

sample book

me



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1

About this R

```
library('tidyverse')
```

```
-- Attaching core tidyverse packages -----
tidyverse 2.0.0 --
v dplyr      1.1.2      v readr      2.1.4
v forcats    1.0.0      v stringr    1.5.0
v ggplot2    3.4.2      v tibble     3.2.1
v lubridate  1.9.2      v tidyr      1.3.0
v purrr      1.0.1
-- Conflicts -----
tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()     masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to
force all conflicts to become errors
```

```
paste("RStudio version", "2023.03.0+386")
```

```
[1] "RStudio version 2023.03.0+386"
```

```
paste("quarto version", paste(quarto::quarto_version(),
  ↪ sep='. '))
```

```
[1] "quarto version 1.4.11"
```

```
tibble::enframe(Sys.info()) %>%
  filter(name %in%
    ↪ c('sysname', 'release', 'version', 'machine')) %>%
```

```
knitr::kable()
```

name	value
sysname	Windows
release	10 x64
version	build 22621
machine	x86-64

```
tibble::as_tibble(R.Version()) %>%
  tidyr::pivot_longer(everything()) %>%
  knitr::kable()
```

name	value
platform	x86_64-w64-mingw32
arch	x86_64
os	mingw32
crt	ucrt
system	x86_64, mingw32
status	
major	4
minor	3.0
year	2023
month	04
day	21
svn rev	84292
language	R
version.string	R version 4.3.0 (2023-04-21 ucrt)
nickname	Already Tomorrow

2

One



3

Two



4

Three



5

Four



6

Five



7

Six



8

Seven



9

Eight



10

Nine



11

Ten

```
library(ggplot2)

ggplot(mtcars, aes(x = wt, y = mpg)) +
  geom_point()
```

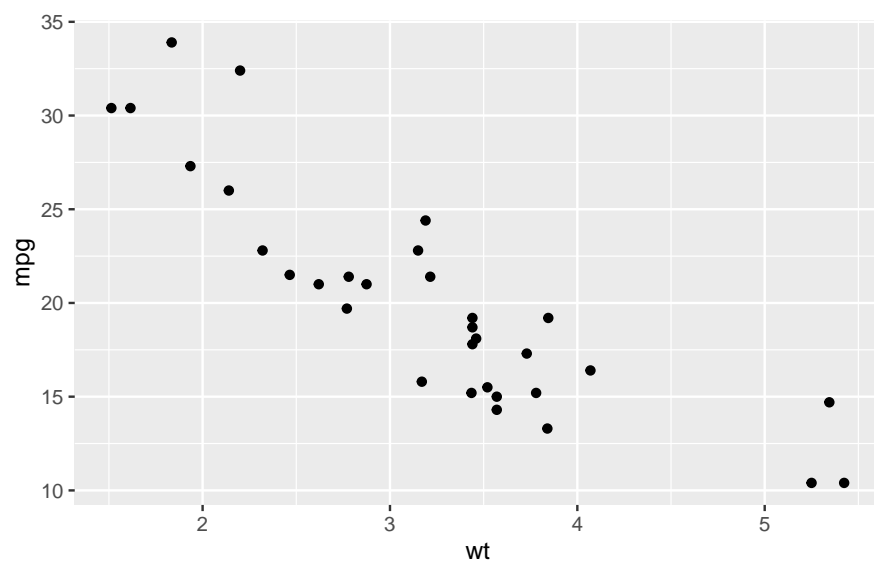


Figure 11.1: Sample 1

```
ggplot(mtcars, aes(x = wt, y = mpg)) +
  geom_point()
```



