```
install.packages("tidyverse")
```

```
## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.2'
## (as 'lib' is unspecified)
```

```
install.packages("palmerpenguins")
```

```
## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.2'
## (as 'lib' is unspecified)
```

```
library("tidyverse")
```

```
## ── Attaching packages ─────────────────────────────────────── tidyverse 1.3.2 ──
## ✓ ggplot2 3.4.0      ✓ purrr   1.0.1
## ✓ tibble  3.1.8      ✓ dplyr   1.0.10
## ✓ tidyr   1.2.1      ✓ stringr 1.5.0
## ✓ readr   2.1.3      ✓ forcats 0.5.2
## ── Conflicts ────────────────────────────────────────── tidyverse_conflicts() ──
## ✖ dplyr::filter() masks stats::filter()
## ✖ dplyr::lag()    masks stats::lag()
```

```
library(palmerpenguins)
```

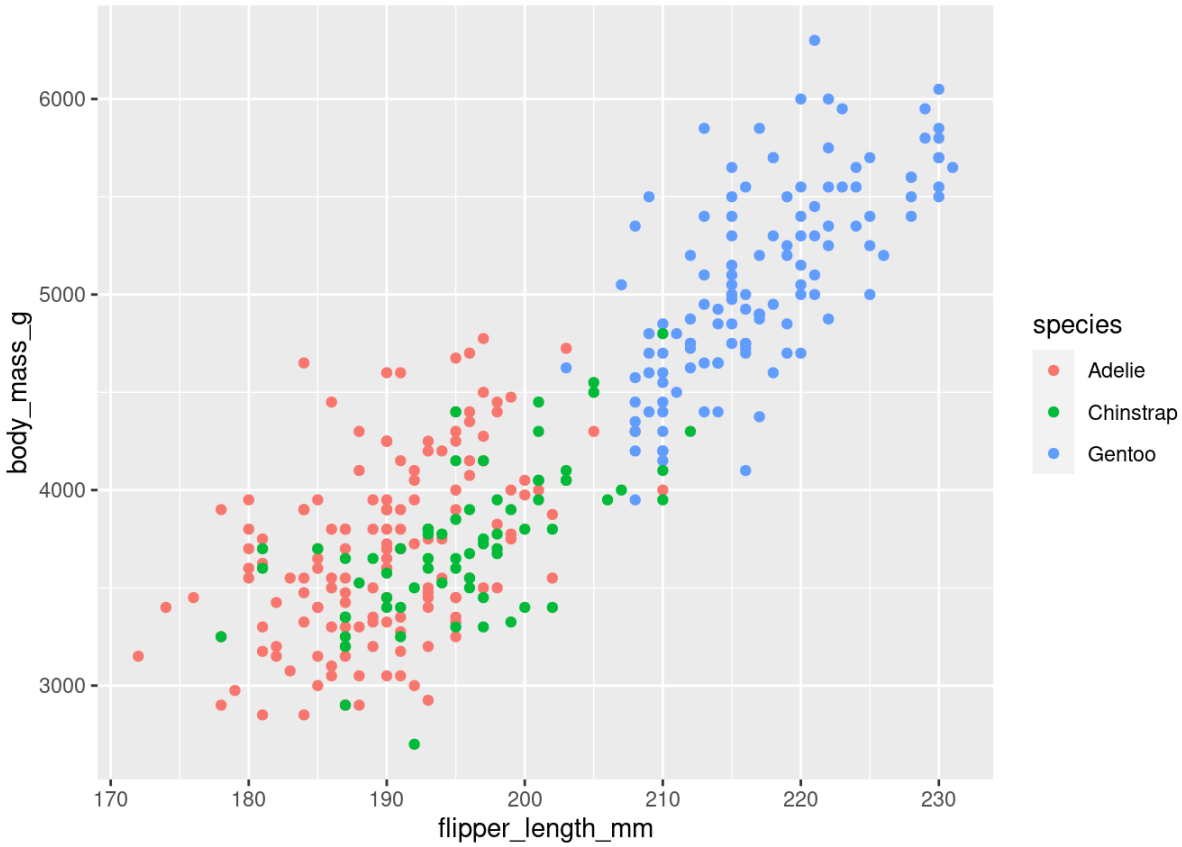
```
?penguins
```

```
glimpse(penguins)
```

```
