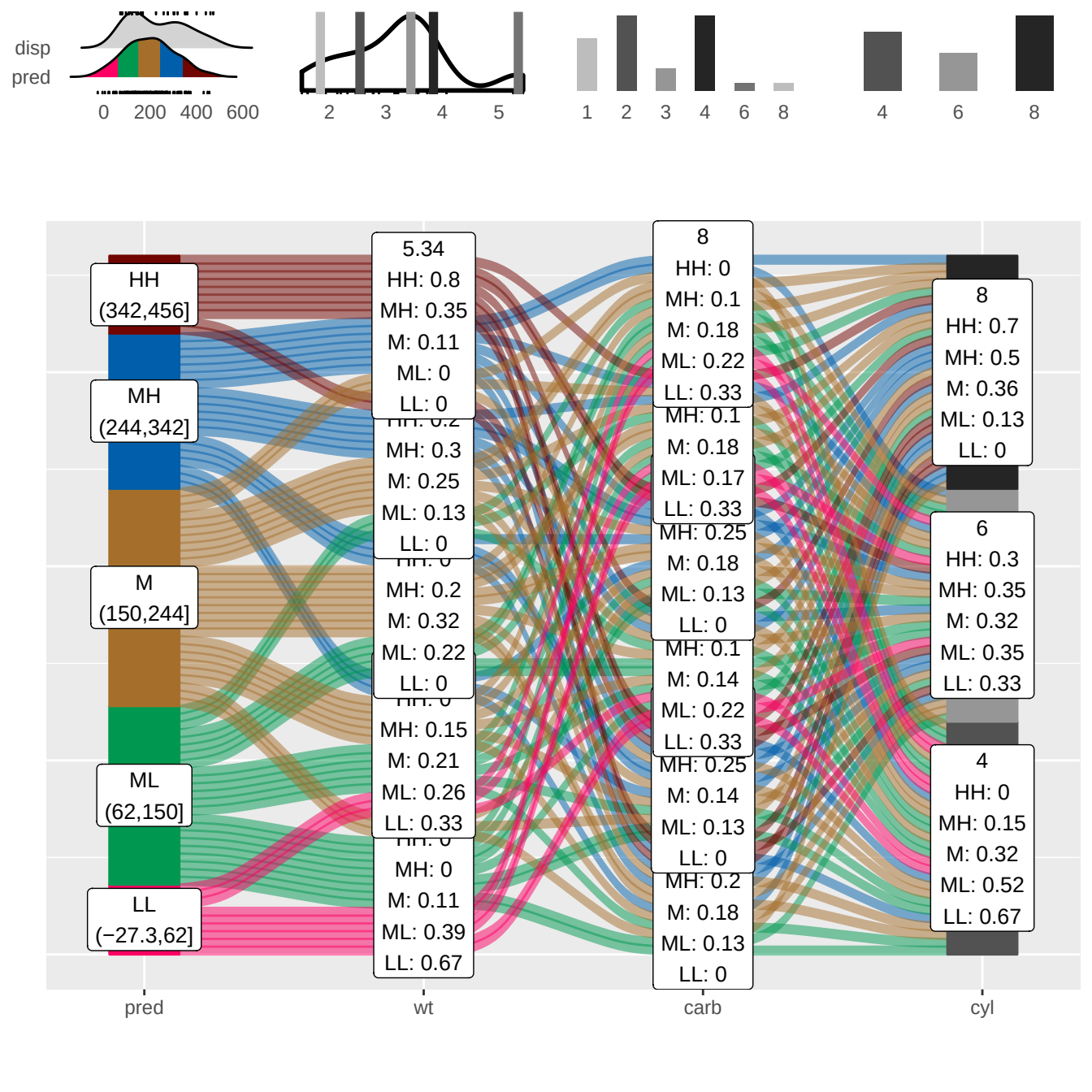

0 50 100150200
−50 0 50 100150200
−50 0 50 100150200250
0 100 200
0 100 200

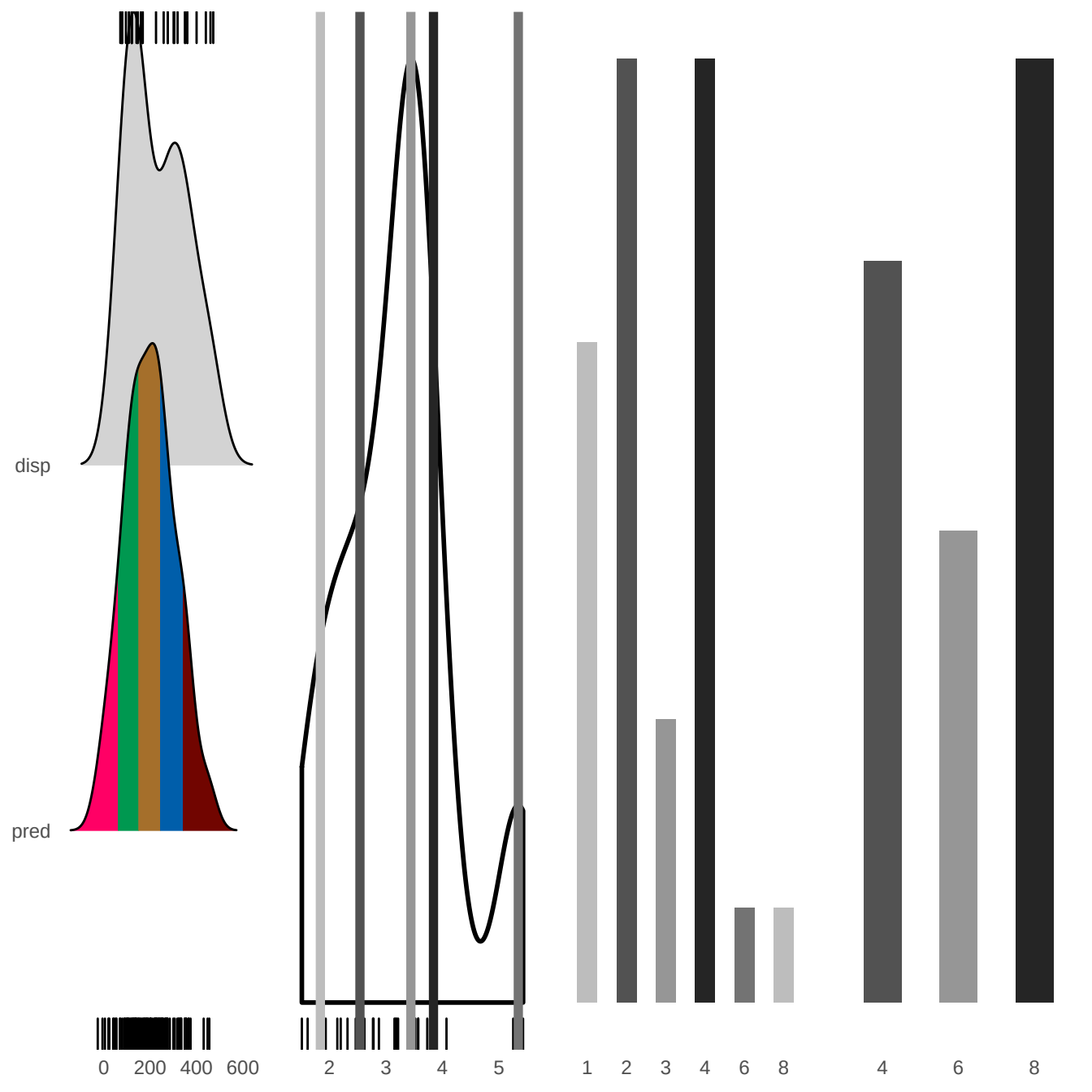

0 50 100150200
−50 0 50 100150200
−50 0 50 100150200250
0 100 200
0 100 200
HH
MH
M
ML
LL
Q1
Q2
Q3
Q4
mean_spots_per_year


