sample book

me

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About this R

```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
```

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

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

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

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

```r
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

```r
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

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


Figure 11.13: Sample 13

```r
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

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


Figure 11.43: Sample 43

```r
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()
```
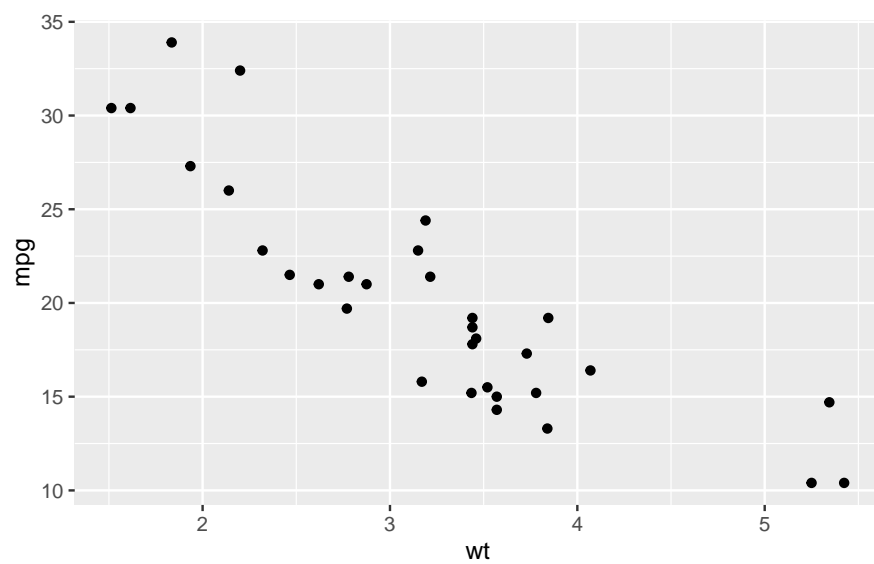

Figure 11.46: Sample 46

```
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()
```
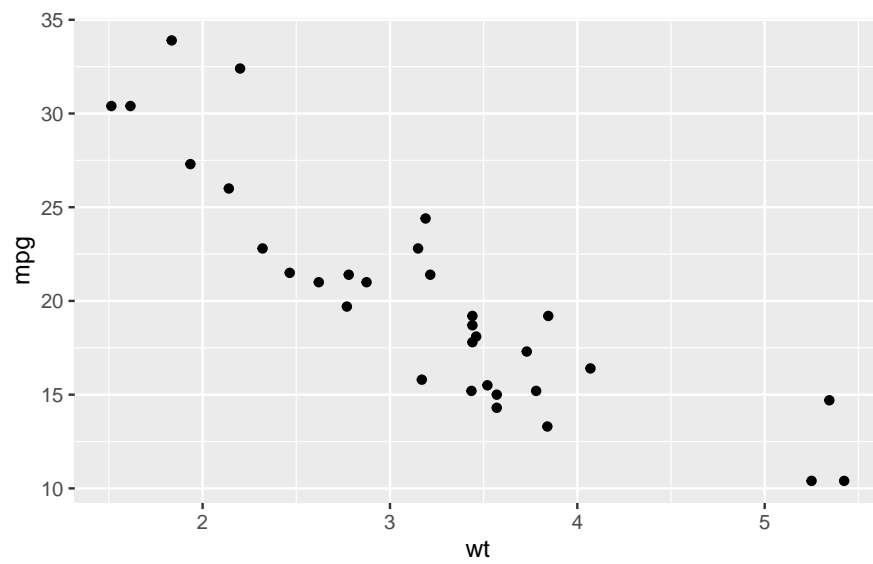

Figure 11.57: Sample 57

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


Figure 11.58: Sample 58