## Rows: 344
## Columns: 8
## $ species           <fct> Adelie, Adelie, Adelie, Adelie, Adelie, Adelie, Adel…
## $ island            <fct> Torgersen, Torgersen, Torgersen, Torgersen, Torgerse…
## $ bill_length_mm    <dbl> 39.1, 39.5, 40.3, NA, 36.7, 39.3, 38.9, 39.2, 34.1, …
## $ bill_depth_mm     <dbl> 18.7, 17.4, 18.0, NA, 19.3, 20.6, 17.8, 19.6, 18.1, …
## $ flipper_length_mm <int> 181, 186, 195, NA, 193, 190, 181, 195, 193, 190, 186…
## $ body_mass_g       <int> 3750, 3800, 3250, NA, 3450, 3650, 3625, 4675, 3475, …
## $ sex               <fct> male, female, female, NA, female, male, female, male…
## $ year              <int> 2007, 2007, 2007, 2007, 2007, 2007, 2007, 2007, 2007…
```

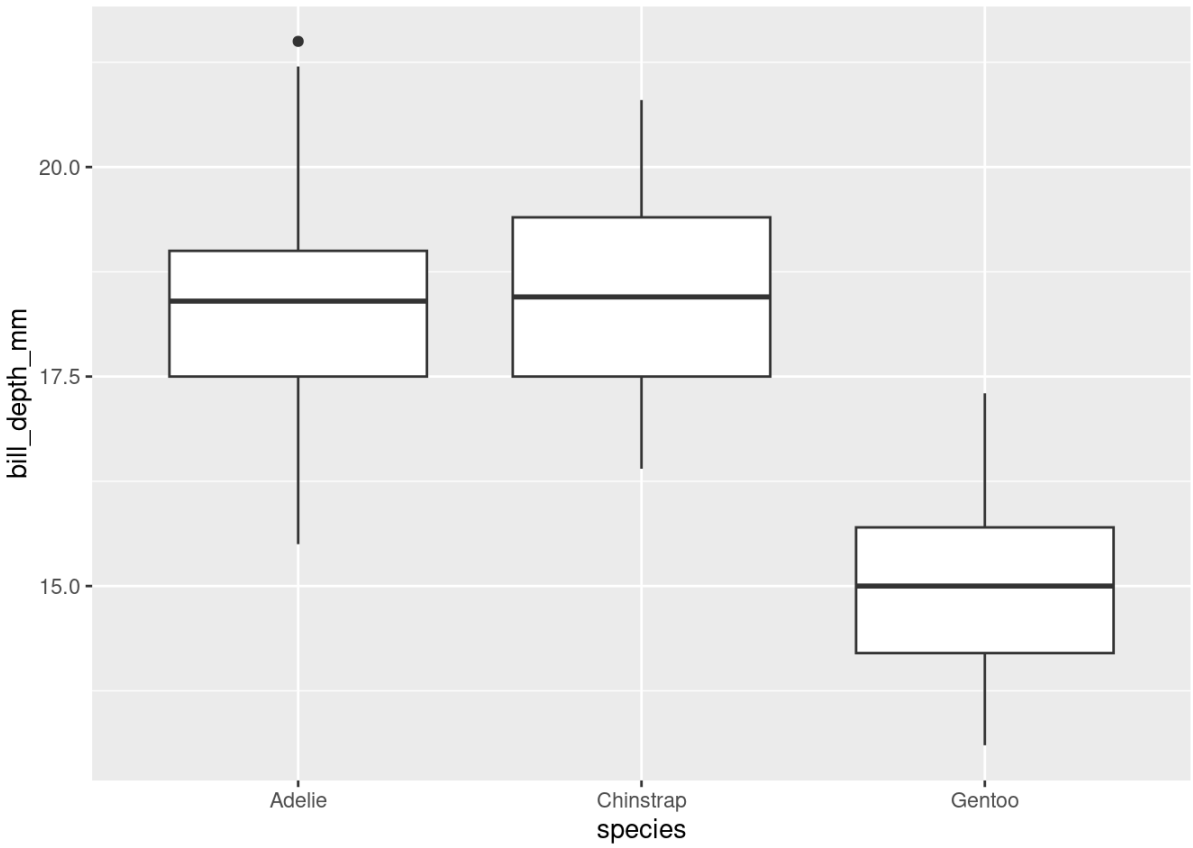
```
ggplot(
  data=penguins,
  mapping=aes(
    x=flipper_length_mm,
    y=body_mass_g,
    color=species
  )
) +
geom_point()
```

