

How to use Quarto

Bibi Powers-McCormack

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Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

Running Code

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

```
1 + 1
```

```
[1] 2
```

You can add options to executable code like this

```
[1] 4
```

The `echo: false` option disables the printing of code (only output is displayed).

```
ggplot(mpg, aes(x = hwy, y = cty, color = cyl)) +
  geom_point(alpha = 0.5, size = 2) +
  scale_color_viridis_c() +
  theme_minimal()
```

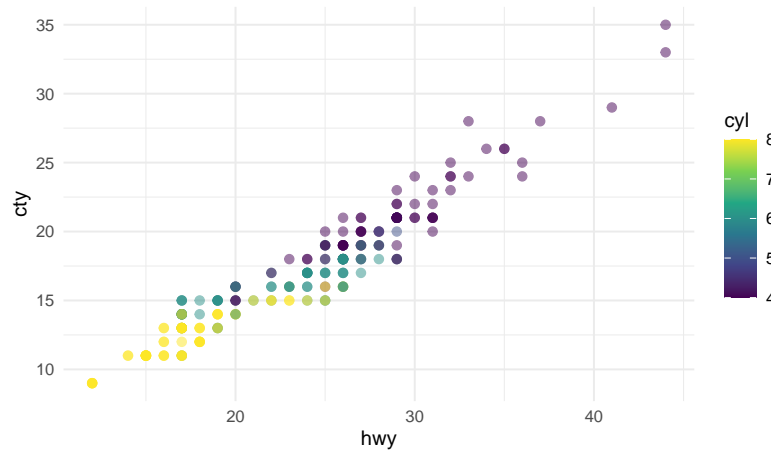


Figure 1: City and highway mileage for 38 popular models of cars.

Figure 1 shows a positive, strong, and linear relationship between the city and highway mileage of these cars. Figure 2 shows a positive, strong, and linear relationship between the city and highway mileage of these cars.

```
ggplot(mpg, aes(x = hwy, y = cty, color = cyl)) +
  geom_point(alpha = 0.5, size = 2) +
  scale_color_viridis_c() +
  theme_minimal()
```

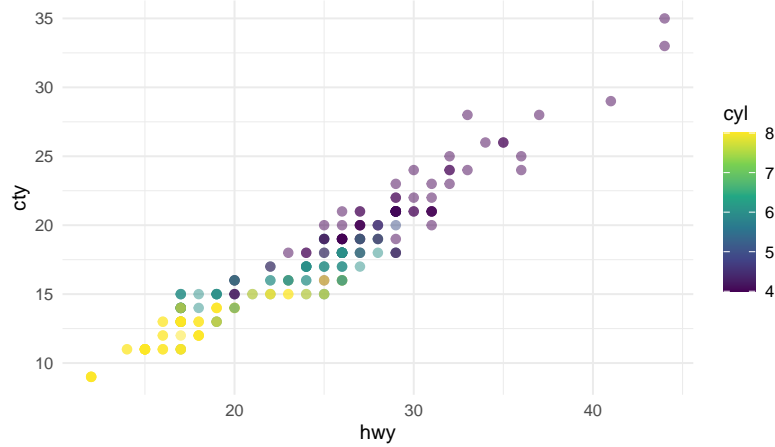
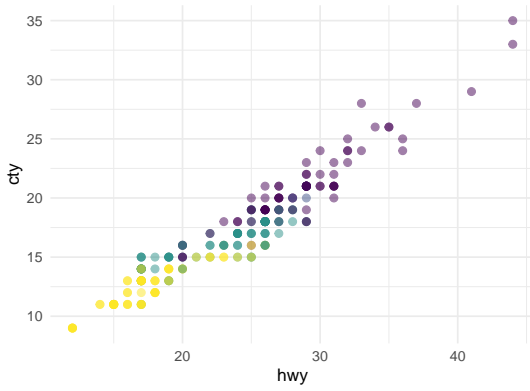


Figure 2: City and highway mileage for 38 popular models of cars.

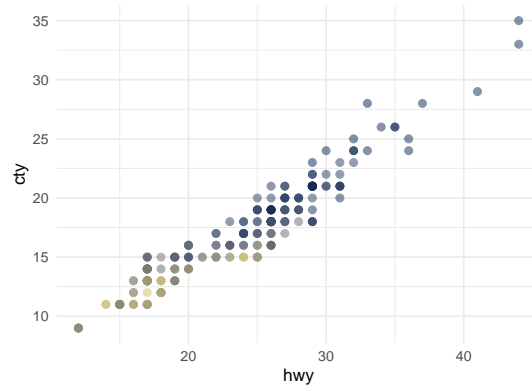
```
ggplot(mpg, aes(x = hwy, y = cty, color = cyl)) +
  geom_point(alpha = 0.5, size = 2) +
  scale_color_viridis_c() +
  theme_minimal()

ggplot(mpg, aes(x = hwy, y = cty, color = displ)) +
  geom_point(alpha = 0.5, size = 2) +
  scale_color_viridis_c(option = "E") +
  theme_minimal()
```

The plots in Figure 3 show the relationship between city and highway mileage for 38 popular models of cars. In Figure 3a the points are colored by the number of cylinders while in Figure 3b the points are colored by engine displacement.



(a) Color by number of cylinders



(b) Color by engine displacement, in liters

Figure 3: City and highway mileage for 38 popular models of cars.