Figure 11.2: Sample 2

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.3: Sample 3


```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.4: Sample 4

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.5: Sample 5

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.6: Sample 6

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.7: Sample 7

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.8: Sample 8

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.9: Sample 9

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.10: Sample 10

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.11: Sample 11

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.12: Sample 12

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```

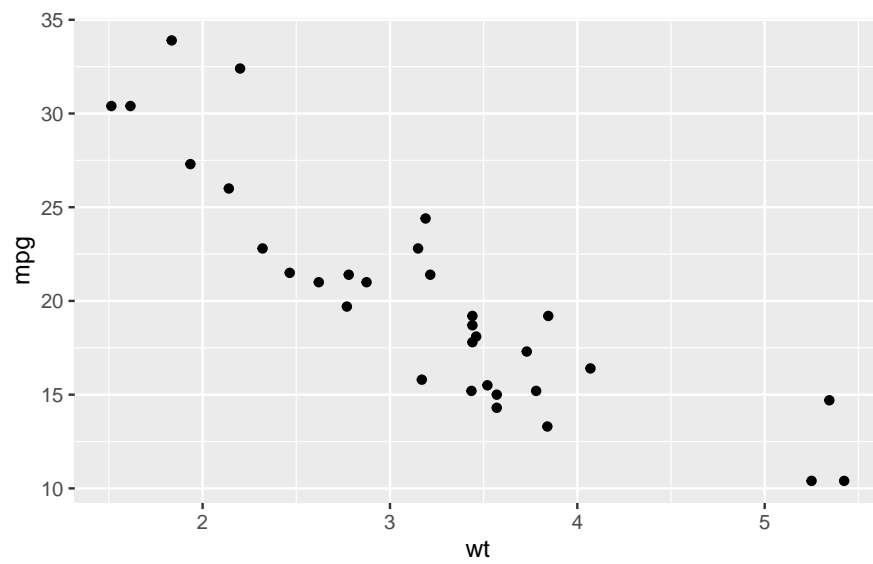


Figure 11.13: Sample 13

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.14: Sample 14

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.15: Sample 15