```
## Warning: Removed 2 rows containing missing values (`geom_point()`).
```




```
ggplot(
  data=penguins,
  mapping=aes(
    x=species,
    y=bill_depth_mm,
    # color=species
    )
  ) +
  geom_boxplot()
```

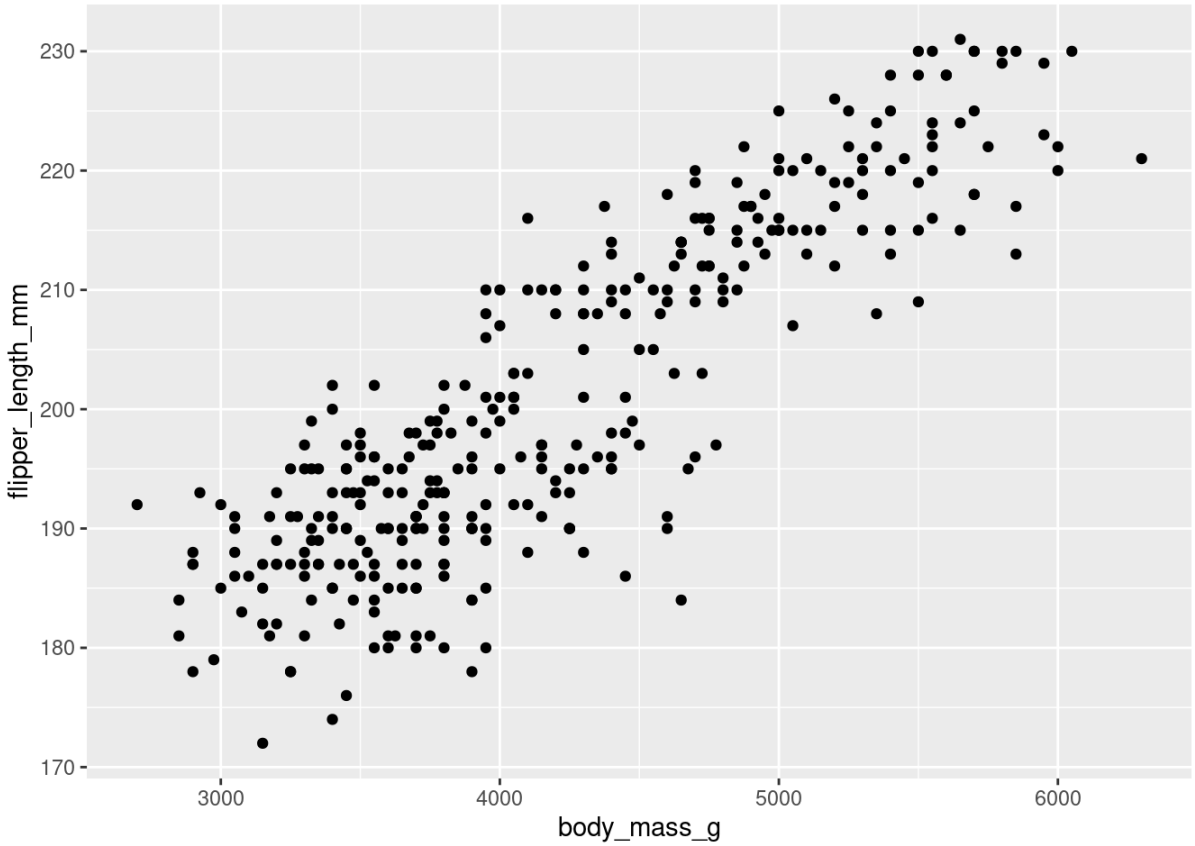
```
