aesthetic mapping

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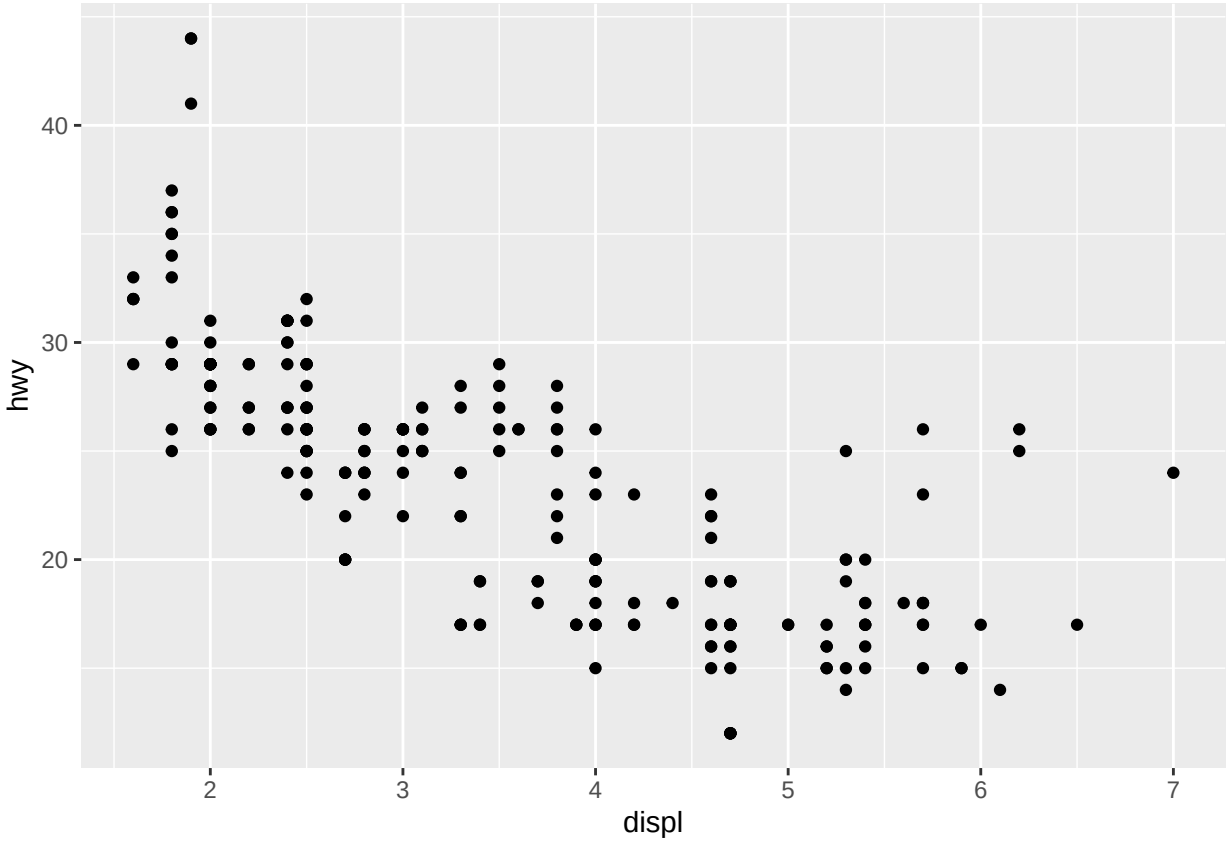
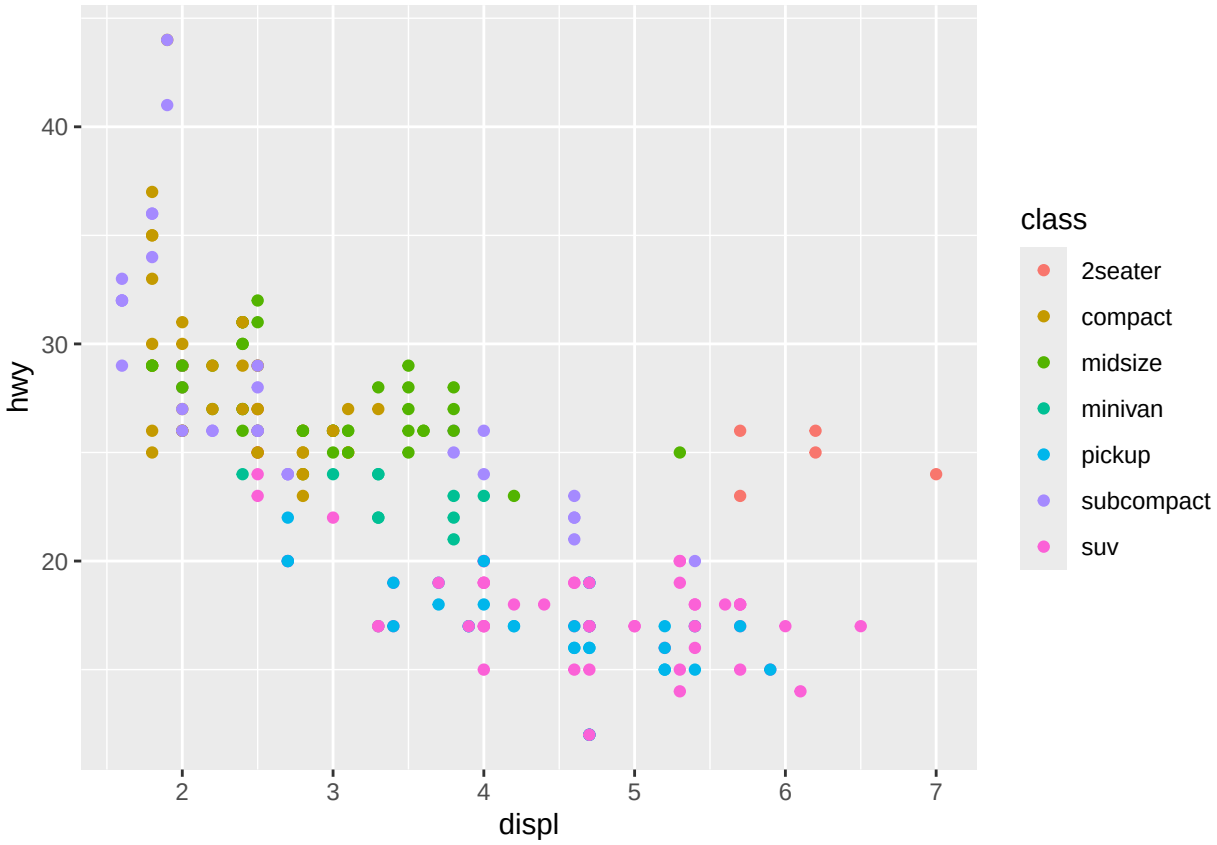
Creating a ggplot

```
library(ggplot2)
data(mpg)
df <- mpg
ggplot(data = df, mapping = aes(x = displ ,y =hwy)) +geom_point()
```