```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```

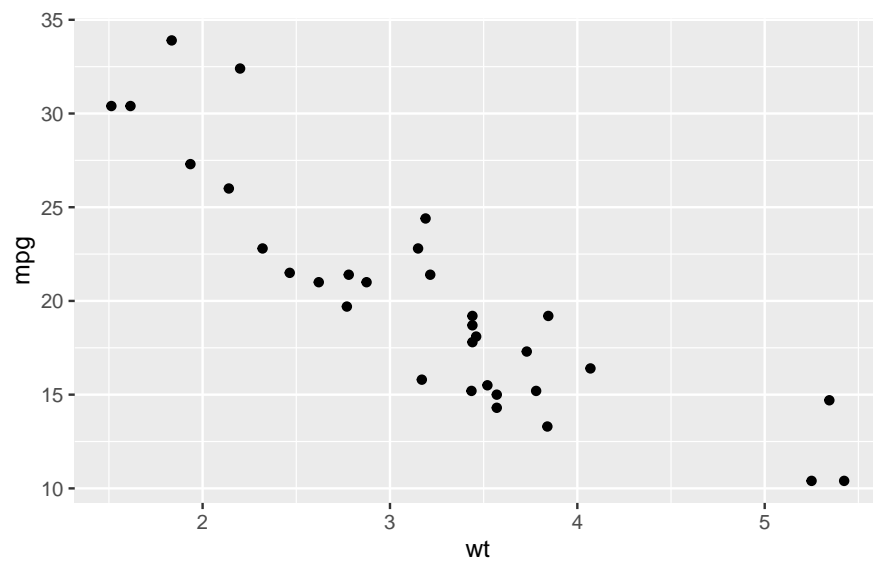


Figure 11.16: Sample 16

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.17: Sample 17

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.18: Sample 18

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```

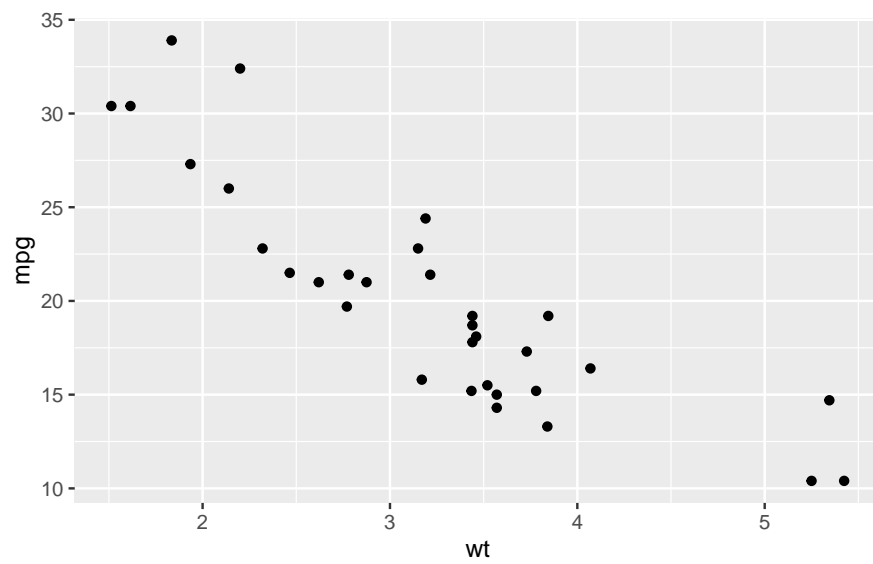


Figure 11.19: Sample 19

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.20: Sample 20

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.21: Sample 21

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.22: Sample 22

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.23: Sample 23

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.24: Sample 24

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```

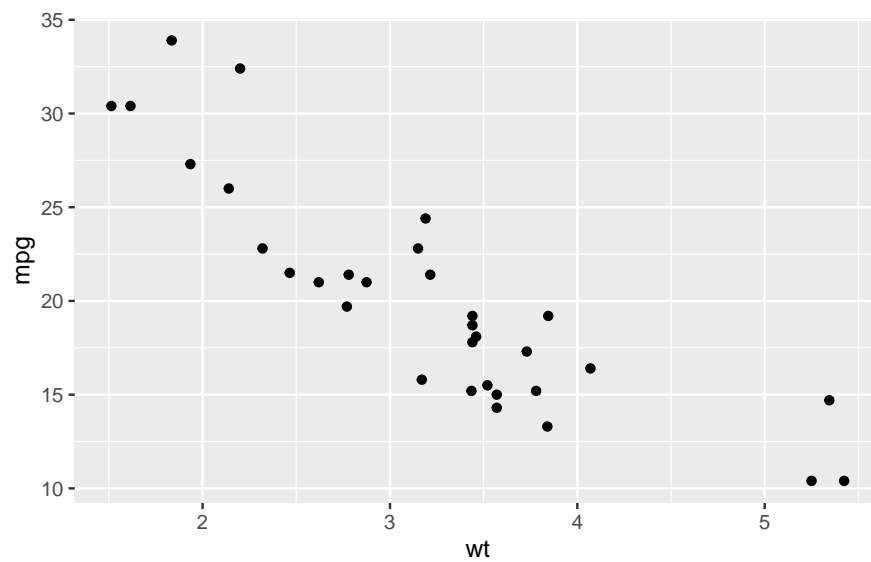


Figure 11.25: Sample 25

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.26: Sample 26

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.27: Sample 27


```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.28: Sample 28

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.29: Sample 29

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.30: Sample 30

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.31: Sample 31

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.32: Sample 32

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.33: Sample 33

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.34: Sample 34

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.35: Sample 35

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.36: Sample 36

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.37: Sample 37

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.38: Sample 38

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.39: Sample 39


