

Dot plots

D K

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```
library(tidyverse)

## -- Attaching packages -----
----- tidyverse 1.3.0 --

## v ggplot2 3.3.3      v purrr  0.3.4
## v tibble  3.0.3      v dplyr  1.0.2
## v tidyr   1.1.2      v stringr 1.4.0
## v readr   1.3.1      v forcats 0.5.0

## Warning: package 'ggplot2' was built under R version 4.0.5

## -- Conflicts -----
----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()

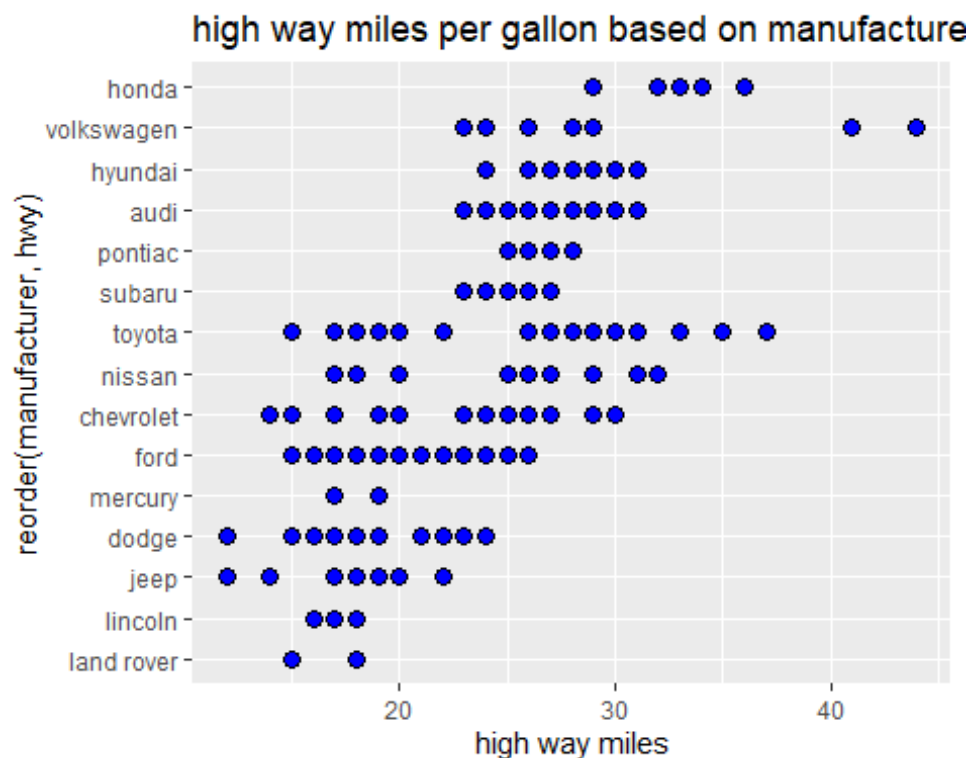
# Read the mpg dataset
# mpg - Fuel economy data from 1999 to 2008 for 38 popular models of cars
data(mpg)

# Summary statistics of mpg dataset
summary(mpg)
```

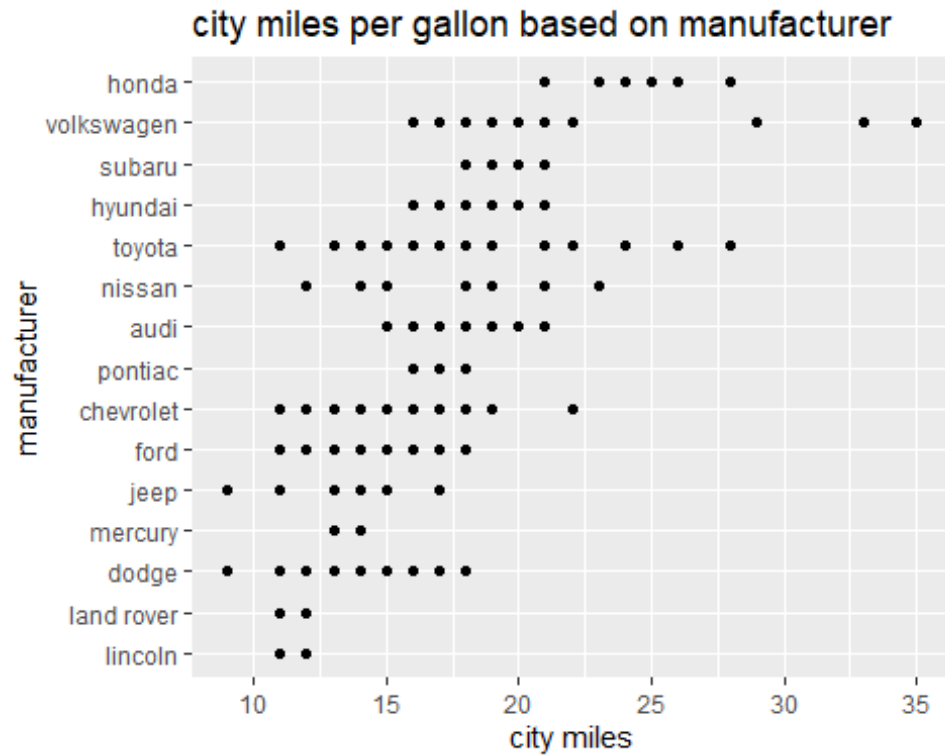
##	manufacturer	model	displ	year
##	Length:234	Length:234	Min. :1.600	Min. :1999
##	Class :character	Class :character	1st Qu.:2.400	1st Qu.:1999
##	Mode :character	Mode :character	Median :3.300	Median :2004
##			Mean :3.472	Mean :2004
##			3rd Qu.:4.600	3rd Qu.:2008
##			Max. :7.000	Max. :2008
##	cyl	trans	drv	cty
##	Min. :4.000	Length:234	Length:234	Min. : 9.00
##	1st Qu.:4.000	Class :character	Class :character	1st Qu.:14.00
##	Median :6.000	Mode :character	Mode :character	Median :17.00
##	Mean :5.889			Mean :16.86
##	3rd Qu.:8.000			3rd Qu.:19.00
##	Max. :8.000			Max. :35.00
##	hwy	fl	class	
##	Min. :12.00	Length:234	Length:234	
##	1st Qu.:18.00	Class :character	Class :character	
##	Median :24.00	Mode :character	Mode :character	
##	Mean :23.44			

```
## 3rd Qu.:27.00
## Max.    :44.00

# high way miles per gallon based on manufacturer
ggplot(mpg, aes(x = hwy, y = reorder(manufacturer,hwy) )) +
  geom_point(shape = 21,
             fill = "blue",
             color = "black",
             size = 3) +
  labs(x = "high way miles",
       title = "high way miles per gallon based on manufacturer")
```



```
# city miles per gallon based on manufacturer
ggplot(mpg, aes(x = cty, y = reorder(manufacturer,cty) )) +
  geom_point( ) +
  labs(x = "city miles", y = "manufacturer",
       title = "city miles per gallon based on manufacturer")
```



```
# high way miles per gallon based on manufacturer and class- type of car
ggplot(mpg, aes(x = hwy, y = reorder(manufacturer,hwy) , color = class)) +
  geom_point( ) +
  labs(x = "high way miles per gallon", y ="manufacturer",
       title = "high way miles per gallon based on manufacturer and class-
type of car")
```

high way miles per gallon based on manufacture

