

ggplot practice

Description

This is a practice of ggplot package using the video at <https://www.youtube.com/watch?v=UK2FhxMnmjQ>

Plot of hwy vs displ

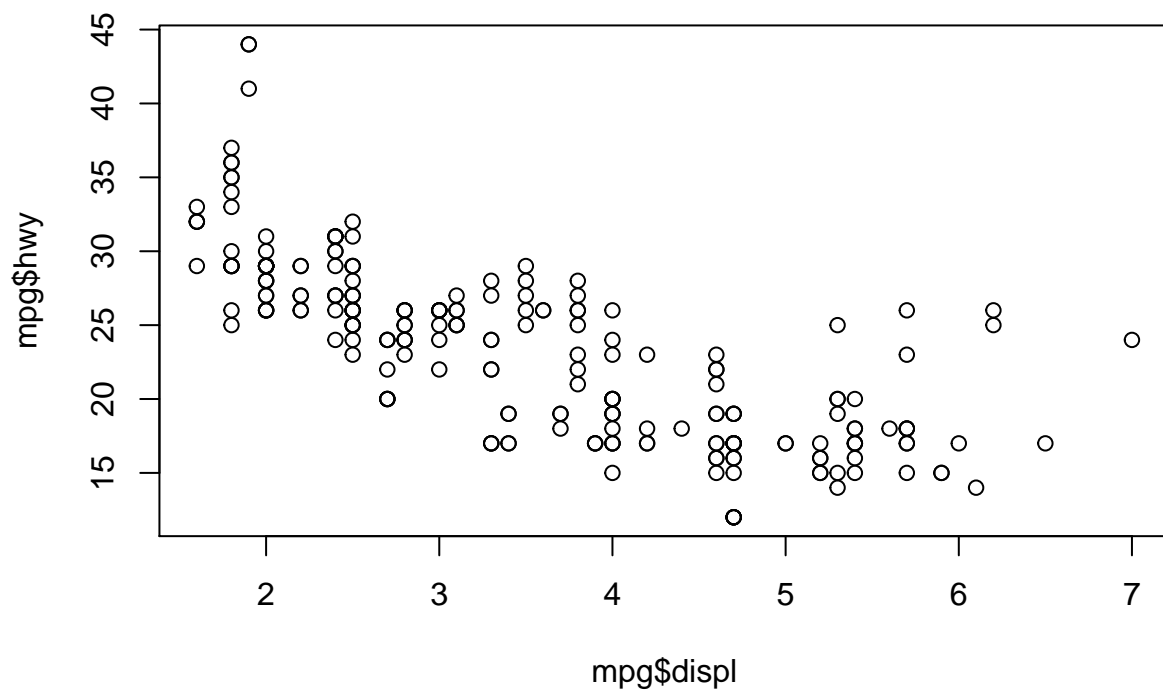
```
library(tidyverse)

## -- Attaching packages ----- tidyverse 1.3.0 --

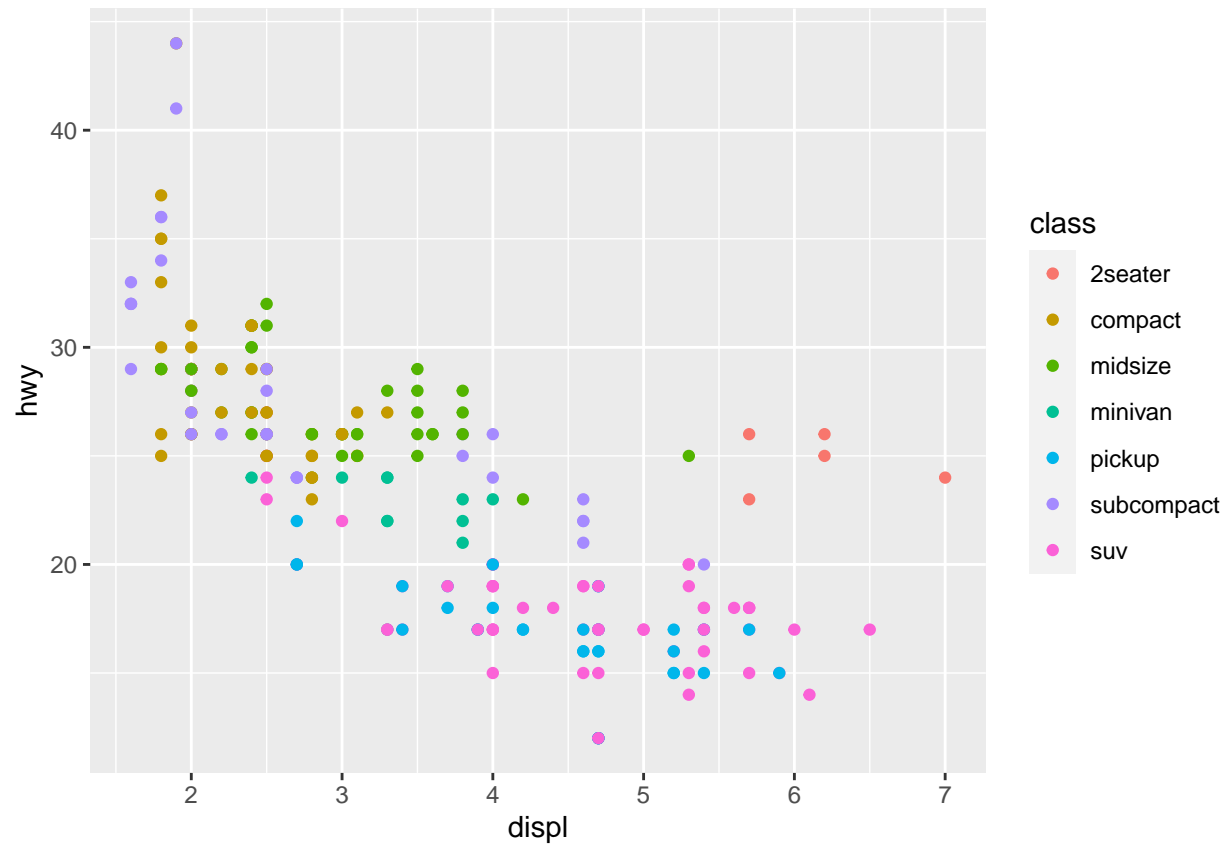
## v ggplot2 3.3.3    v purrr  0.3.4
## v tibble  3.0.5    v dplyr  1.0.3
## v tidyr   1.1.2    v stringr 1.4.0
## v readr   1.4.0    v forcats 0.5.0

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()

library(ggplot2)
data(mpg)
plot(mpg$displ, mpg$hwy)
```



