

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('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

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



Figure 11.1: Figure 1

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



Figure 11.2: Figure 2

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



Figure 11.3: Figure 3

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

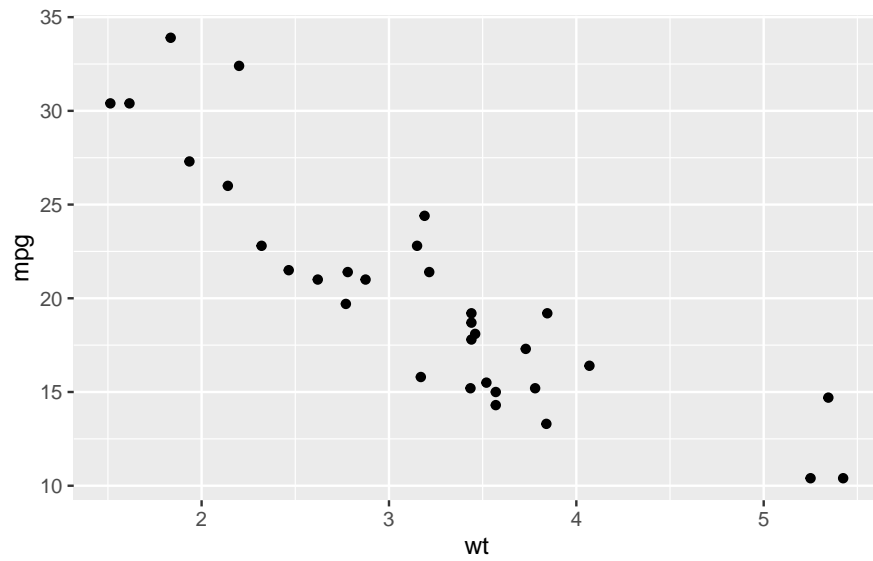


Figure 11.4: Figure 4

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

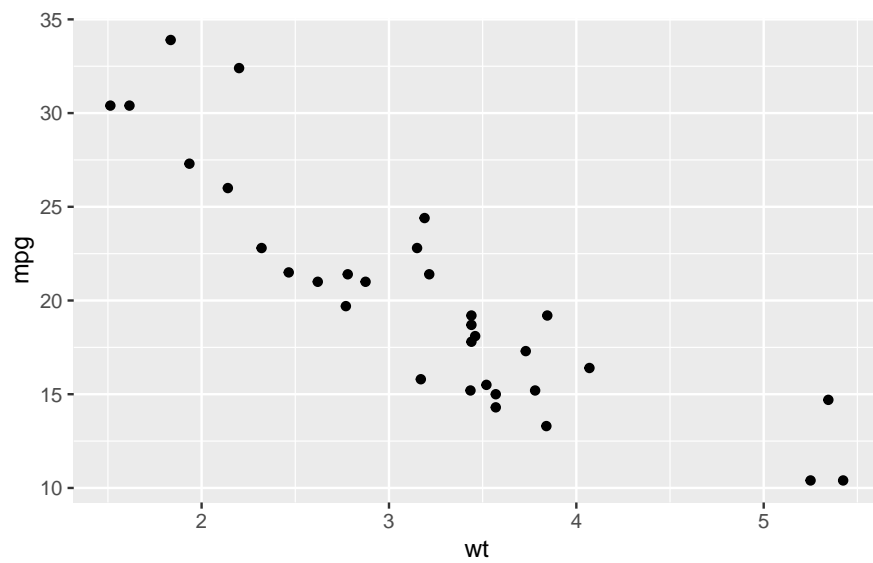


Figure 11.5: Figure 5

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



Figure 11.6: Figure 6

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



Figure 11.7: Figure 7

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



Figure 11.8: Figure 8

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

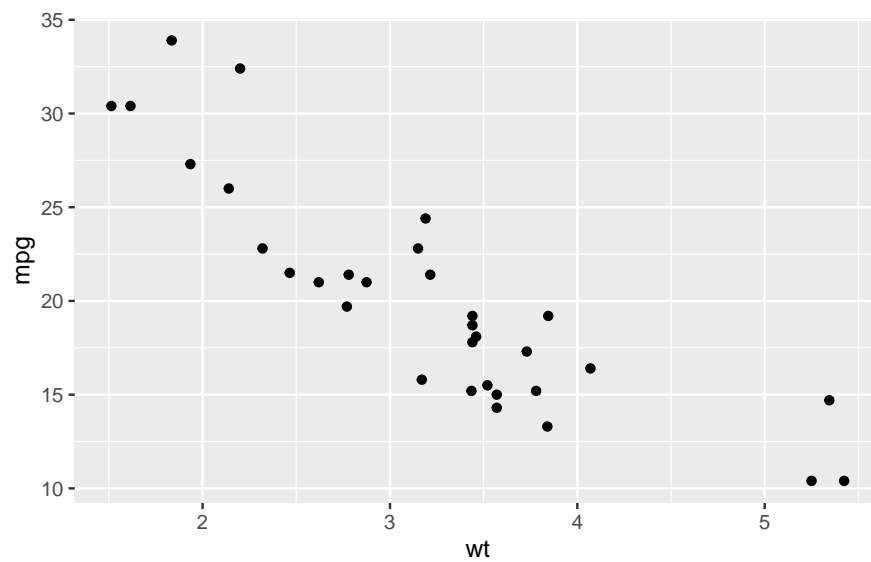


Figure 11.9: Figure 9

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



Figure 11.10: Figure 10

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



Figure 11.11: Figure 11


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

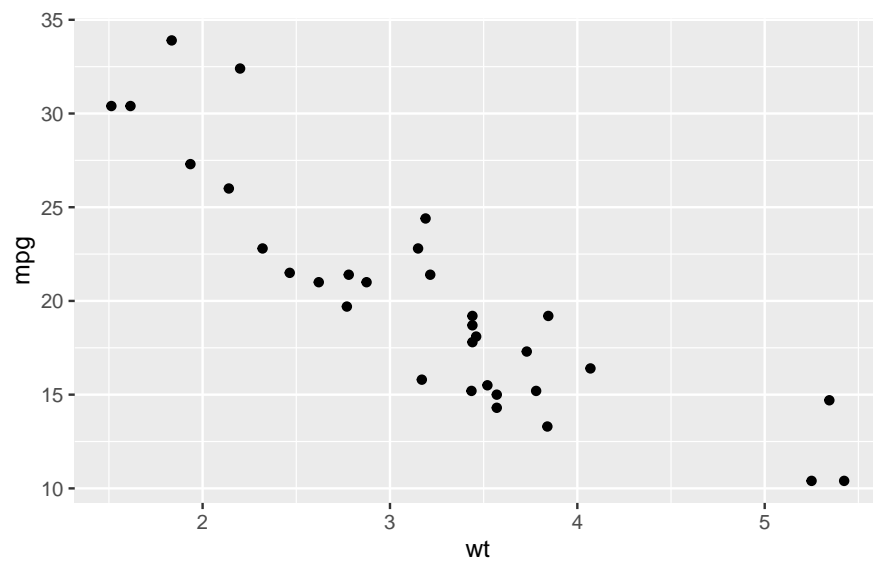


Figure 11.12: Figure 12

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

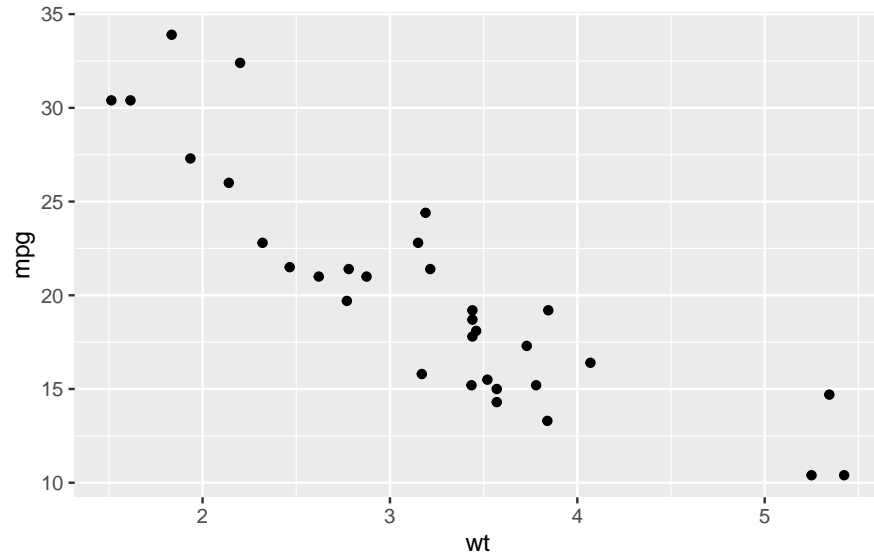


Figure 11.13: Figure 13

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

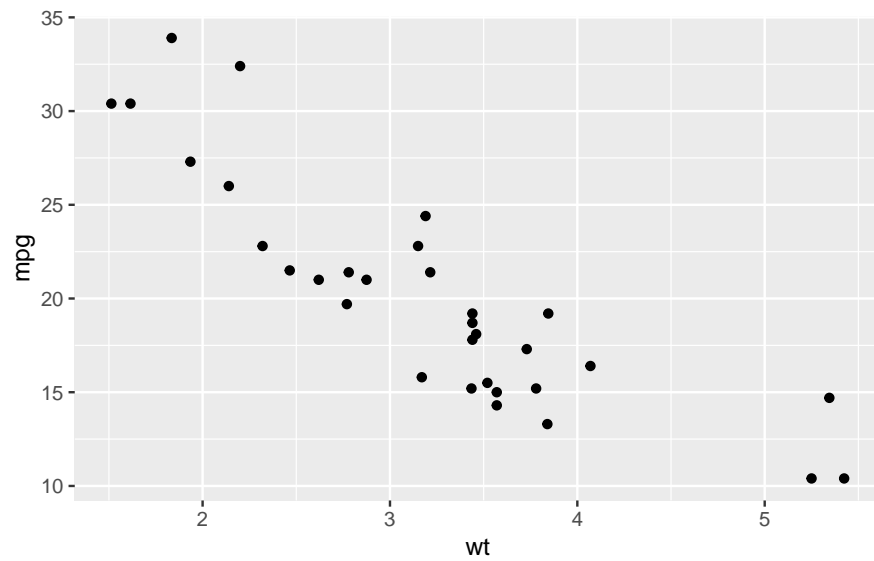


Figure 11.14: Figure 14

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

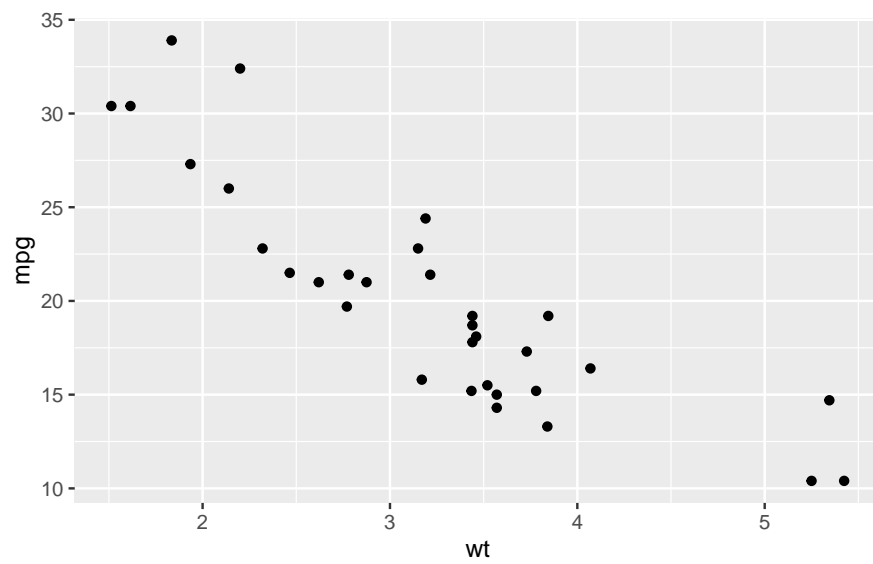


Figure 11.15: Figure 15

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



Figure 11.16: Figure 16

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



Figure 11.17: Figure 17

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



Figure 11.18: Figure 18

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

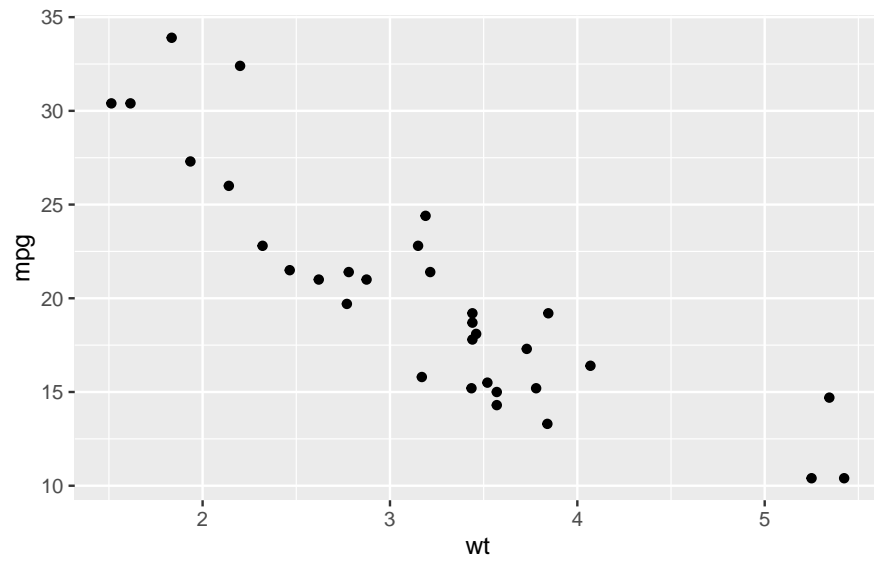


Figure 11.19: Figure 19

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

