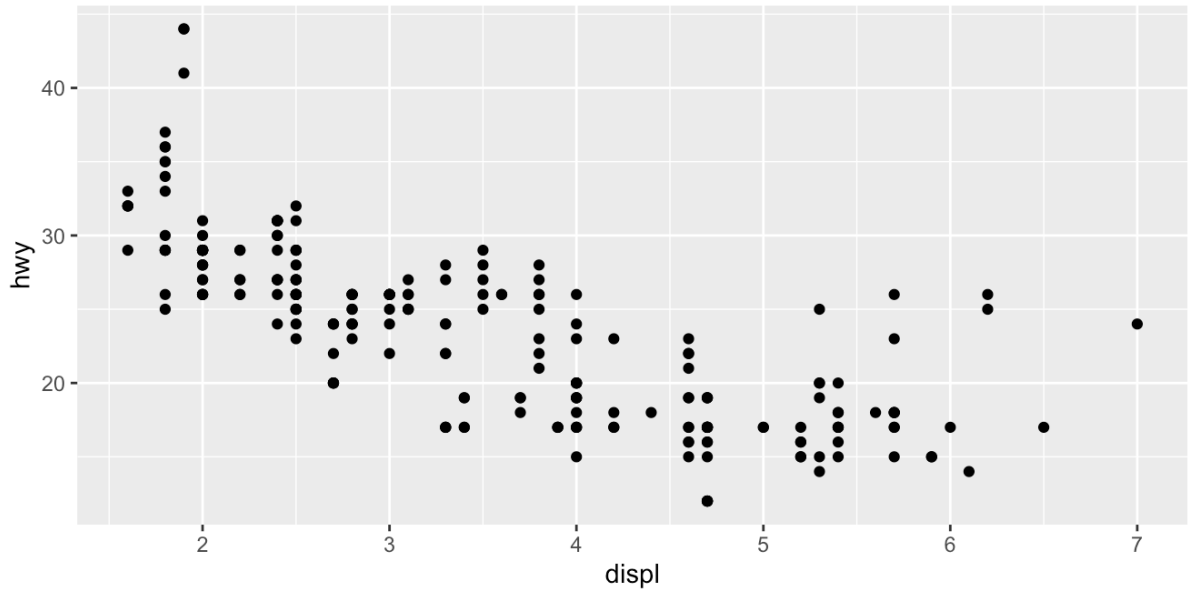
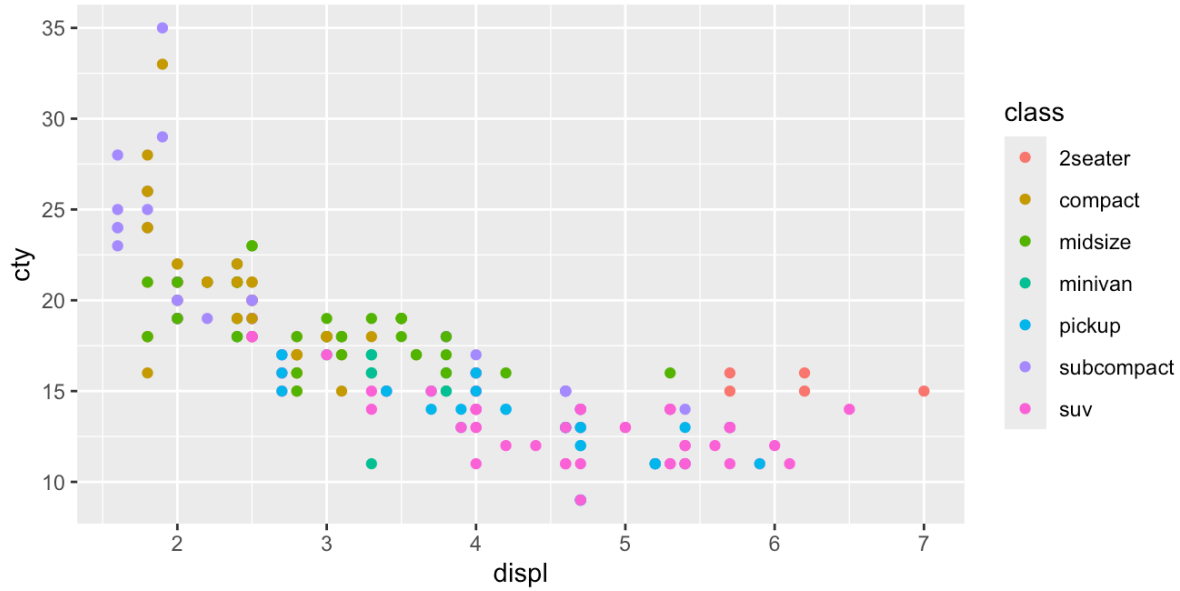
```
ggplot(mpg, aes(x = displ, y = hwy)) +
  geom_point()
```




```
ggplot(mpg, aes(displ, cty, colour = class)) +
  geom_point()
```




```
ggplot(mpg, aes(displ, hwy)) + geom_point(aes(colour = "blue"))
```

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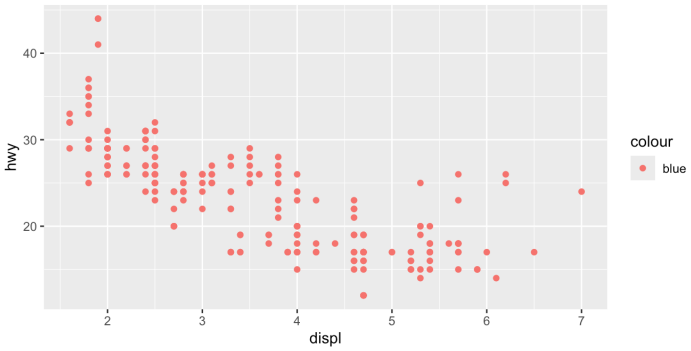
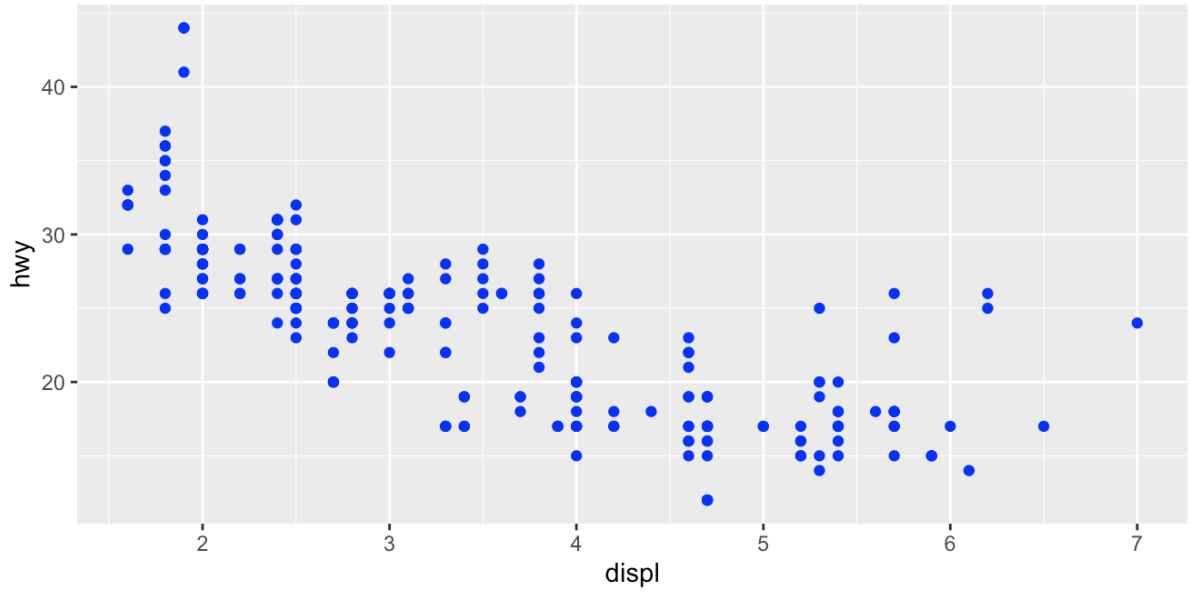
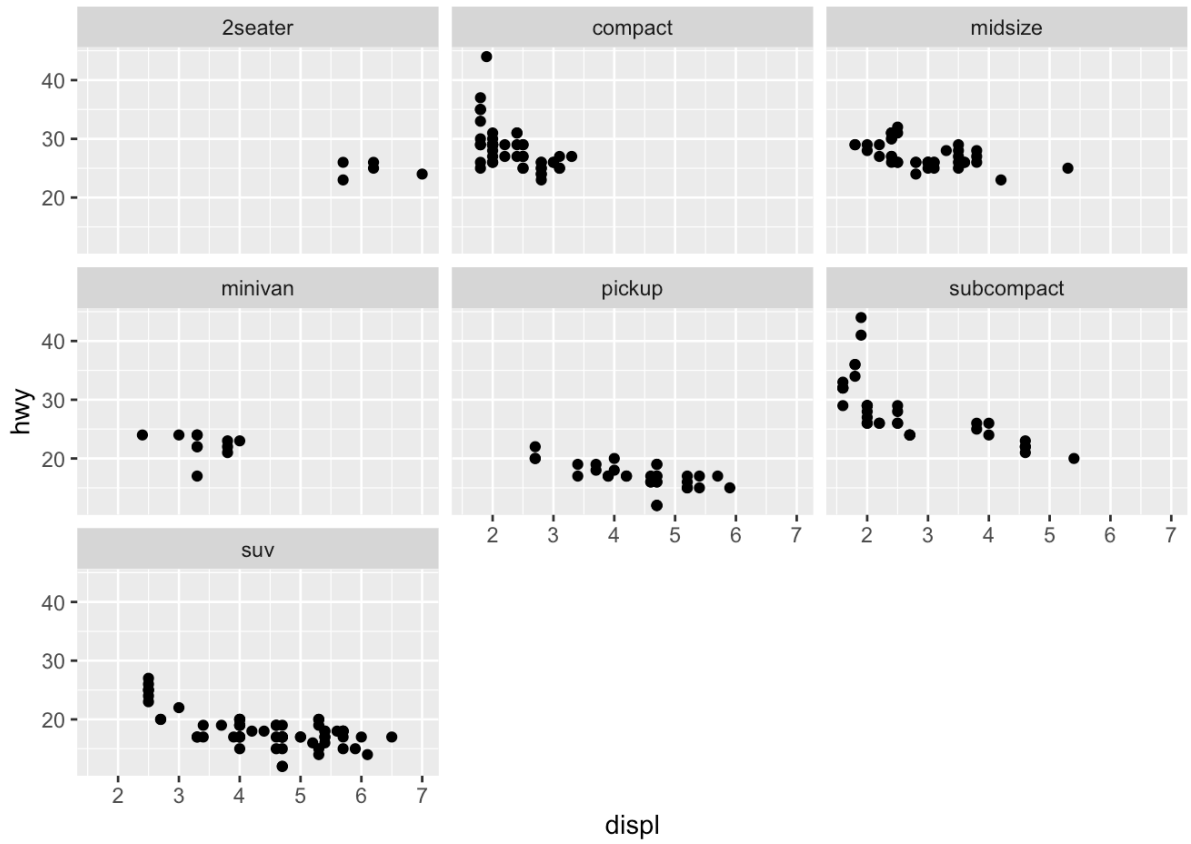


