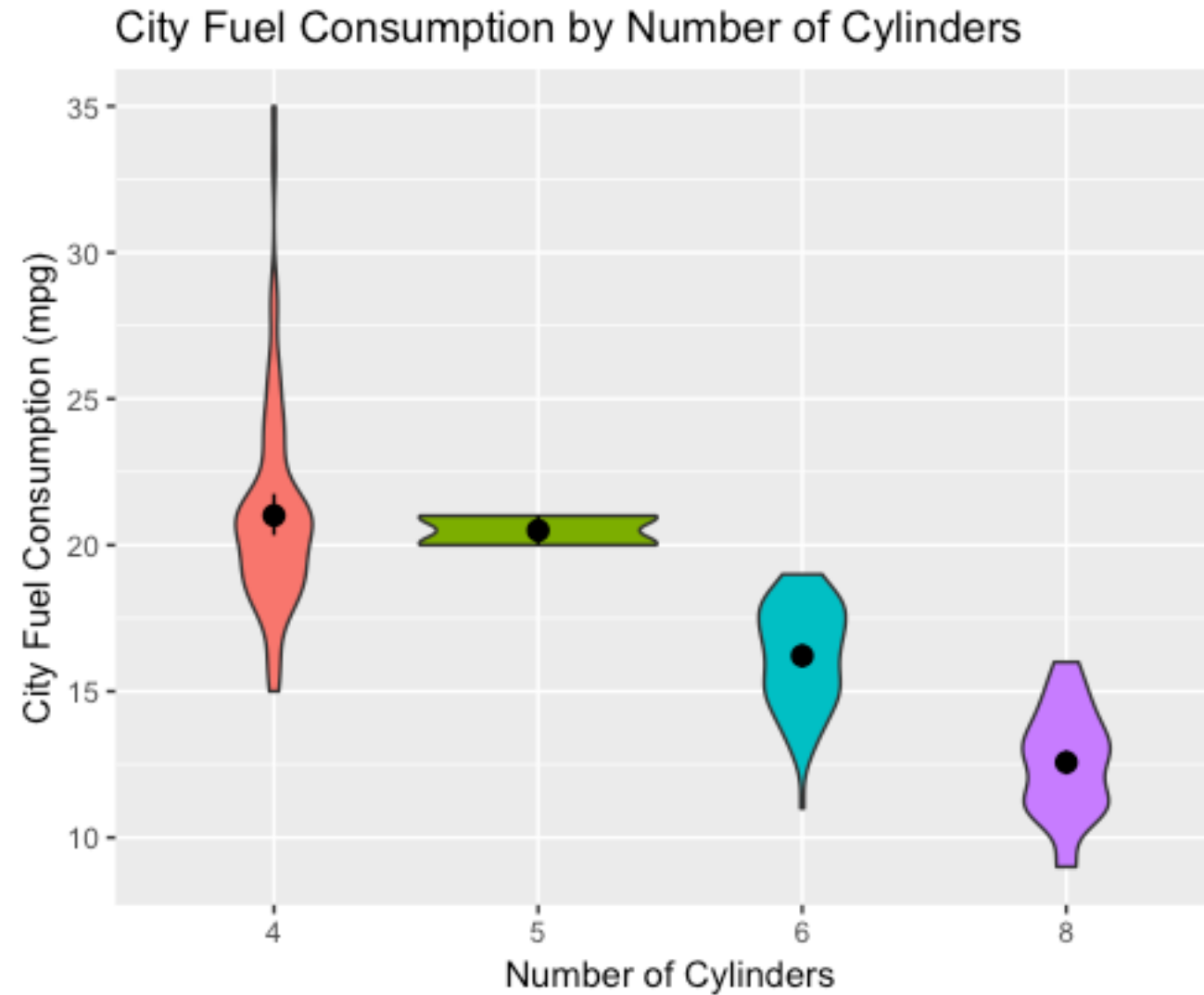


Let's look at a whole bunch of different visualisations using the mpg data set...

This illustrates the idea that there is not one 'correct' way to visualise the data, but rather that your choice of visualisation will be influenced by the question you're investigating, or the story you're wanting to tell...



```
#build a violin plot with added descriptives
ggplot(mpg, aes(x = factor (cyl), y = cty, fill = factor (cyl))) + geom_violin() +
  guides(colour = FALSE, fill = FALSE) +
  stat_summary (fun.data = mean_cl_boot, colour = "black", size = .5) +
  xlab("Number of Cylinders") + ylab("City Fuel Consumption (mpg)") +
  ggtitle ("City Fuel Consumption by Number of Cylinders")
```