r4ds Ex 3.3.1

MW

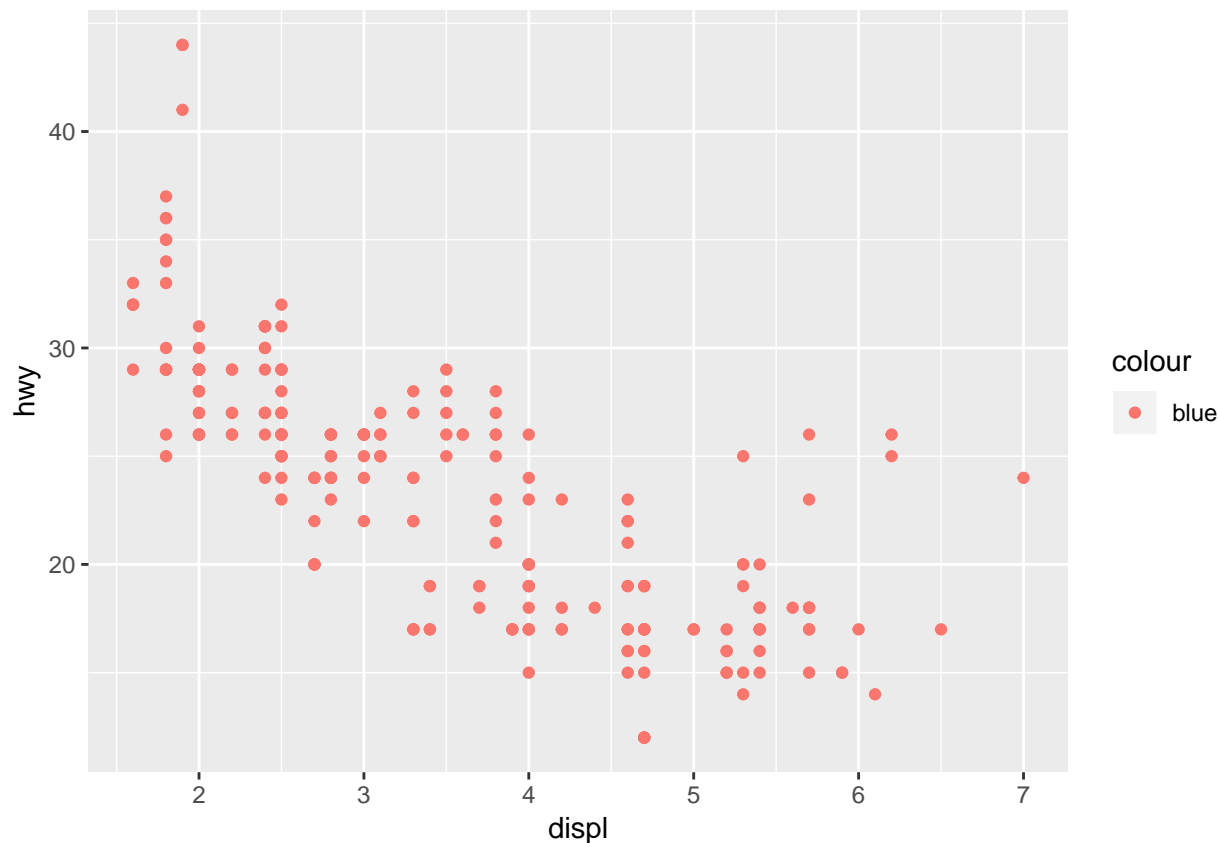*2019/05/14*

3.3.1

1

If `color="blue"` is in `aes`, then data are regarded to have categorical "blue".