```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```

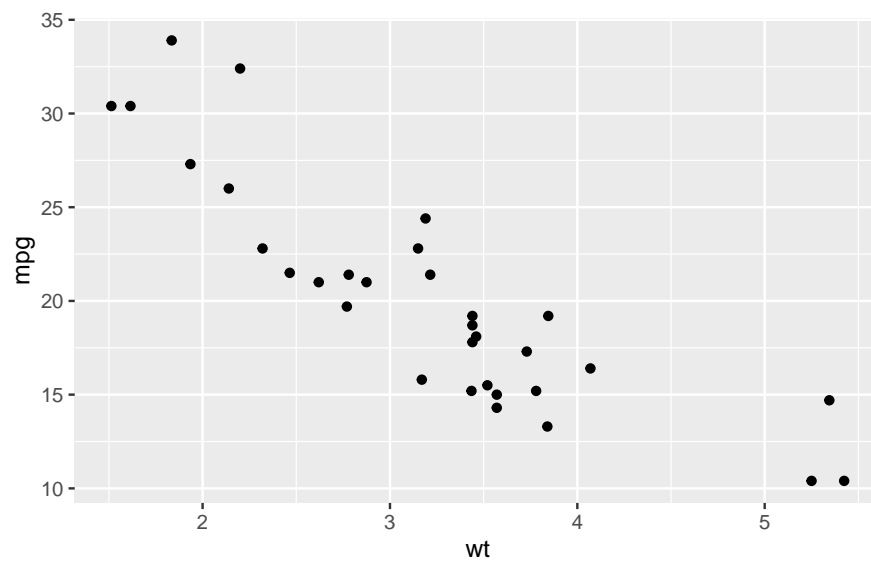


Figure 11.40: Sample 40

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.41: Sample 41

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.42: Sample 42

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```

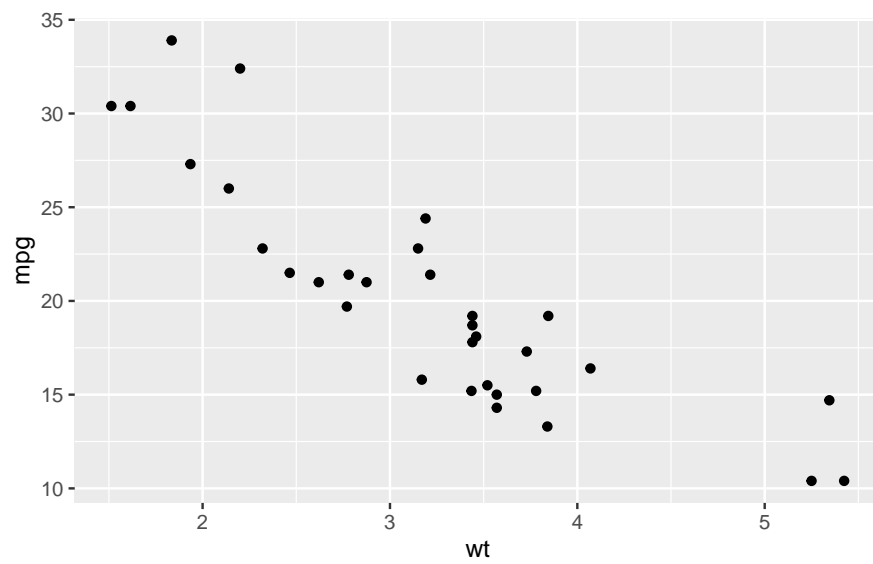


Figure 11.43: Sample 43

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.44: Sample 44

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.45: Sample 45

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```

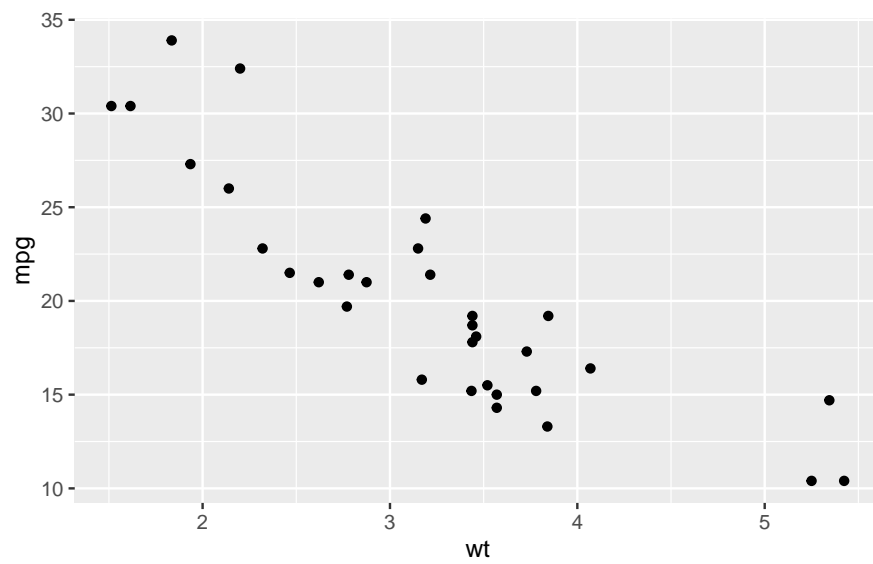


Figure 11.46: Sample 46

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.47: Sample 47

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.48: Sample 48

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.49: Sample 49

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.50: Sample 50

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.51: Sample 51