```r
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()
```
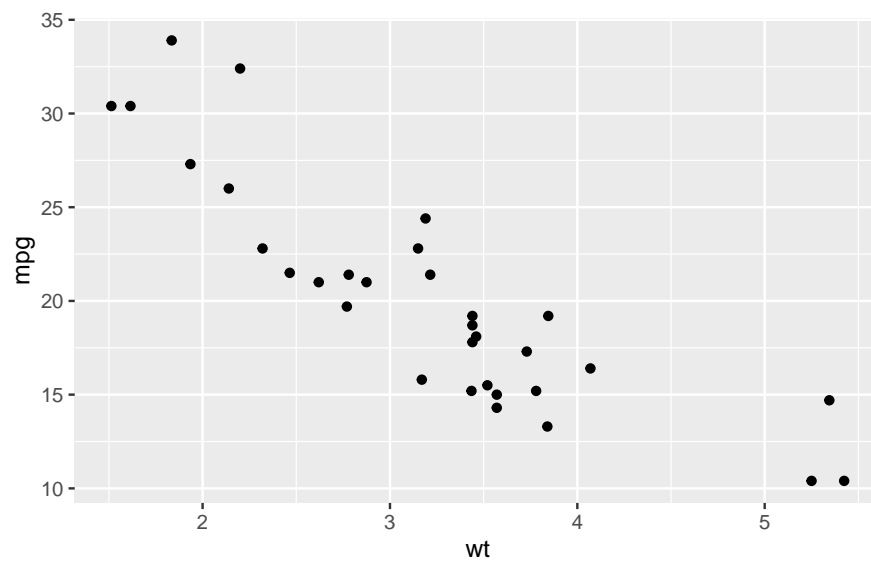

Figure 11.61: Sample 61

```
ggplot(mtcars, aes(x = wt, y = mpg)) +
  geom_point()
```
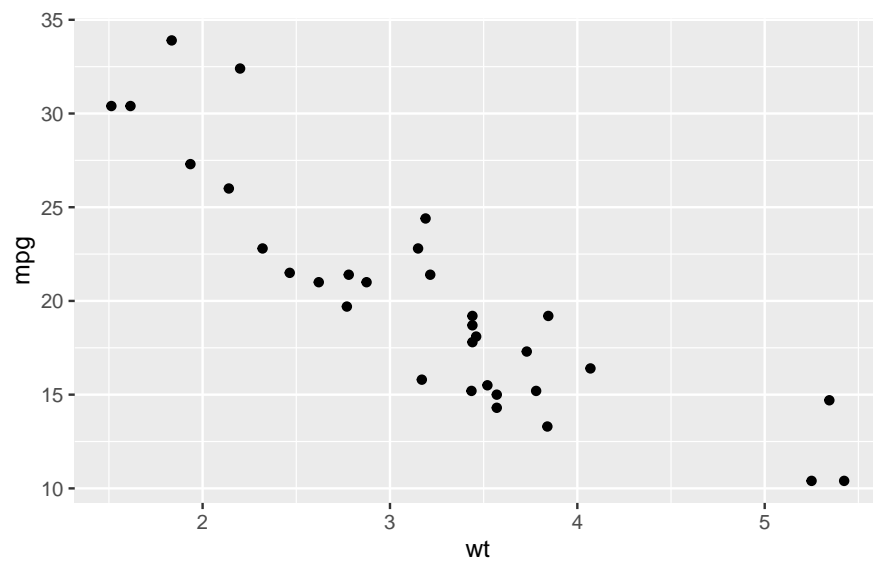
Figure 11.62: Sample 62

