Actividad 6

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Ejercicio 1

```r
ggplot(mpg) +
   geom_point(aes(hwy, cty)) +
   labs(x = "City drive efficiency (miles per gallon)",
        y = "Highway drive efficiency (miles per gallon)",
        title = "Fuel efficiency comparison") +
   theme(plot.title = element_text(h = 0.5))
```
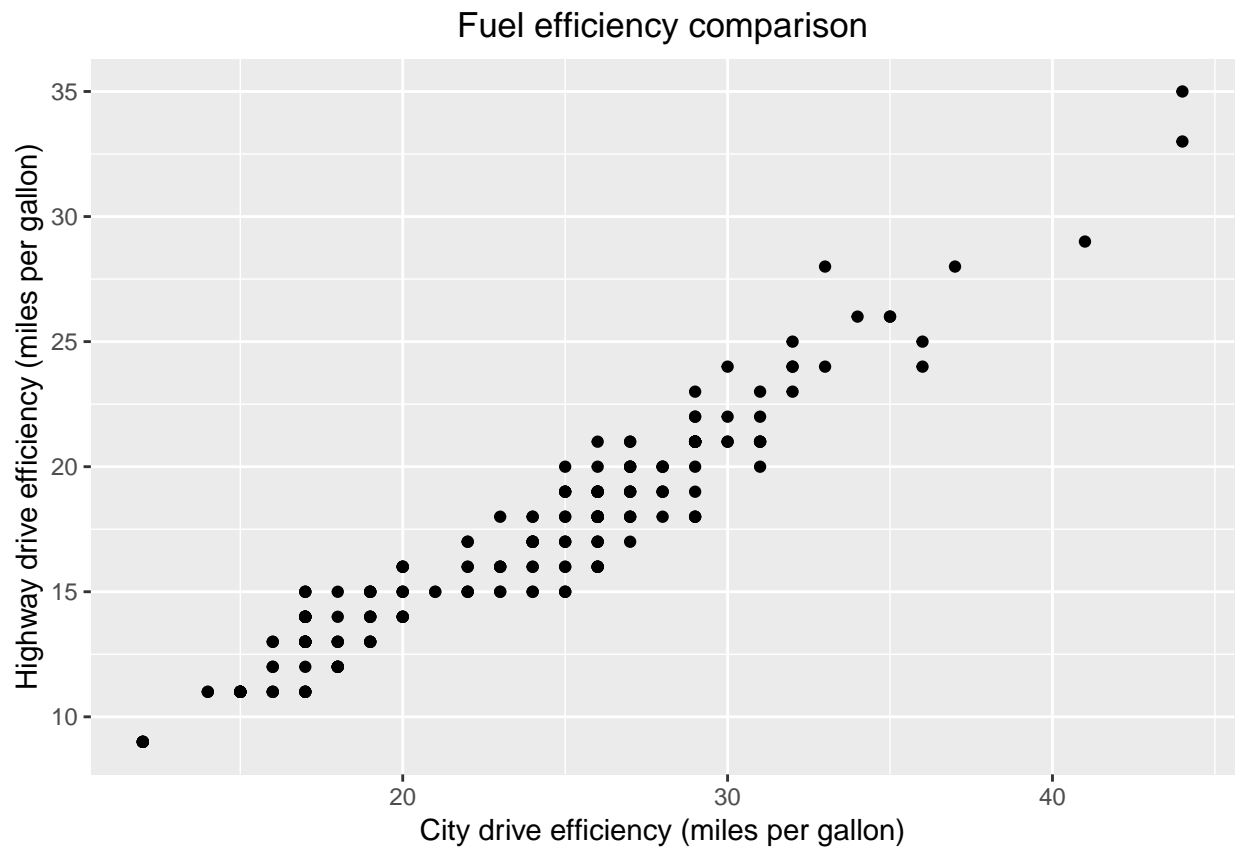

