

Homework data viz

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Homework

Explore data

```
## # 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~
```

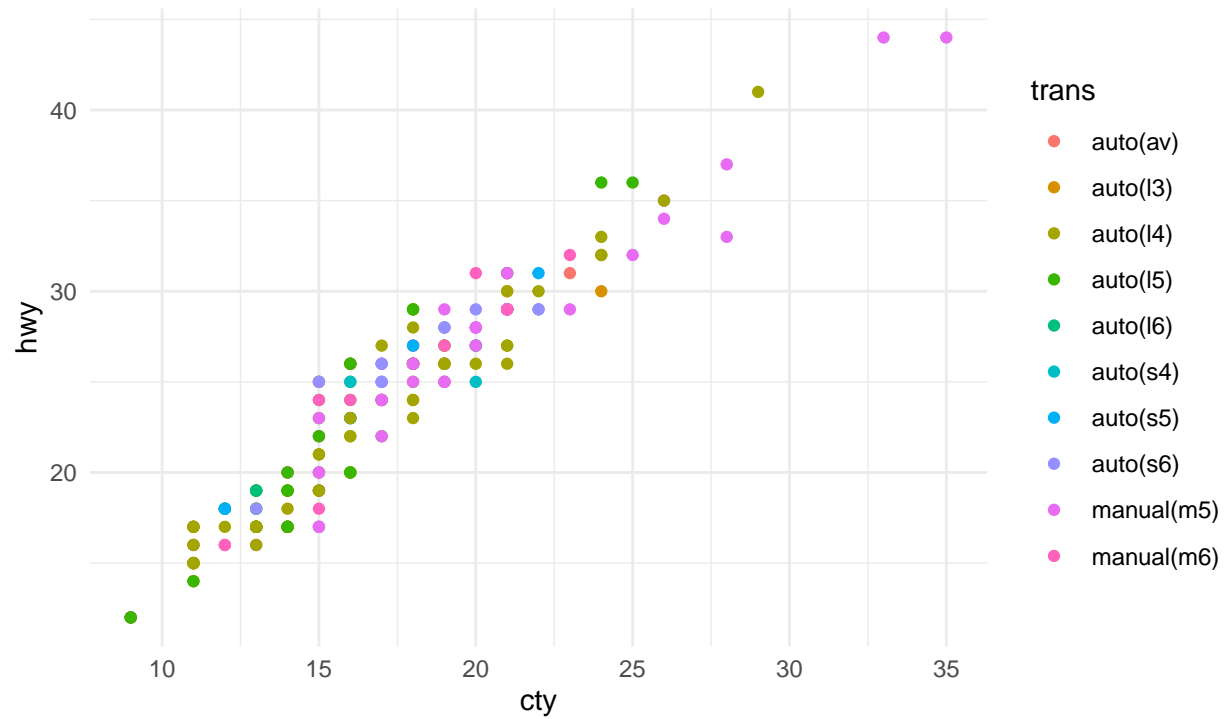
Create 5 Chart

1. two variables: number x number (scatter plot)

```
ggplot(mpg, aes(x = cty, y = hwy, color = trans )) +
  geom_point() +
  theme_minimal() +
  labs(
    title="My first scatter plot",
    subtitle="Cooool ggplot2",
    caption="Data: mpg from 1999 to 2008 for 38 popular models of cars"
  )
```