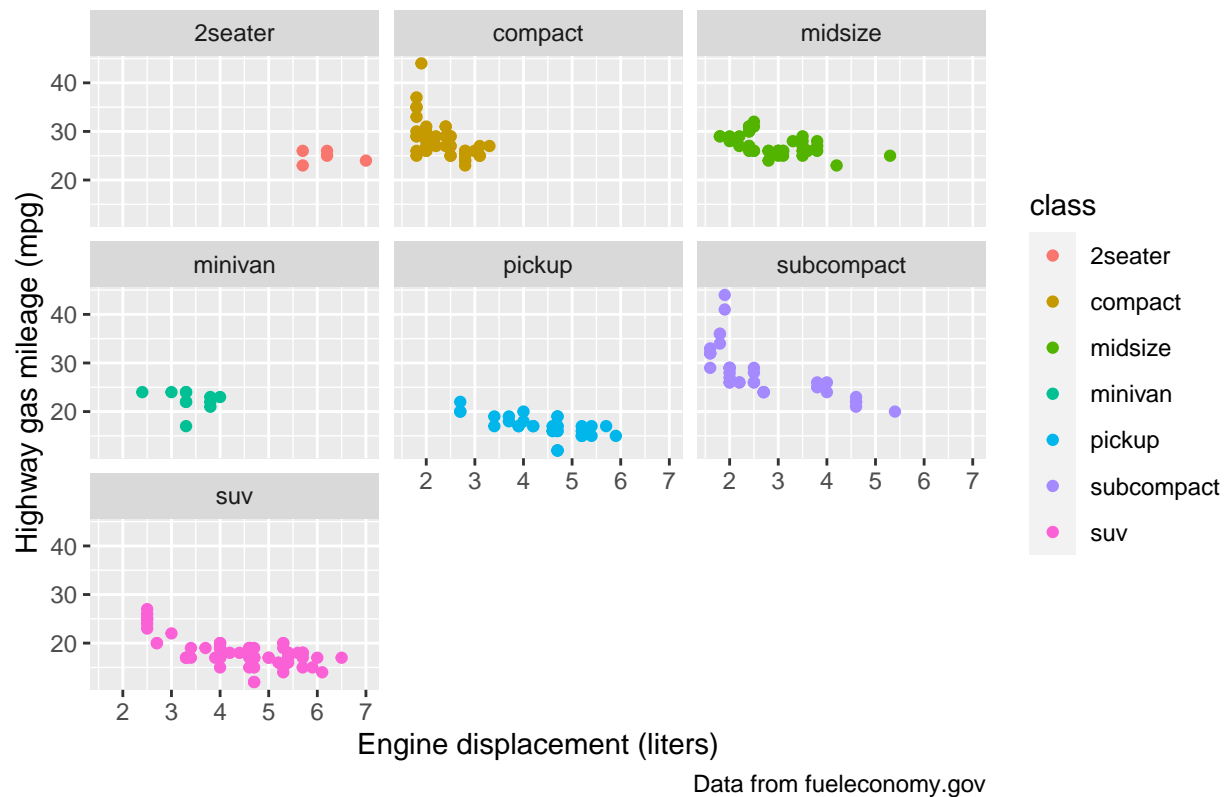
```
ggplot(data=mpg)+  
  geom_point(mapping = aes(x = displ, y = hwy, color = class))
```