Figure 1: Scatter plot hwy vs cty

Ejercicio 2

1) Using alpha to correct overplotting

```
ggplot(mpg) +
  geom_point(aes(hwy, cty), alpha = .1) +
  labs(x = "City drive efficiency (miles per gallon)",
       y = "Highway drive efficiency (miles per gallon)",
       title = "Fuel efficiency comparison") +
  theme(plot.title = element_text(h = 0.5))
```
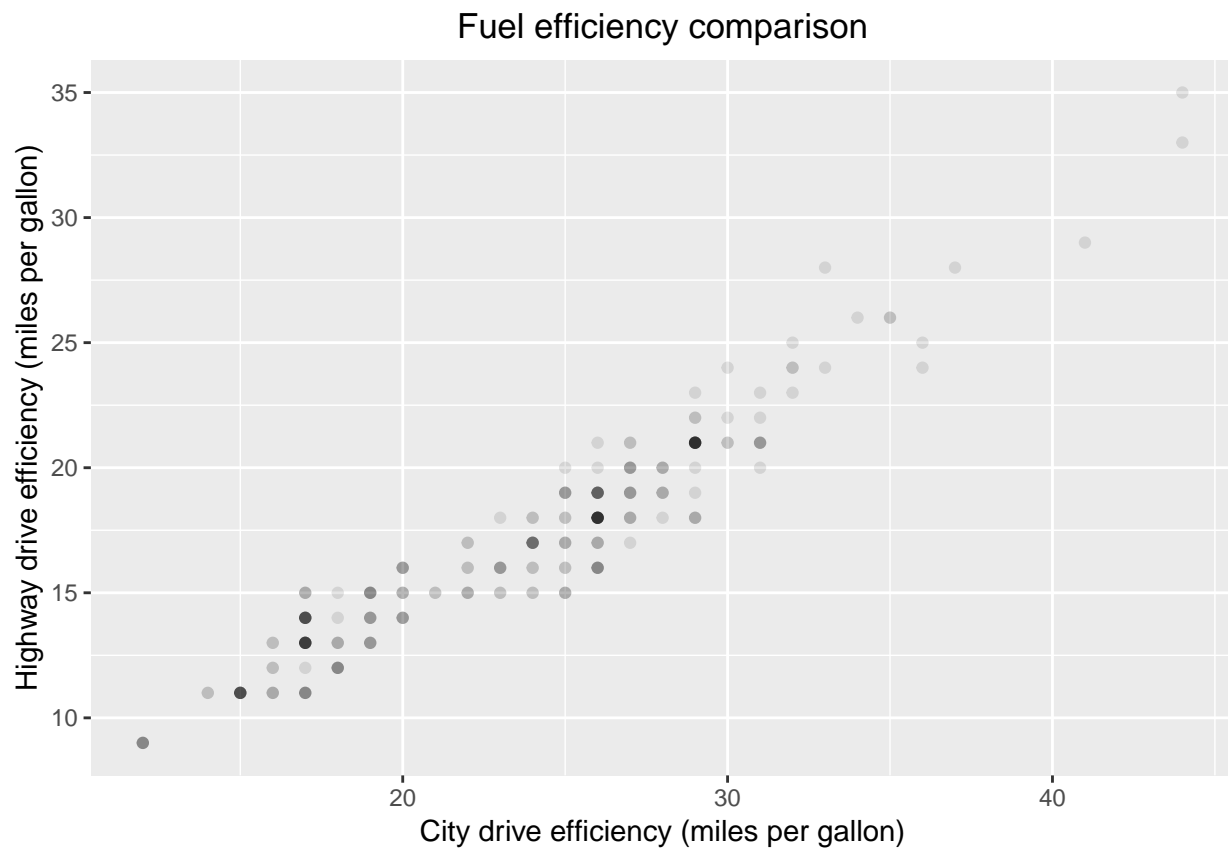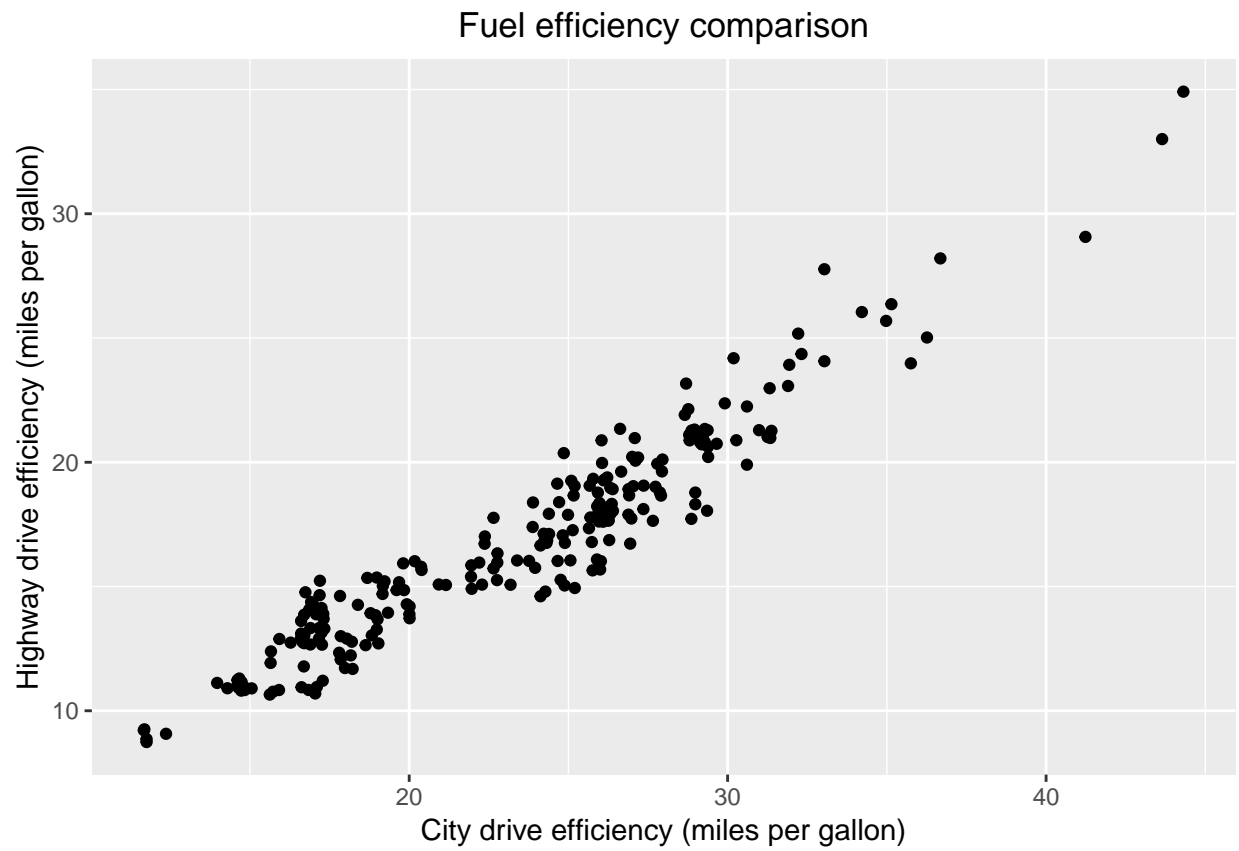