```r
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()
```
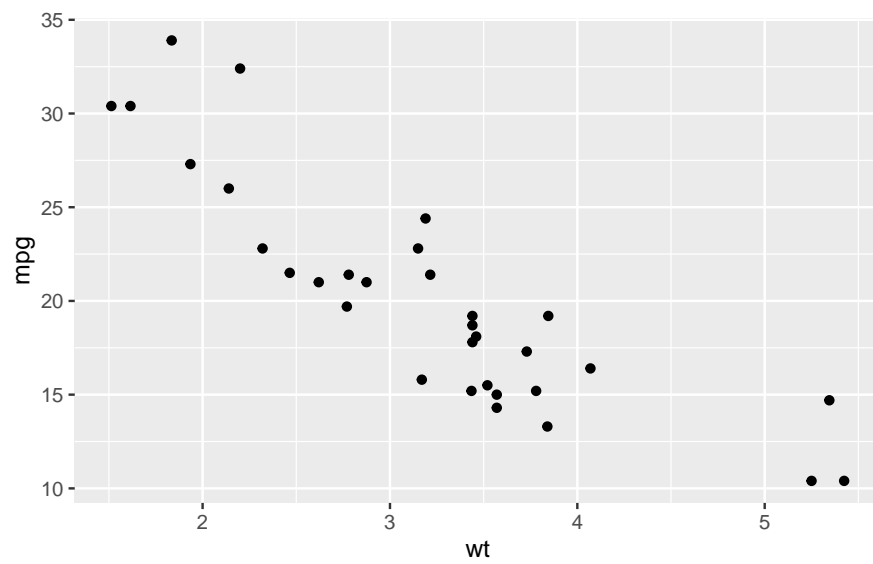

Figure 11.66: Sample 66

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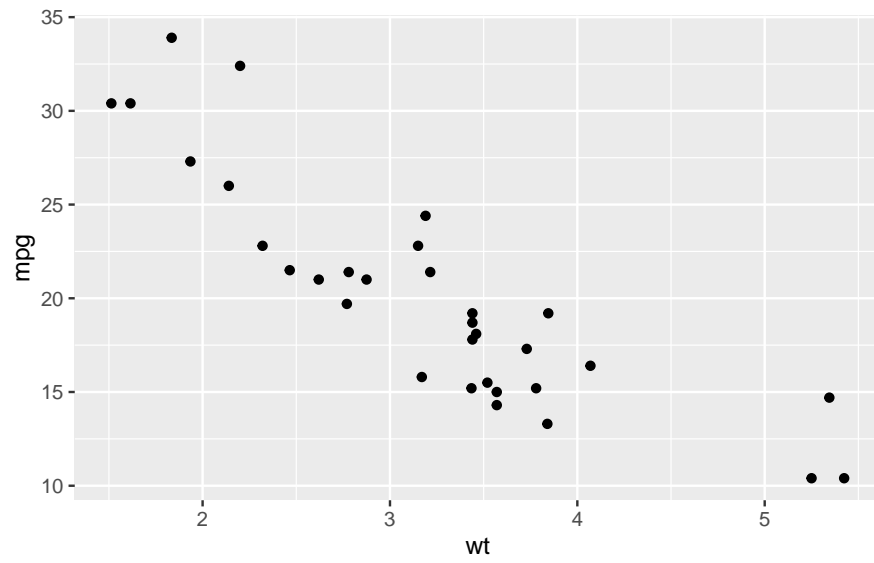

Figure 11.67: Sample 67

```
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()
```
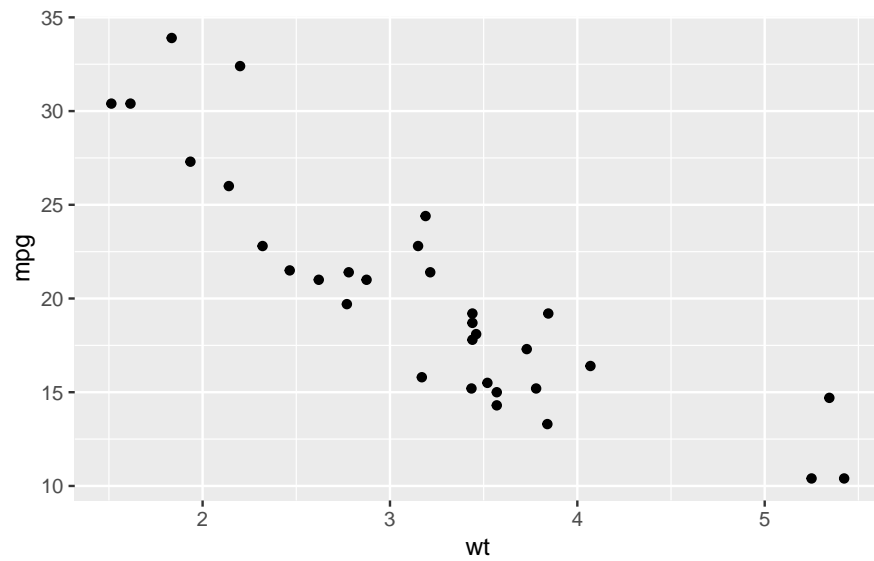

Figure 11.73: Sample 73