```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```

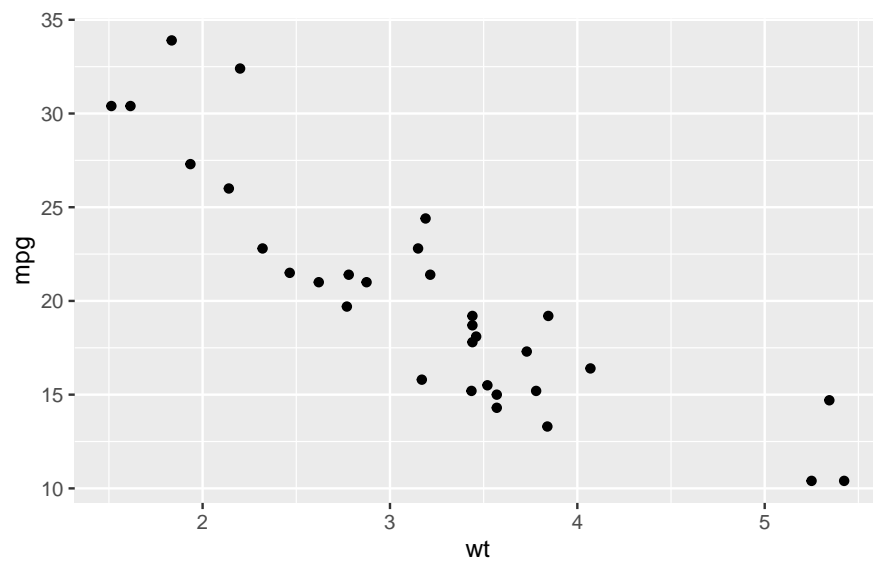


Figure 11.52: Sample 52

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```

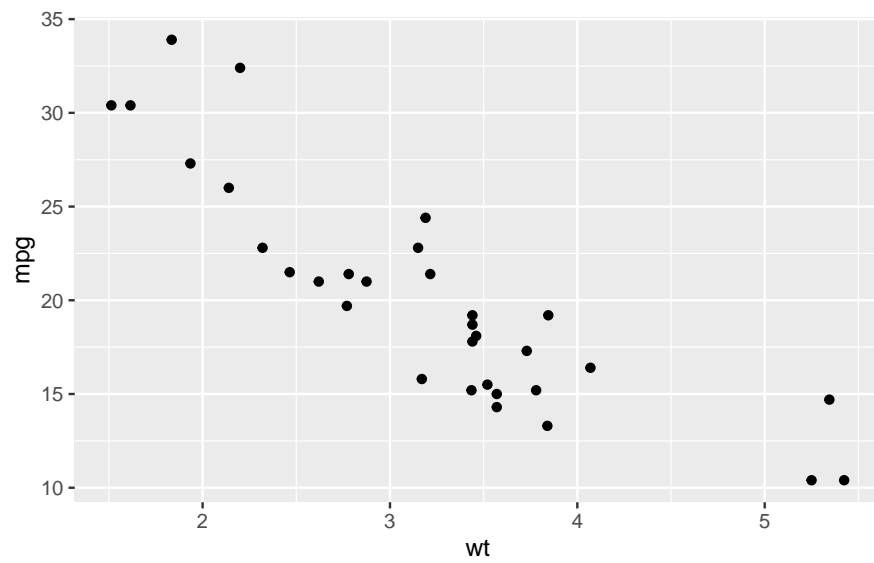


Figure 11.53: Sample 53

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.54: Sample 54

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```

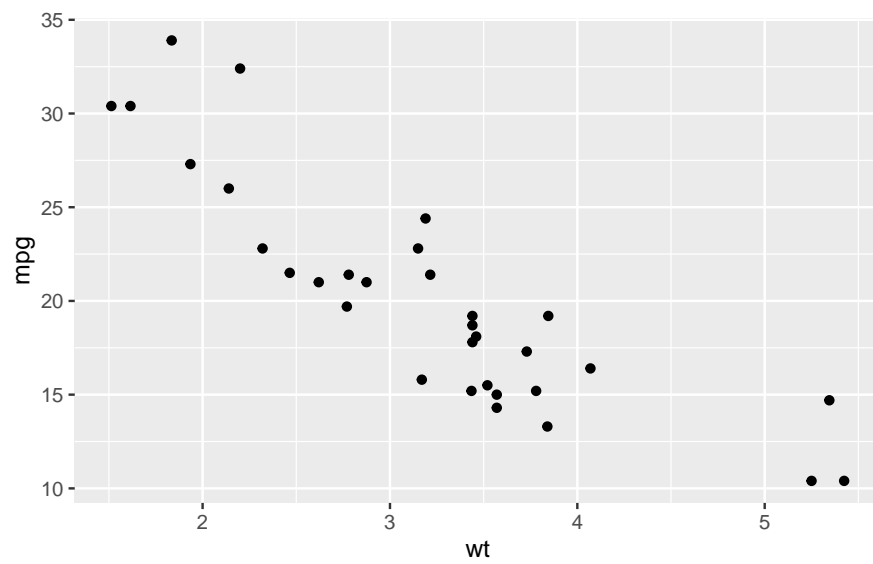


Figure 11.55: Sample 55

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.56: Sample 56

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.57: Sample 57

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.58: Sample 58

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.59: Sample 59

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.60: Sample 60

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.61: Sample 61

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.62: Sample 62

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.63: Sample 63


