

# Quarto Computations

This dataset contains a subset of the fuel economy data from the EPA. Specifically, we use the `mpg` dataset from the `ggplot2` package.

```
library(ggplot2)
```

Here is the cars data:


```
mpg
```

Table 1: `?(caption)`

```
# A tibble: 234 x 11
```

	manufacturer	model	displ	year	cyl	trans	drv	cty	hwy	fl	class
	<chr>	<chr>	<dbl>	<int>	<int>	<chr>	<chr>	<int>	<int>	<chr>	<chr>
1	audi	a4	1.8	1999	4	auto~	f	18	29	p	comp~
2	audi	a4	1.8	1999	4	manu~	f	21	29	p	comp~
3	audi	a4	2	2008	4	manu~	f	20	31	p	comp~
4	audi	a4	2	2008	4	auto~	f	21	30	p	comp~
5	audi	a4	2.8	1999	6	auto~	f	16	26	p	comp~
6	audi	a4	2.8	1999	6	manu~	f	18	26	p	comp~
7	audi	a4	3.1	2008	6	auto~	f	18	27	p	comp~
8	audi	a4 quattro	1.8	1999	4	manu~	4	18	26	p	comp~
9	audi	a4 quattro	1.8	1999	4	auto~	4	16	25	p	comp~
10	audi	a4 quattro	2	2008	4	manu~	4	20	28	p	comp~

```
# ... with 224 more rows
```

 Note

There are some graphs coming.

```
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()
```

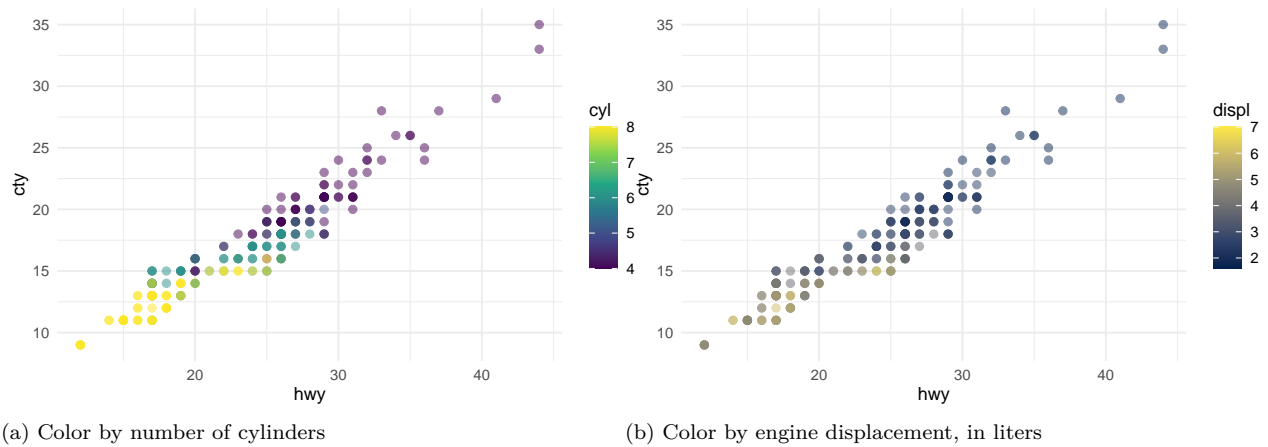


Figure 1: City and highway mileage for 38 popular models of cars.

The plots in Figure 1 show the relationship between city and highway mileage for 38 popular models of cars. The original dataset is shown in `?@tbl-mpg`. In Figure 1a the points are coloured by the number of cylinders while in Figure 1b the points are coloured by engine displacement.