```
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()
```
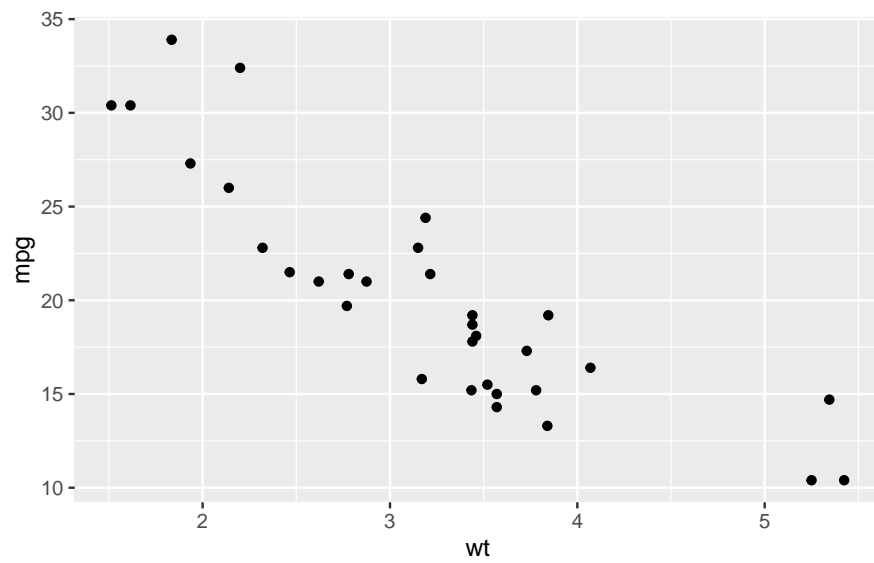
Figure 11.77: Sample 77

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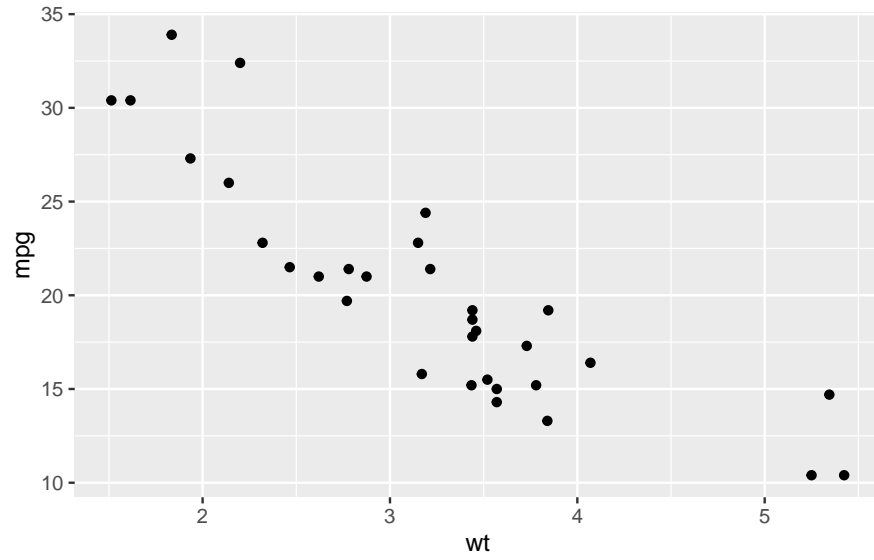

Figure 11.78: Sample 78