2

```
mpg %>% select_if(is.character) %>% names
```

```
## [1] "manufacturer" "model"        "trans"        "drv"
## [5] "fl"           "class"
```

```
mpg %>% select_if(is.numeric) %>% names
```

```
## [1] "displ" "year"  "cyl"   "cty"   "hwy"
```
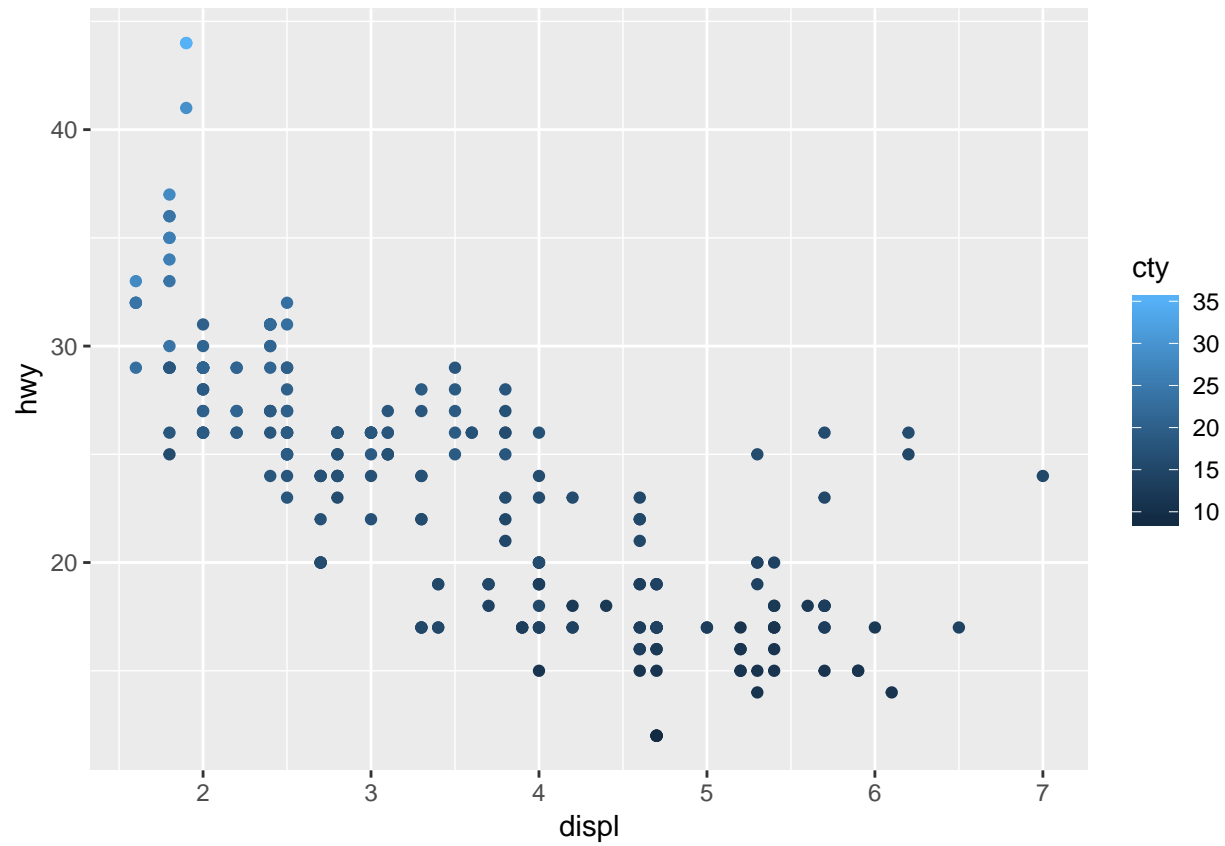
categorical is manufacturer, model, trans, drv, fl, class continuous is displ, year, cyl, cty, hwy

3

e.g., I selected `displ`, `hwy`, and `cty` as well sample code.
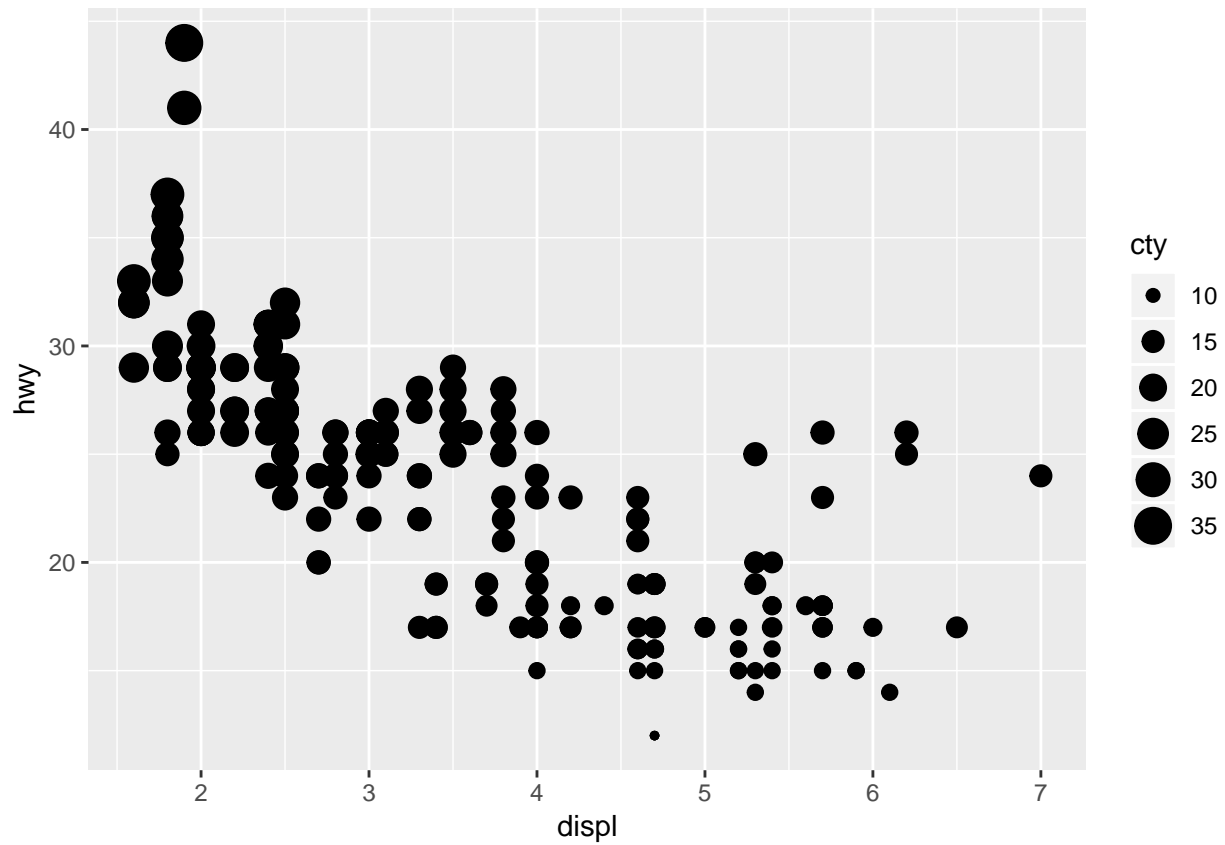
color

```
ggplot(mpg, aes(x=displ, y=hwy, color=cty)) +
  geom_point()
```