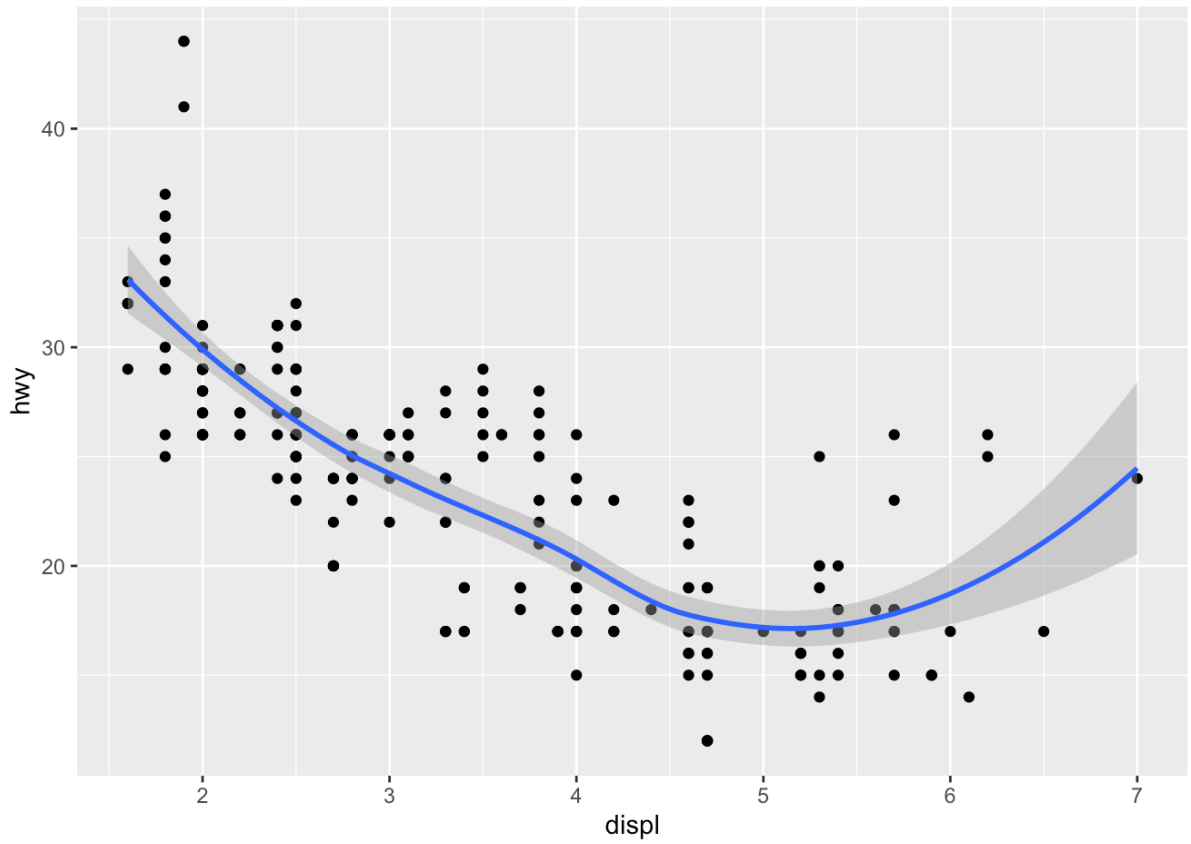

```
ggplot(mpg, aes(displ, hwy)) + geom_point(colour = "blue")
```



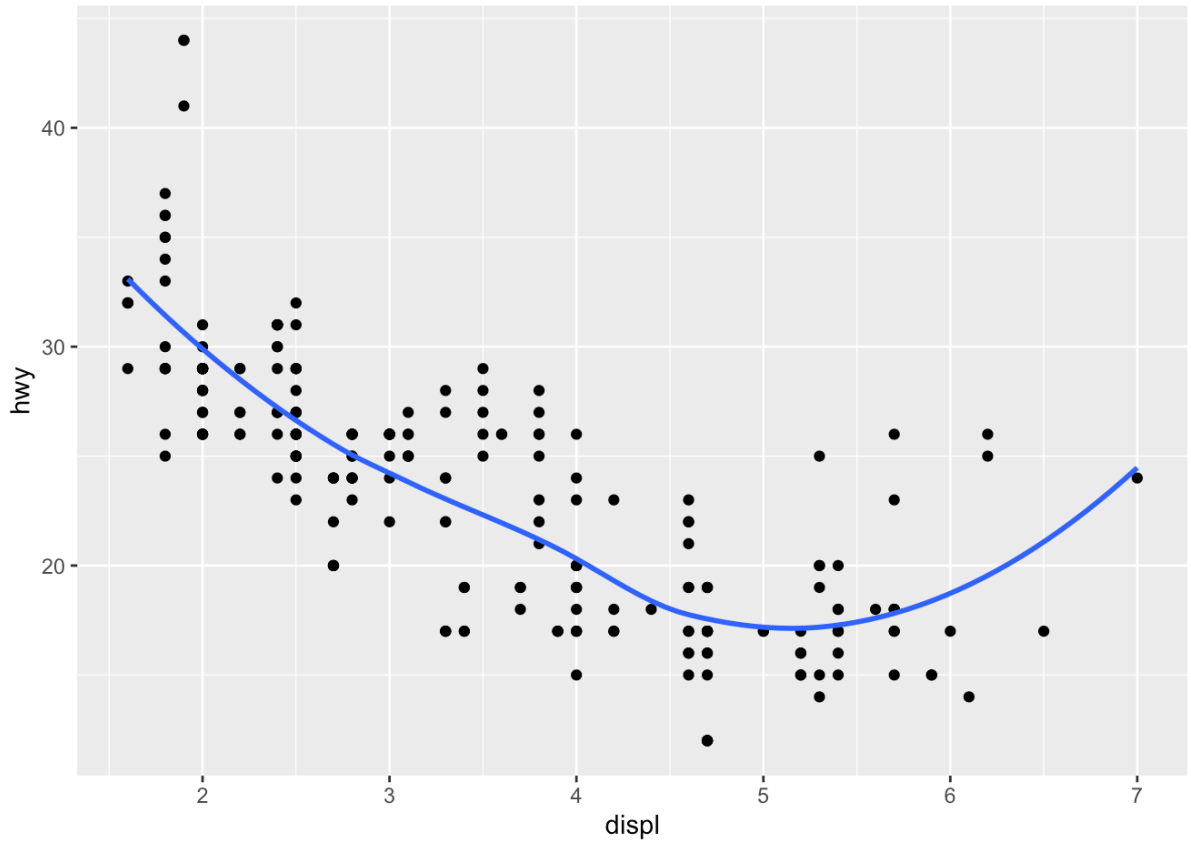

```
ggplot(mpg, aes(displ, hwy)) +
  geom_point() +
  facet_wrap(~class)
```



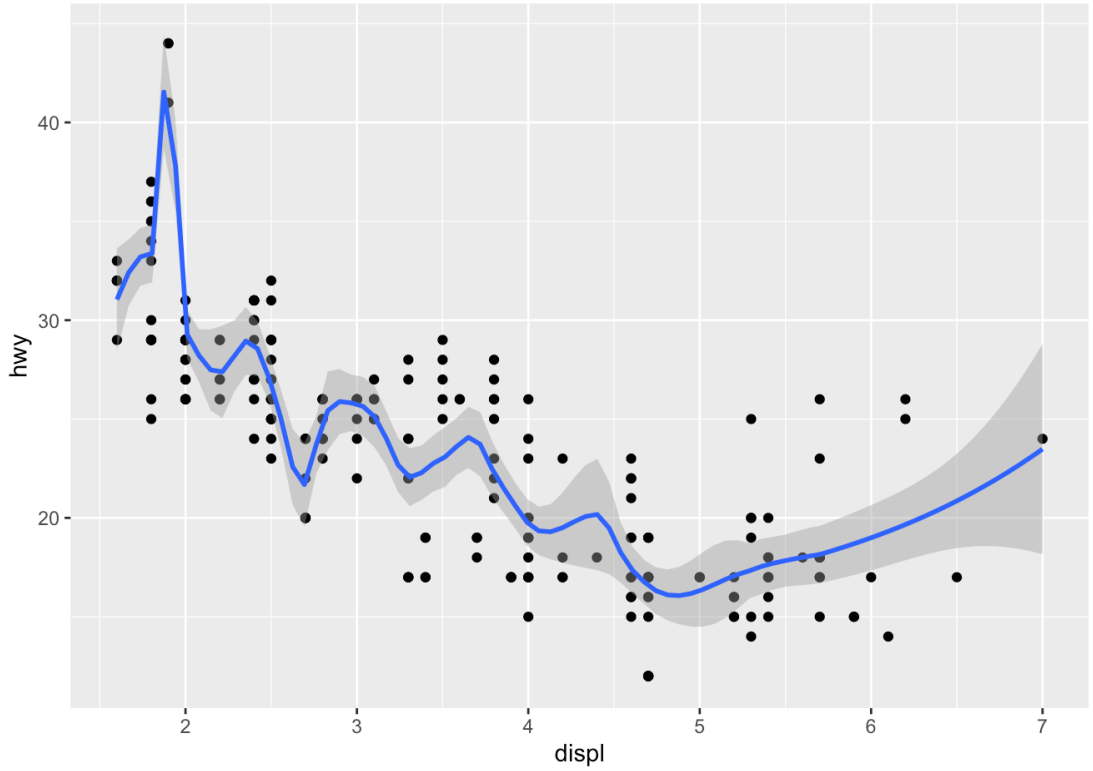

```
ggplot(mpg, aes(displ, hwy)) +
  geom_point() +
  geom_smooth()
```




```
ggplot(mpg, aes(displ, hwy)) +
  geom_point() +
  geom_smooth(se=FALSE)
```

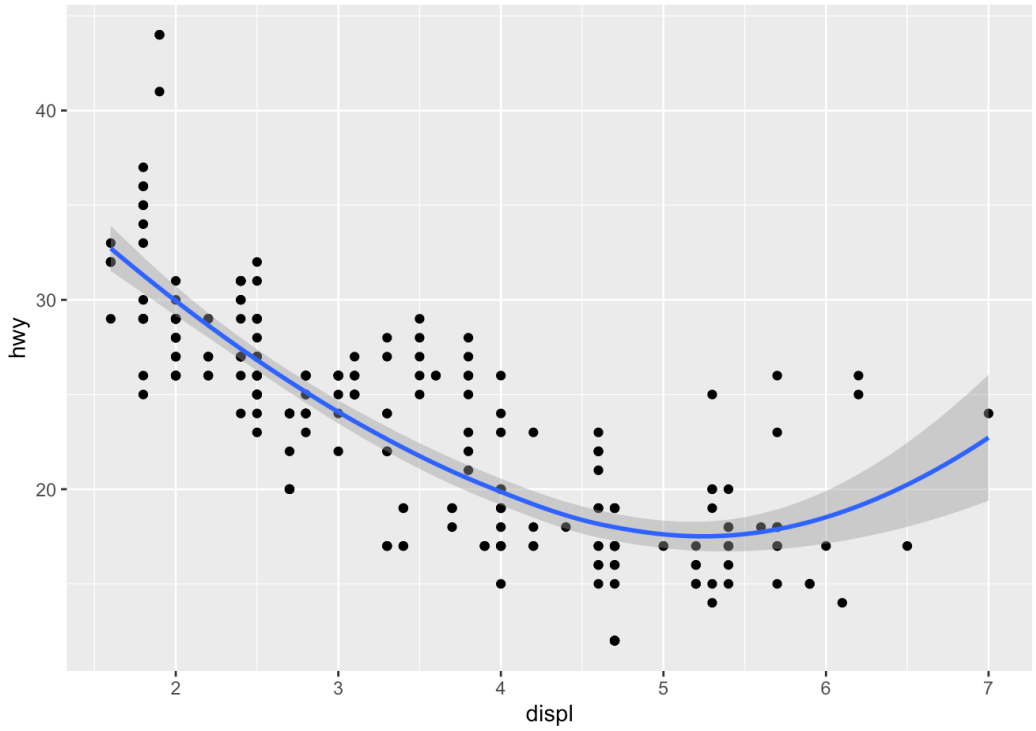


```
ggplot(mpg, aes(displ, hwy)) +
  geom_point() +
  geom_smooth(span = 0.2)
```

