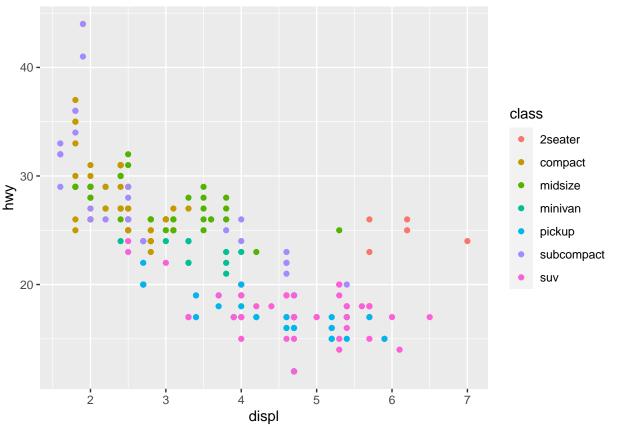
report.R

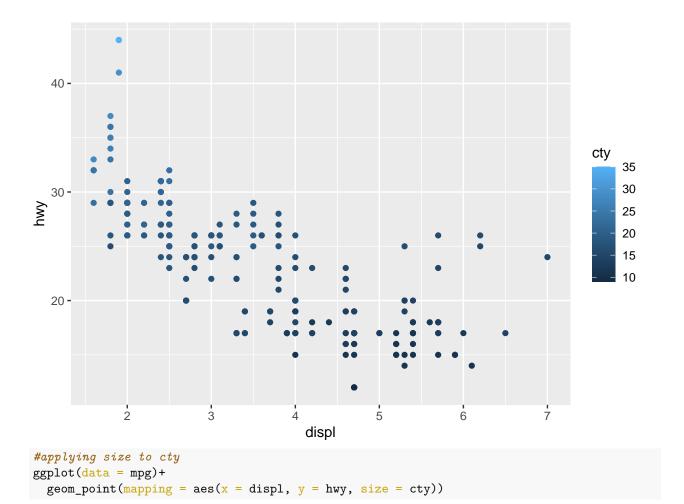
rstudio-user

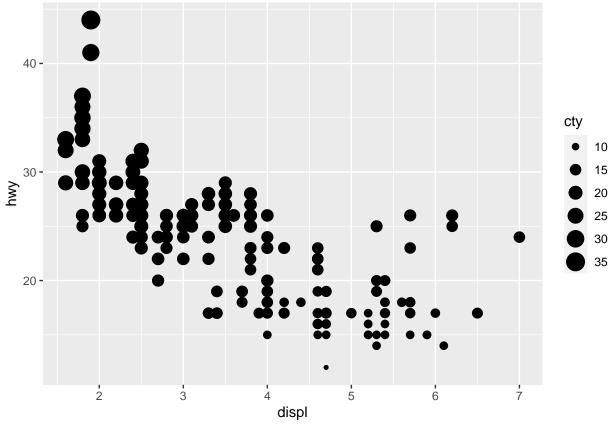
2021-08-12

```
library(ggplot2)
ggplot(data = mpg) +
  geom_point(mapping = aes(x = displ, y = hwy, color = class ))
```



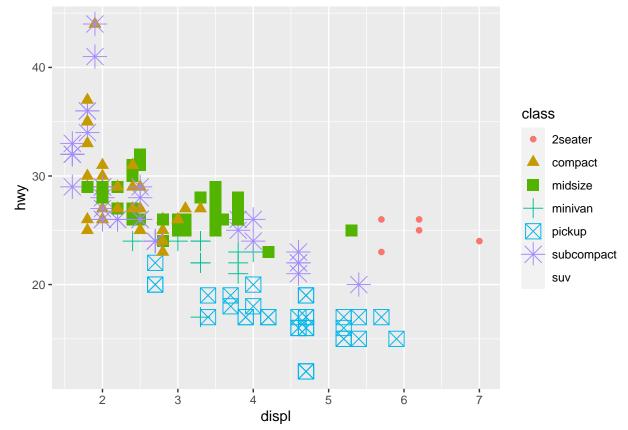
#adding third variable class and applying a color(British - colour) value for it. All cars that belong
#alternative is size = class , though it will not show class that obvious: using size for a discrete va
#Next alternative is transparency of the points alpha = class, it is not advised for a discrete variabl
#Alternative shape = class, restriction up to 6 discrete values, more than six is difficult to discrimi
#using different aesthetics for continuous variables, like cty
#applying color, not really informative, but shows graduate change of the color
ggplot(data = mpg) +
geom_point(mapping = aes(x = displ, y = hwy, color = cty))





```
#applying variable to multiple aesthetics in ggplot2
ggplot(data = mpg) +
  geom_point(mapping = aes (x = displ, y = hwy, color = class, size = class, shape = class))
```

- ## Warning: Using size for a discrete variable is not advised.
- ## Warning: The shape palette can deal with a maximum of 6 discrete values because
- ## more than 6 becomes difficult to discriminate; you have 7. Consider
- ## specifying shapes manually if you must have them.
- ## Warning: Removed 62 rows containing missing values (geom_point).



#aes can compare if a statement is true or false and show results based on that
ggplot(data = mpg) +
geom_point(mapping = aes(x = class, y = hwy, color = displ < 5))</pre>