```
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()
```
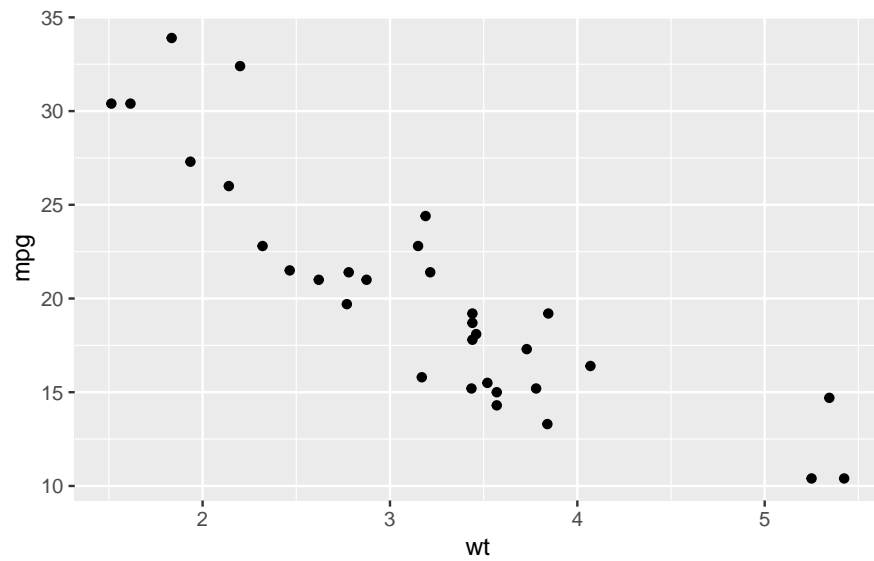

Figure 11.81: Sample 81

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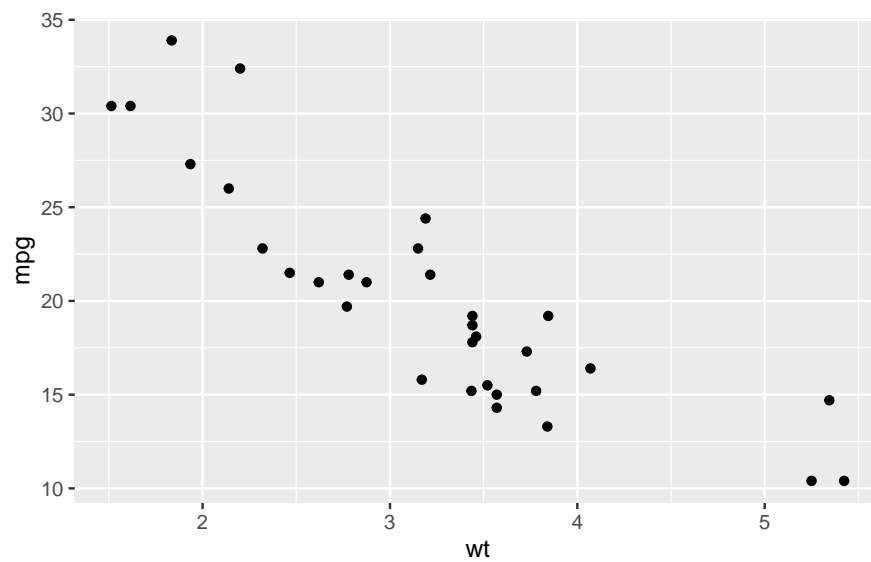

Figure 11.82: Sample 82