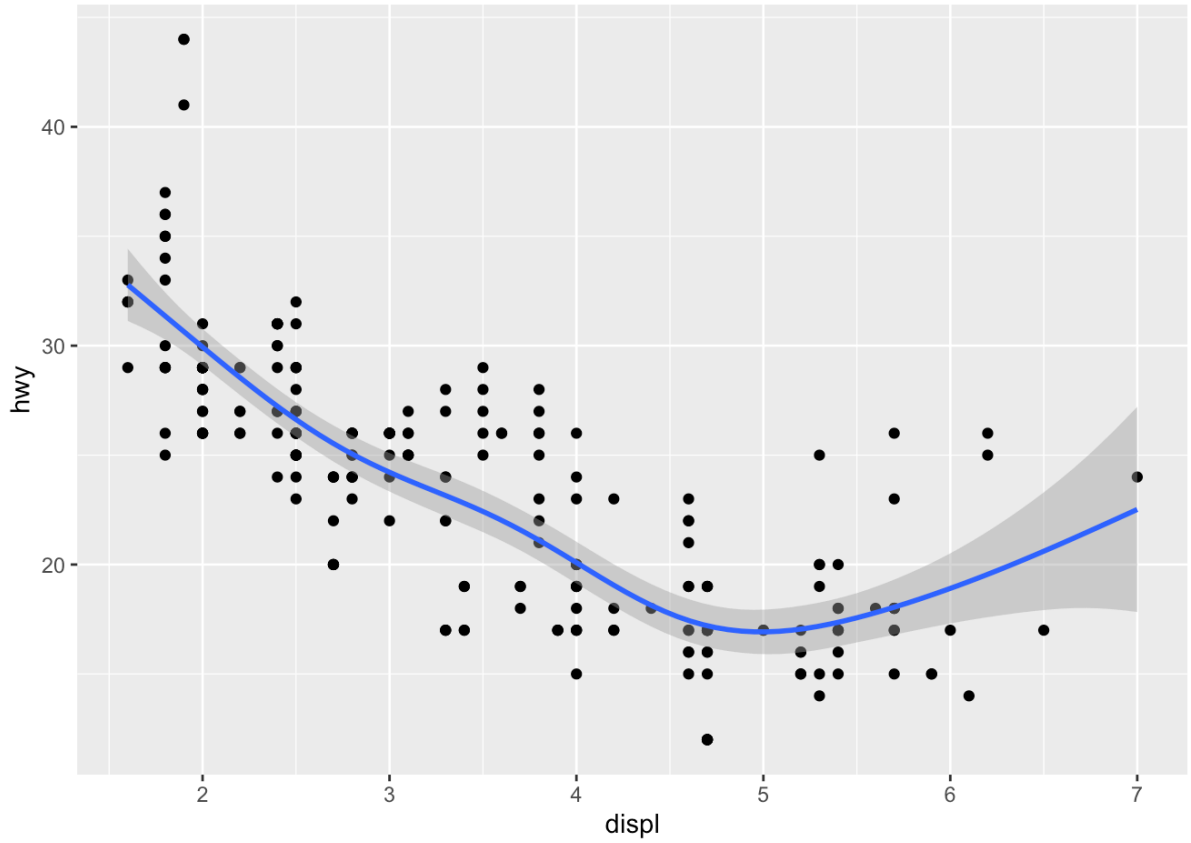


ggplot

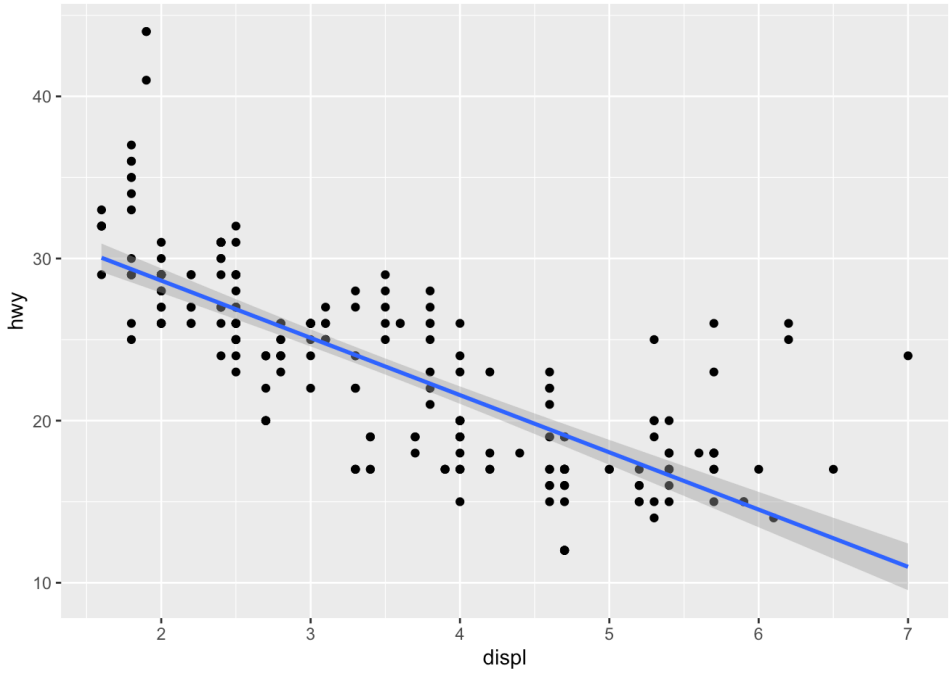
```
(mpg, aes(displ, hwy)) +
  geom_point() +
  geom_smooth(span = 1)
```



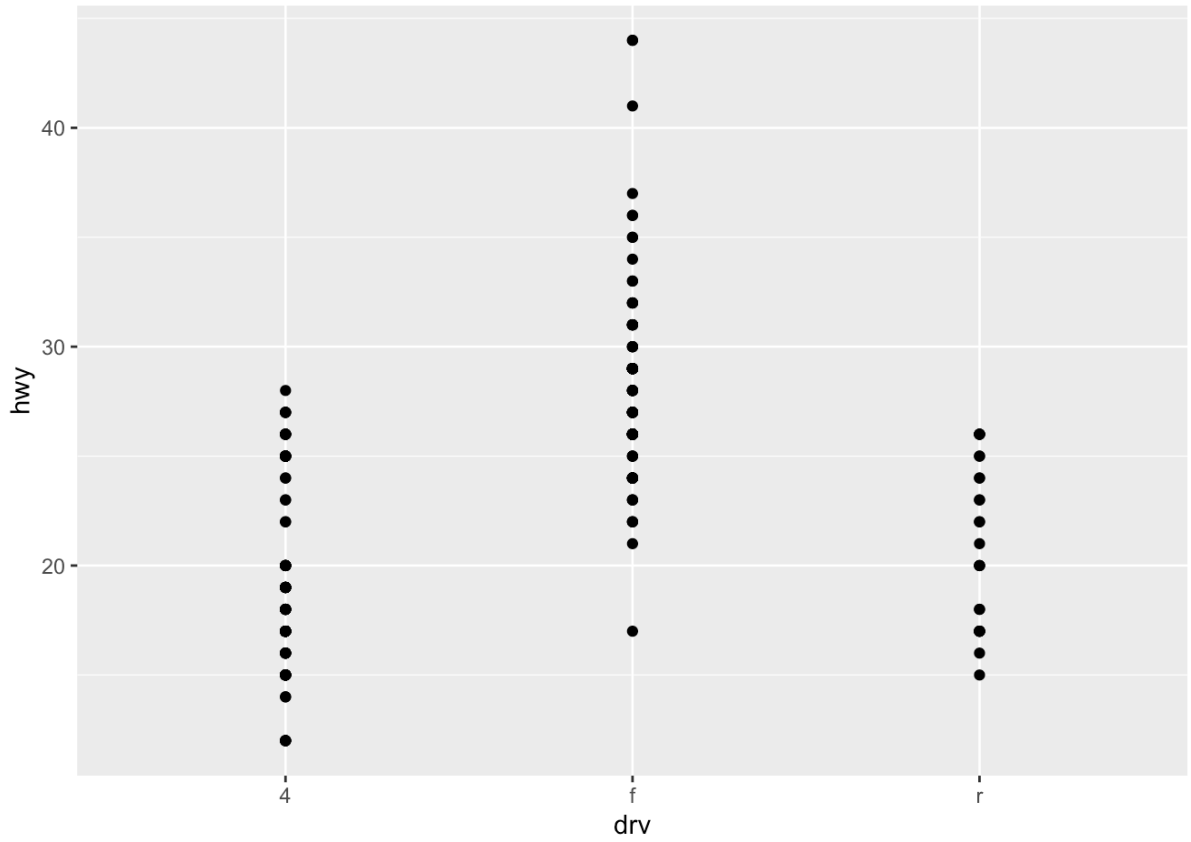
```
ggplot(mpg, aes(displ, hwy)) +
  geom_point() +
  geom_smooth(method = "gam", formula = y~s(x))
```



