

R for Data Science

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distance.

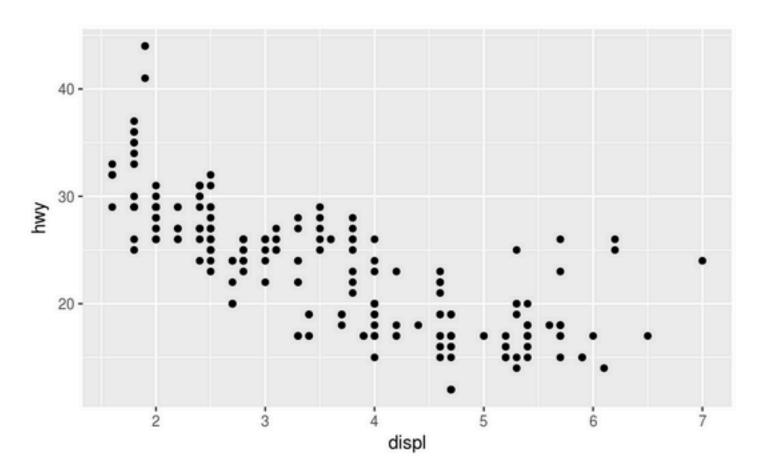
To learn more about mpg, open its help page by running?mpg.

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3.2.2 Creating a ggplot

To plot mpg, run this code to put displ on the x-axis and hwy on the y-axis:

```
ggplot(data = mpg) +
geom_point(mapping = aes(x = displ, y = hwy))
```



The plot shows a negative relationship between engine size (displ) and fuel efficiency (hwy). In other words, cars with big engines use more fuel. Does this confirm or refute your hypothesis about fuel efficiency and engine size?

With ggplot2, you begin a plot with the function ggplot(). ggplot() creates a coordinate system that you can add layers to. The first argument of ggplot() is the dataset to use in the graph. So ggplot(data = mpg) creates an empty graph, but it's not very interesting so I'm not going to show it here.



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