

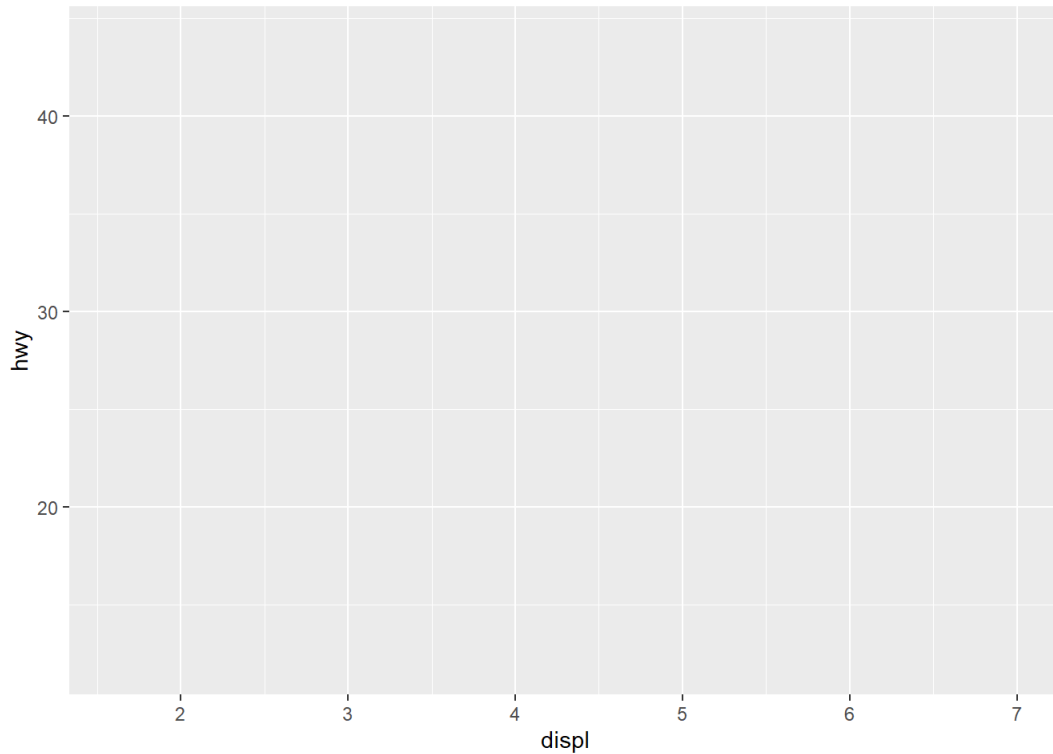
Cheetsheet_1

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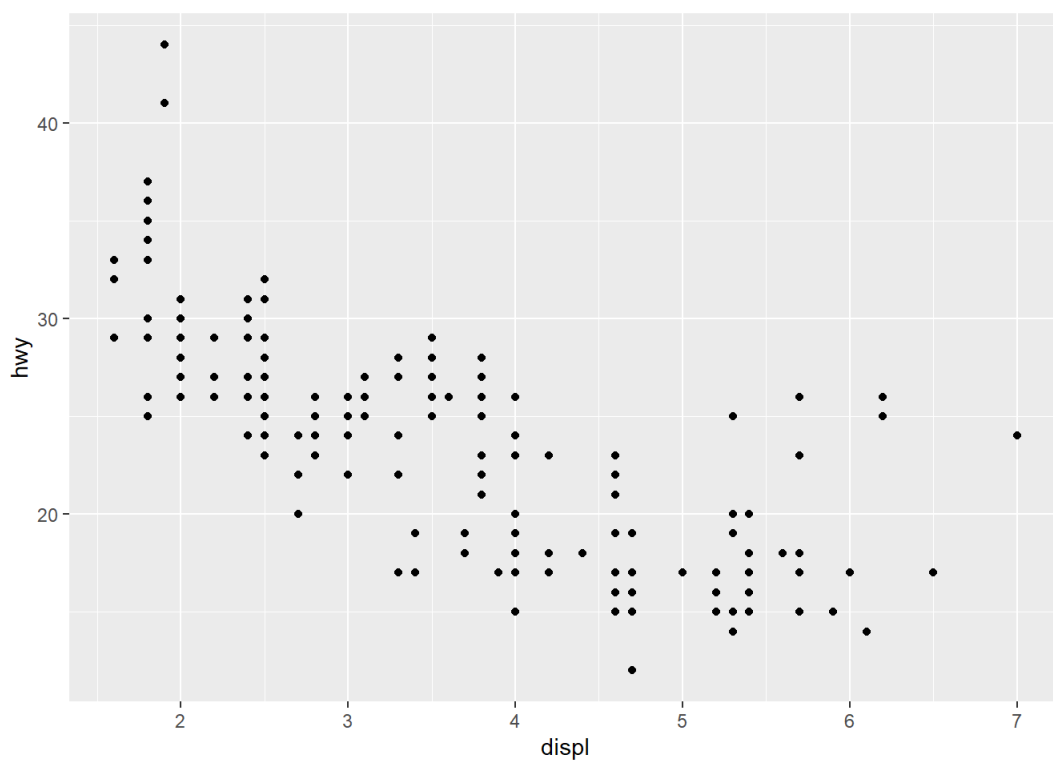
ggplot: Canvas

```
ggplot(data = mpg, mapping = aes(x = displ, y = hwy))
```