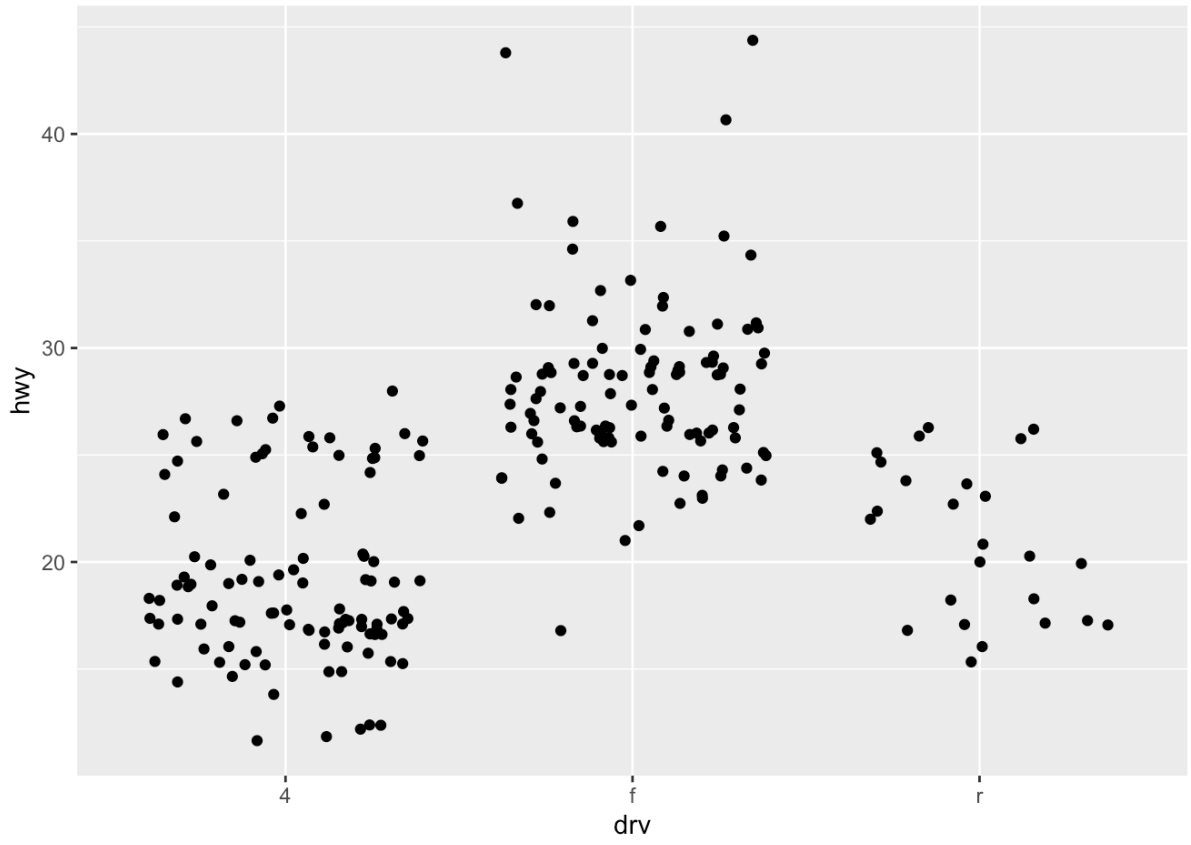

```
ggplot(mpg, aes(displ, hwy)) +
  geom_point() +
  geom_smooth(method = "lm")
```



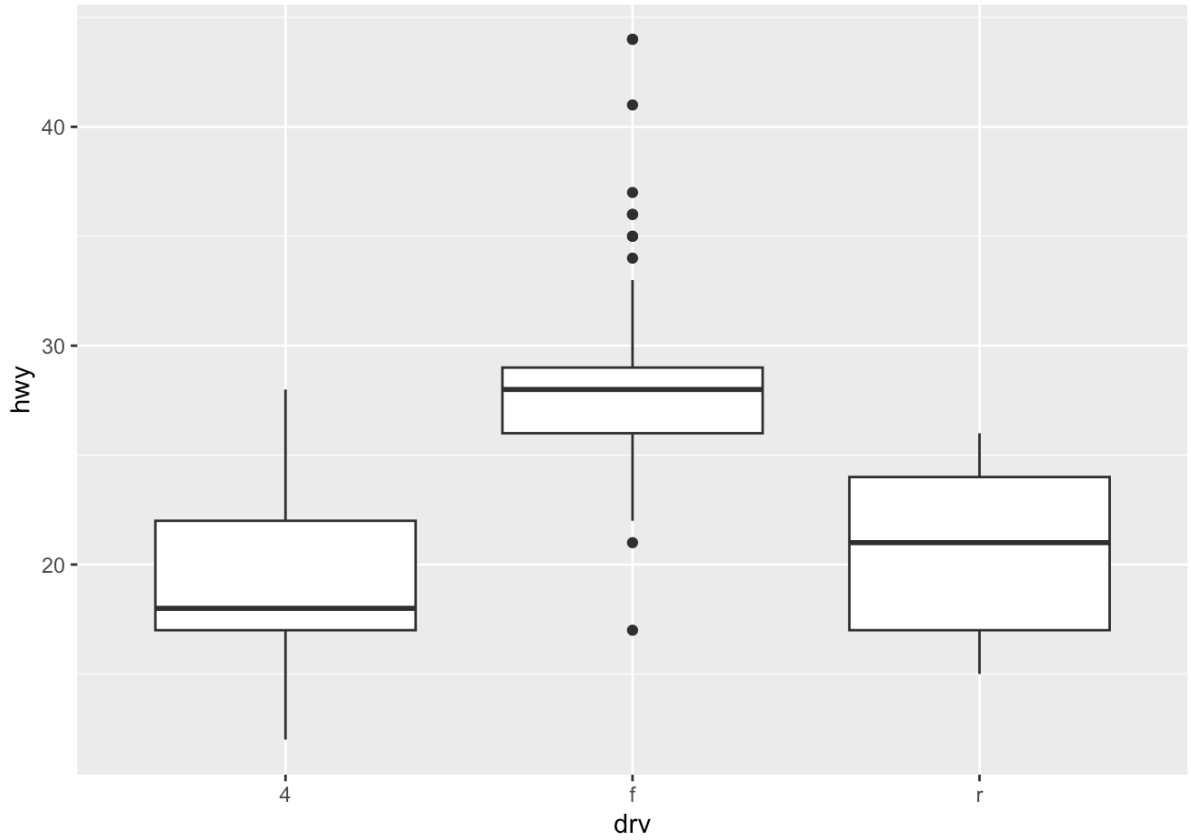
```
ggplot(mpg, aes(drv, hwy)) +
  geom_point()
```



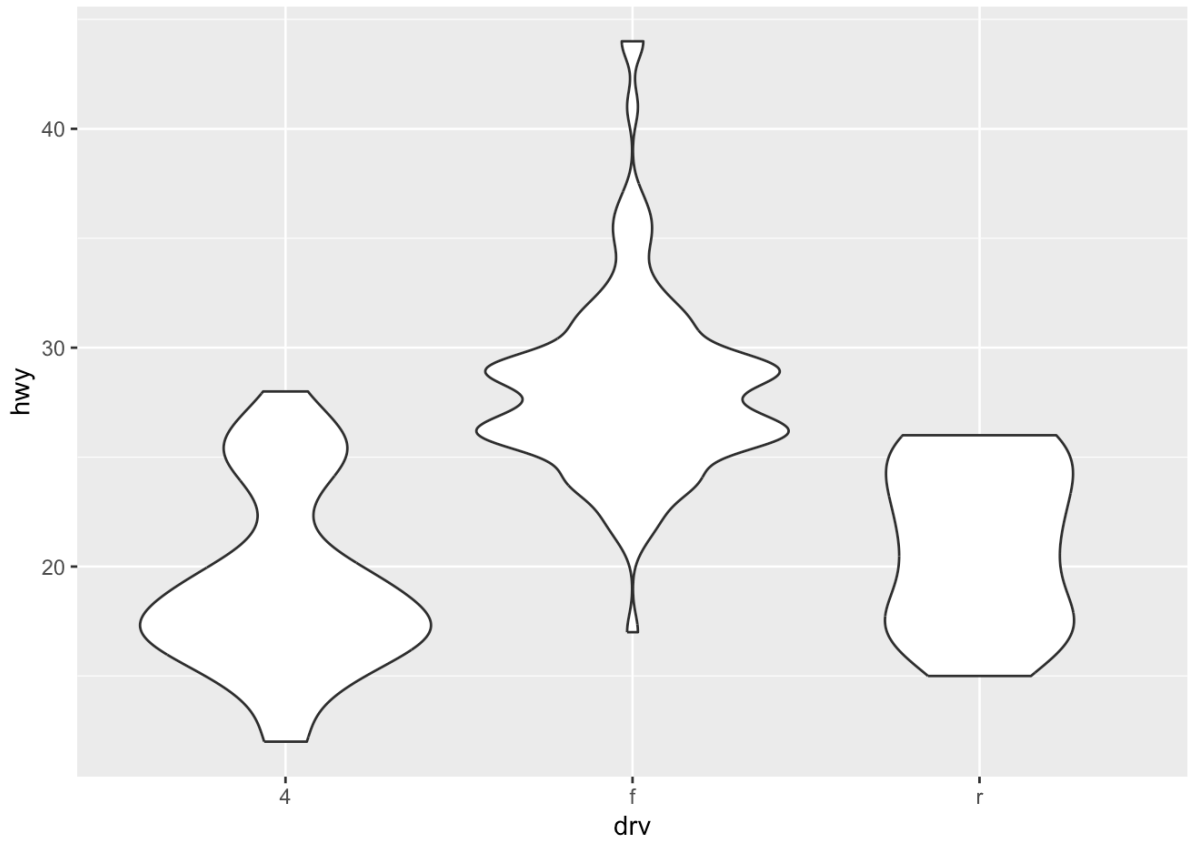

```
ggplot(mpg, aes(drv, hwy)) + geom_jitter()
```



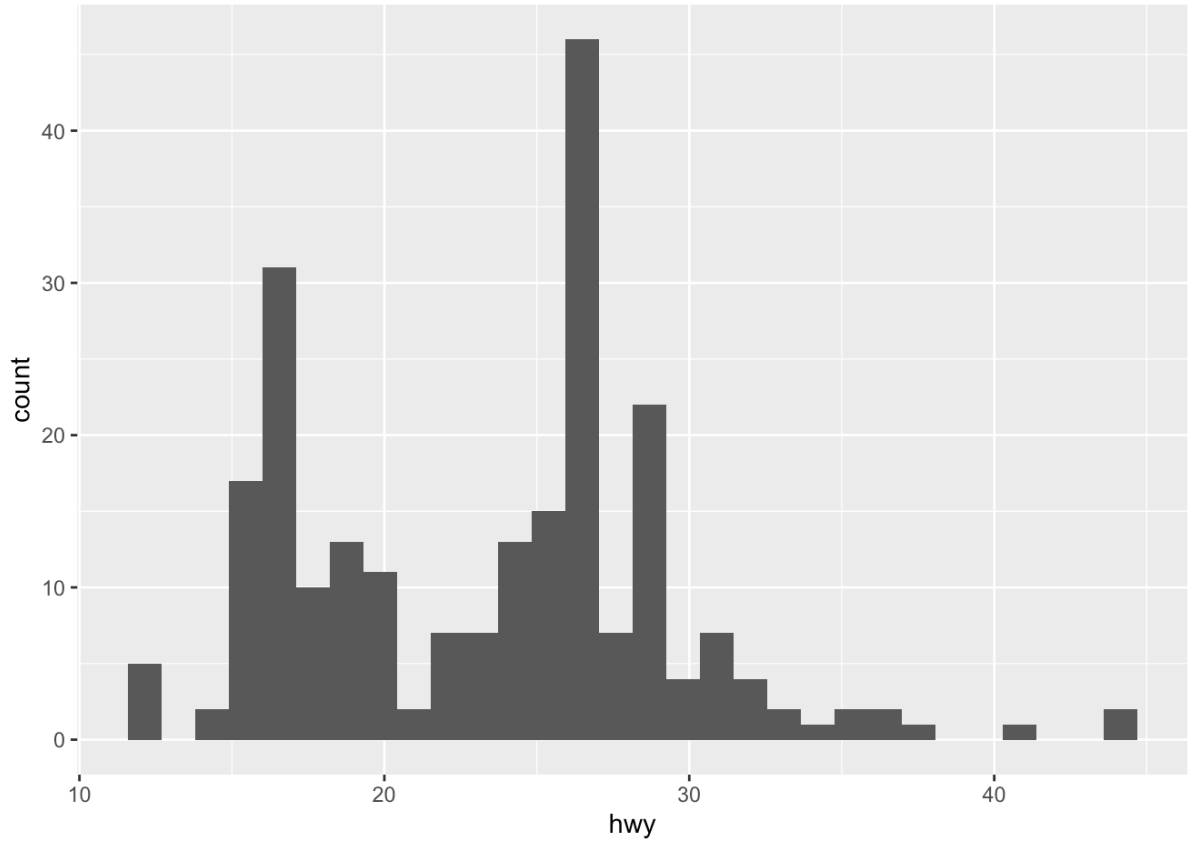
ggplot(mpg, aes(drv, hwy)) + geom_boxplot()