late
on_time
late
on_time
late
on_time
late
on_time

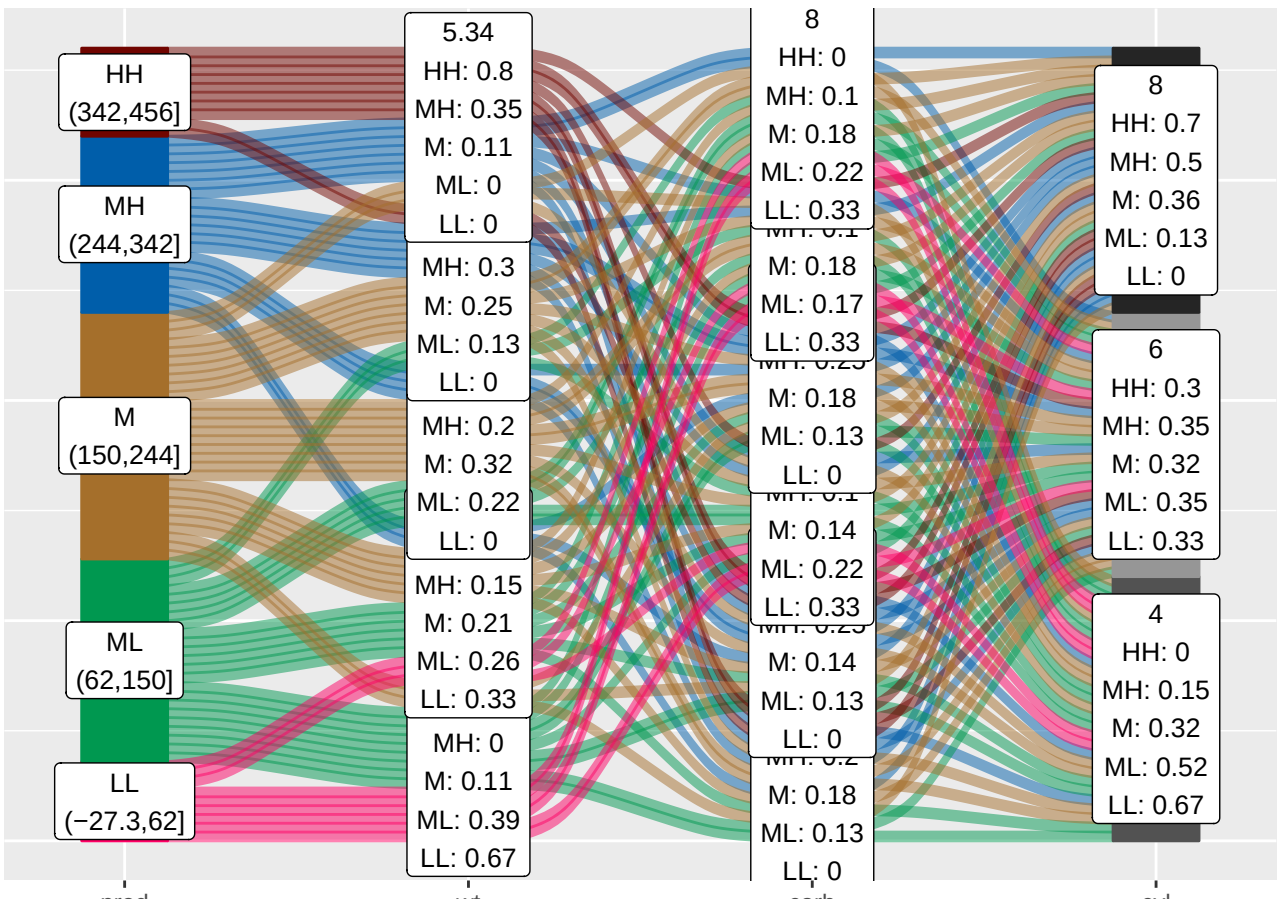

late
on_time
late
on_time
late
on_time
late
on_time
9E AA B6 DL EV F9 HA MQ OO UA US VX WN YX
on_time
late
on_time
late
on_time
late
on_time
late
VX
US
UA
MQ
HA
EV
DL
B6
AS
AA
9E
Q1
Q2
Q3
Q4
carrier