My first scatter plot

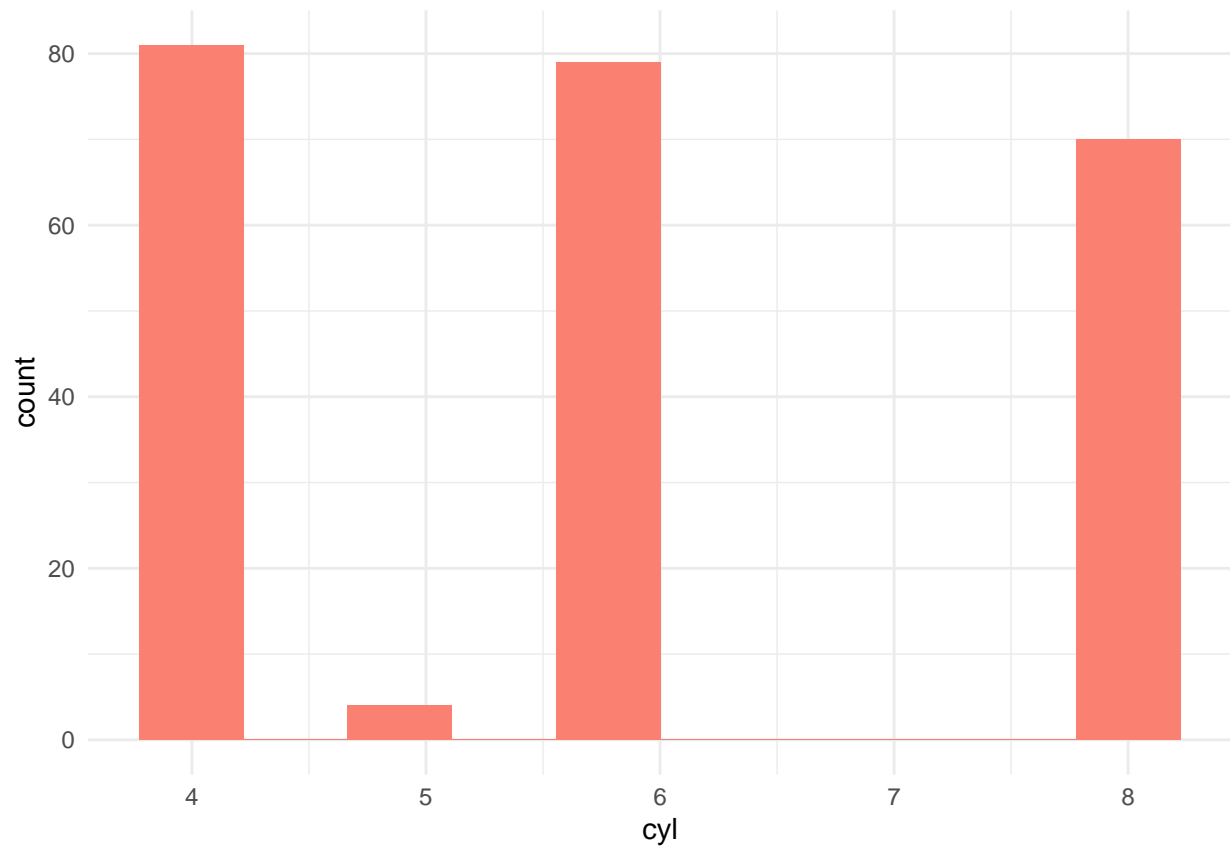
Cool ggplot2



Data: mpg from 1999 to 2008 for 38 popular models of cars

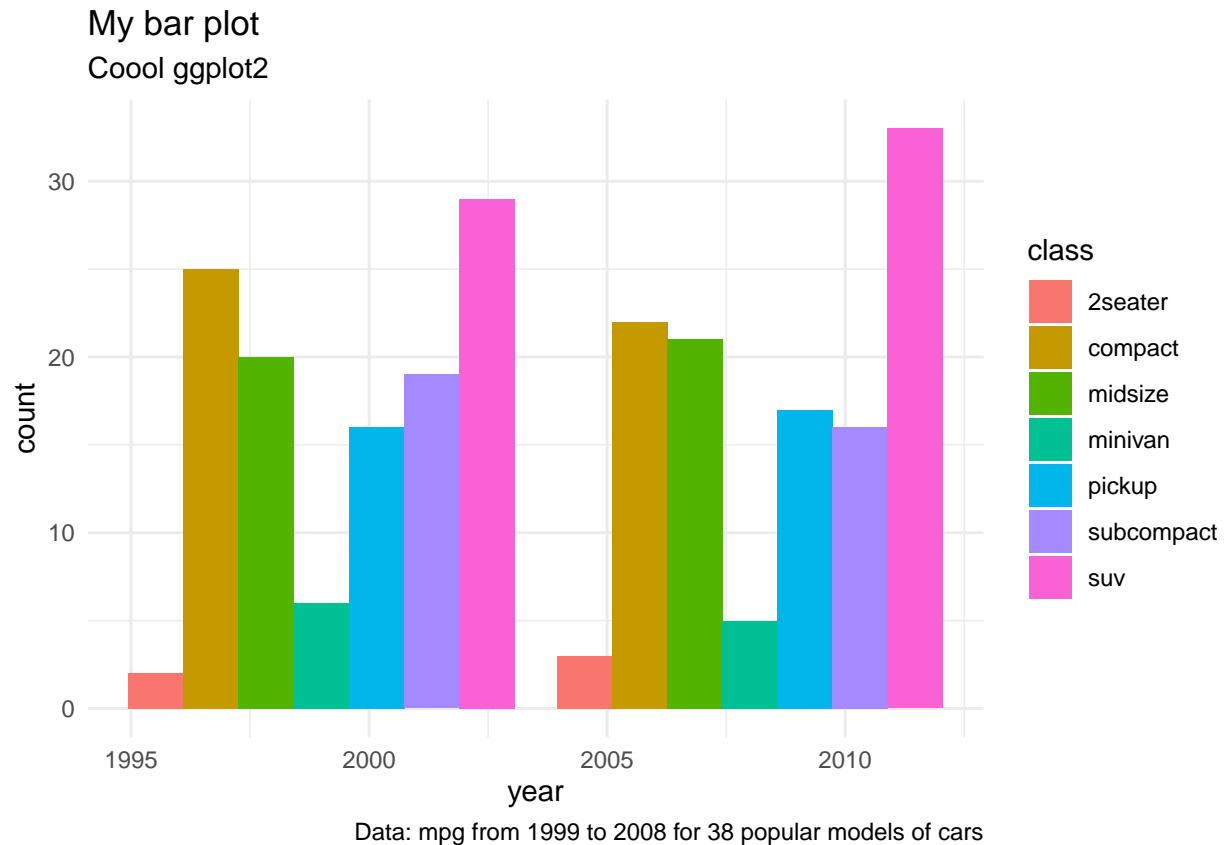
2.One variable + Continuous (number)

```
ggplot(mpg, aes(cyl,)) +  
  geom_histogram(bins=10, fill = "salmon") +  
  theme_minimal()
```