## Warning: Removed 2 rows containing non-finite values (`stat_boxplot()`).
```



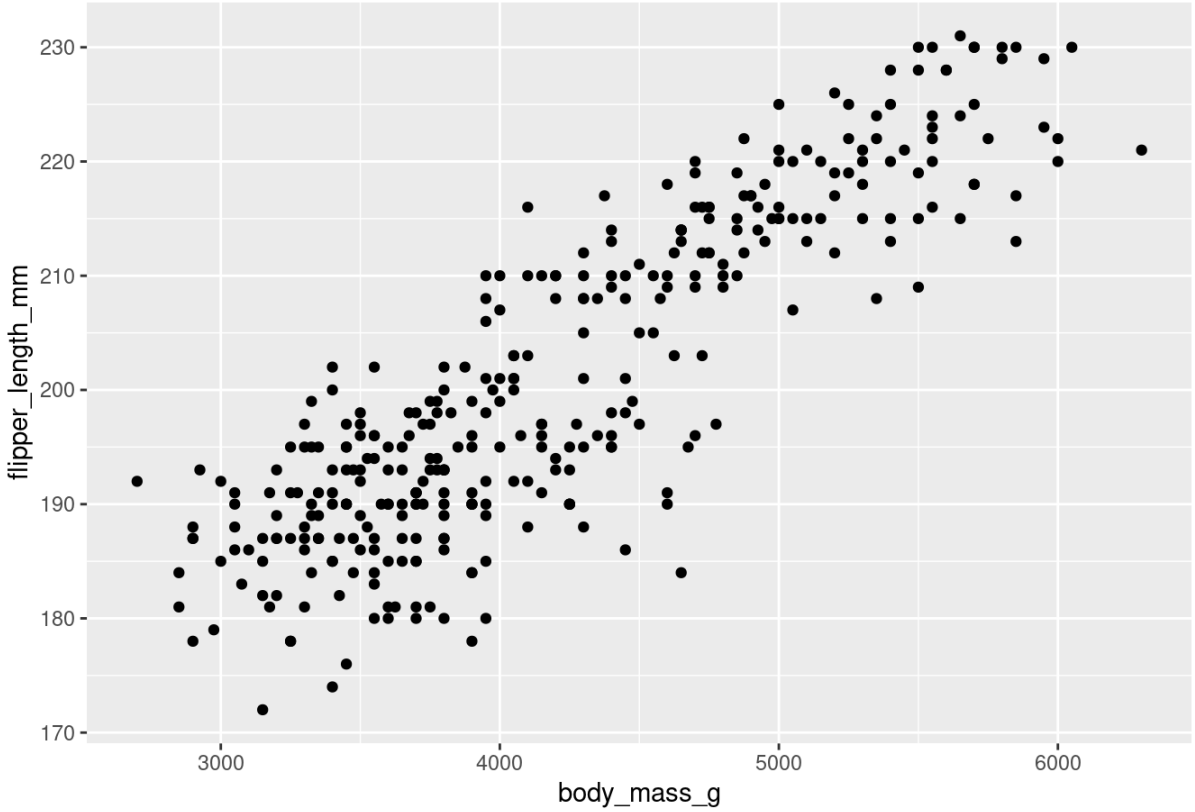
```
# ggplot( data = penguins ) + geom_point()
```

```
ggplot(
    data = penguins,
    mapping = aes(
    x = body_mass_g,
    y = flipper_length_mm
    )
) + geom_point()
```