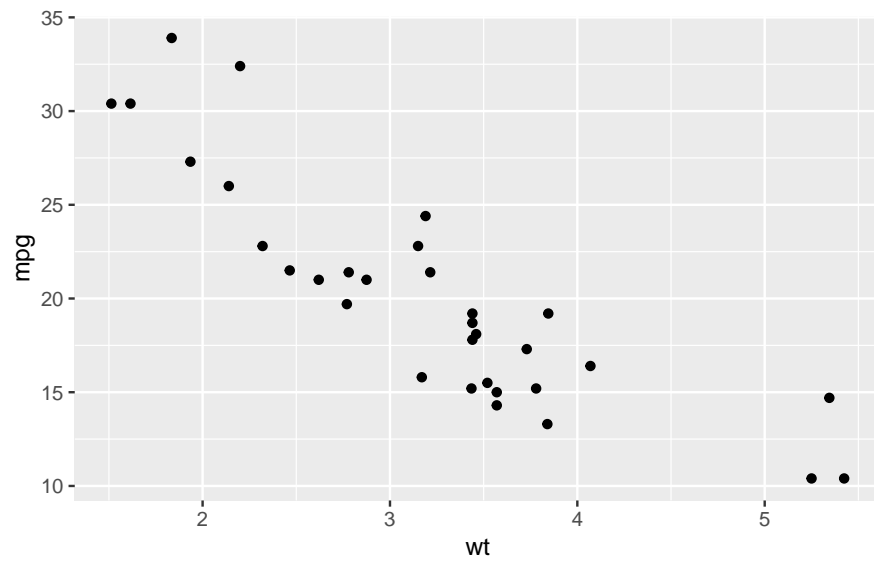


Figure 11.20: Figure 20

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



Figure 11.21: Figure 21

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



Figure 11.22: Figure 22

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



Figure 11.23: Figure 23


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



Figure 11.24: Figure 24

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



Figure 11.25: Figure 25

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



Figure 11.26: Figure 26

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

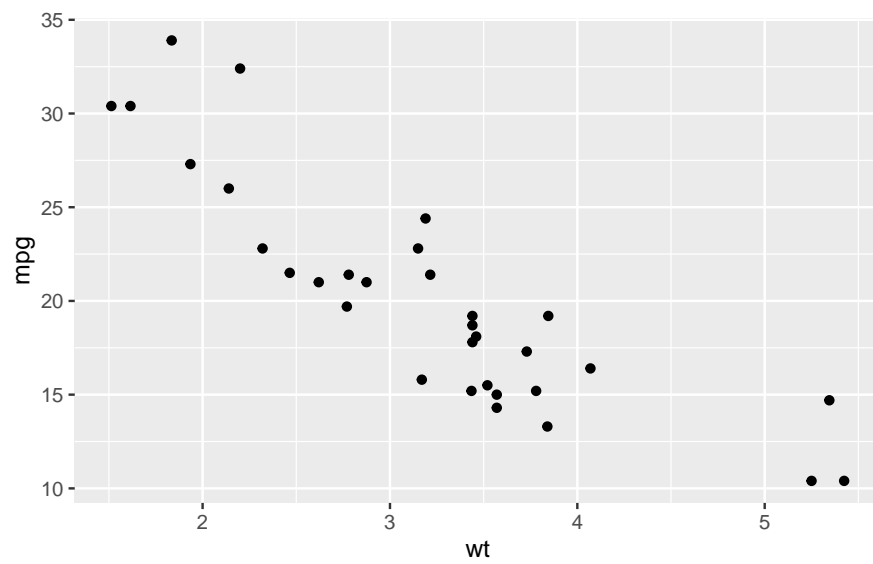


Figure 11.27: Figure 27

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



Figure 11.28: Figure 28

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



Figure 11.29: Figure 29

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

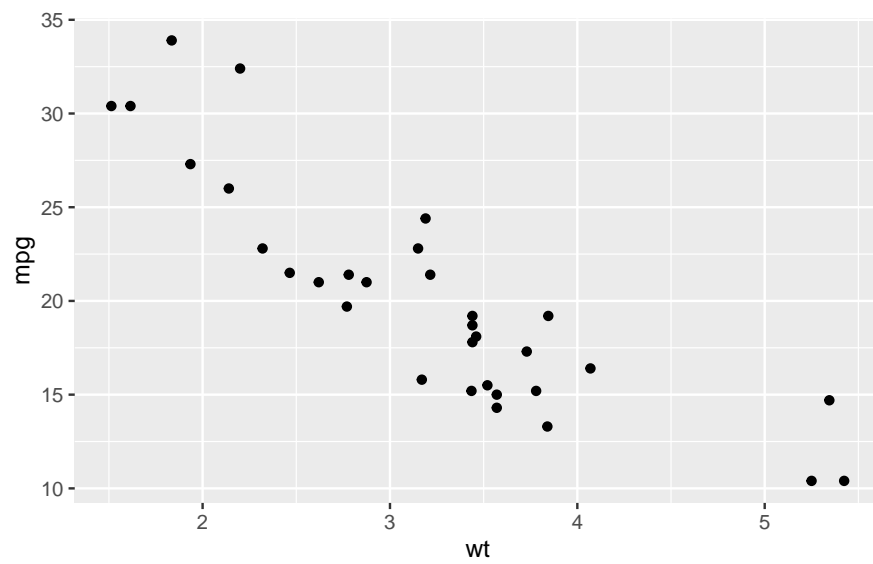


Figure 11.30: Figure 30

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



Figure 11.31: Figure 31

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



Figure 11.32: Figure 32

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



Figure 11.33: Figure 33

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



Figure 11.34: Figure 34

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



Figure 11.35: Figure 35


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

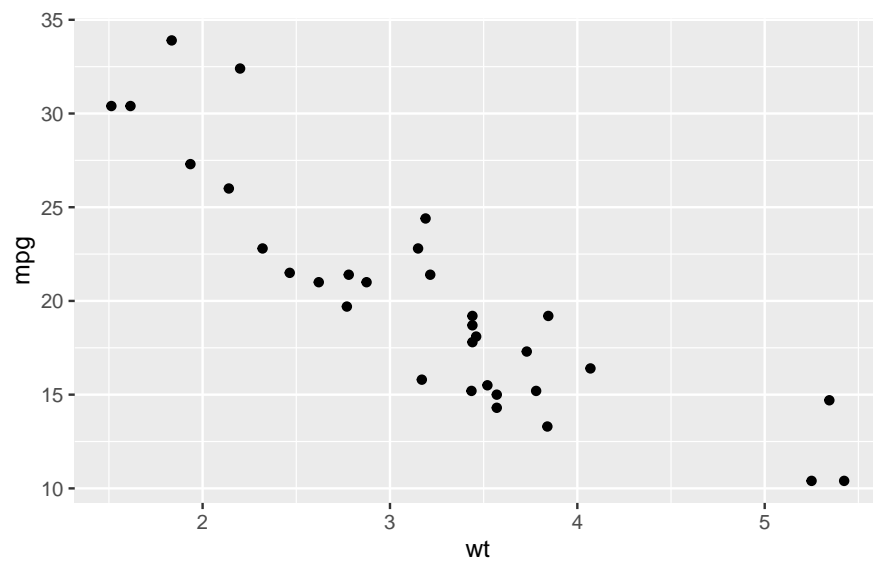


Figure 11.36: Figure 36

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



Figure 11.37: Figure 37

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



Figure 11.38: Figure 38

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

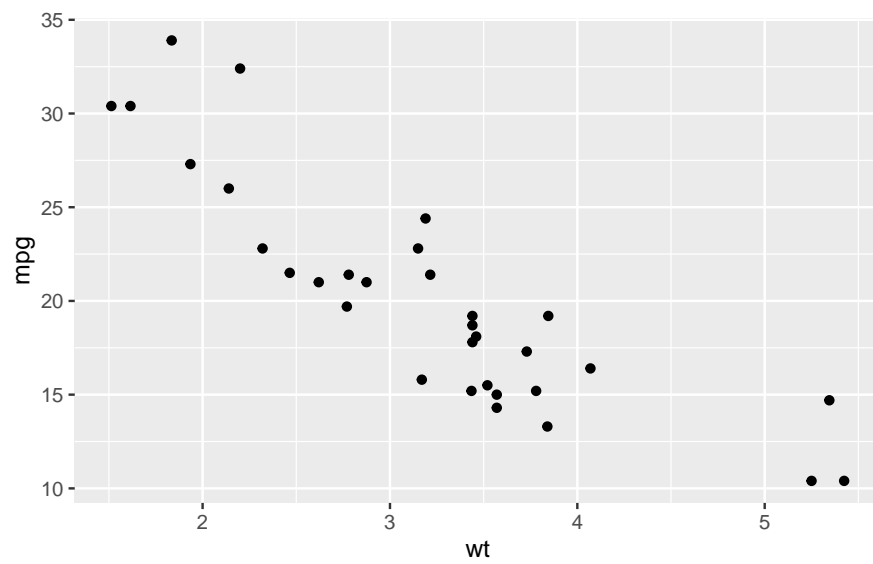


Figure 11.39: Figure 39

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



Figure 11.40: Figure 40

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



Figure 11.41: Figure 41

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



Figure 11.42: Figure 42

