Things that might be useful for Assignment 1

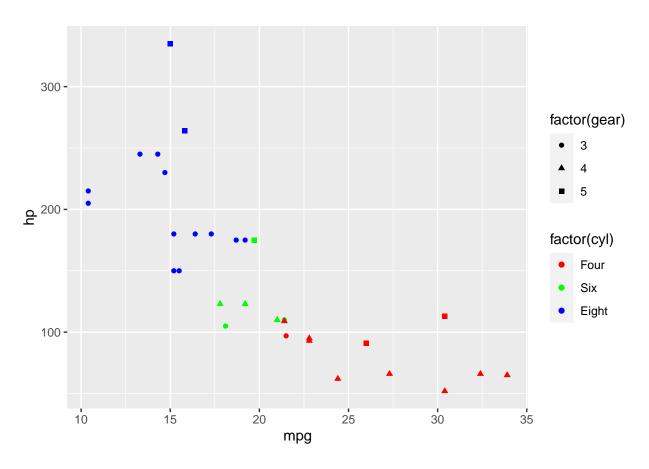
Daniel Simpson

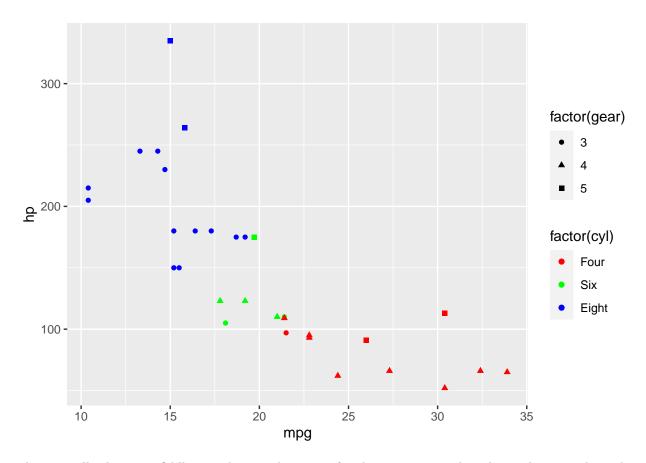
27/10/2020

Colours and labels!

One of the things that you will need to do to plot your pattern is automatically change the colours of the plot and to set the labels appropriately.

As with all things ggplot2, ways to do this can be found with enough time on Google. But for reference, here are some commands that might help.





There is still a lot more fiddling to do to make it nice for the assignement, but this is the main thing that you may not have seen.

Getting a colour strip

I had foolishly assumed that 'scales::show_col" returned a ggplot object. It does not!

So here is a way to do it. There are probably much more elegeant ways to make make it work. If you look at the vignette for plot_grid, which can be found on the cowgrid webpage you will see how to combine multiple strips.

You might have to fiddle a bit with the text size to make it work.

Update: I did it two ways. The second way is probably better, but I'll keep the first one for completeness (and because who doesn't love weird R code solutions).

```
library(dplyr)
library(cowplot)
square <- function(x, label_size) {
    ggplot() +
        coord_fixed(xlim=c(0,1), ylim = c(0,1)) + theme_void() +
        theme(plot.background = element_rect(fill = x)) +
        geom_text(aes(0.5,0.5),label = x , size = label_size)
}
t <- tibble(colours = viridis::magma(2),</pre>
```

```
squares = purrr::map(colours, ~ square(.x, 24/length(colours))))
plot_grid(plotlist = t$squares)
```

