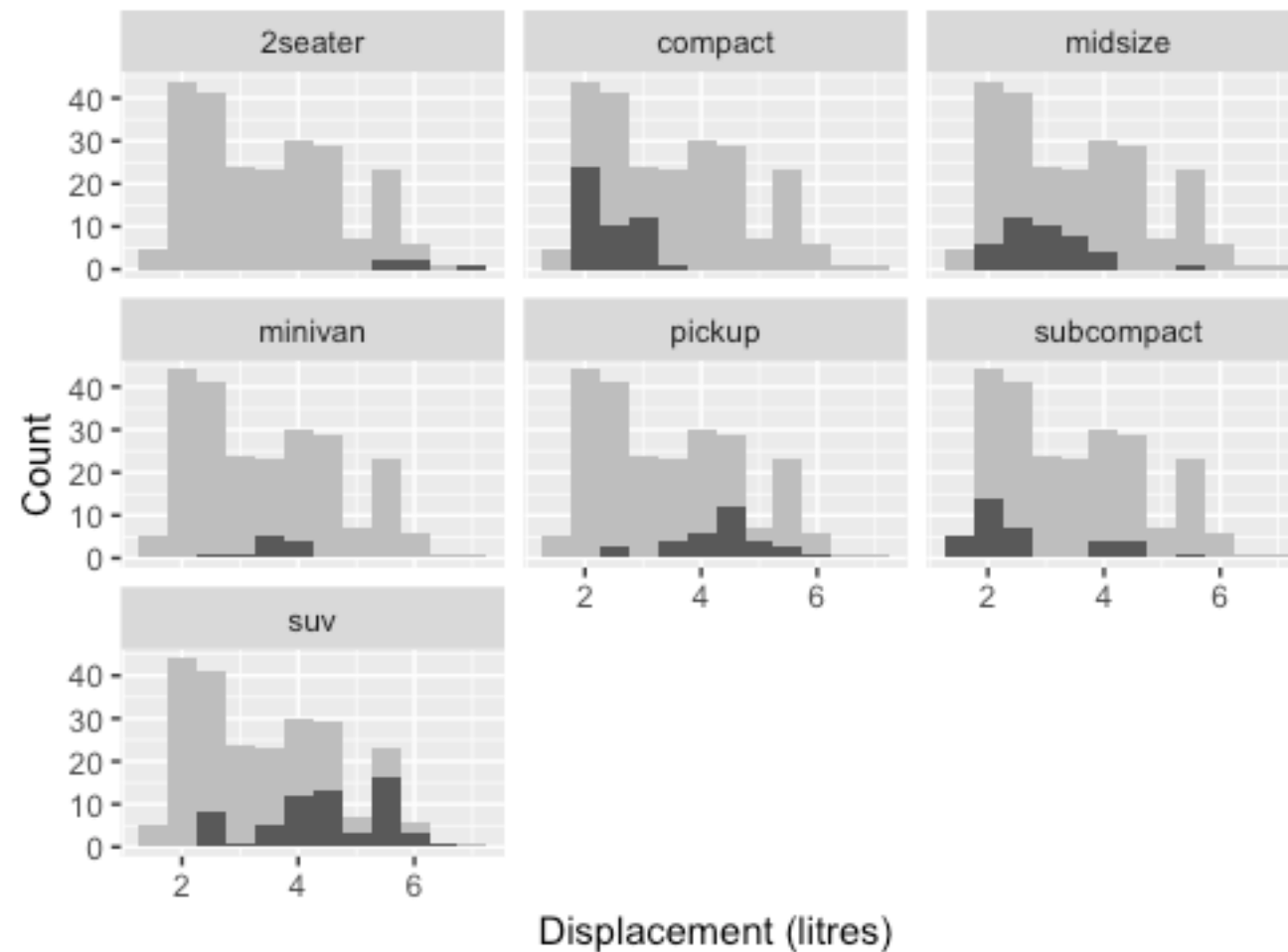## Histogram of Cylinder Displacement


```
#plot basic histogram
ggplot(mpg, aes(displ)) +
  geom_histogram(binwidth = .5) +
  guides(colour = FALSE) +
  xlab("Displacement (litres)") + ylab("Count") +
  ggtitle ("Histogram of Cylinder Displacement")
```

Histogram of Cylinder Displacement for Each Vehicle Class

```
#facet by class and include background histogram of all data in each facet
mpg1 <- select (mpg, -class)
ggplot(mpg, aes(displ)) +
  geom_histogram(data = mpg1, fill = "grey", binwidth = .5) +
  geom_histogram(binwidth = .5) +
  guides(colour = FALSE) + facet_wrap (~class)  +
  xlab("Displacement (litres)") + ylab("Count") +
  ggtitle ("Histogram of Cylinder Displacement for Each \nVehicle Class")
```