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



Figure 11.43: Figure 43

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



Figure 11.44: Figure 44

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



Figure 11.45: Figure 45

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



Figure 11.46: Figure 46

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



Figure 11.47: Figure 47


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

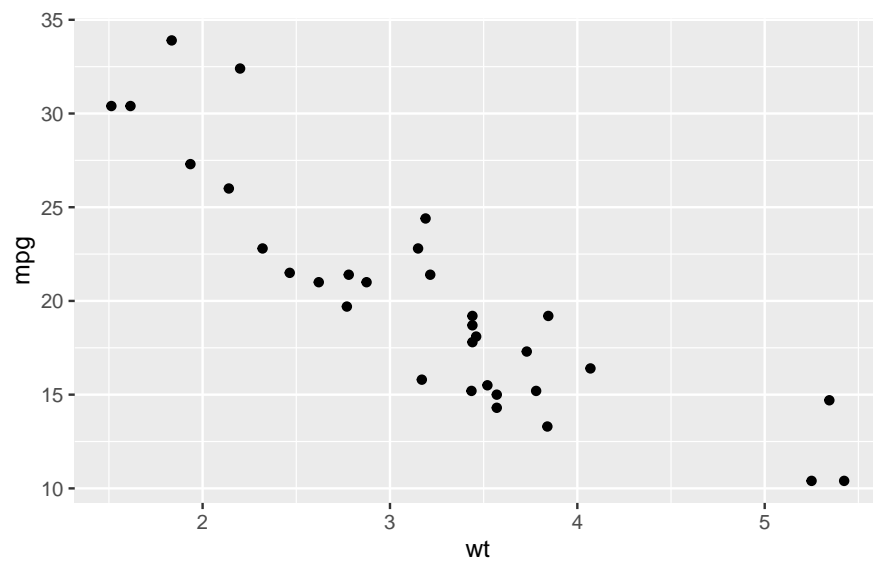


Figure 11.48: Figure 48

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



Figure 11.49: Figure 49

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



Figure 11.50: Figure 50

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



Figure 11.51: Figure 51

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



Figure 11.52: Figure 52

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



Figure 11.53: Figure 53

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

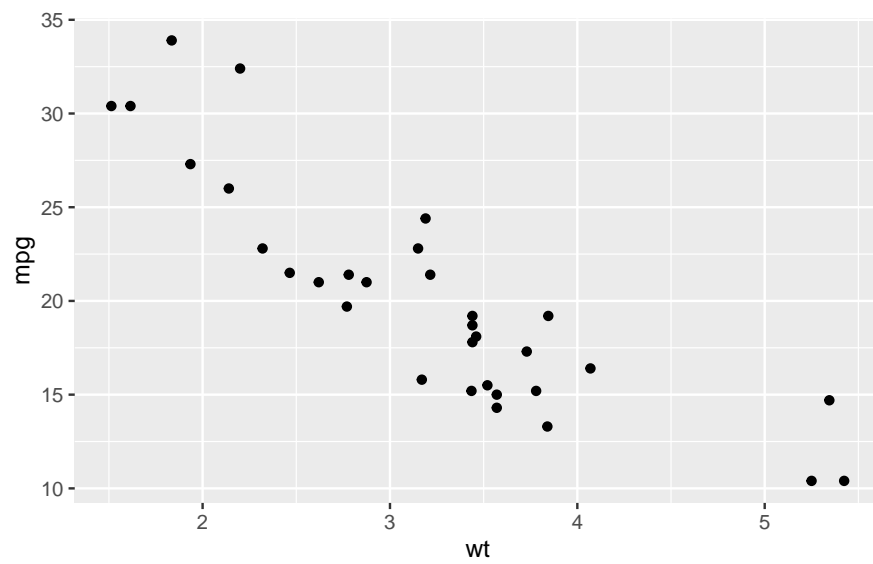


Figure 11.54: Figure 54

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



Figure 11.55: Figure 55

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



Figure 11.56: Figure 56

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



Figure 11.57: Figure 57

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



Figure 11.58: Figure 58

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



Figure 11.59: Figure 59


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

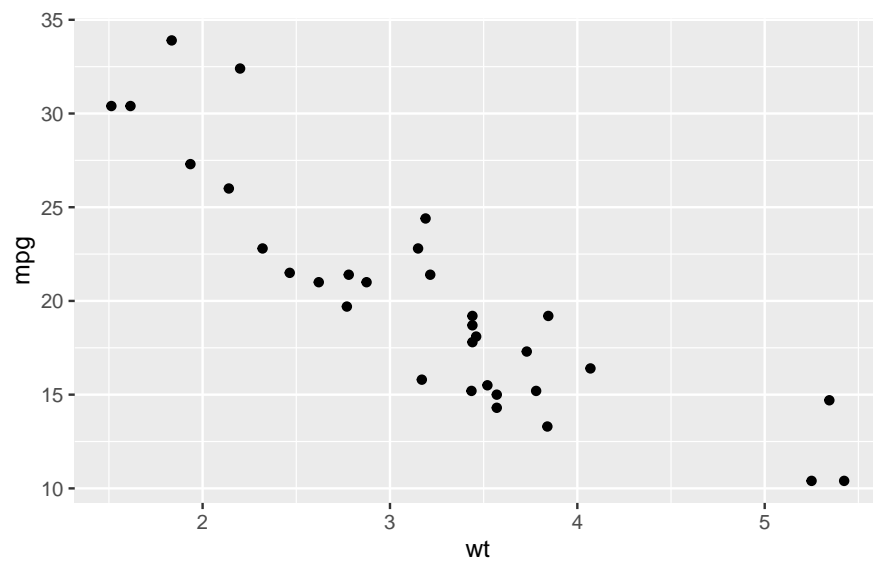


Figure 11.60: Figure 60

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



Figure 11.61: Figure 61

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



Figure 11.62: Figure 62

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

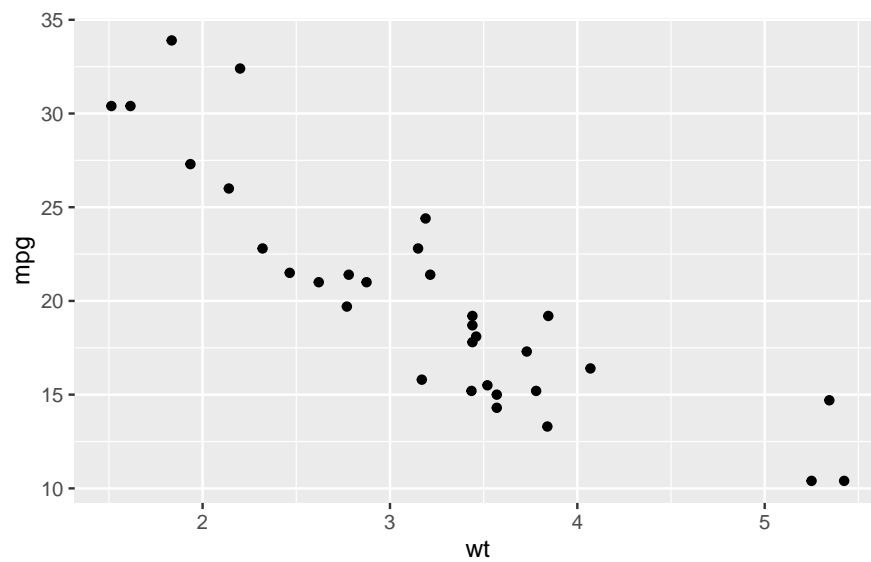


Figure 11.63: Figure 63

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



Figure 11.64: Figure 64

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