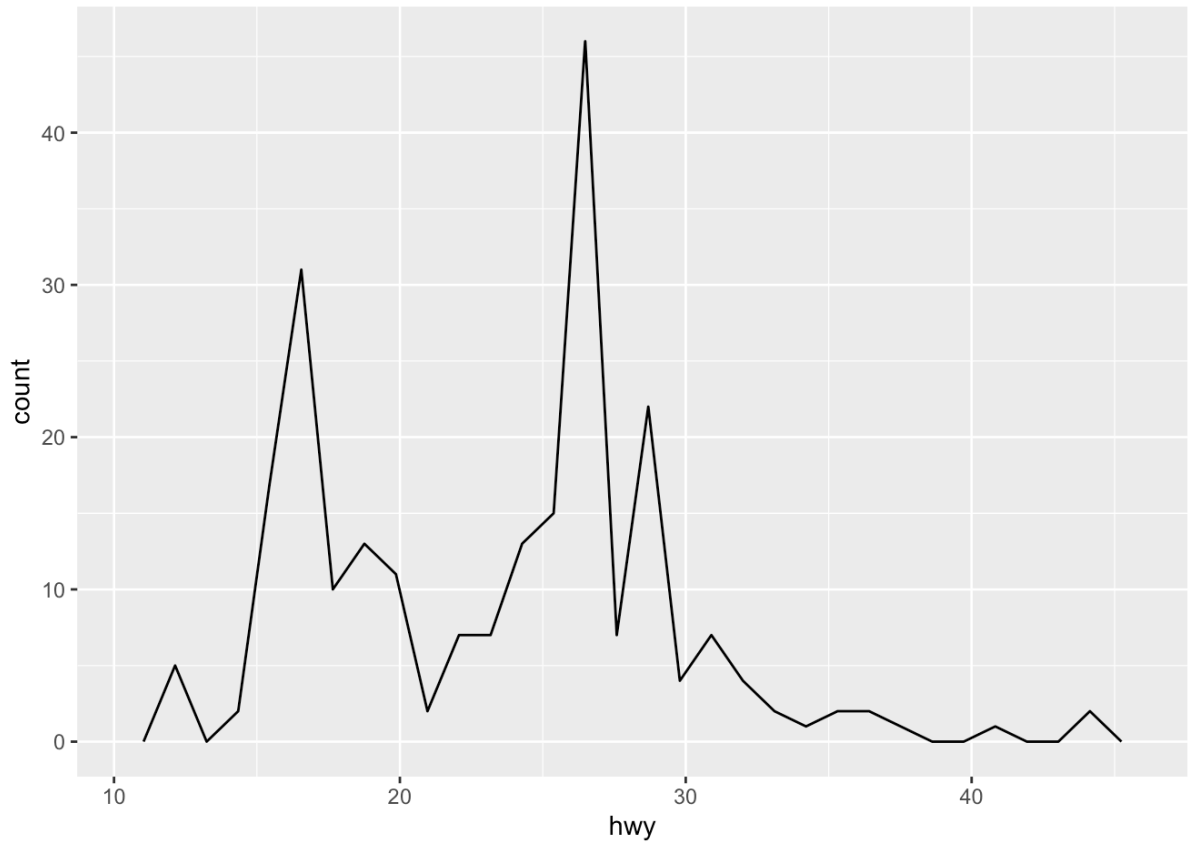
ggplot(mpg, aes(drv, hwy)) + geom_violin()



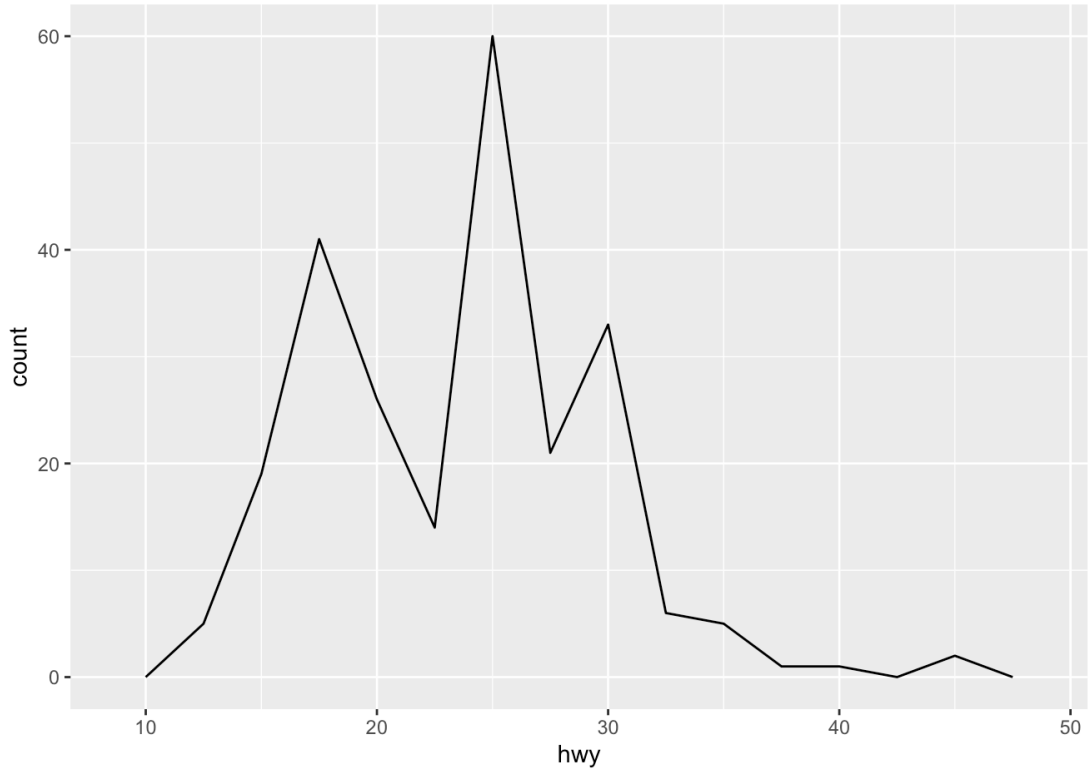
ggplot(mpg, aes(hwy)) + geom_histogram()



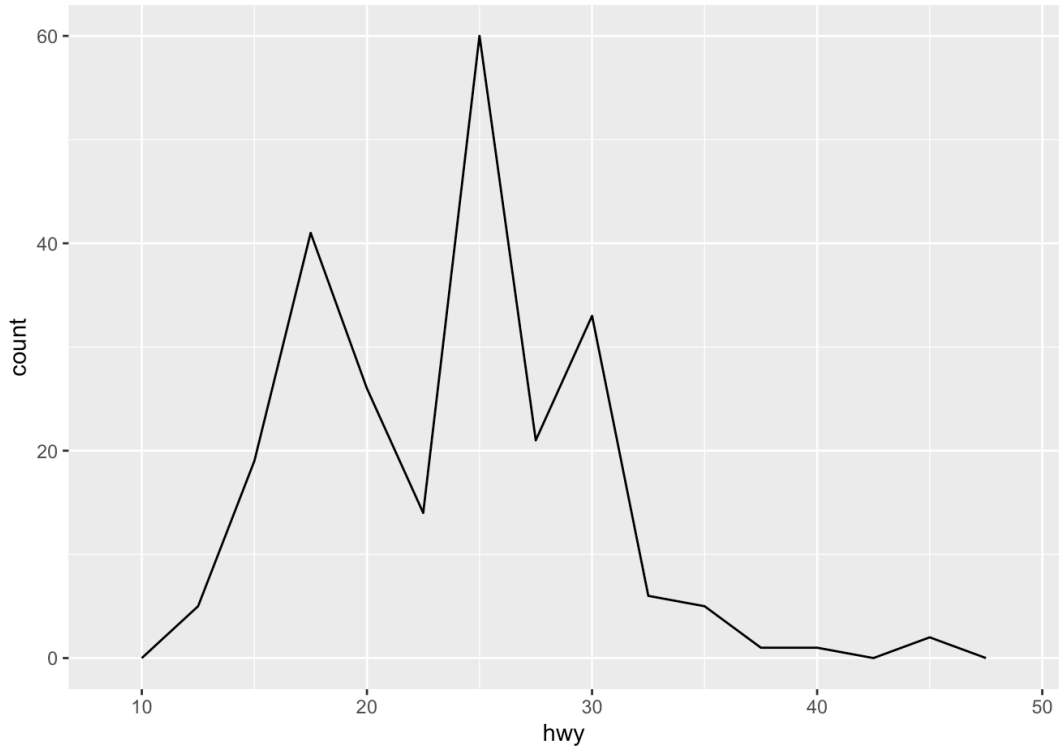
ggplot(mpg, aes(hwy)) + geom_freqpoly()



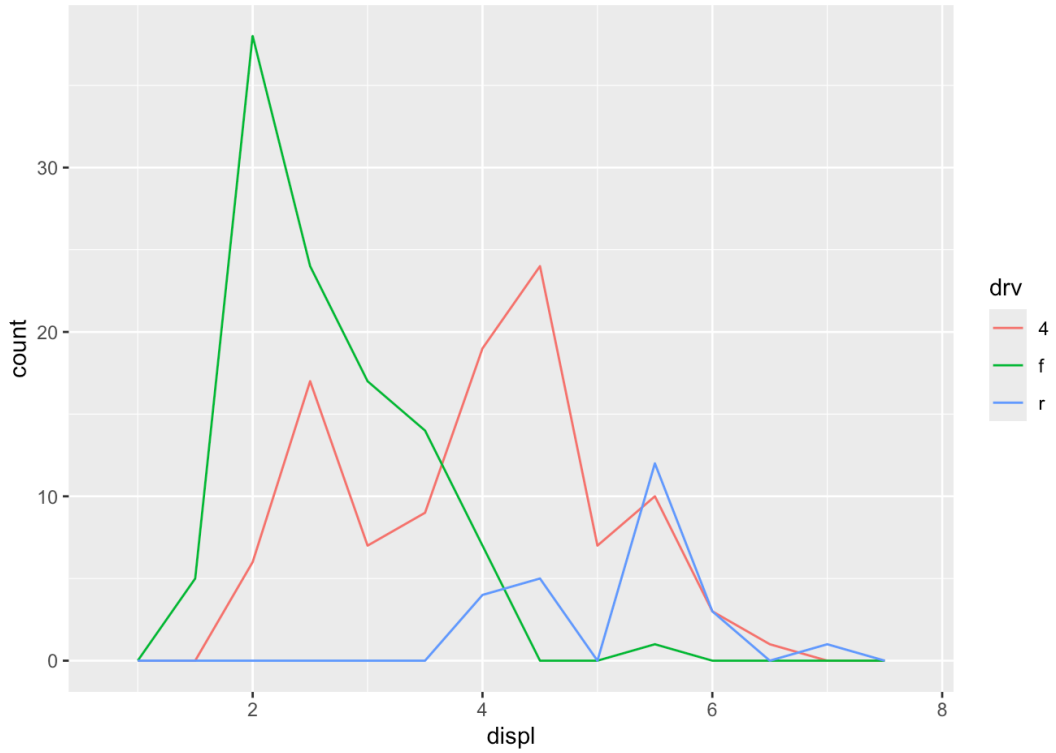
```
ggplot(mpg, aes(hwy)) +
  geom_freqpoly(binwidth = 2.5)
```