```
## Warning: Removed 2 rows containing missing values (`geom_point()`).
```




```
ggplot(
    data = penguins,
    mapping = aes(
    x = body_mass_g,
    y = flipper_length_mm
  )
) +
geom_point(
    na.rm = TRUE,
) +
labs (
  caption = "Os dados vêm do pacote palmerpenguins",
)
```

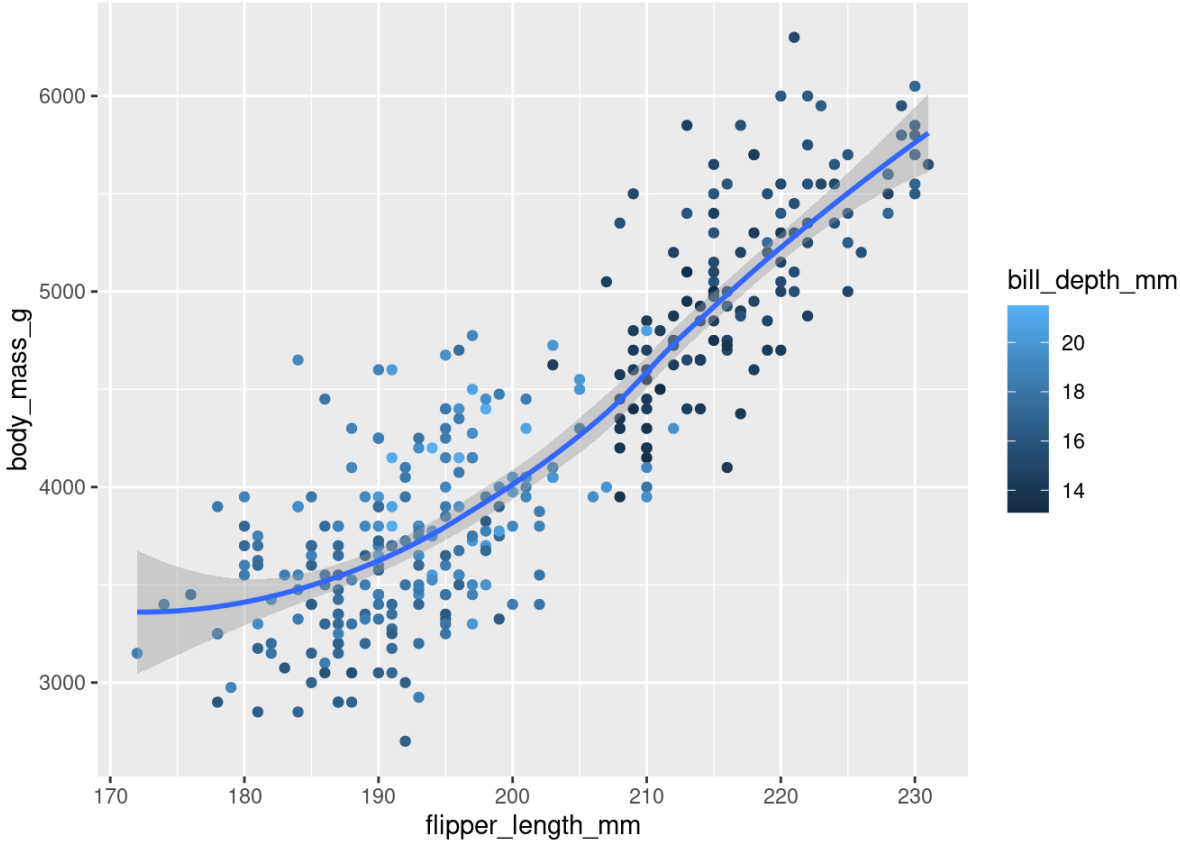



```
ggplot(
    data = penguins,
    mapping = aes(
    x = flipper_length_mm,
    y = body_mass_g,
    color = bill_depth_mm,
  ),
) +
geom_point() +
geom_smooth(
    na.rm = TRUE,
)
```

```
## `geom_smooth()` using method = 'loess' and formula = 'y ~ x'
```