size

```
ggplot(mpg, aes(x=displ, y=hwy, size=cty)) +
  geom_point()
```
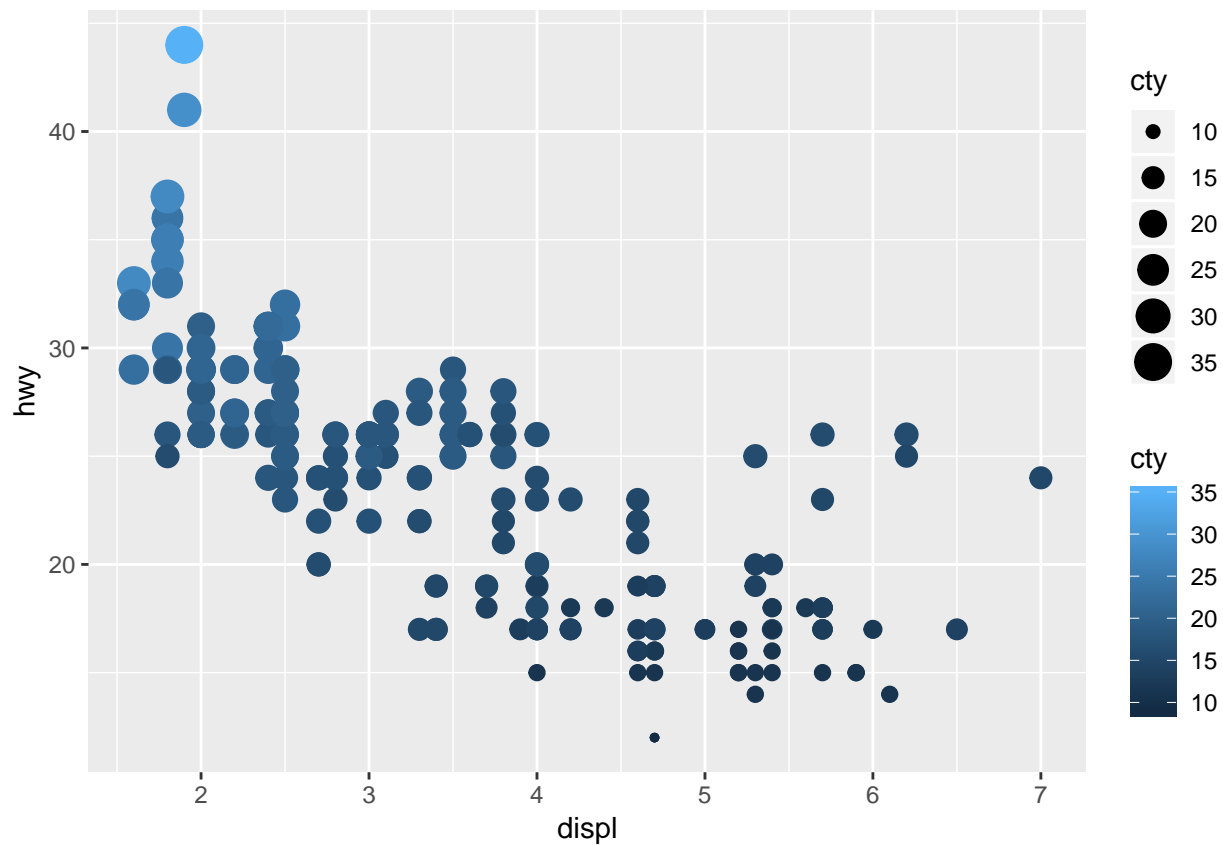
shape

```
ggplot(mpg, aes(x=displ, y=hwy, shape=cty)) +
  geom_point()
## error: A continuous variable can not be mapped to shape
```