Figure 11.65: Figure 65

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



Figure 11.66: Figure 66

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



Figure 11.67: Figure 67

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



Figure 11.68: Figure 68

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



Figure 11.69: Figure 69

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



Figure 11.70: Figure 70

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



Figure 11.71: Figure 71


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



Figure 11.72: Figure 72

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



Figure 11.73: Figure 73

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



Figure 11.74: Figure 74

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

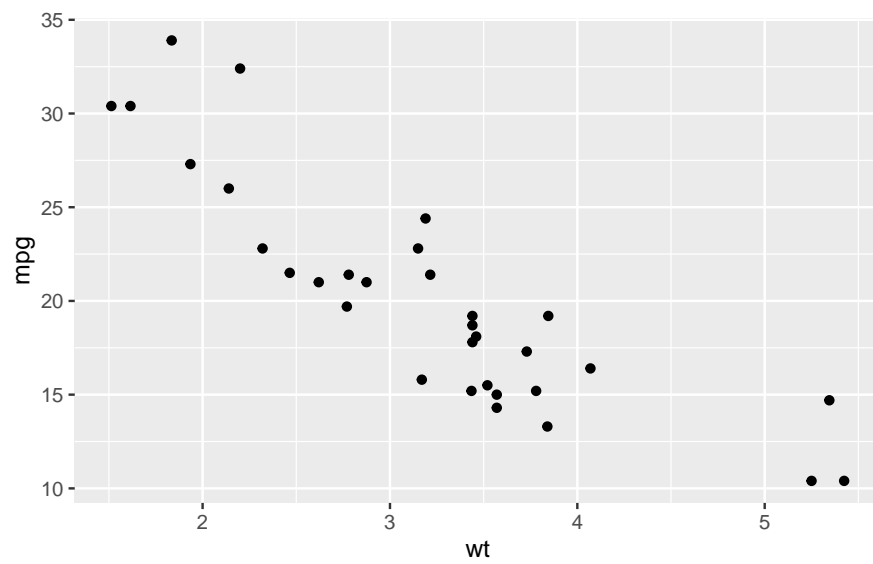


Figure 11.75: Figure 75

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



Figure 11.76: Figure 76

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



Figure 11.77: Figure 77

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

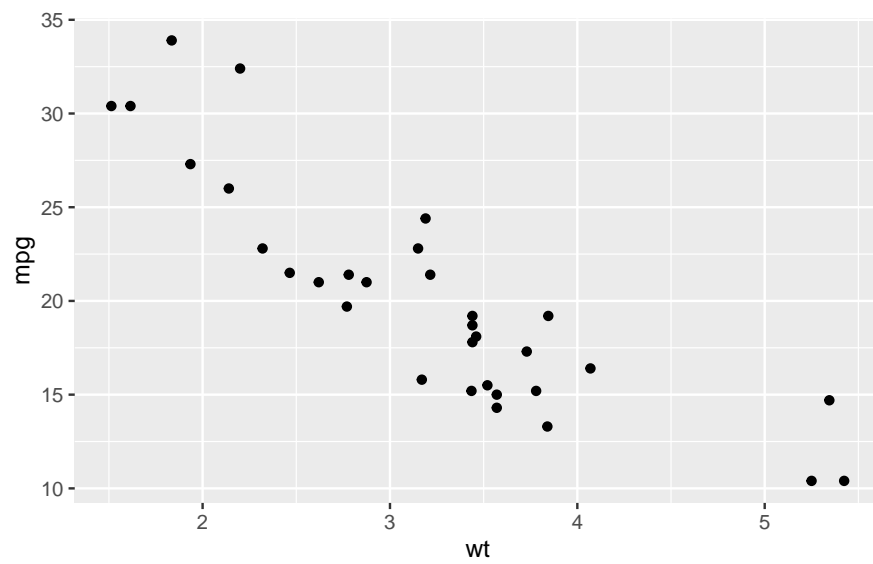


Figure 11.78: Figure 78

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



Figure 11.79: Figure 79

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



Figure 11.80: Figure 80

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



Figure 11.81: Figure 81

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



Figure 11.82: Figure 82

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



Figure 11.83: Figure 83


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

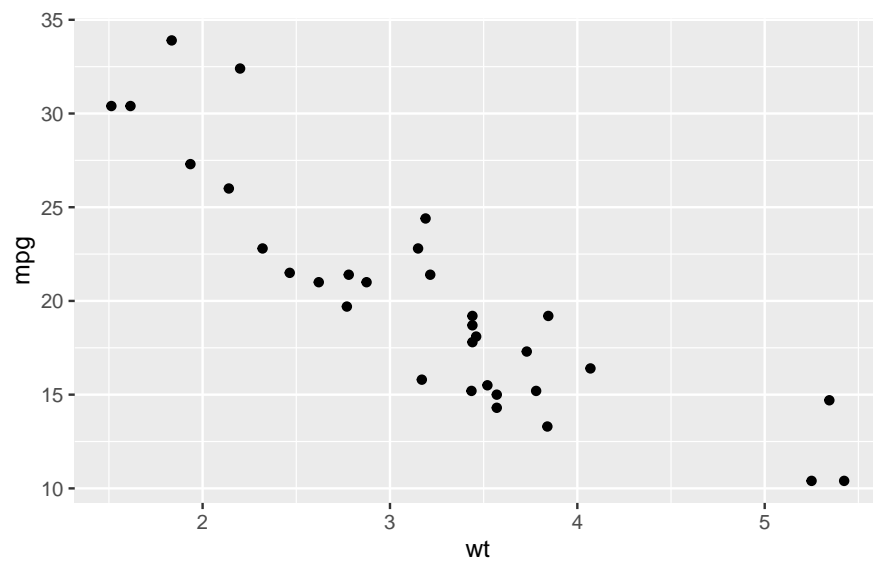


Figure 11.84: Figure 84

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



Figure 11.85: Figure 85

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



Figure 11.86: Figure 86

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

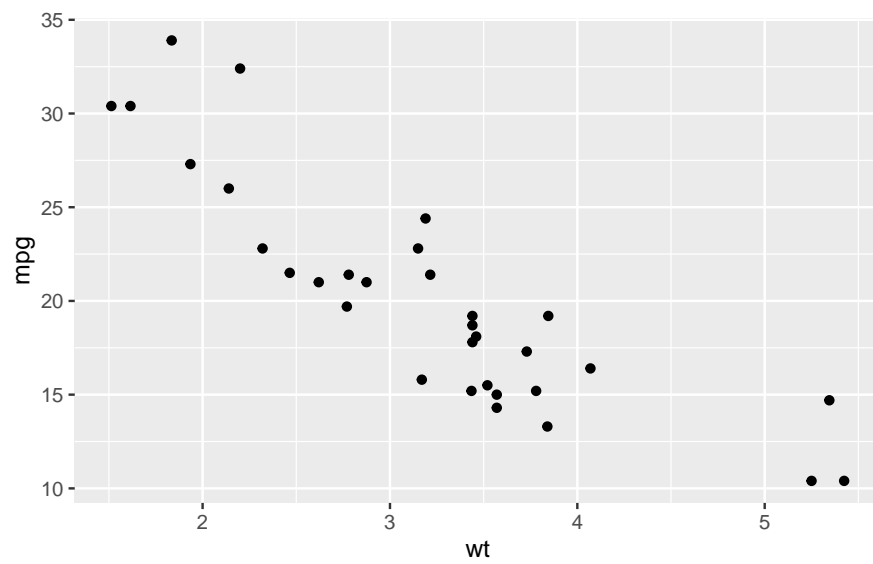


Figure 11.87: Figure 87

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