disp
pred
0
200
400
600
2
3
4
5
1
2
3
4
6
8
4
6
8

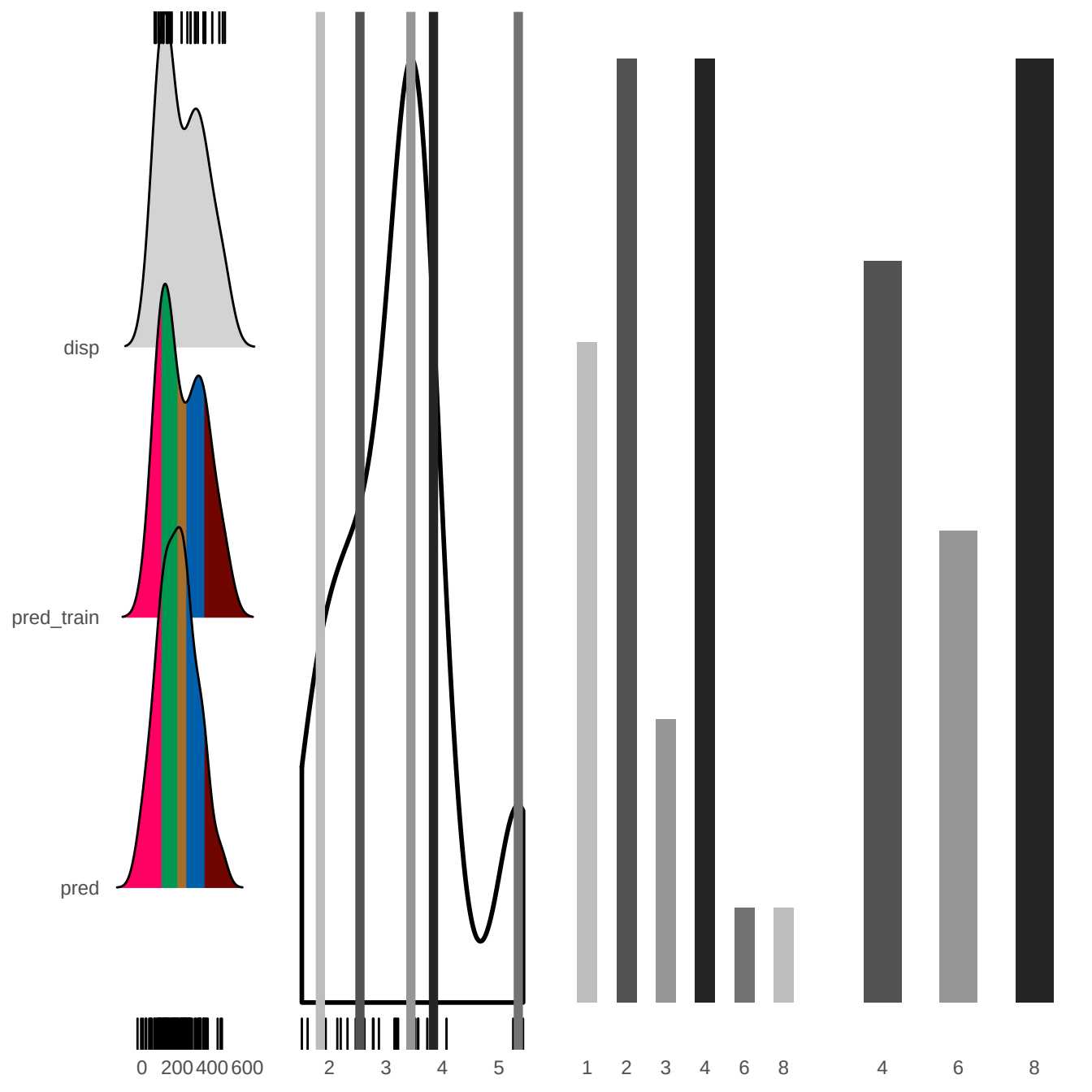

disp
pred
0
200
400
600
2
3
4
5
1
2
3
4
6
8
4
6
8
HH
(342,456]
MH
(244,342]
M
(150,244]
ML
(62,150]
LL
(−27.3,62]
5.34
HH: 0.8
MH: 0.35
M: 0.11
ML: 0
LL: 0
MH: 0.3
M: 0.25
ML: 0.13
LL: 0
MH: 0.2
M: 0.32
ML: 0.22
LL: 0
MH: 0.15
M: 0.21
ML: 0.26
LL: 0.33
MH: 0
M: 0.11
ML: 0.39
LL: 0.67
8
HH: 0
MH: 0.1
M: 0.18
ML: 0.22
LL: 0.33
MH: 0.1
M: 0.18
ML: 0.17
LL: 0.33
MH: 0.25
M: 0.18
ML: 0.13
LL: 0
MH: 0.1
M: 0.14
ML: 0.22
LL: 0.33
MH: 0.25
M: 0.14
ML: 0.13
LL: 0
MH: 0.2
M: 0.18
ML: 0.13
LL: 0
8
HH: 0.7
MH: 0.5
M: 0.36
ML: 0.13
LL: 0
6
HH: 0.3
MH: 0.35
M: 0.32
ML: 0.35
LL: 0.33
4
HH: 0
MH: 0.15
M: 0.32
ML: 0.52
LL: 0.67
pred
wt
carb
cyl