4

```
ggplot(mpg, aes(x=displ, y=hwy, color=cty, size=cty)) +
  geom_point()
```
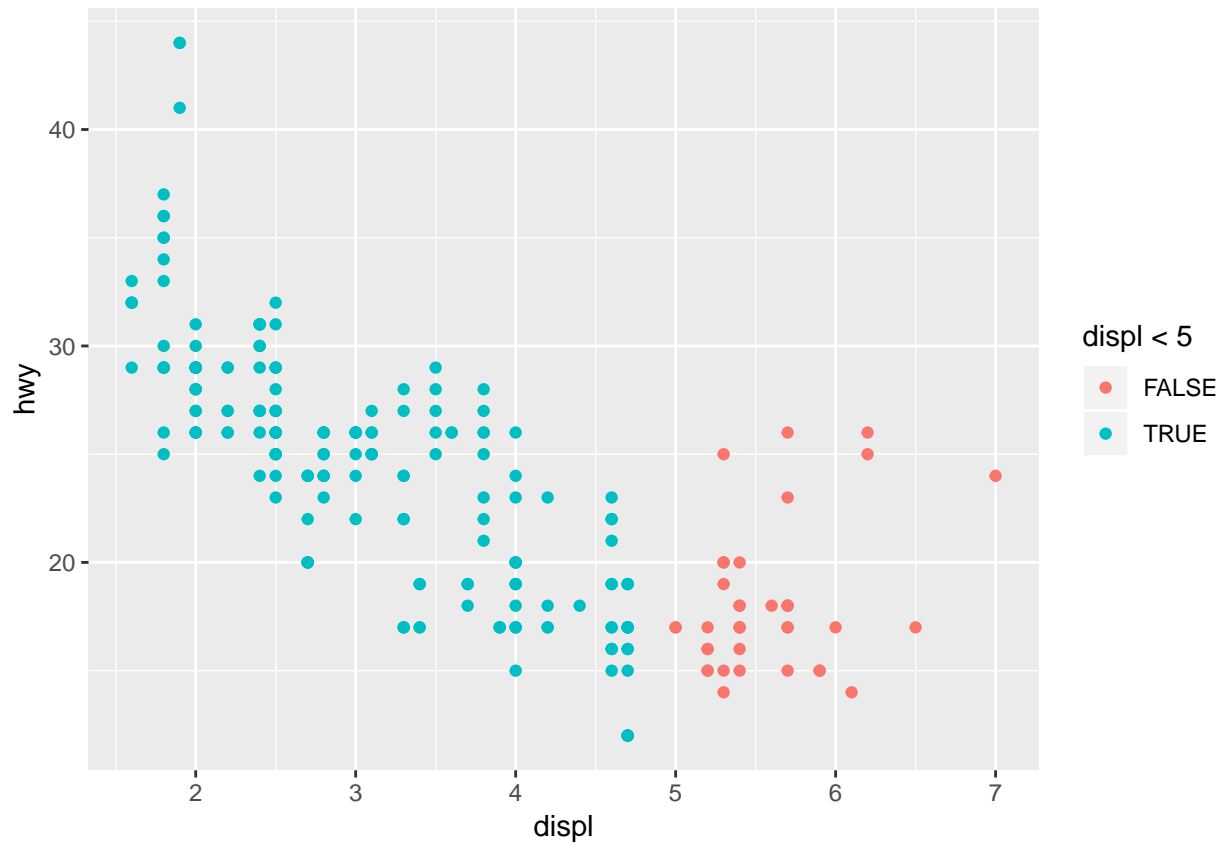
You can run multiple `aes` but it is ineffective.

5

```
vignette("ggplot2-specs")
```

Vignette file explain followings; `...the size of the stroke is controlled by stroke..`

6

```
ggplot(mpg, aes(x=displ, y=hwy, color=displ<5)) +
  geom_point()
```

You can run above code, like `color=displ<5`. The variables are divided to `TRUE` or `FALSE`.