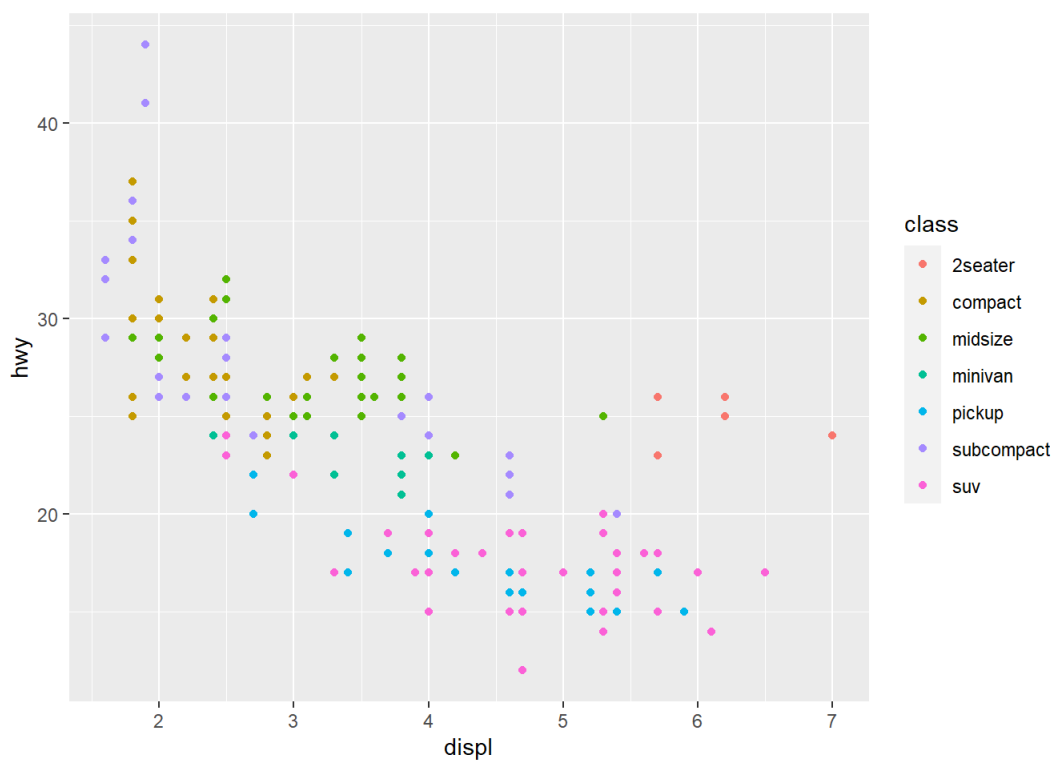
ggplot: scatter plot

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



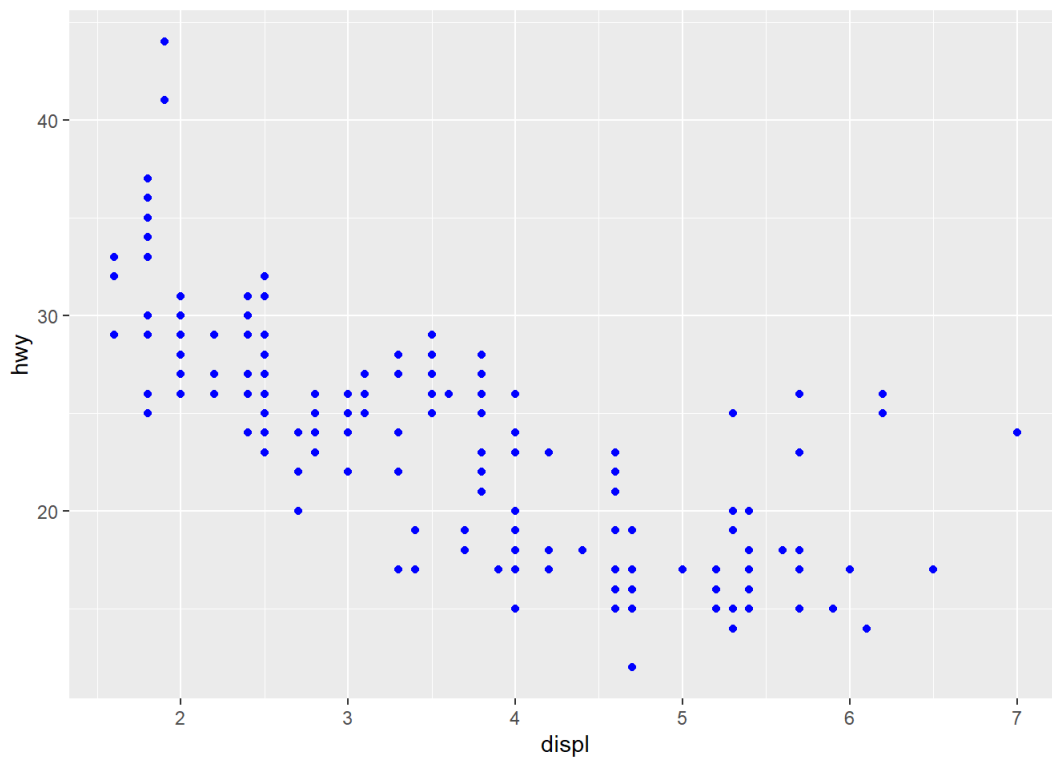
ggplot: color the points by categories