```
## Warning: The following aesthetics were dropped during statistical transformation: colour
## ℹ This can happen when ggplot fails to infer the correct grouping structure in
##   the data.
## ℹ Did you forget to specify a `group` aesthetic or to convert a numerical
##   variable into a factor?
```

```
## Warning: Removed 2 rows containing missing values (`geom_point()`).
```

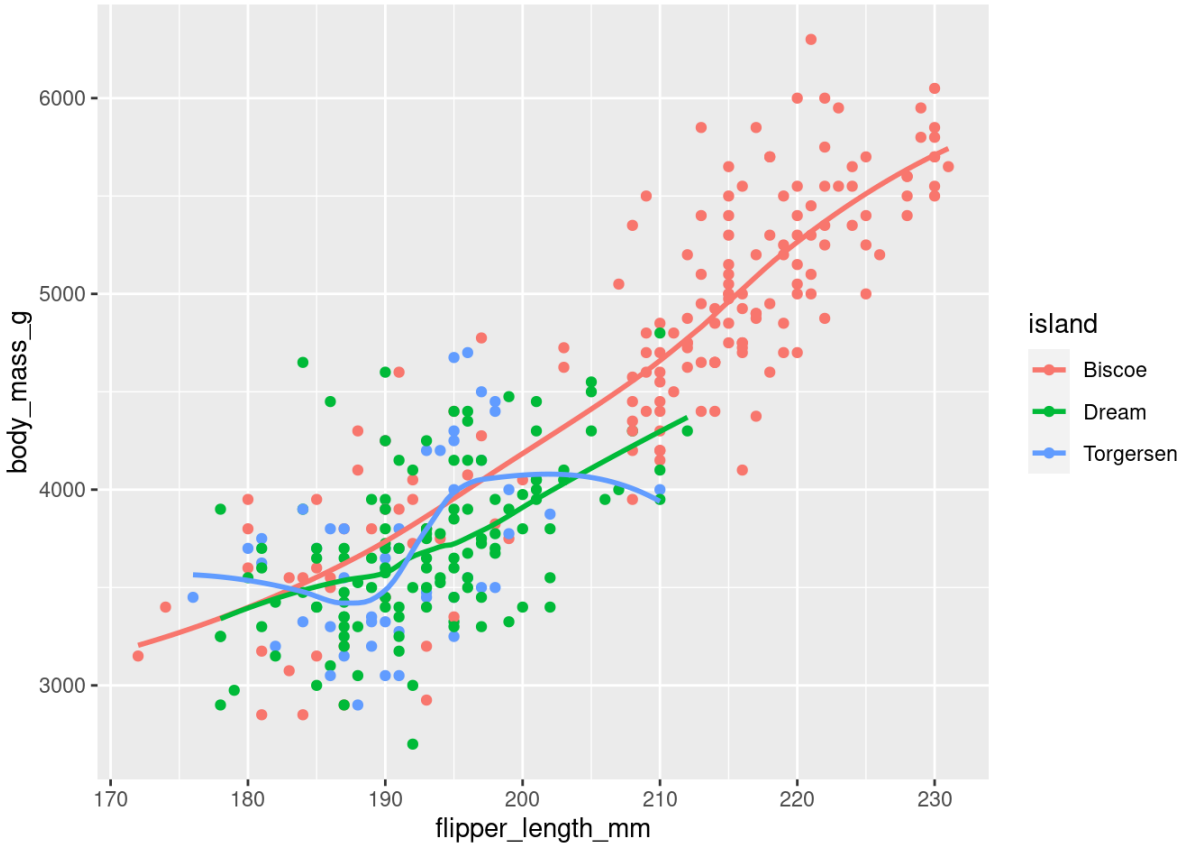



```
ggplot(
    data = penguins,
  mapping = aes(x = flipper_length_mm, y = body_mass_g, color = island)
) +
    geom_point() +
    geom_smooth(se = FALSE)
```

```
## `geom_smooth()` using method = 'loess' and formula = 'y ~ x'
```

```
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
```