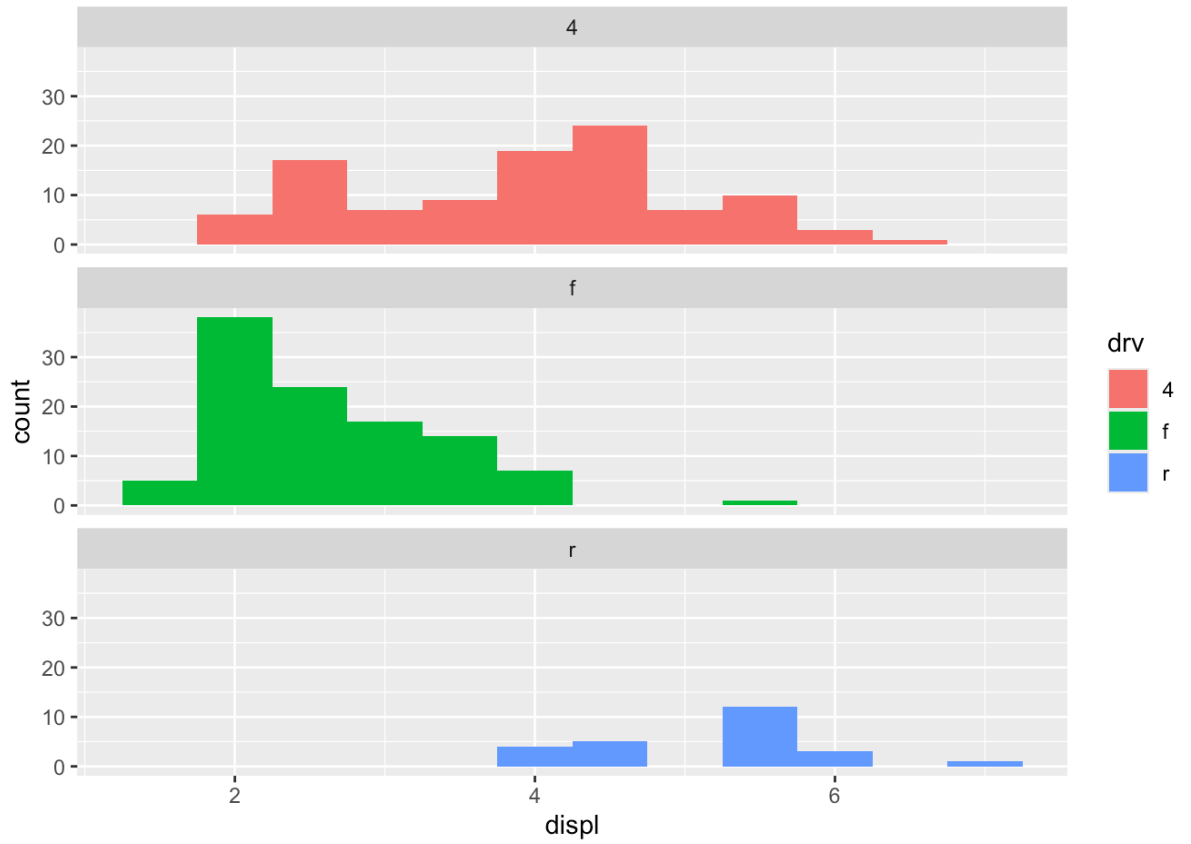

```
ggplot(mpg, aes(hwy)) +
  geom_freqpoly(binwidth = 1)
```



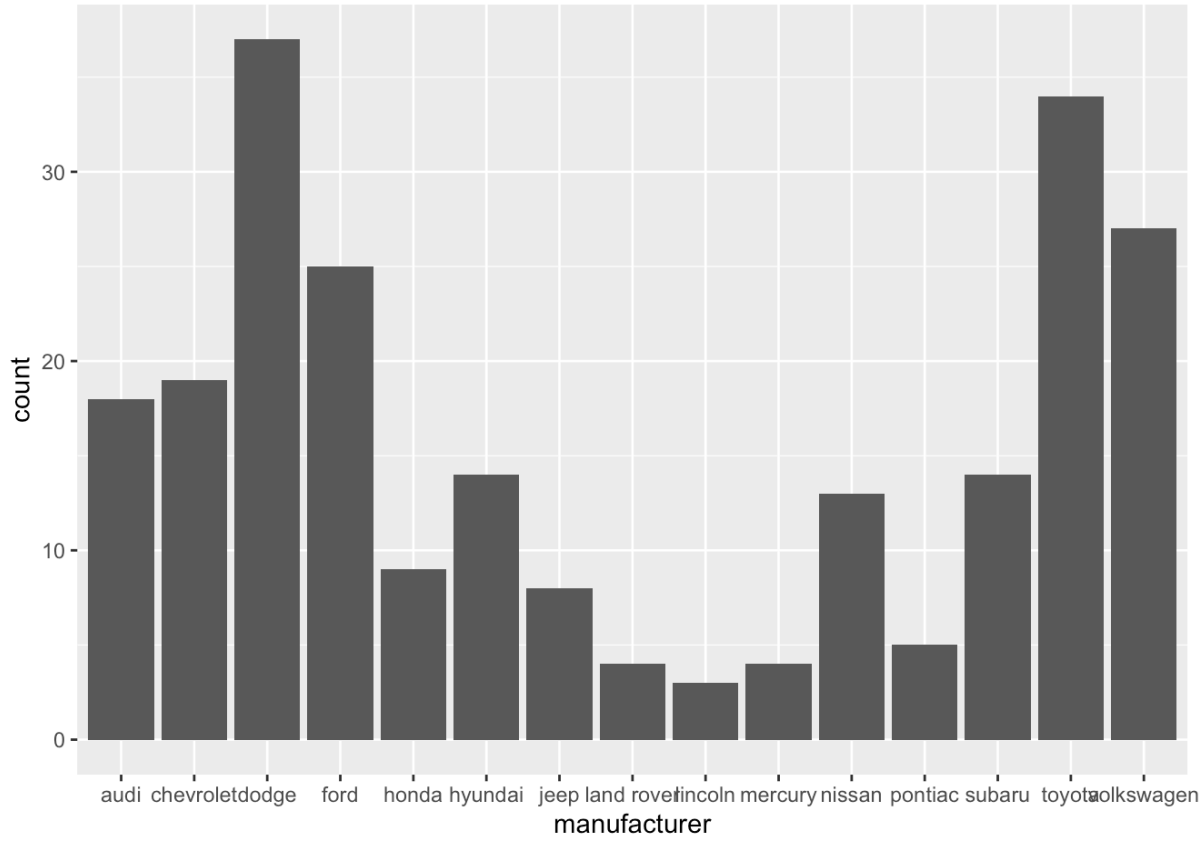
```
ggplot(mpg, aes(displ, colour = drv)) +
  geom_freqpoly(binwidth = 0.5)
```



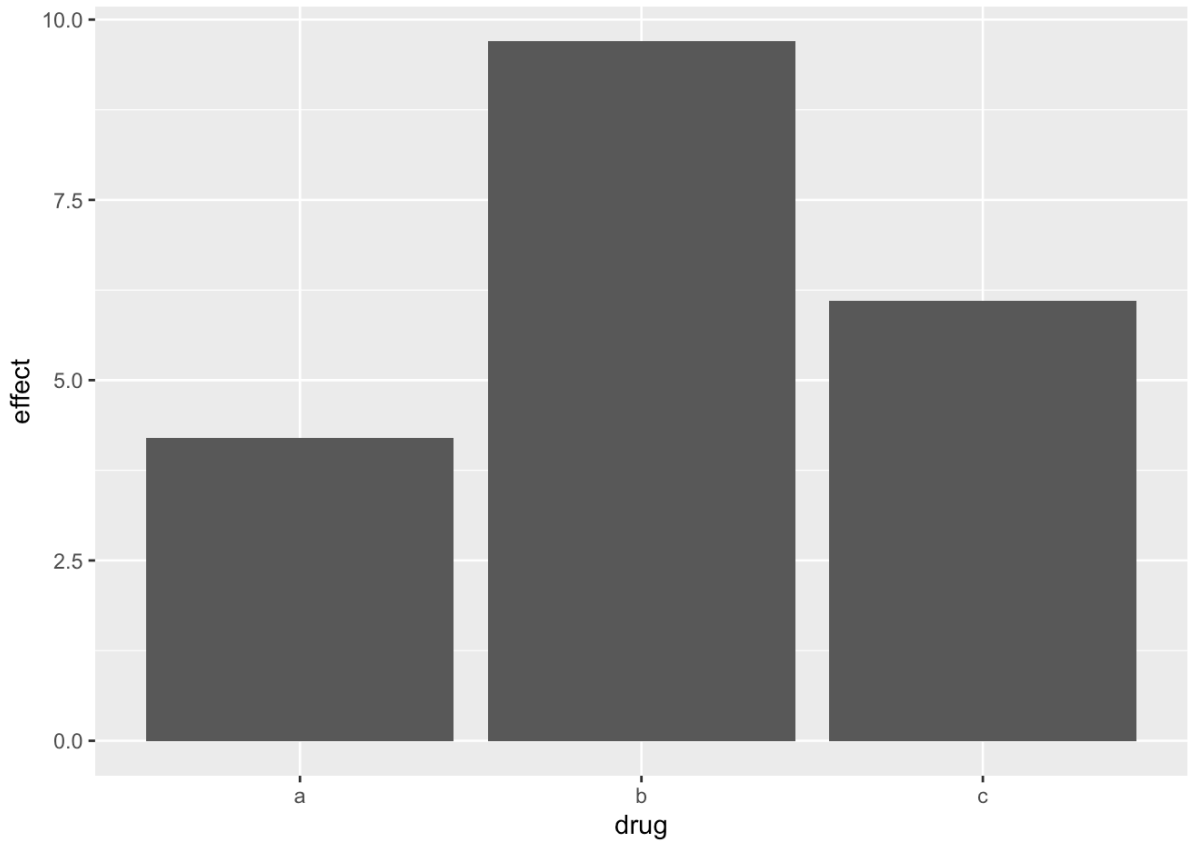

```
ggplot(mpg, aes(displ, fill = drv)) +
  geom_histogram(binwidth = 0.5) +
  facet_wrap(~drv, ncol = 1)
```