Plot of hwy vs displ

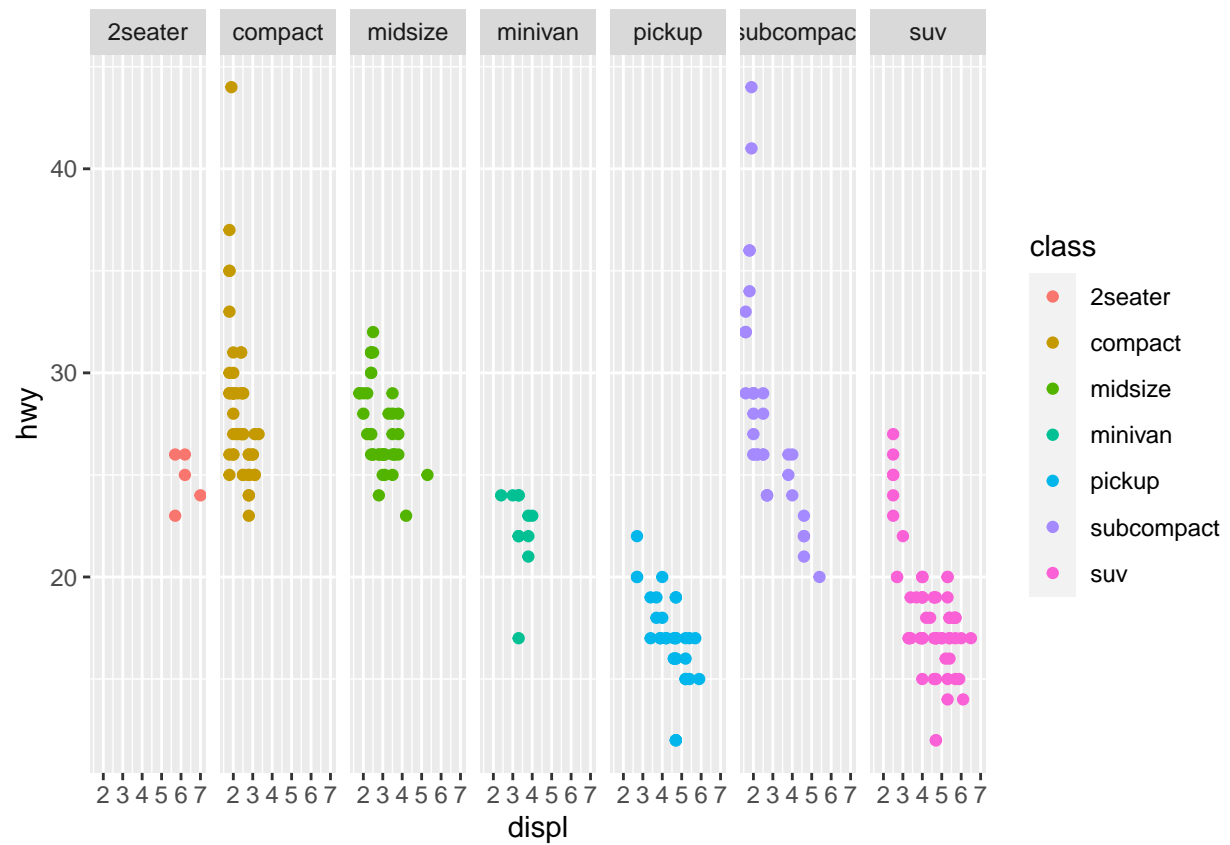
```
ggplot(data=mpg)+
  geom_point(mapping = aes(x = displ, y = hwy, color = class)) +
  facet_wrap(~ class, nrow = 3) +
  labs(
    title = "Fuel efficiency generally decreases with engine size",
    caption = "Data from fueleconomy.gov",
    x="Engine displacement (liters)",
    y="Highway gas mileage (mpg)"
  )
)
```