```
## Warning: Removed 2 rows containing missing values (`geom_point()`).
```

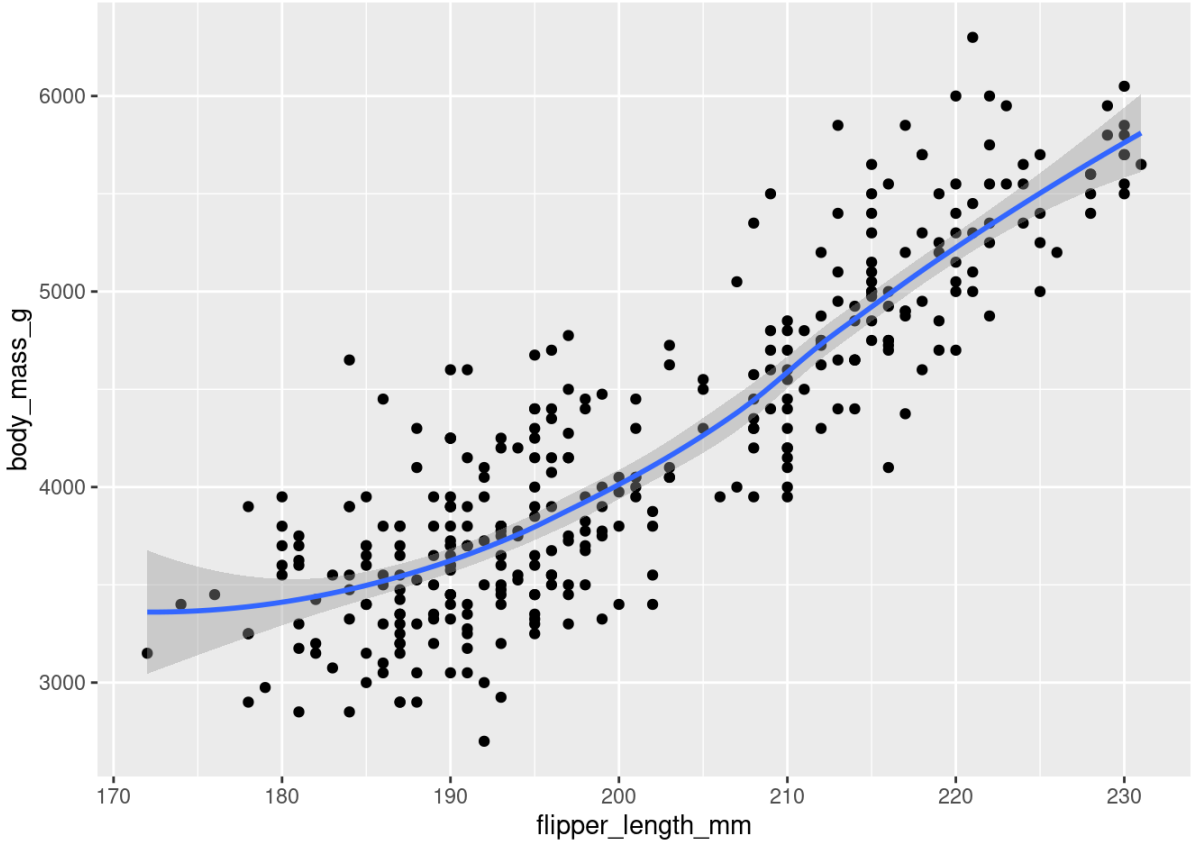



```
ggplot(
    data = penguins,
      mapping = aes(x = flipper_length_mm, y = body_mass_g)
) +
    geom_point() +
    geom_smooth()
```

```
## `geom_smooth()` using method = 'loess' and formula = 'y ~ x'
```

```
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
```