Aesthetic mapping

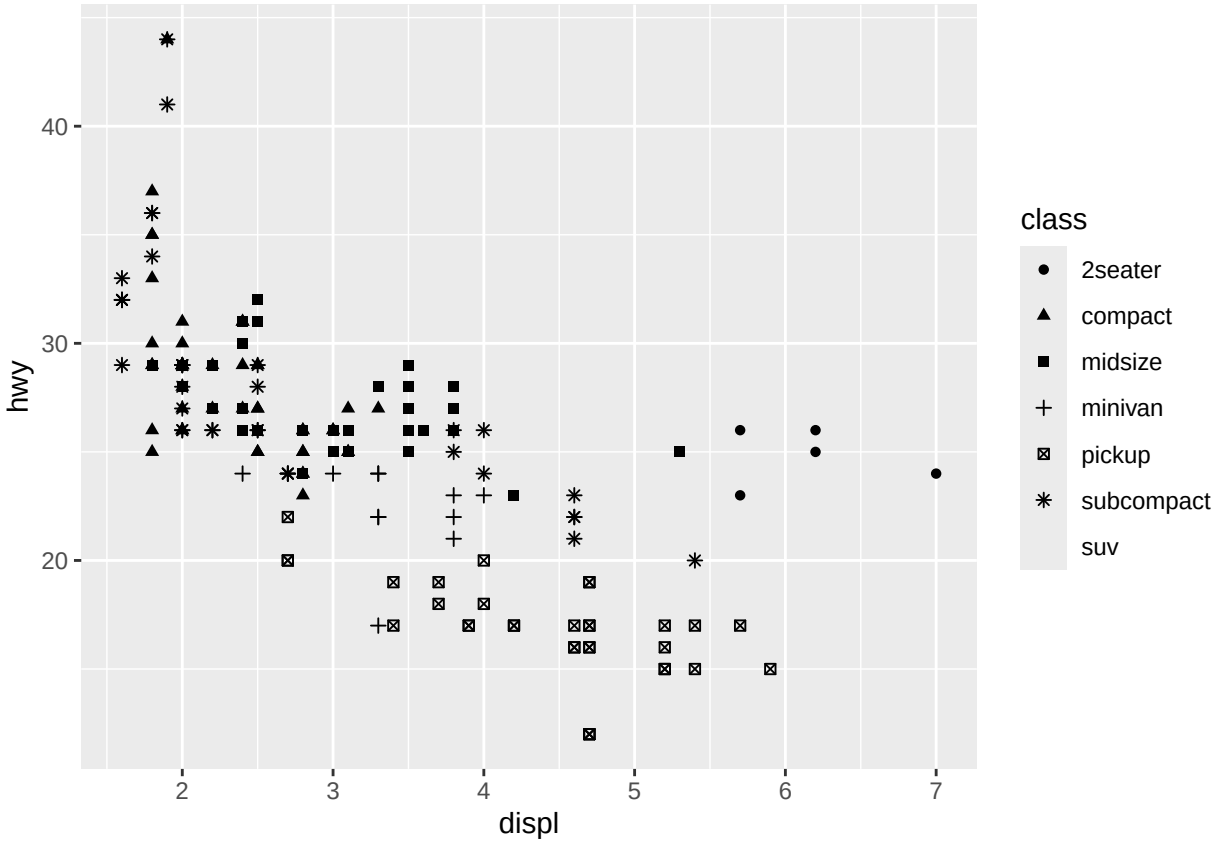
```
library(ggplot2)
ggplot(data = df, mapping = aes(x = displ ,y =hwy, colour = class)) +geom_point()
```