3. geom_bar(position = "dodge")

```
ggplot(mpg, aes(year, fill=class)) +  
  geom_bar(position = "dodge") +  
  theme_minimal() +  
  labs(  
    title="My bar plot",  
    subtitle="Cool ggplot2",  
    caption="Data: mpg from 1999 to 2008 for 38 popular models of cars"  
  )
```



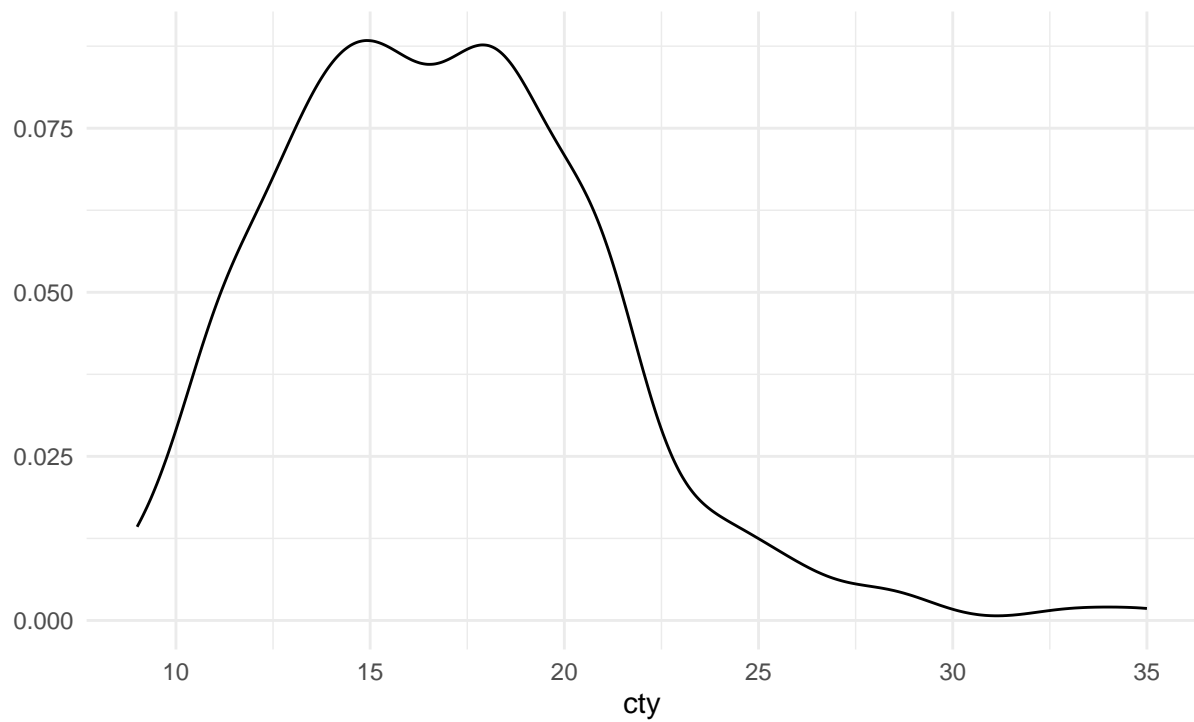
4. Density Chart (qqplot)

```
qqplot(x = cty, data = mpg, geom = "density") +
  theme_minimal() +
  labs(
    title="My Density plot",
    subtitle="Cool ggplot2",
    caption="Data: mpg from 1999 to 2008 for 38 popular models of cars"
  )
```

```
## Warning: `qqplot()` was deprecated in ggplot2 3.4.0.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
```