```
## Warning: Removed 2 rows containing missing values (`geom_point()`).
```

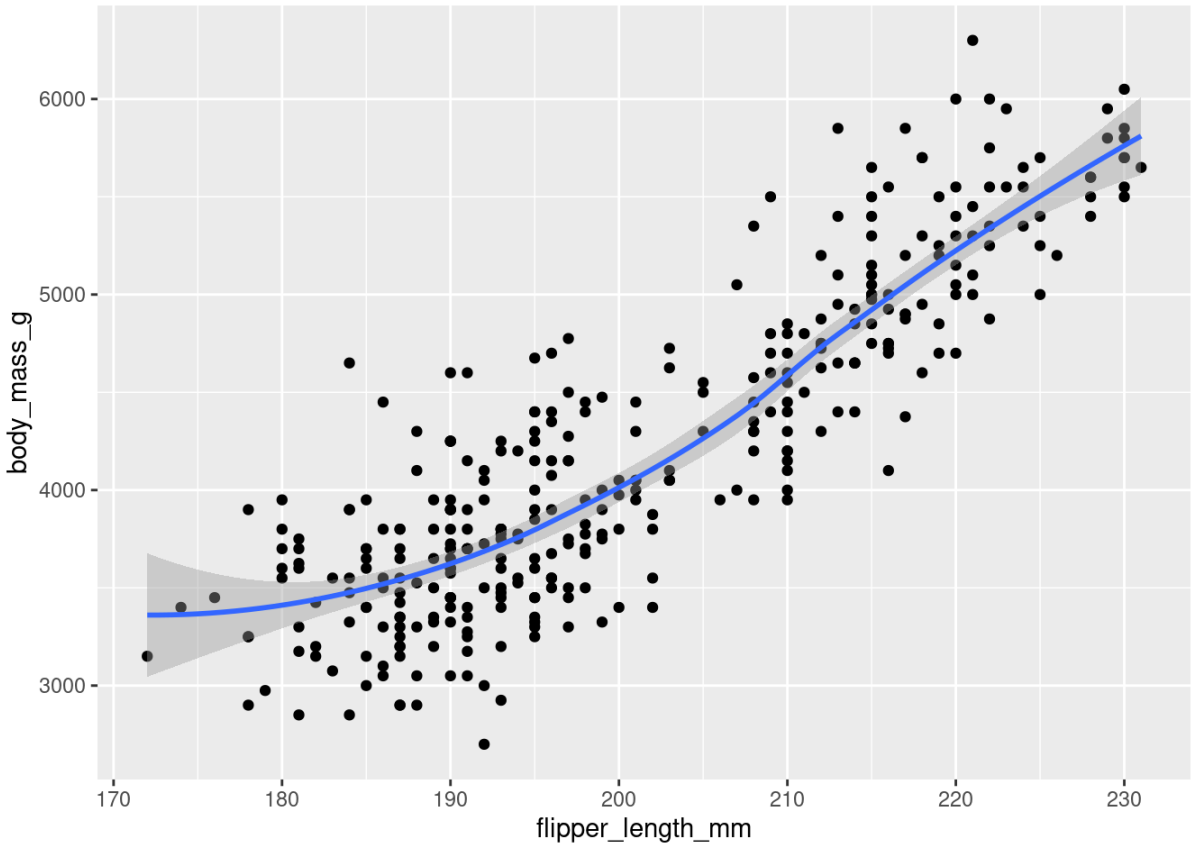



```
ggplot(
) +
geom_point(
    data = penguins,
  mapping = aes(x = flipper_length_mm, y = body_mass_g)
) +
geom_smooth(
        data = penguins,
    mapping = aes(x = flipper_length_mm, y = body_mass_g)  )
```

```
## `geom_smooth()` using method = 'loess' and formula = 'y ~ x'
```

```
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
```

```
## Warning: Removed 2 rows containing missing values (`geom_point()`).
```


6000
5000
4000
3000
body_mass_g
170
180
190
200
210
220
230
flipper_length_mm