

R for Data Science Book Self Sstudy

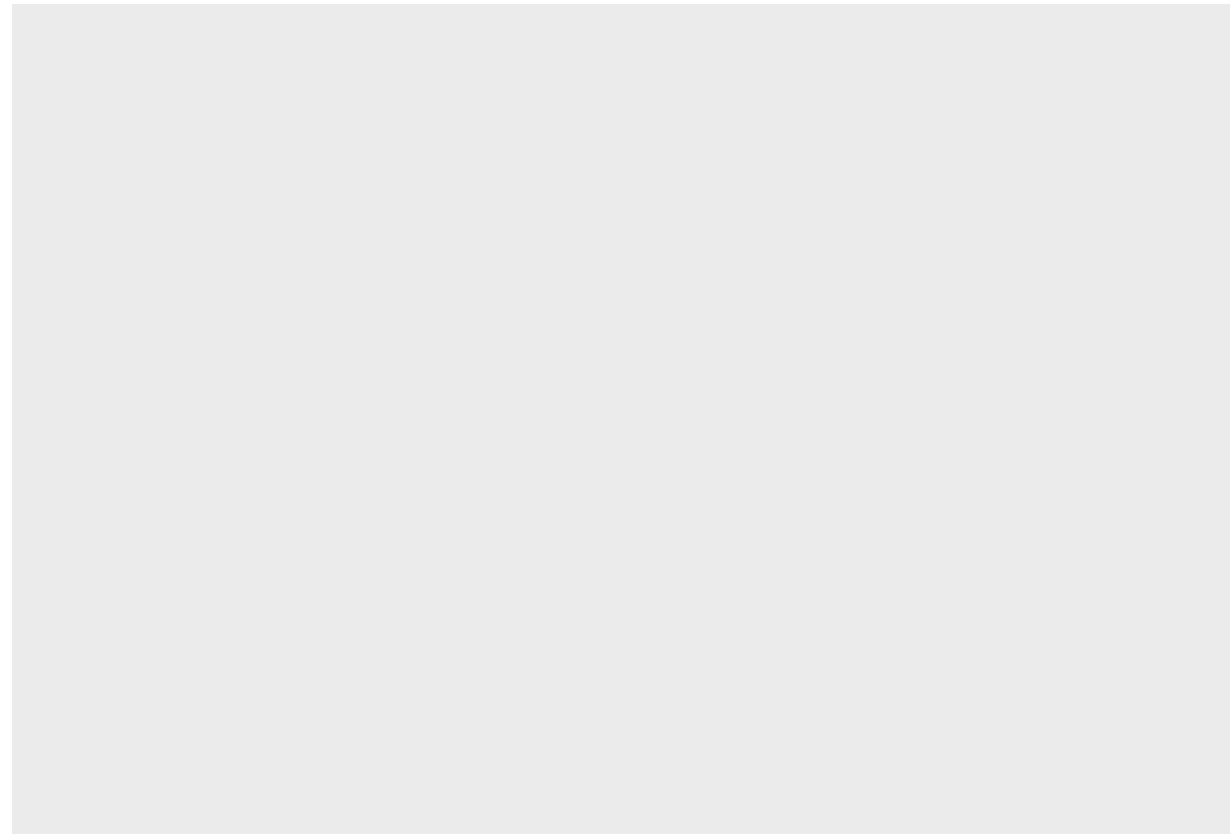
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Data Visualization

Here, I'm creating a plot with the data mpg. * x axis: displ * y axis: hwy With ggplot() function, you can add various layers to the basic plot using + sign. 1. ggplot(): the dataset to use in the graph. This generates an empty graph. So we need layers to specify the plot.

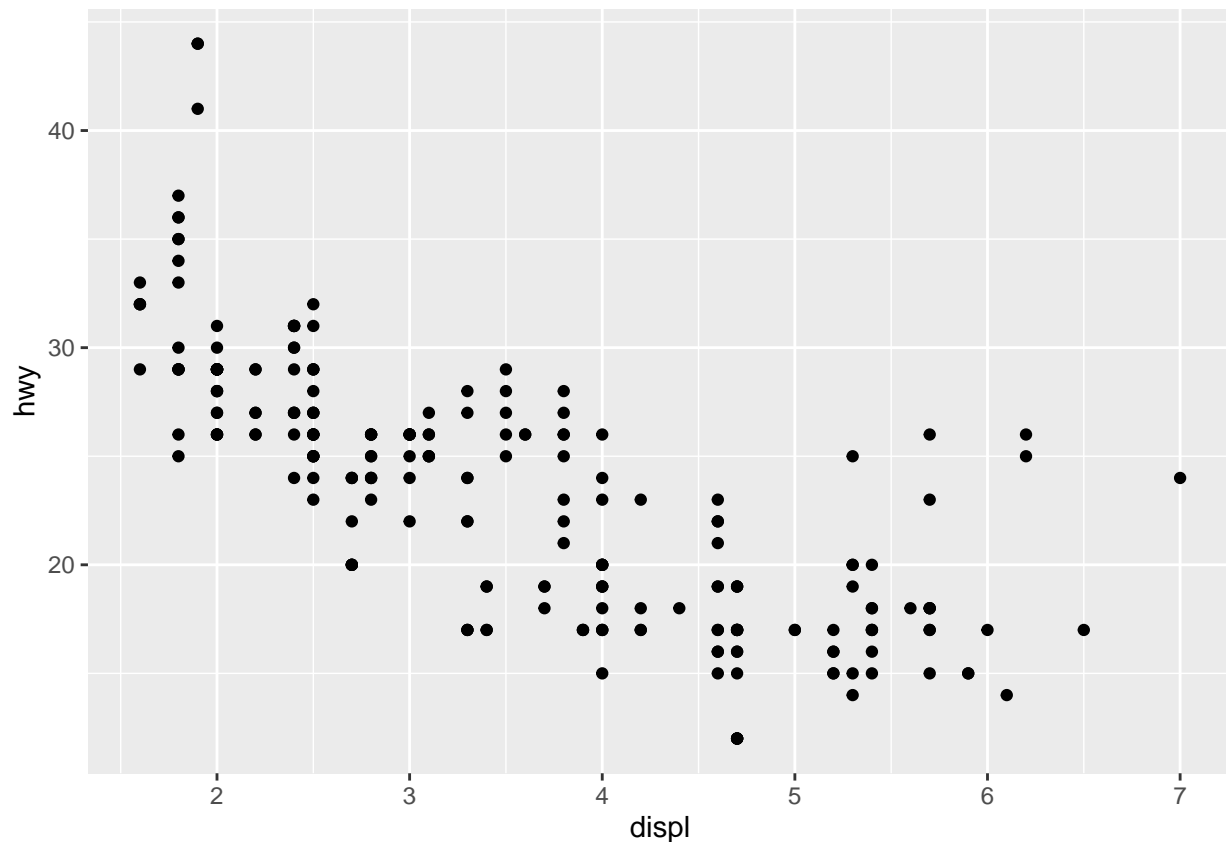
```
library(ggplot2)
ggplot(data = mpg)
```



```
# ggplot(mpg) means the same
```

2. So one or more layers are required to complete the plot. Layers that to be added will specify the graph.

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



Here, I specified the type of plot and the axes. The function `geom_point()` adds a layer of points to the empty plot created by `ggplot(mpg)`. The points added create a scatterplot. So, if you add a different layer instead of `geom_point`, you'll get a different type of plot. Every geom function requires a mapping argument. Simply speaking, this argument defines how the variables of your choice will be mapped in your graph. (x and y axis) The mapping() argument is always with `aes()` which specifies x and y axis respectively.