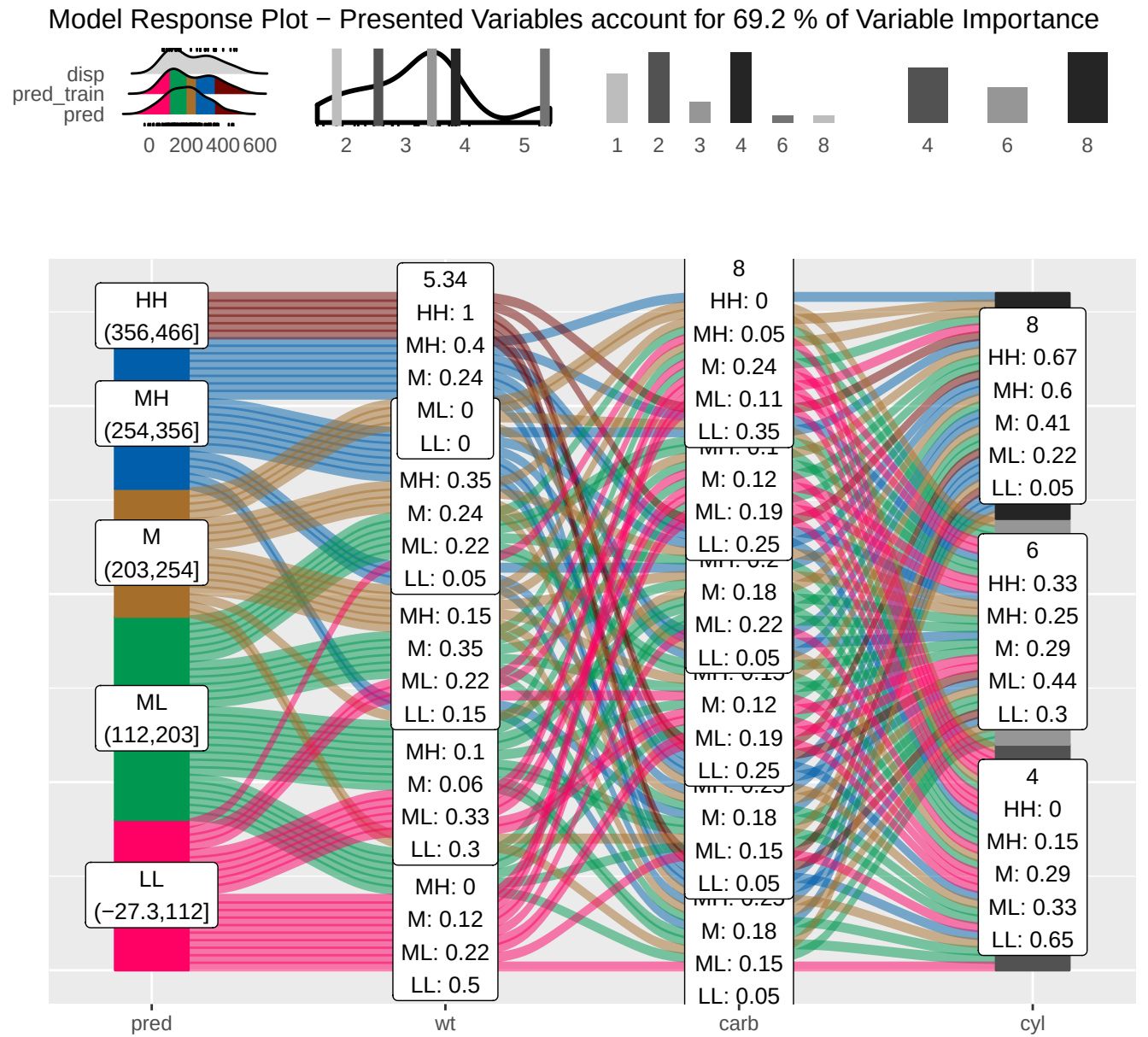

disp
pred
0
200
400
600
2
3
4
5
1
2
3
4
6
8
4
6
8

Model Response Plot − Presented Variables account for 69.2 % of Variable Importance