Fuel efficiency generally decreases with engine size

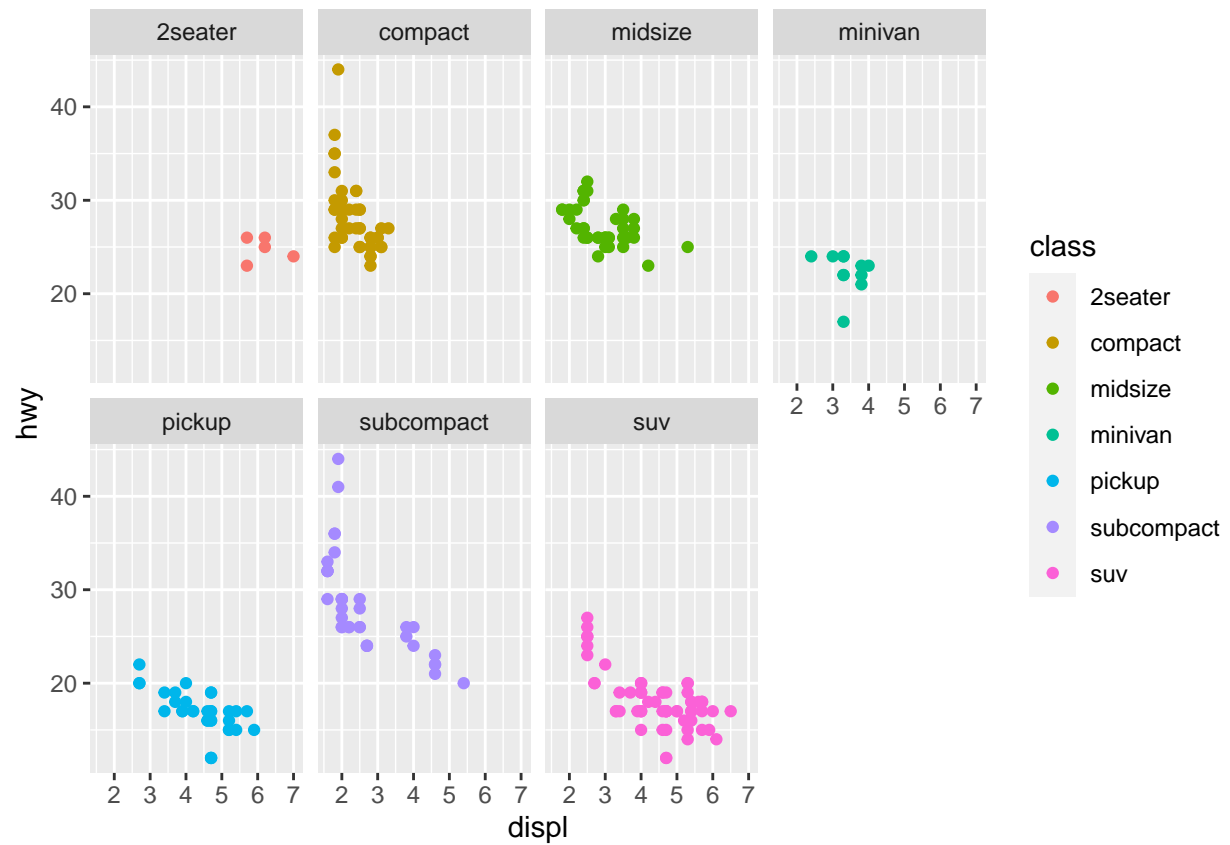


Save plot as r-object (p1)