```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```

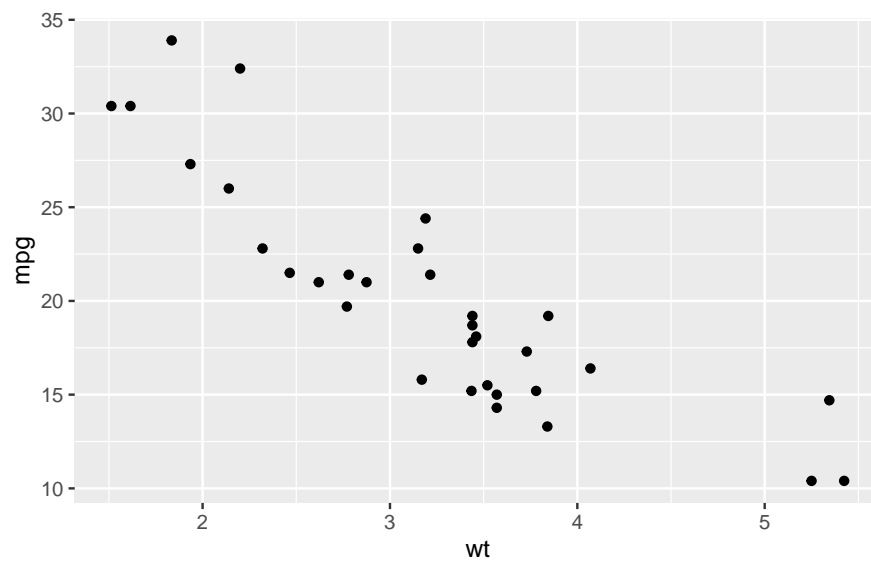


Figure 11.64: Sample 64

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.65: Sample 65

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.66: Sample 66

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.67: Sample 67

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.68: Sample 68

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.69: Sample 69

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.70: Sample 70

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.71: Sample 71

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.72: Sample 72

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.73: Sample 73

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.74: Sample 74

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.75: Sample 75


```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.76: Sample 76

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.77: Sample 77

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.78: Sample 78

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.79: Sample 79

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.80: Sample 80

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.81: Sample 81

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.82: Sample 82

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.83: Sample 83

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.84: Sample 84

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.85: Sample 85

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.86: Sample 86

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.87: Sample 87