Figure 11.88: Figure 88

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



Figure 11.89: Figure 89

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



Figure 11.90: Figure 90

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



Figure 11.91: Figure 91

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



Figure 11.92: Figure 92

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

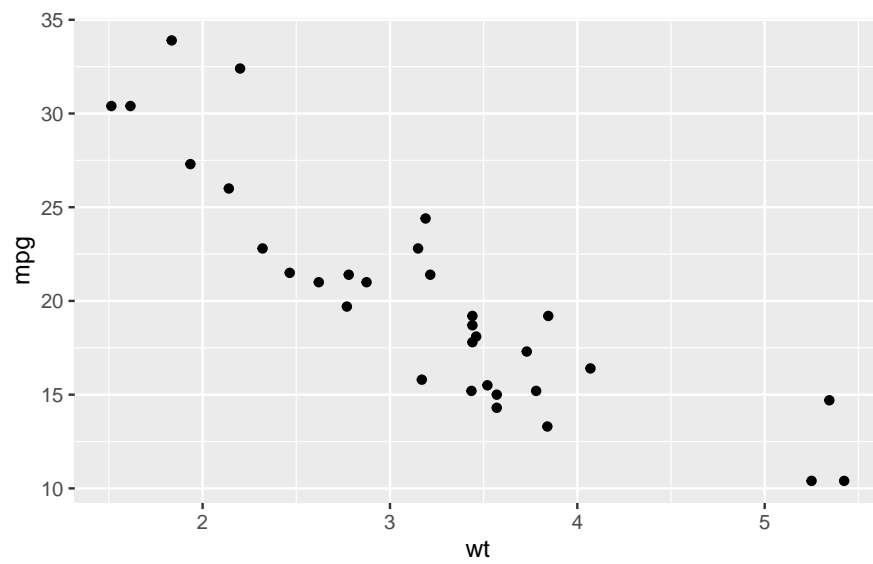


Figure 11.93: Figure 93

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



Figure 11.94: Figure 94

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



Figure 11.95: Figure 95


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

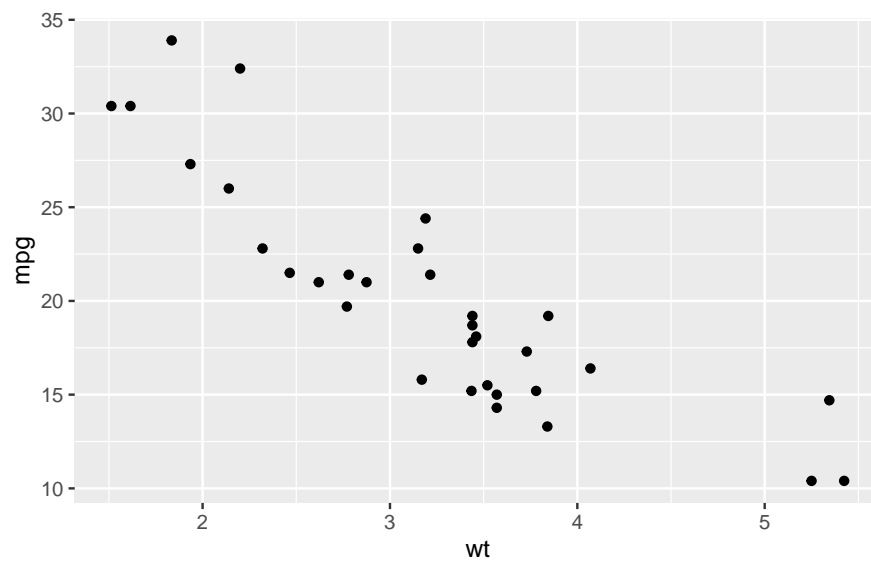


Figure 11.96: Figure 96

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



Figure 11.97: Figure 97

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



Figure 11.98: Figure 98

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

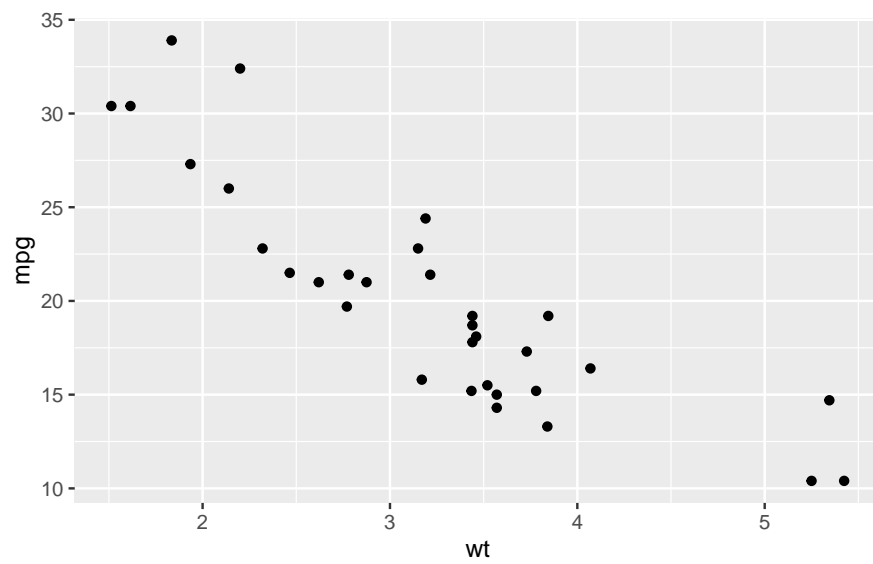


Figure 11.99: Figure 99

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

100

Ten

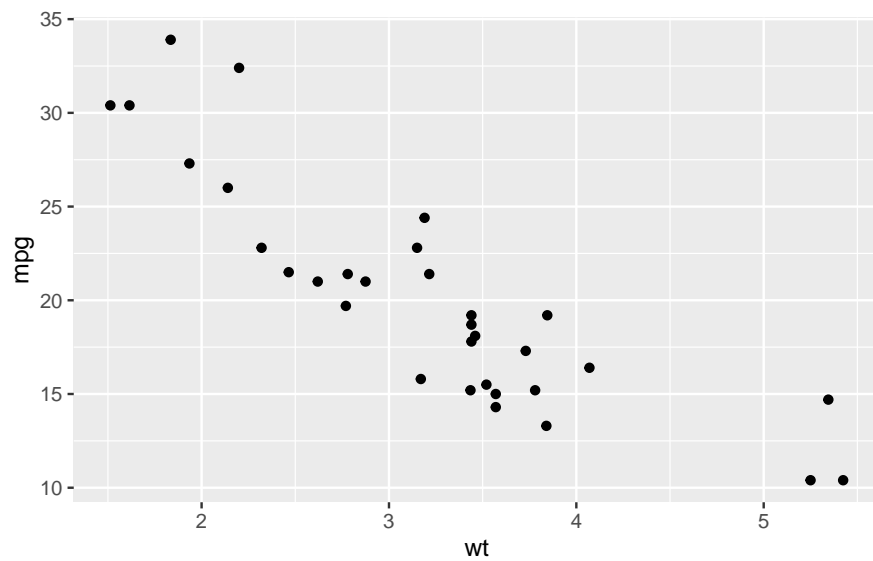


Figure 11.100: Figure 100

12

Eleven

```
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

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

Table 12.1: Table 1

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 12.2: Table 2

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 12.3: Table 3

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 12.4: Table 4

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

name	value
------	-------

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

Table 12.5: Table 5

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 12.6: Table 6

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 12.7: Table 7

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 12.8: Table 8

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 12.9: Table 9