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



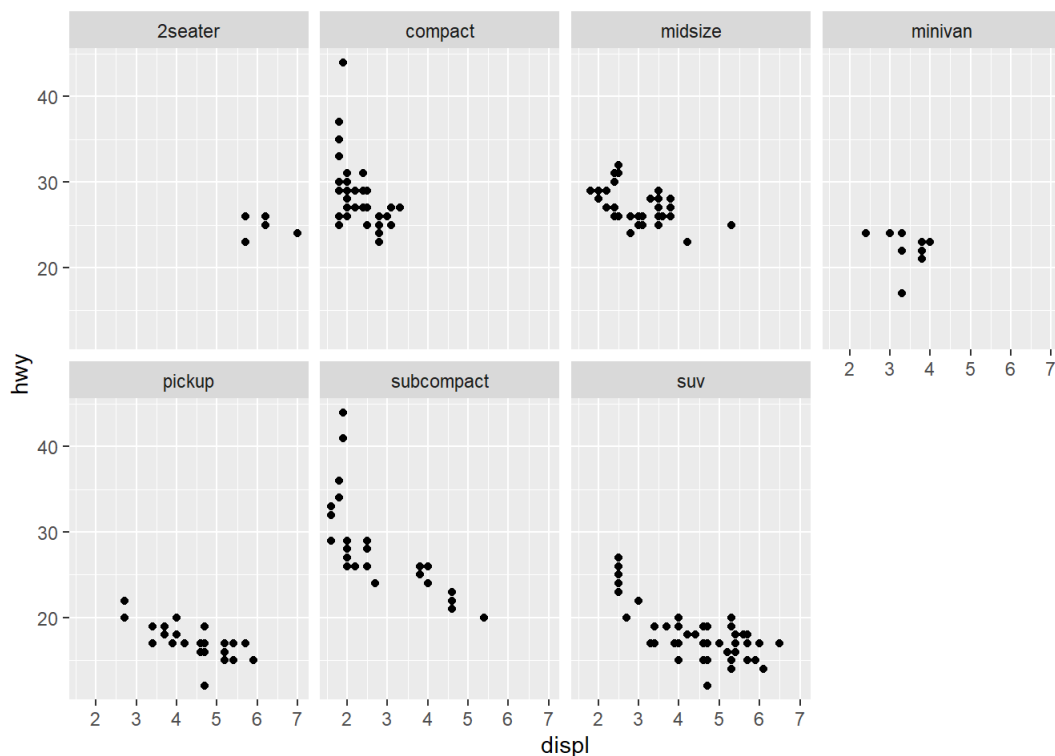
ggplot: color the points

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



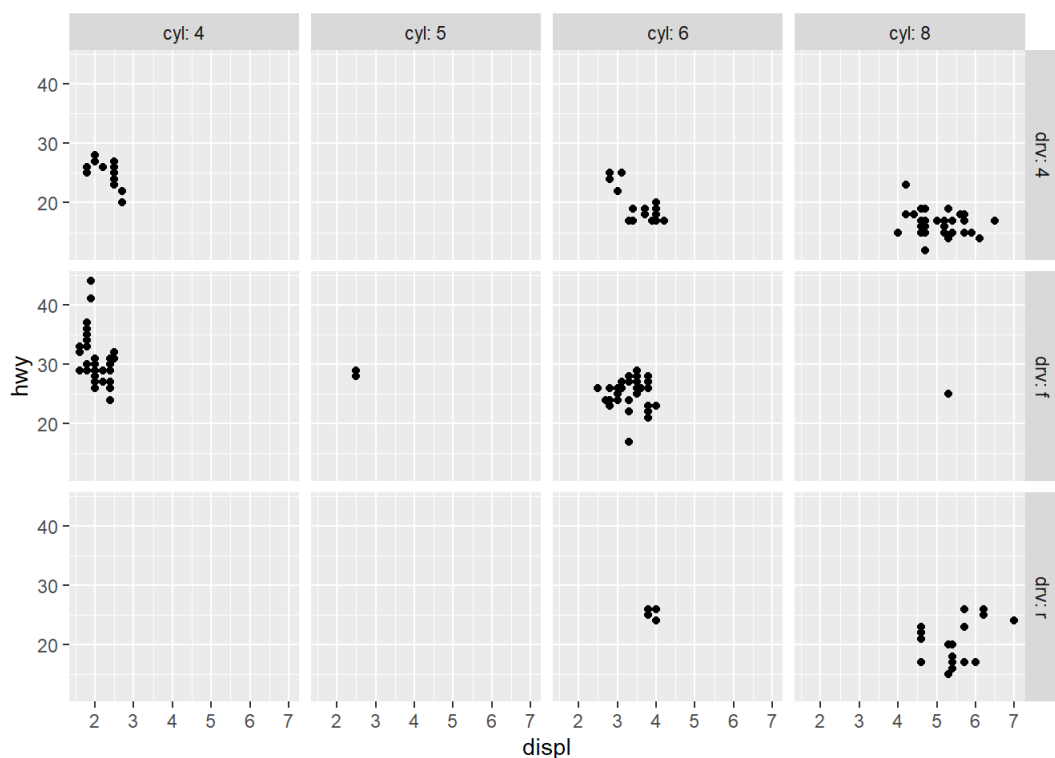
ggplot: Facets partition the data and create small multiple plots side by side

```
ggplot(data = mpg)+
  geom_point(mapping = aes(x = displ, y = hwy)) +
  facet_wrap(vars(class), nrow = 2)
```