```r
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

```r
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()
```
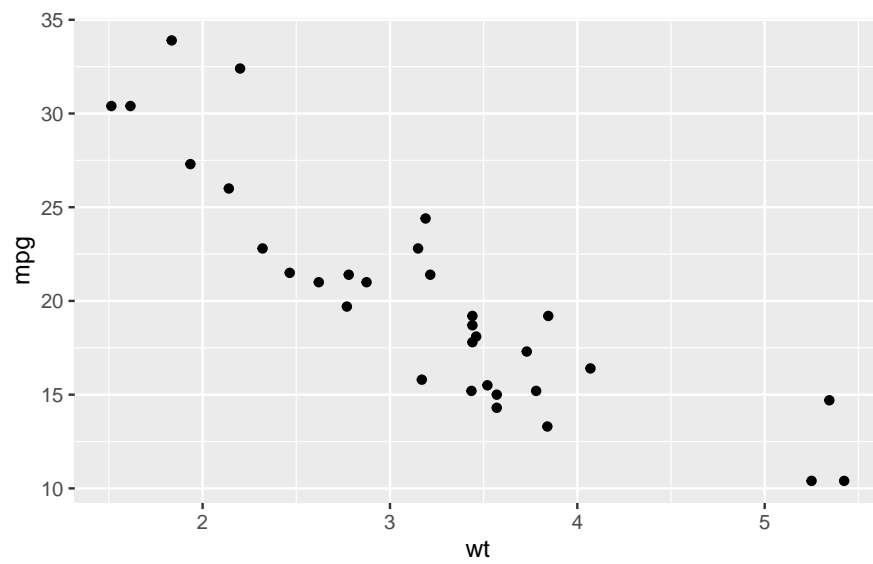

Figure 11.94: Sample 94

```
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()
```
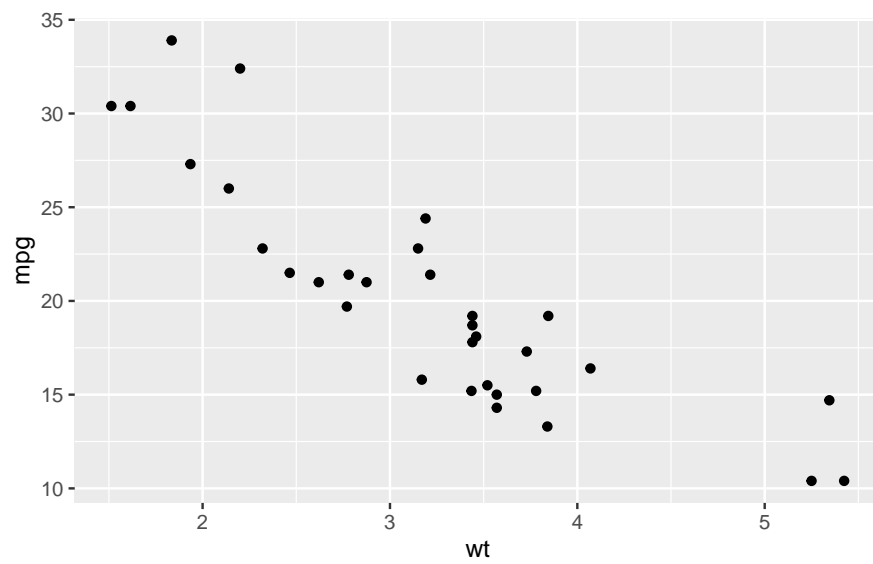