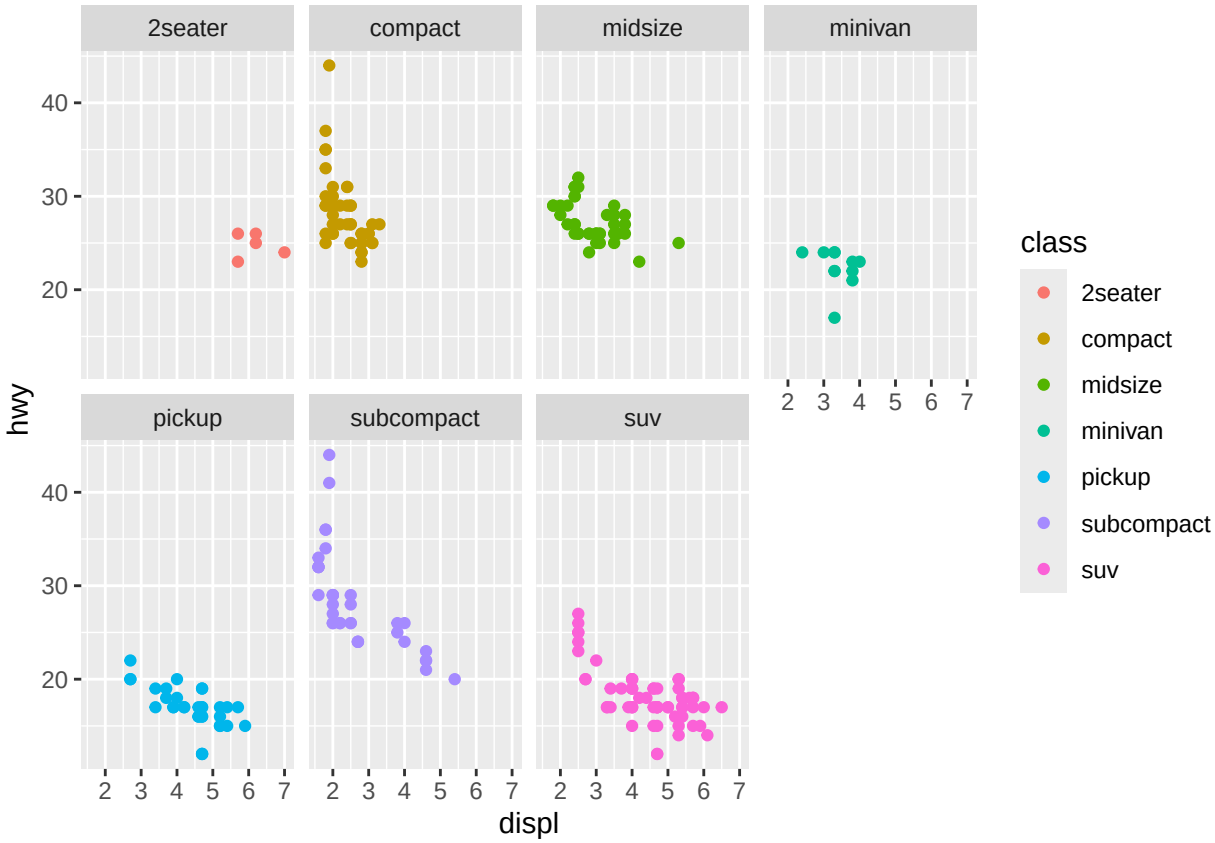

```
library(ggplot2)
ggplot(data = df, mapping = aes(x = displ ,y =hwy, shape = class)) +geom_point()
```

```
## Warning: The shape palette can deal with a maximum of 6 discrete values because more
## than 6 becomes difficult to discriminate
## i you have requested 7 values. Consider specifying shapes manually if you need
##   that many have them.
```

```
## Warning: Removed 62 rows containing missing values or values outside the scale range
## (`geom_point()`).
```




```
library(ggplot2)
ggplot(data = df, mapping = aes(x = displ ,y =hwy, colour =   class)) +geom_point() +facet_wrap(~class
```


2seater
compact
midsize
minivan
pickup
subcompact
suv
hwy
displ
40
30
20
2
3
4
5
6
7
class
2seater
compact
midsize
minivan
pickup
subcompact
suv