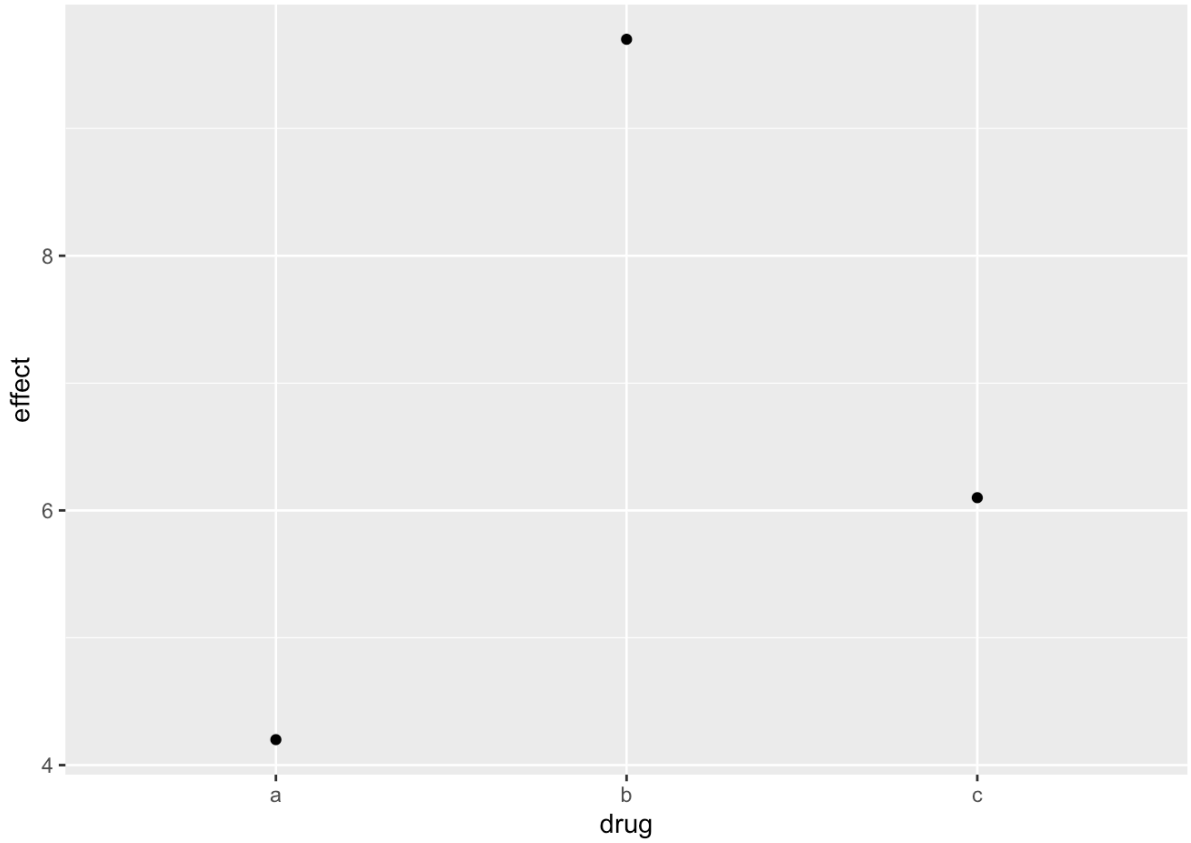

```
ggplot(mpg, aes(manufacturer)) +
  geom_bar()
```



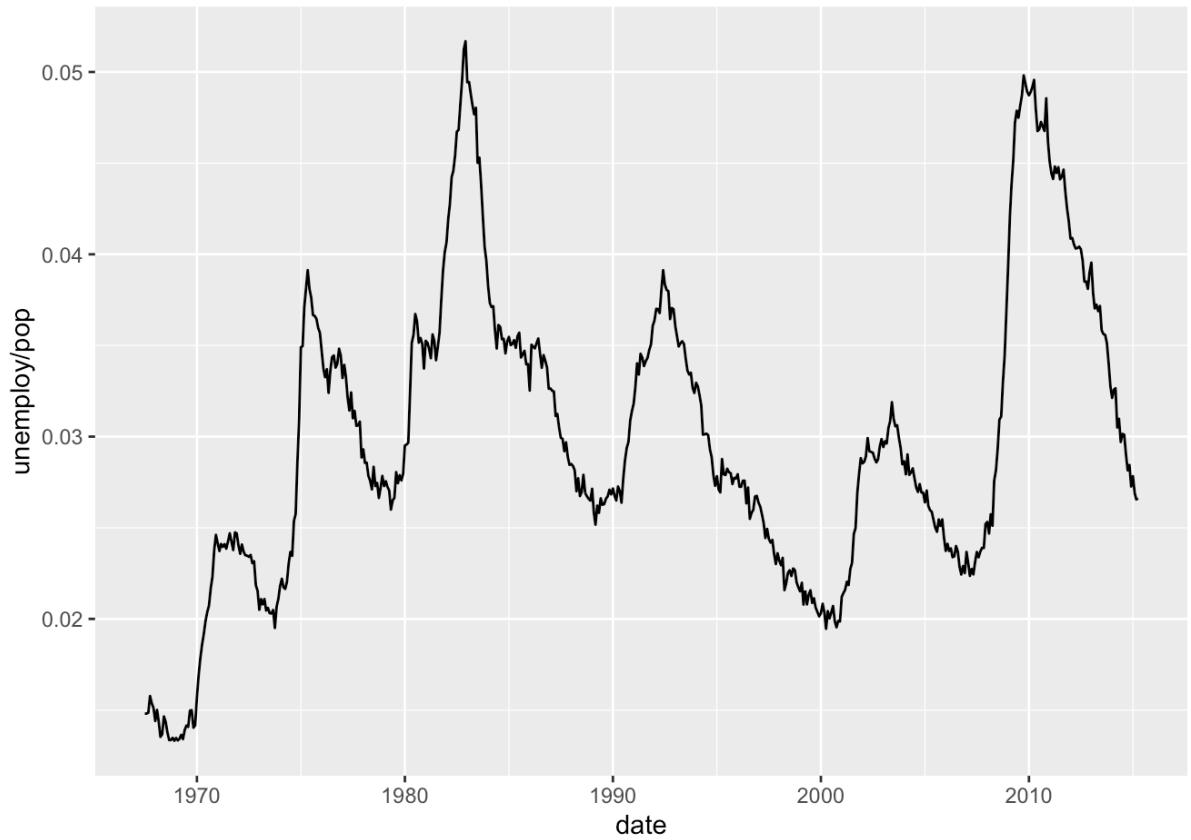

```
ggplot(drugs, aes(drug, effect)) + geom_bar(stat = "identity")
```



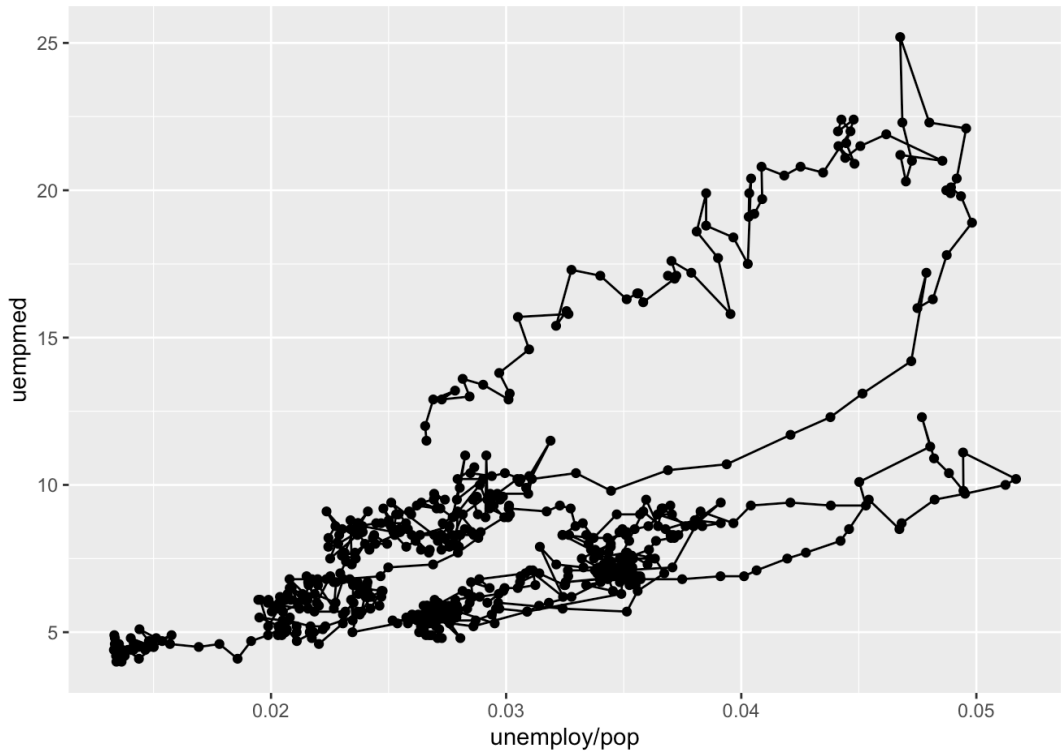

```
ggplot(drugs, aes(drug, effect)) + geom_point()
```




```
ggplot(economics, aes(date, unemploy / pop)) +
  geom_line()
```

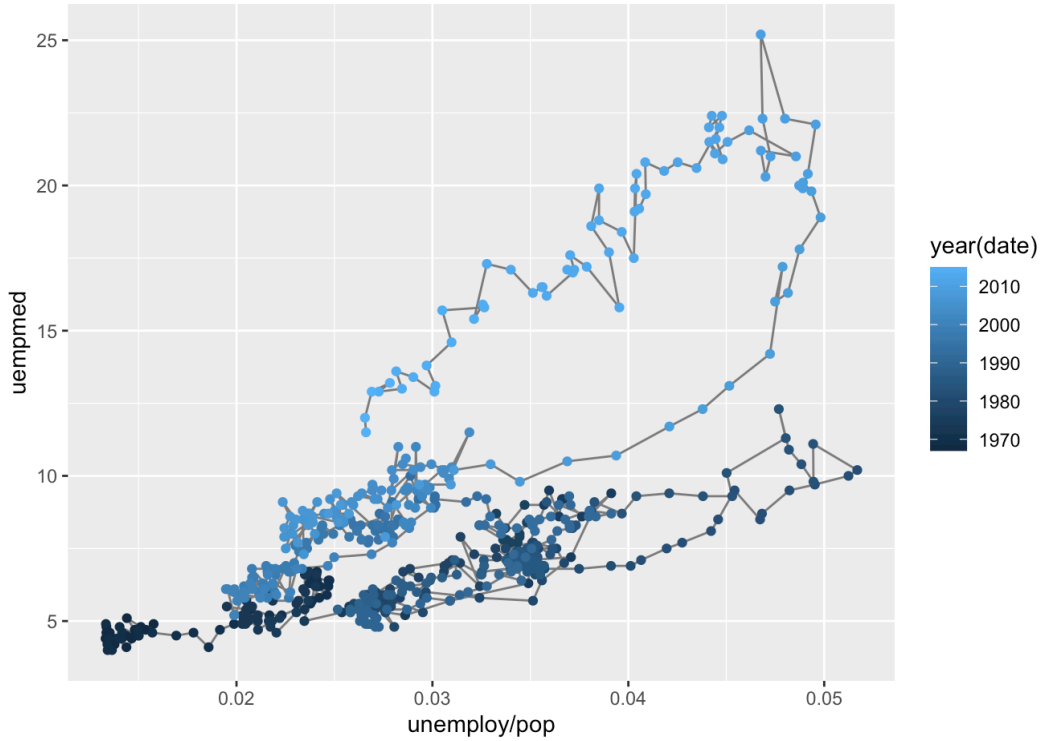



```
ggplot(economics, aes(unemploy / pop, uempmed)) +
  geom_path() +
  geom_point()
```