2) Using jitter to correct overplotting

```
ggplot(mpg) +
  geom_jitter(aes(hwy, cty)) +
  labs(x = "City drive efficiency (miles per gallon)",
       y = "Highway drive efficiency (miles per gallon)",
       title = "Fuel efficiency comparison") +
  theme(plot.title = element_text(h = 0.5))
```
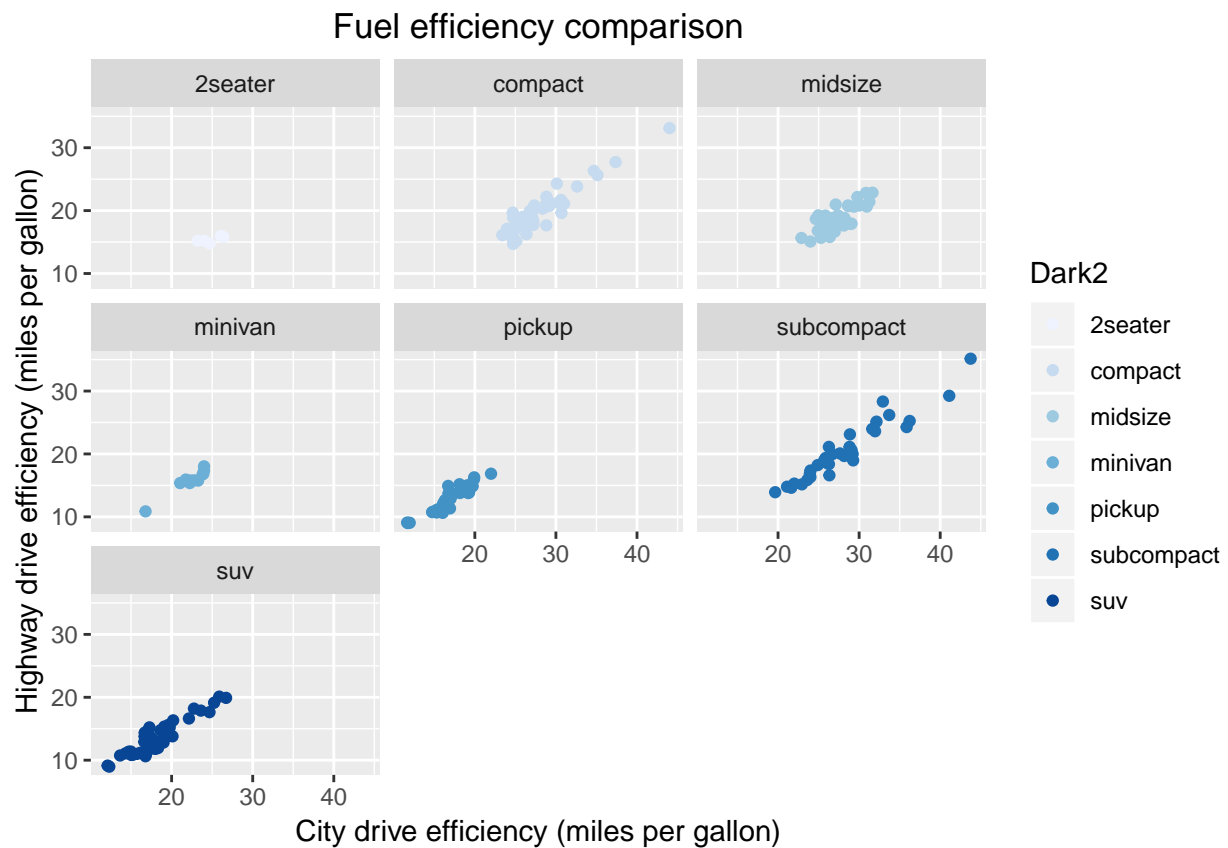
Fuel efficiency comparison

3)

Alpha, porque no modifica los datos.

Ejercicio 3

```r
ggplot(mpg) +
    geom_jitter(aes(hwy, cty, color = class)) +
    labs(x = "City drive efficiency (miles per gallon)",
         y = "Highway drive efficiency (miles per gallon)",
         title = "Fuel efficiency comparison") +
    scale_color_brewer("Dark2") +
    facet_wrap(~class) +
    theme(plot.title = element_text(h = 0.5))
```


3 en 1.

Muy buen trabajo! 10/10. Sin comentarios.