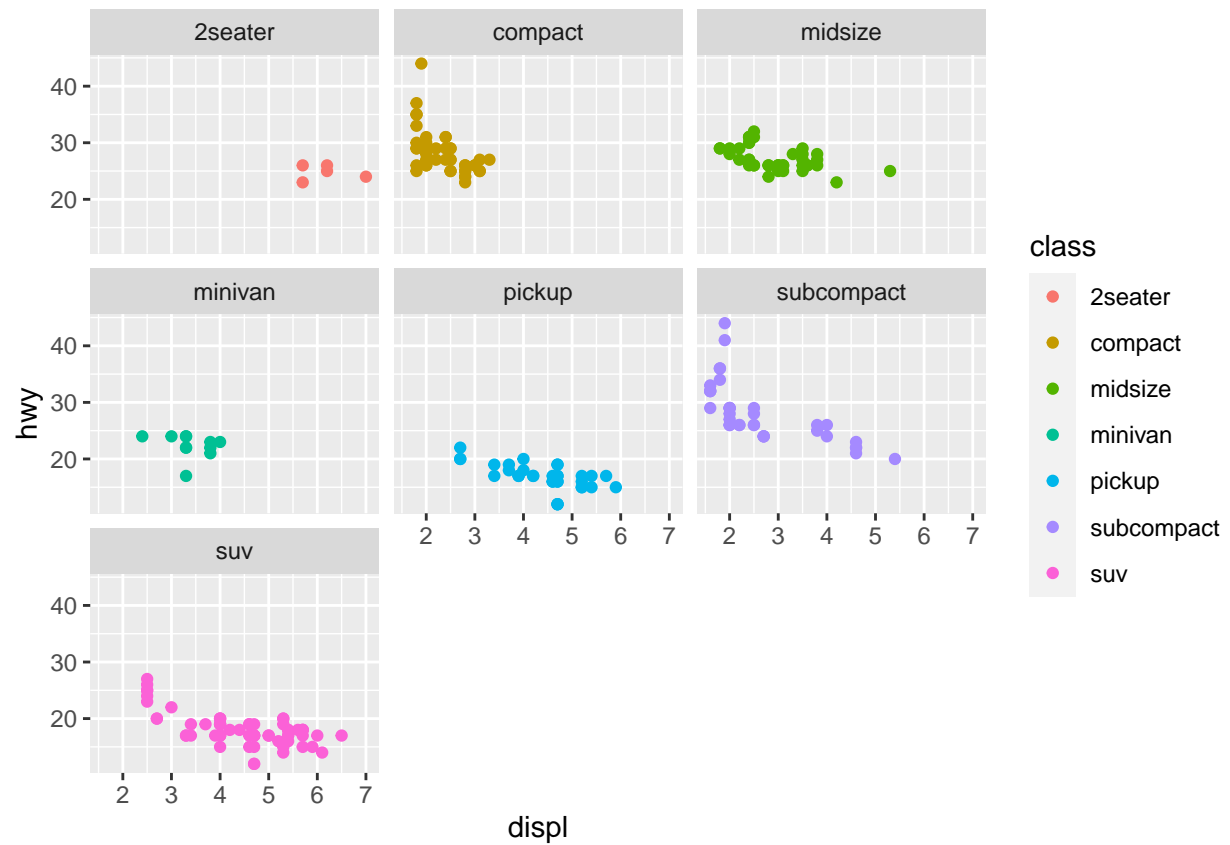
```
p1 = ggplot(data=mpg) +  
  geom_point(mapping = aes(x = displ, y = hwy, color = class))  
  
p1 + facet_wrap(~ class, nrow=1)
```



```
p1 + facet_wrap(~ class, nrow=2)
```



```
p1 + facet_wrap(~ class, nrow=3)
```



Manual aes property

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