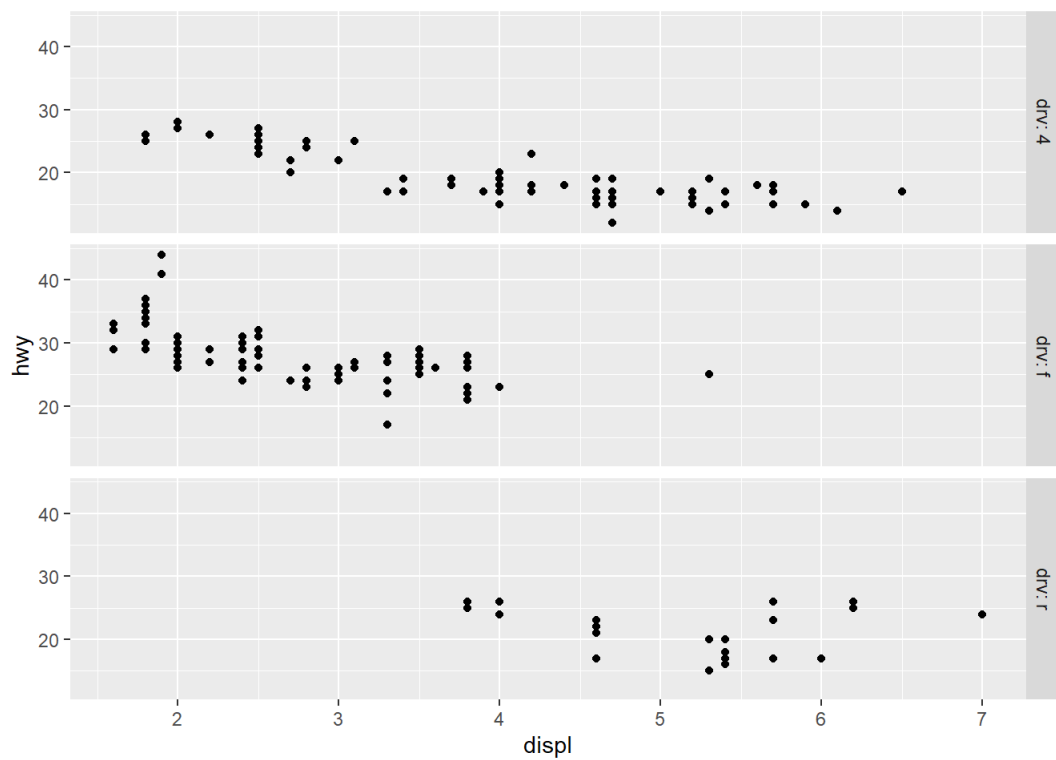


ggplot: small multiple plots of two variables for every values

```
ggplot(data = mpg)+
  geom_point(mapping = aes(x = displ, y = hwy)) +
  facet_grid(drv ~ cyl, labeller = label_both)
```



```
ggplot(data = mpg)+
  geom_point(mapping = aes(x = displ, y = hwy)) +
  facet_grid(drv ~ ., labeller = label_both)
```



```
ggplot(data = mpg) +
  geom_point(mapping = aes(x = displ, y = hwy)) +
  facet_grid(. ~ cyl, labeller = label_both)
```

