

Homework Data Viz

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```
library(tidyverse)
library(ggthemes)
library(patchwork)
head(mpg)
```

```
## # A tibble: 6 x 11
##   manufacturer model displ  year   cyl trans      drv    cty   hwy fl   class
##   <chr>          <chr> <dbl> <int> <int> <chr>    <chr> <int> <int> <chr> <chr>
## 1 audi          a4      1.8  1999     4 auto(l5)  f      18    29 p   compa~
## 2 audi          a4      1.8  1999     4 manual(m5) f      21    29 p   compa~
## 3 audi          a4      2    2008     4 manual(m6) f      20    31 p   compa~
## 4 audi          a4      2    2008     4 auto(av)   f      21    30 p   compa~
## 5 audi          a4      2.8  1999     6 auto(l5)  f      16    26 p   compa~
## 6 audi          a4      2.8  1999     6 manual(m5) f      18    26 p   compa~
```

Chart 1:

```
ggplot(mpg, aes(x=class, fill=class)) +
  geom_bar(color="black") +
  theme_classic() +
  scale_fill_brewer(palette = "Pastel1")
```

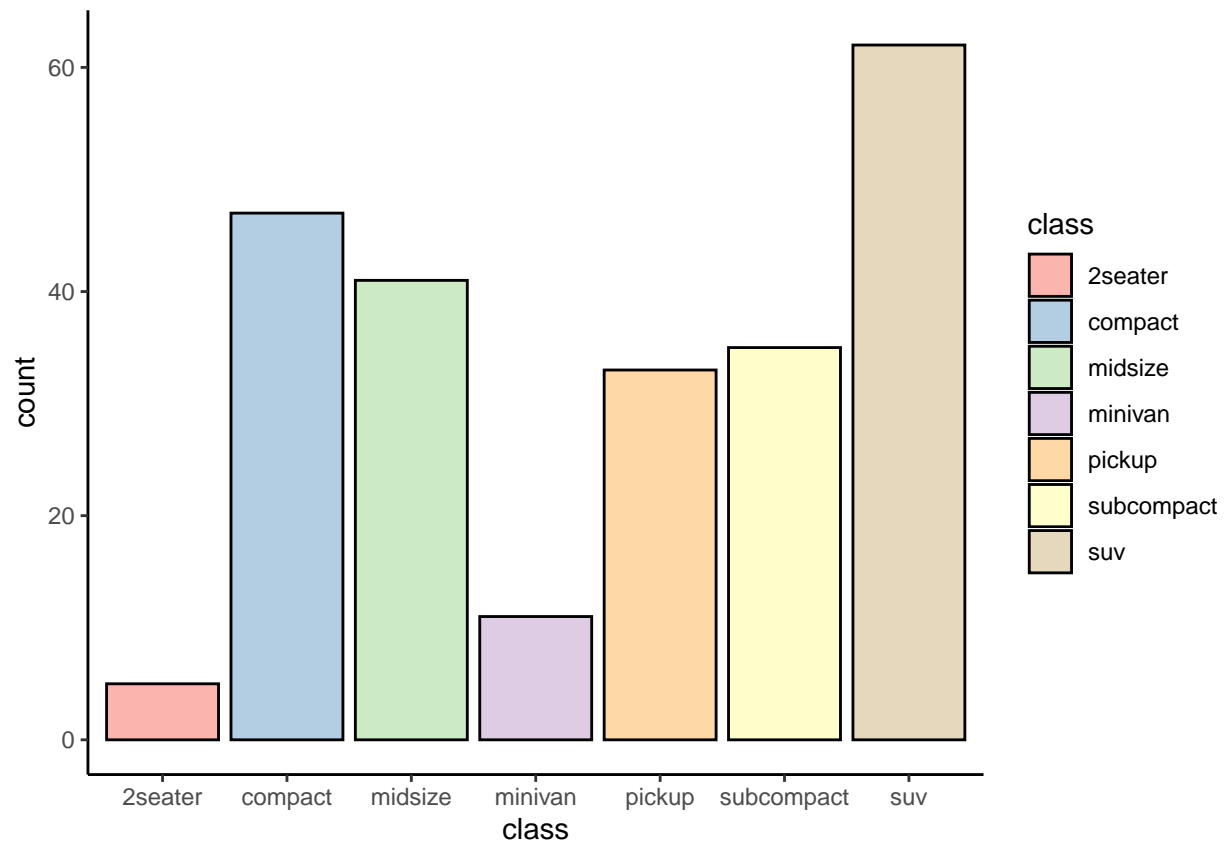


Chart 2:

```
ggplot(mpg %>%  
  sample_frac(0.1), aes(class, cty, color = cty)) +  
  geom_point() +  
  theme_classic() +  
  scale_color_gradient(low = "red" , high = "green" )
```

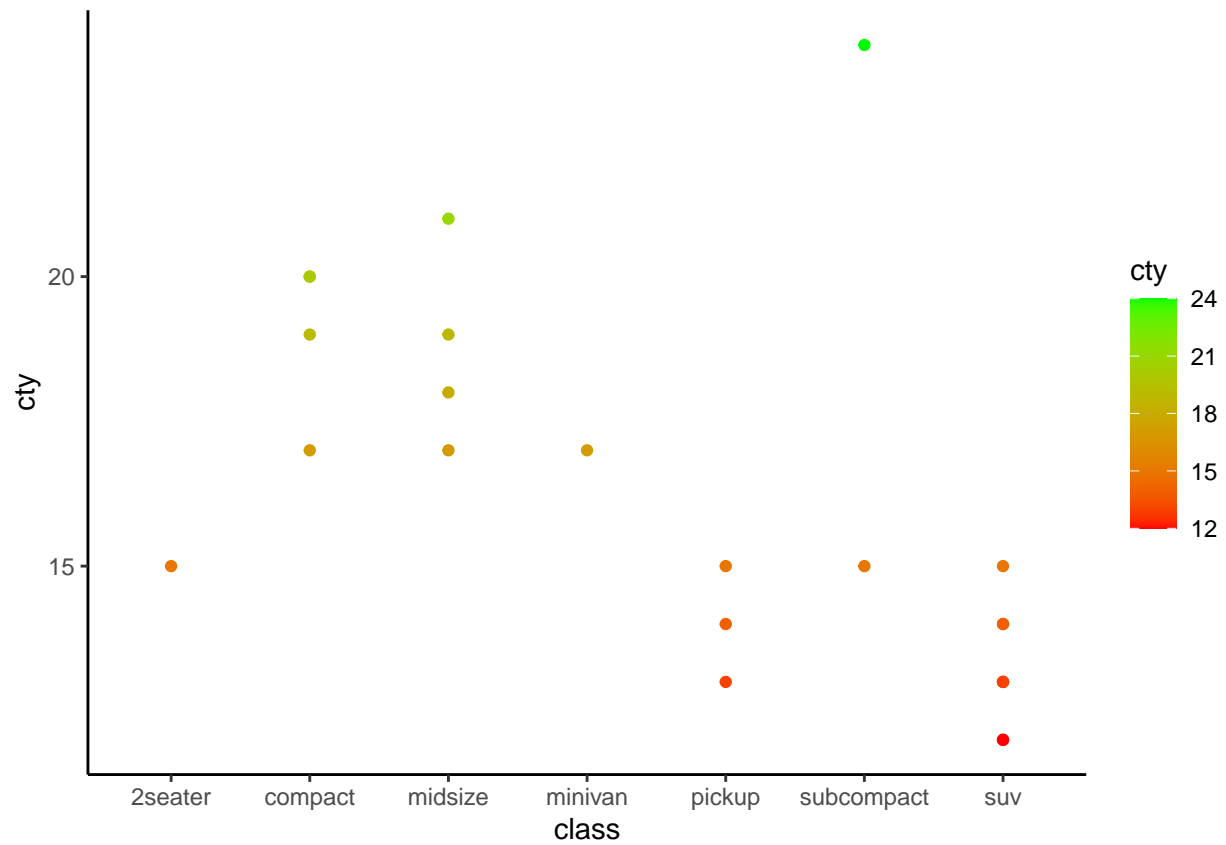


Chart 3:

```
ggplot(mpg, aes(manufacturer, fill=class)) +  
  geom_bar(position = "fill") +  
  theme_minimal() +  
  scale_fill_brewer(palette = "PuRd")
```

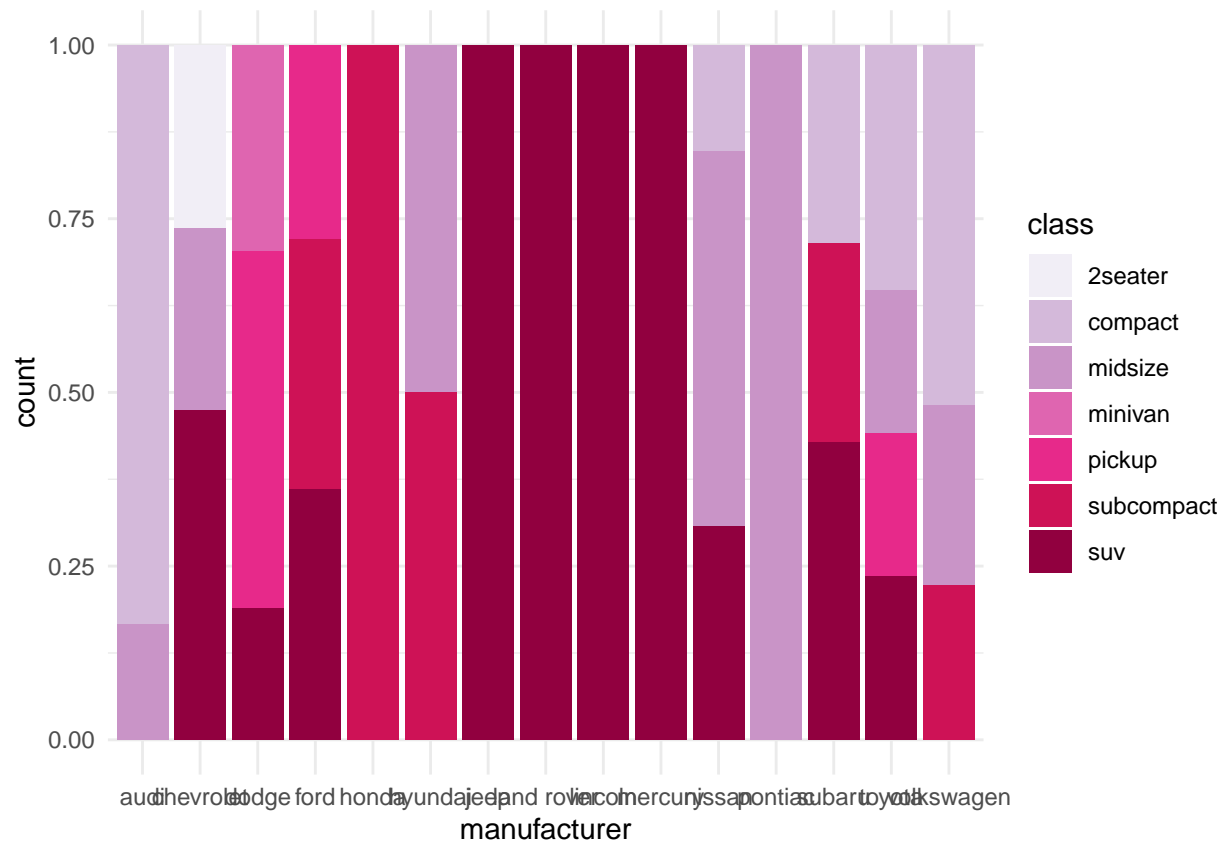


Chart 4:

