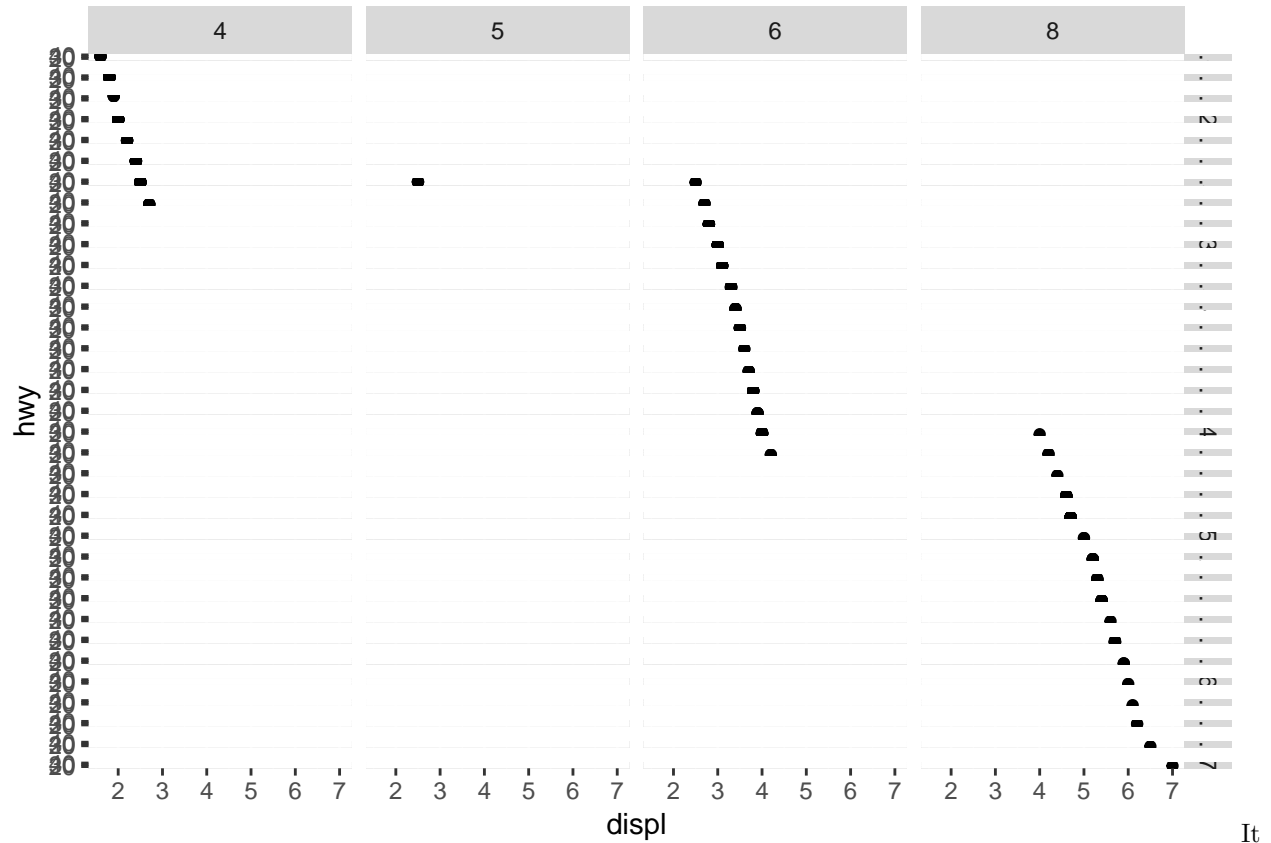# r4ds Ex 3.5.1

MW

2019/05/12
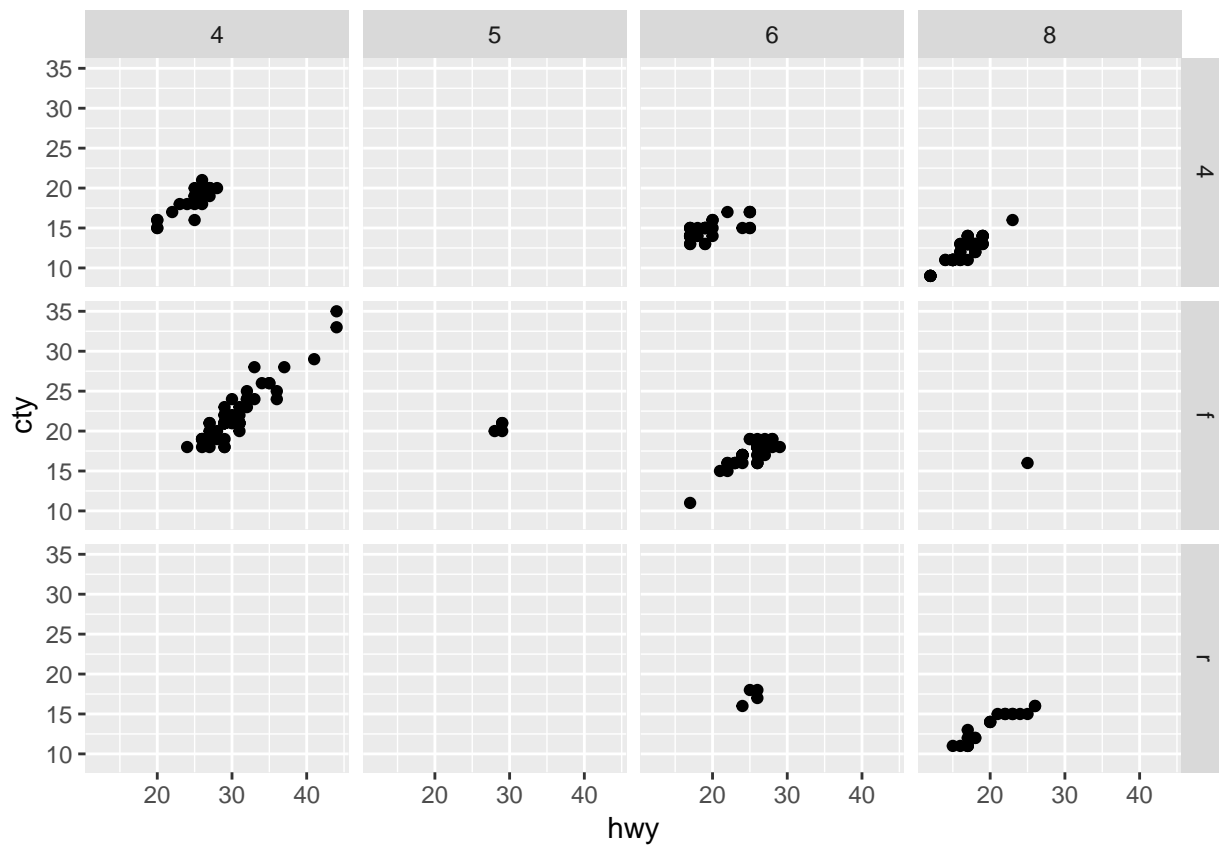
3.2.4

1

is drawn for each continuous variable.

2

```r
ggplot(data=mpg) +
    geom_point(mapping=aes(x=hwy, y=cty)) +
    facet_grid(drv ~ cyl)
```
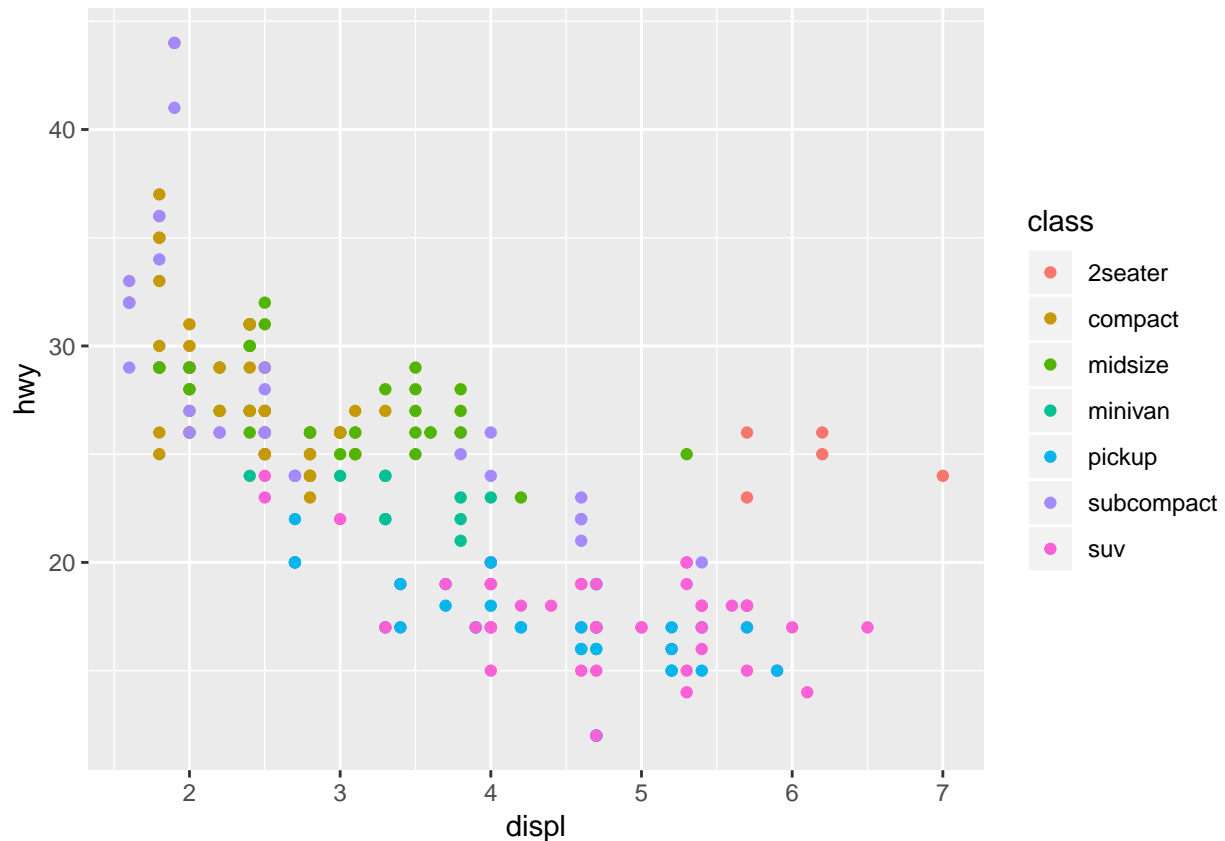
The empty cells shows no combinations of `drv` and `cyl` in itself.

3

`.` means ignoring dimensions. So, `drv ~ .` facet only `drv`.

4

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

Colorized by `class`. ### Facet #### advantage - Friendly to color blinders. - Easy to see the relationsihp within `class`

disadvantage

- Increase the number of graphs by the number of catagories.

Color

advantage

- Easy to see the relationship between `class`

disadvantage

- Difficult to see if the number of o¥bservation increases

5

`...nrow, ncol: Number of rows and columns.` Because `facet_grid` automatically determined rows and cols.

6

If you don't use unique values, it's complicated.