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 12.10: Table 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: Table 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: Table 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: Table 13

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 12.14: Table 14

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 12.15: Table 15

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 12.16: Table 16

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 12.17: Table 17

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 12.18: Table 18

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 12.19: Table 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: Table 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: Table 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: Table 22

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 12.23: Table 23

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 12.24: Table 24

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 12.25: Table 25

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 12.26: Table 26

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 12.27: Table 27

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 12.28: Table 28

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 12.29: Table 29

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 12.30: Table 30

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 12.31: Table 31

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 12.32: Table 32

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 12.33: Table 33

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 12.34: Table 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: Table 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: Table 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: Table 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: Table 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: Table 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: Table 40

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 12.41: Table 41

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 12.42: Table 42

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 12.43: Table 43

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 12.44: Table 44

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 12.45: Table 45

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 12.46: Table 46

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 12.47: Table 47

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 12.48: Table 48

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 12.49: Table 49

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 12.50: Table 50

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 12.51: Table 51

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 12.52: Table 52

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 12.53: Table 53

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 12.54: Table 54

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 12.55: Table 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: Table 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: Table 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: Table 58

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 12.59: Table 59

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 12.60: Table 60

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 12.61: Table 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: Table 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: Table 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: Table 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: Table 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: Table 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: Table 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: Table 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: Table 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: Table 70

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 12.71: Table 71

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 12.72: Table 72

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 12.73: Table 73

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 12.74: Table 74

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 12.75: Table 75

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 12.76: Table 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: Table 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: Table 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: Table 79

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 12.80: Table 80

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 12.81: Table 81

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 12.82: Table 82

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 12.83: Table 83

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 12.84: Table 84

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 12.85: Table 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: Table 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: Table 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: Table 88

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 12.89: Table 89

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 12.90: Table 90

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 12.91: Table 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: Table 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: Table 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: Table 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: Table 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: Table 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: Table 97

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 12.98: Table 98

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 12.99: Table 99

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 12.100: Table 100

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