```
ggplot(mpg, aes(x=displ, y=cty, color = class)) +
  geom_point(size = 2) +
  theme_minimal() +
  facet_grid(~year) +
  scale_color_brewer(palette = "Dark2")
```

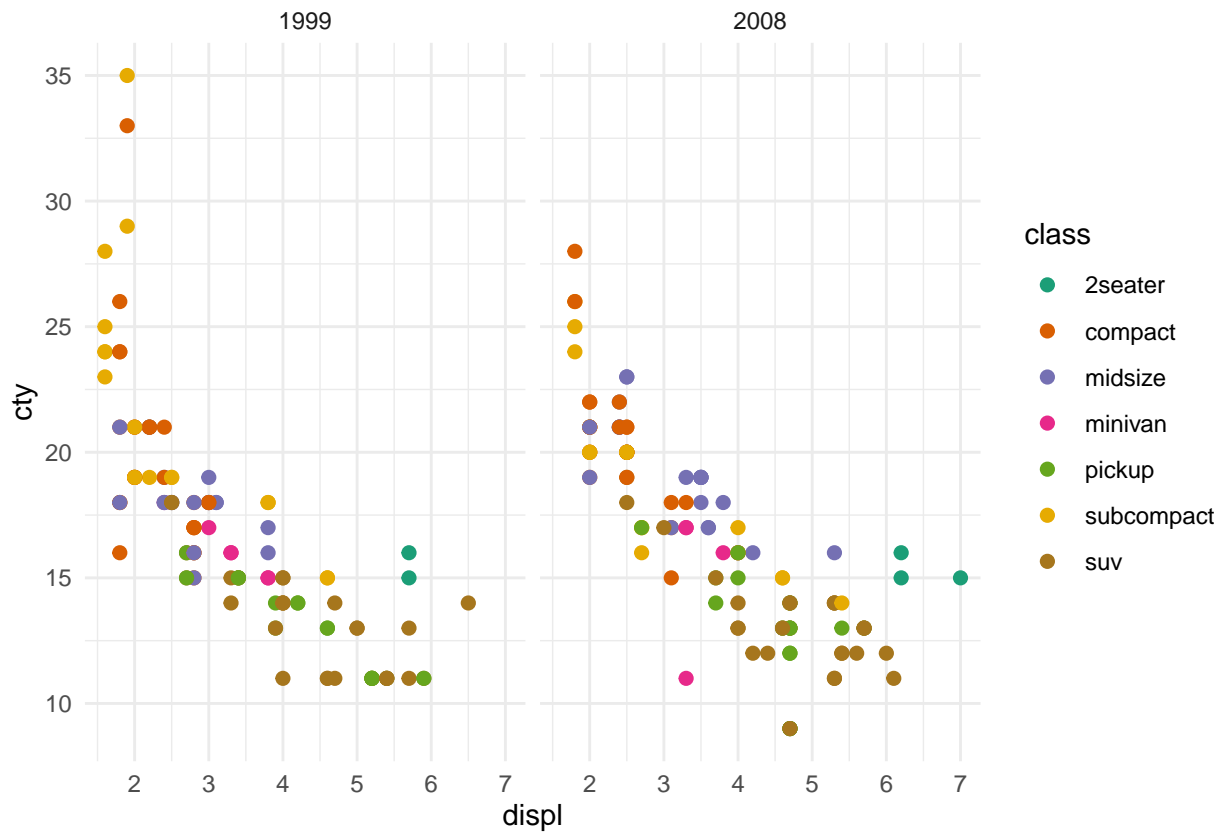


Chart 5:

```
set.seed(17)
mpg_comp_2008 <- mpg %>%
  filter(year == 2008, class == "compact") %>%
  mutate(carbrands = paste(manufacturer, model))

ggplot(mpg_comp_2008, aes(displ, cty, color = carbrands)) +
  geom_point(size = 4) +
  theme_minimal() +
  scale_color_brewer(palette = "Paired")
```