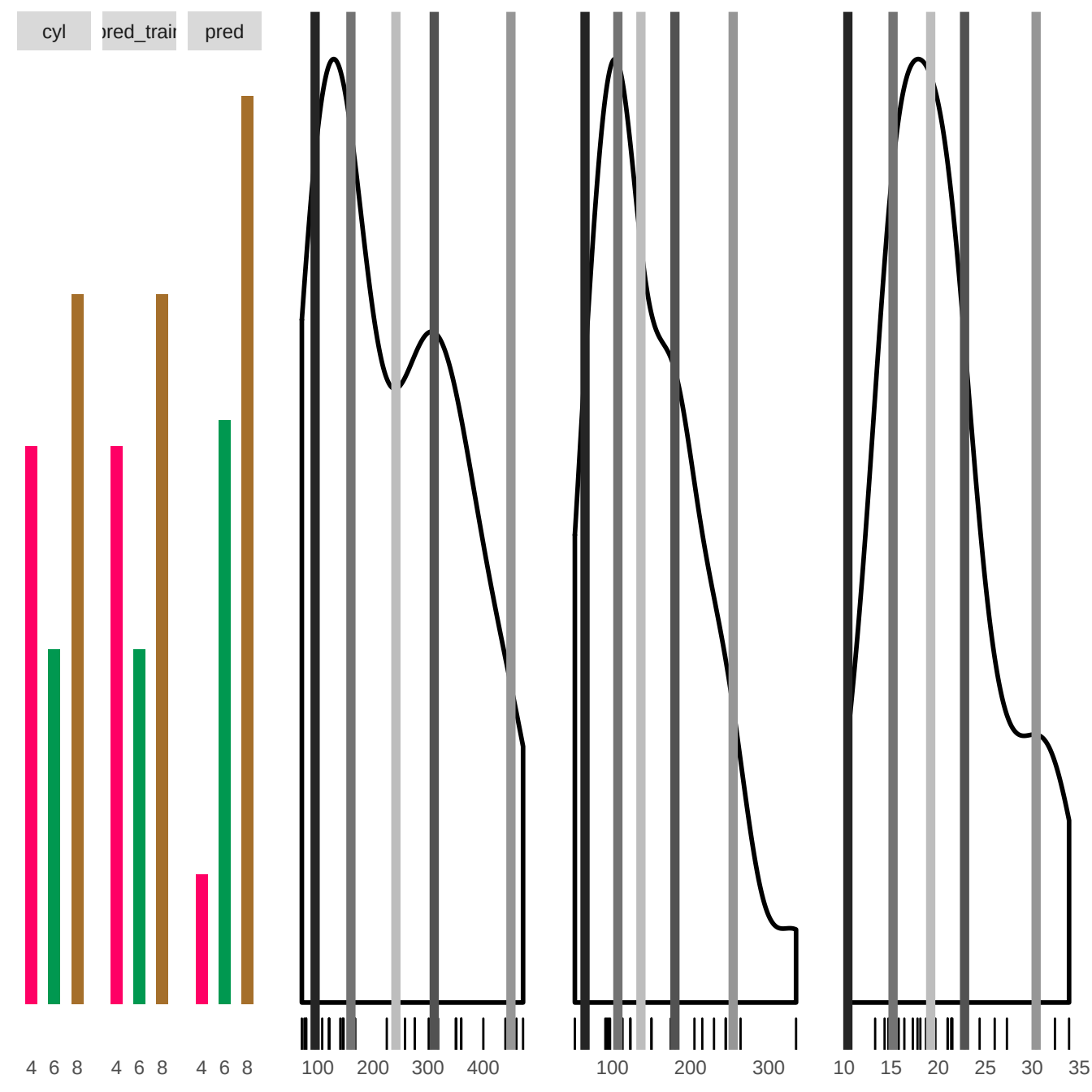


wn have been set to median or mode: gear: 3; hp: 123; am: automatic; mpg: 19.2; qsec: 17.71;