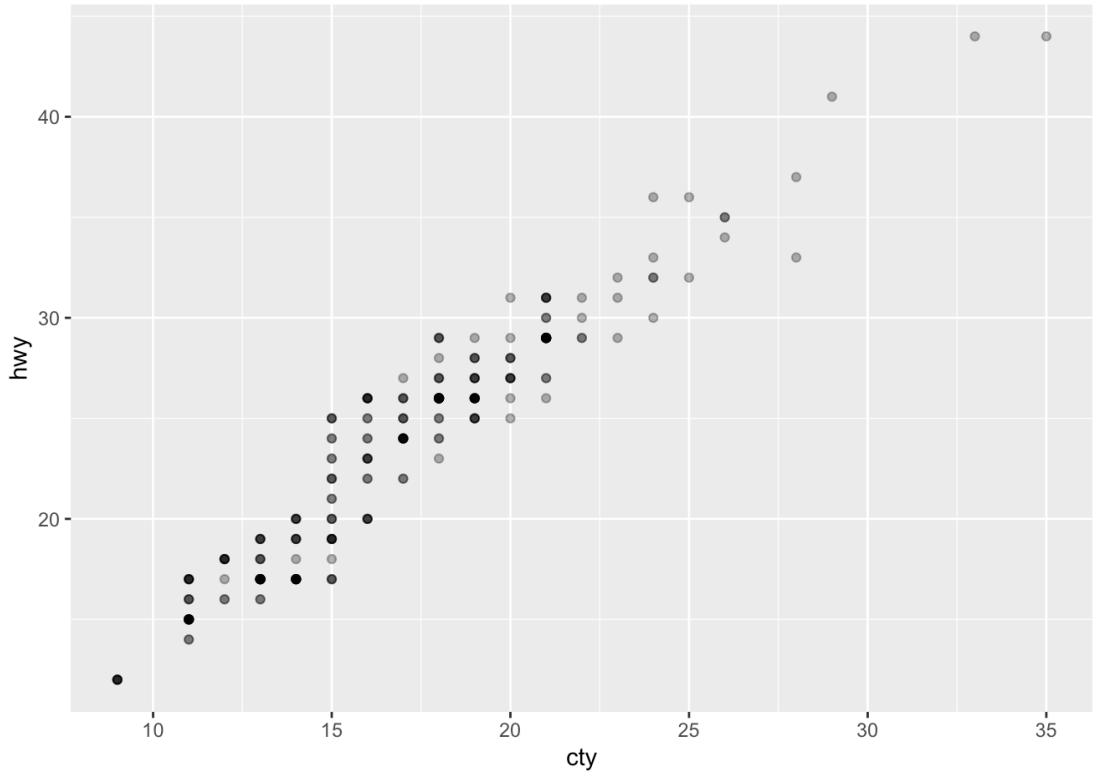



```
year <- function(x) as.POSIXlt(x)$year + 1900
ggplot(economics, aes(unemploy / pop, uempmed)) +
```

```
  geom_path(colour = "grey50") +
  geom_point(aes(colour = year(date)))
```

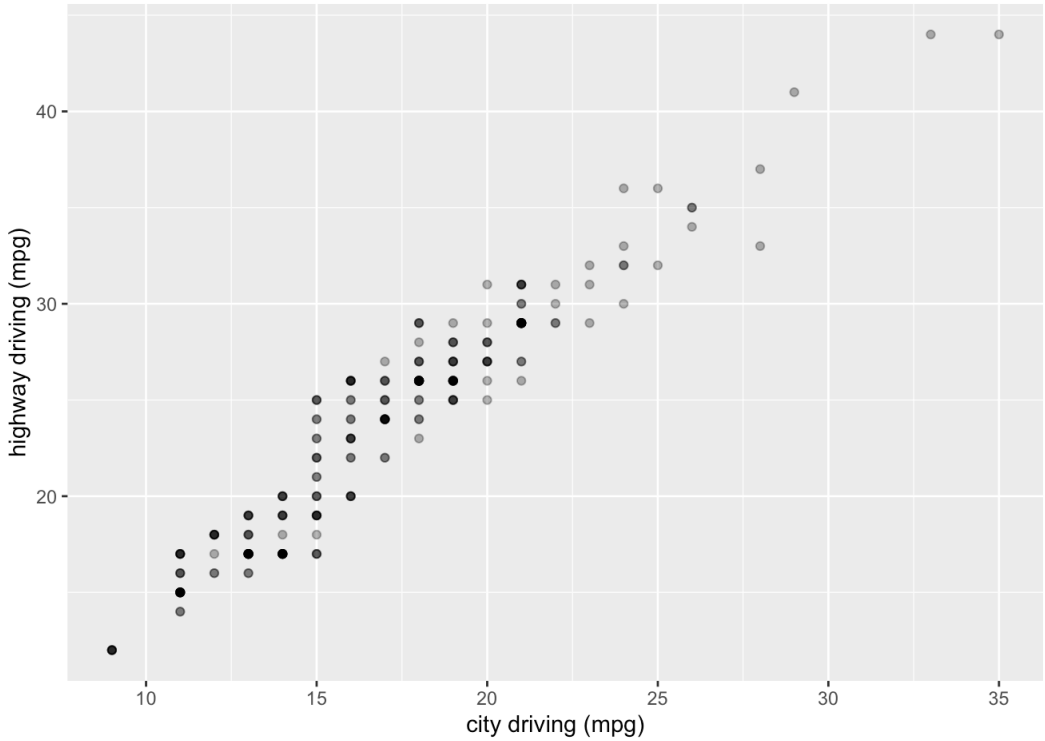



```
ggplot(mpg, aes(cty, hwy)) +
  geom_point(alpha = 1 / 3)
```

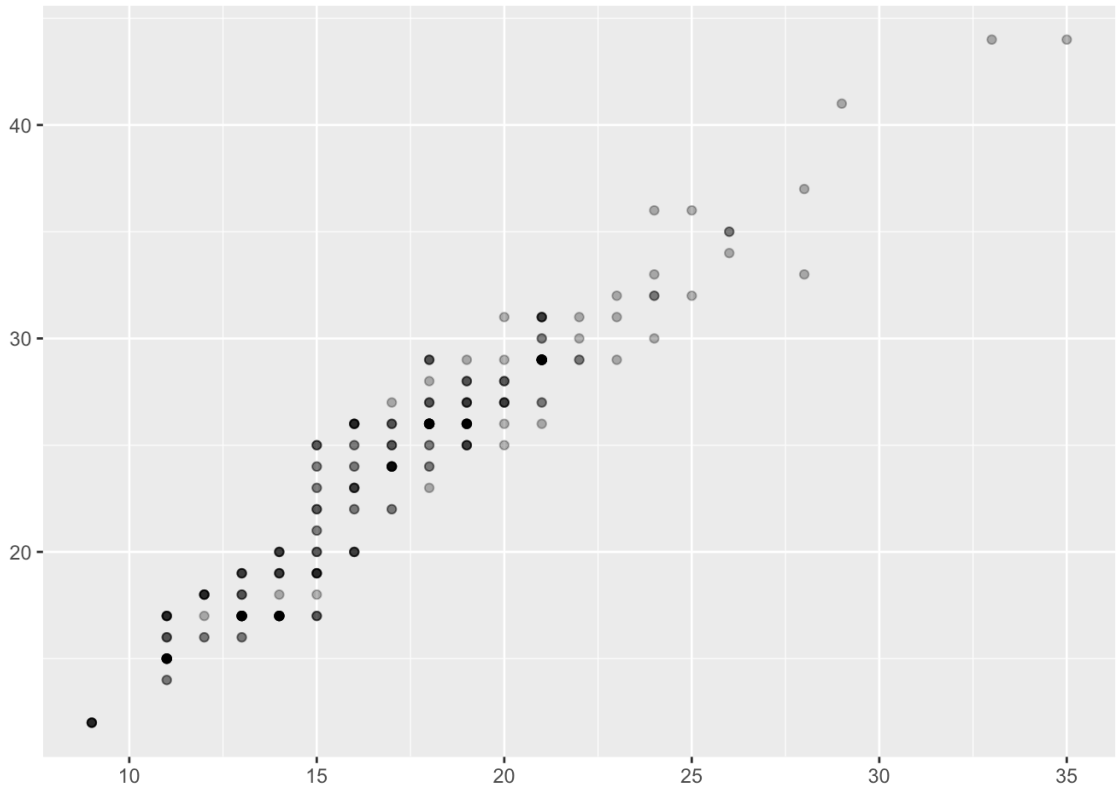



```
ggplot(mpg, aes(cty, hwy)) +
  geom_point(alpha = 1 / 3) +
```

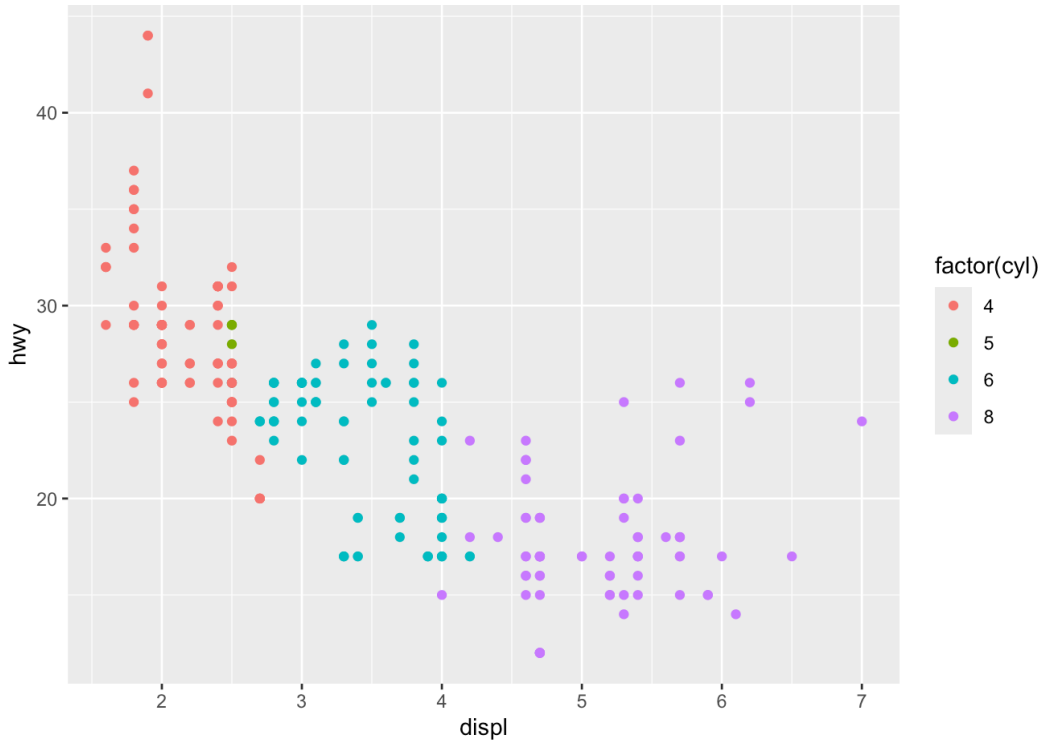
```
  xlab("city driving (mpg)") +
  ylab("highway driving (mpg)")
```




```
ggplot(mpg, aes(cty, hwy)) +
  geom_point(alpha = 1 / 3) +
  xlab(NULL) +
  ylab(NULL)
```




```
p <- ggplot(mpg, aes(displ, hwy, colour = factor(cyl))) +
  geom_point()
print(p)
```




```
gg <- ggplot(midwest, aes(x = area, y = poptotal)) +
  geom_point(aes(col = state, size = popdensity)) +
  geom_smooth(method = "loess", se = F) +
```

```
  xlim(c(0, 0.1)) +
  ylim(c(0, 500000)) +
  ylab("Population") +
  xlab("Area")
plot(gg)
```