My Density plot

Cool ggplot2



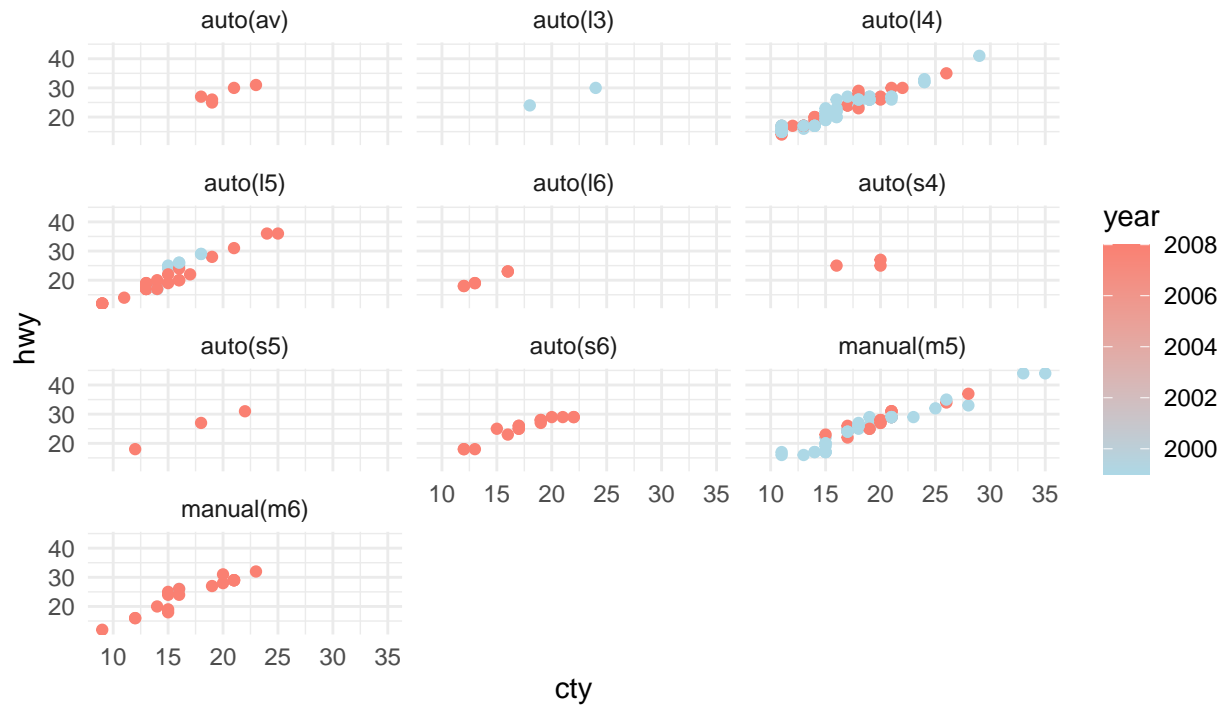
Data: mpg from 1999 to 2008 for 38 popular models of cars

5. FACET : small multiples

```
ggplot(mpg, aes( x = cty, y = hwy, color = year)) +  
  geom_point() +  
  facet_wrap(~trans, ncol = 3) +  
  theme_minimal() +  
  scale_color_gradient(low = "lightblue", high = "salmon") +  
  labs(  
    title="My scatter plot",  
    subtitle="Cool ggplot2",  
    caption="Data: mpg from 1999 to 2008 for 38 popular models of cars"  
  )
```

My scatter plot

Cool ggplot2



Data: mpg from 1999 to 2008 for 38 popular models of cars