Figure 11.100: Sample 100

12

eleven

```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
```

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

Table 12.1: Sample 1

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

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

Table 12.2: Sample 2

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

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

Table 12.3: Sample 3

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

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

Table 12.4: Sample 4

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

name	value

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

Table 12.5: Sample 5

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

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

Table 12.6: Sample 6

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

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

Table 12.7: Sample 7

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

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

Table 12.8: Sample 8

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

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

Table 12.9: Sample 9

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

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

Table 12.10: Sample 10

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

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

Table 12.11: Sample 11

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

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

Table 12.12: Sample 12

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

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

Table 12.13: Sample 13

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

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

Table 12.14: Sample 14

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

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

Table 12.15: Sample 15

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

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

Table 12.16: Sample 16

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

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

Table 12.17: Sample 17

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

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

Table 12.18: Sample 18

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

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

Table 12.19: Sample 19

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

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

Table 12.20: Sample 20

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

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

Table 12.21: Sample 21

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

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

Table 12.22: Sample 22

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

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

Table 12.23: Sample 23

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

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

Table 12.24: Sample 24

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

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

Table 12.25: Sample 25

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

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

Table 12.26: Sample 26

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

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

Table 12.27: Sample 27

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

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

Table 12.28: Sample 28

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

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

Table 12.29: Sample 29

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

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

Table 12.30: Sample 30

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

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

Table 12.31: Sample 31

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

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

Table 12.32: Sample 32

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

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

Table 12.33: Sample 33

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

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

Table 12.34: Sample 34

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

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

Table 12.35: Sample 35

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

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

Table 12.36: Sample 36

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

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

Table 12.37: Sample 37

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

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

Table 12.38: Sample 38

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

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

Table 12.39: Sample 39

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

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

Table 12.40: Sample 40

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

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

Table 12.41: Sample 41

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

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

Table 12.42: Sample 42

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

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

Table 12.43: Sample 43

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

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

Table 12.44: Sample 44

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

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

Table 12.45: Sample 45

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

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

Table 12.46: Sample 46

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

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

Table 12.47: Sample 47

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

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

Table 12.48: Sample 48

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

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

Table 12.49: Sample 49

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

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

Table 12.50: Sample 50

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

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

Table 12.51: Sample 51

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

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

Table 12.52: Sample 52

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

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

Table 12.53: Sample 53

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

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

Table 12.54: Sample 54

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

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

Table 12.55: Sample 55

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

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

Table 12.56: Sample 56

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

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

Table 12.57: Sample 57

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

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

Table 12.58: Sample 58

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

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

Table 12.59: Sample 59

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

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

Table 12.60: Sample 60

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

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

Table 12.61: Sample 61

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

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

Table 12.62: Sample 62

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

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

Table 12.63: Sample 63

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

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

Table 12.64: Sample 64

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

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

Table 12.65: Sample 65

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

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

Table 12.66: Sample 66

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

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

Table 12.67: Sample 67

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

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

Table 12.68: Sample 68

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

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

Table 12.69: Sample 69

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

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

Table 12.70: Sample 70

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

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

Table 12.71: Sample 71

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

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

Table 12.72: Sample 72

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

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

Table 12.73: Sample 73

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

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

Table 12.74: Sample 74

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

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

Table 12.75: Sample 75

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

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

Table 12.76: Sample 76

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

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

Table 12.77: Sample 77

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

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

Table 12.78: Sample 78

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

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

Table 12.79: Sample 79

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

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

Table 12.80: Sample 80

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

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

Table 12.81: Sample 81

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

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

Table 12.82: Sample 82

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

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

Table 12.83: Sample 83

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

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

Table 12.84: Sample 84

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

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

Table 12.85: Sample 85

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

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

Table 12.86: Sample 86

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

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

Table 12.87: Sample 87

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

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

Table 12.88: Sample 88

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

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

Table 12.89: Sample 89

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

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

Table 12.90: Sample 90

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

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

Table 12.91: Sample 91

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

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

Table 12.92: Sample 92

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

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

Table 12.93: Sample 93

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

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

Table 12.94: Sample 94

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

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

Table 12.95: Sample 95

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

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

Table 12.96: Sample 96

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

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

Table 12.97: Sample 97

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

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

Table 12.98: Sample 98

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

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

Table 12.99: Sample 99

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

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

Table 12.100: Sample 100

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