```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.88: Sample 88

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.89: Sample 89

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.90: Sample 90

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.91: Sample 91

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.92: Sample 92

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.93: Sample 93

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```

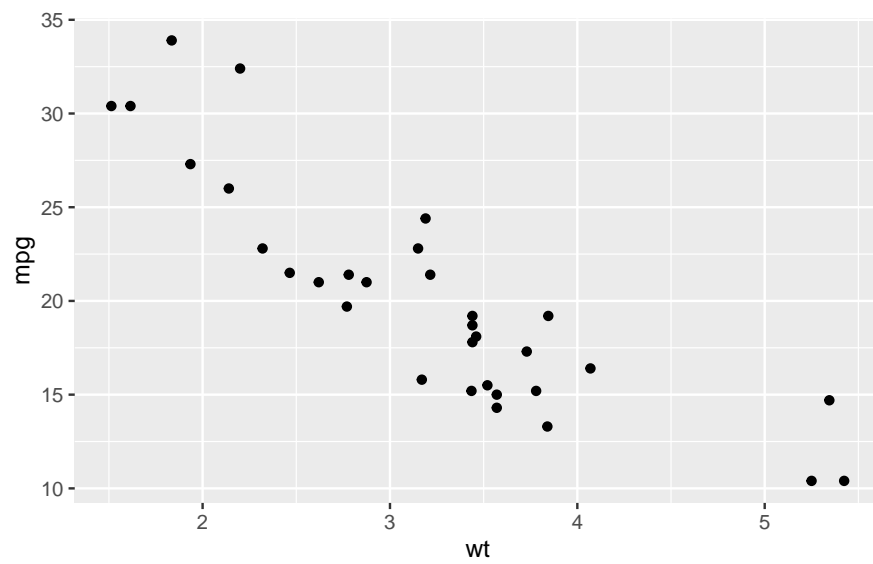


Figure 11.94: Sample 94

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.95: Sample 95

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.96: Sample 96

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```

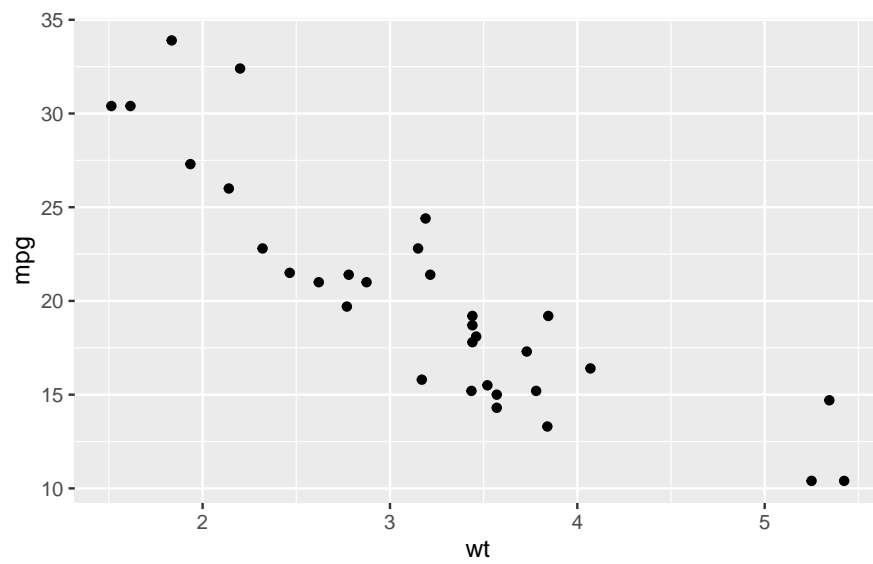


Figure 11.97: Sample 97

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.98: Sample 98

```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```



Figure 11.99: Sample 99


```
ggplot(mtcars, aes(x = wt, y = mpg)) +  
  geom_point()
```

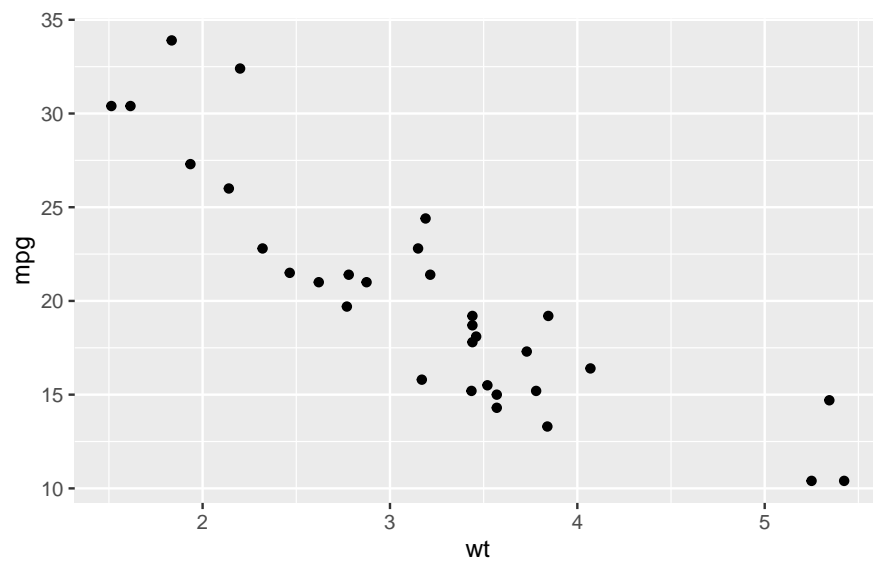


Figure 11.100: Sample 100