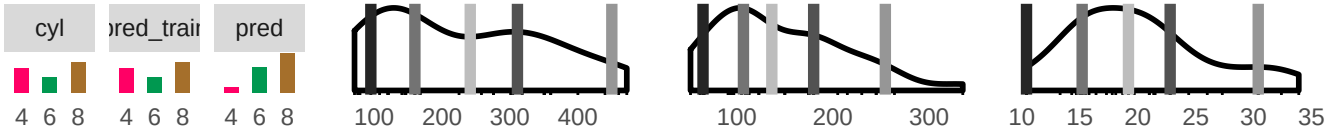

disp
pred_train
pred
0
200
400
600
2
3
4
5
1
2
3
4
6
8
4
6
8

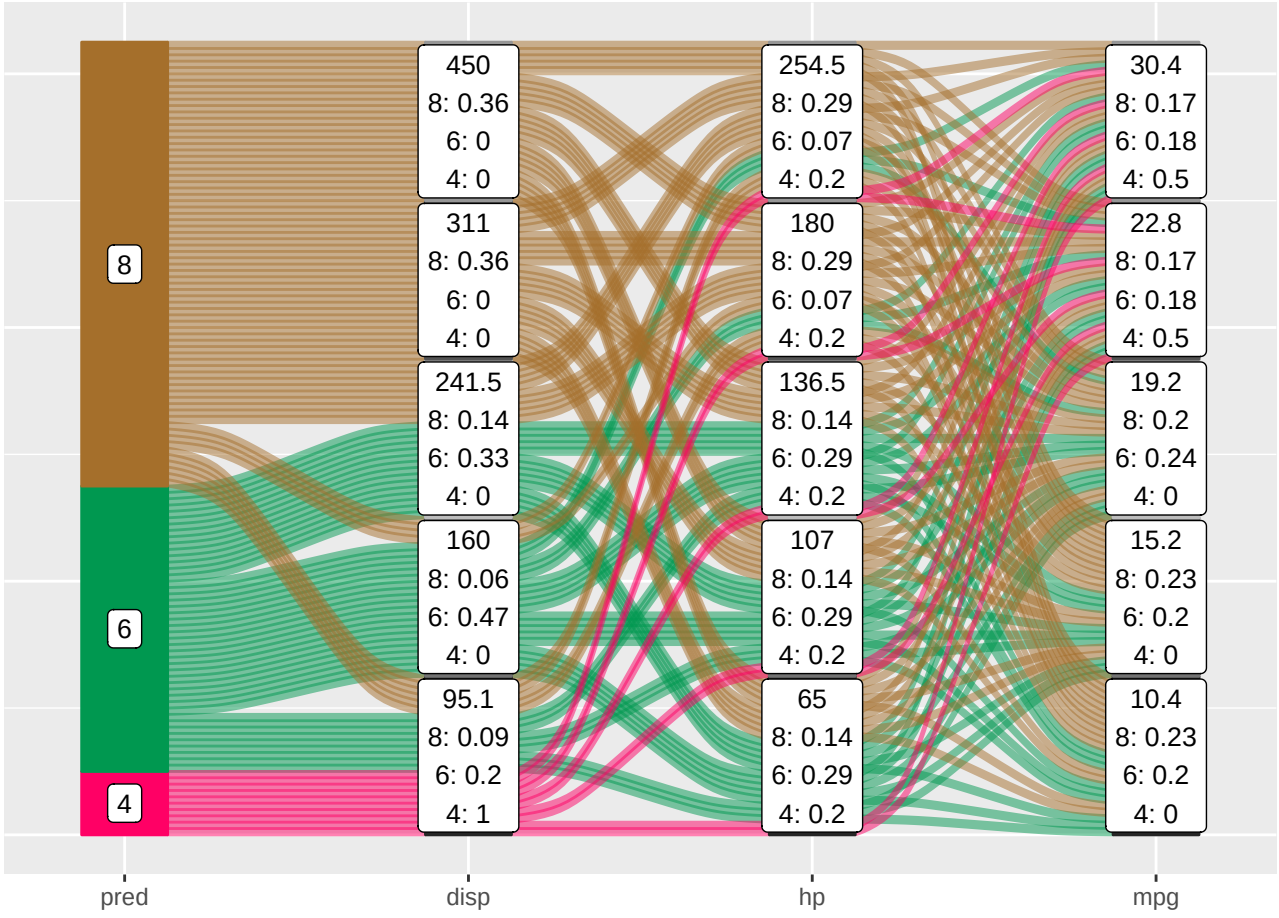


wn have been set to median or mode: gear: 3; hp: 123; am: automatic; mpg: 19.2; qsec: 17.71;


cyl
pred_train
pred
4 6 8
4 6 8
4 6 8
100 200 300 400
100 200 300
10 15 20 25 30 35

Model Response Plot − Presented Variables account for 58.6 % of Variable Importance





own have been set to median or mode: wt: 3.325; vs: V; drat: 3.695; qsec: 17.71; carb: 4; gear: