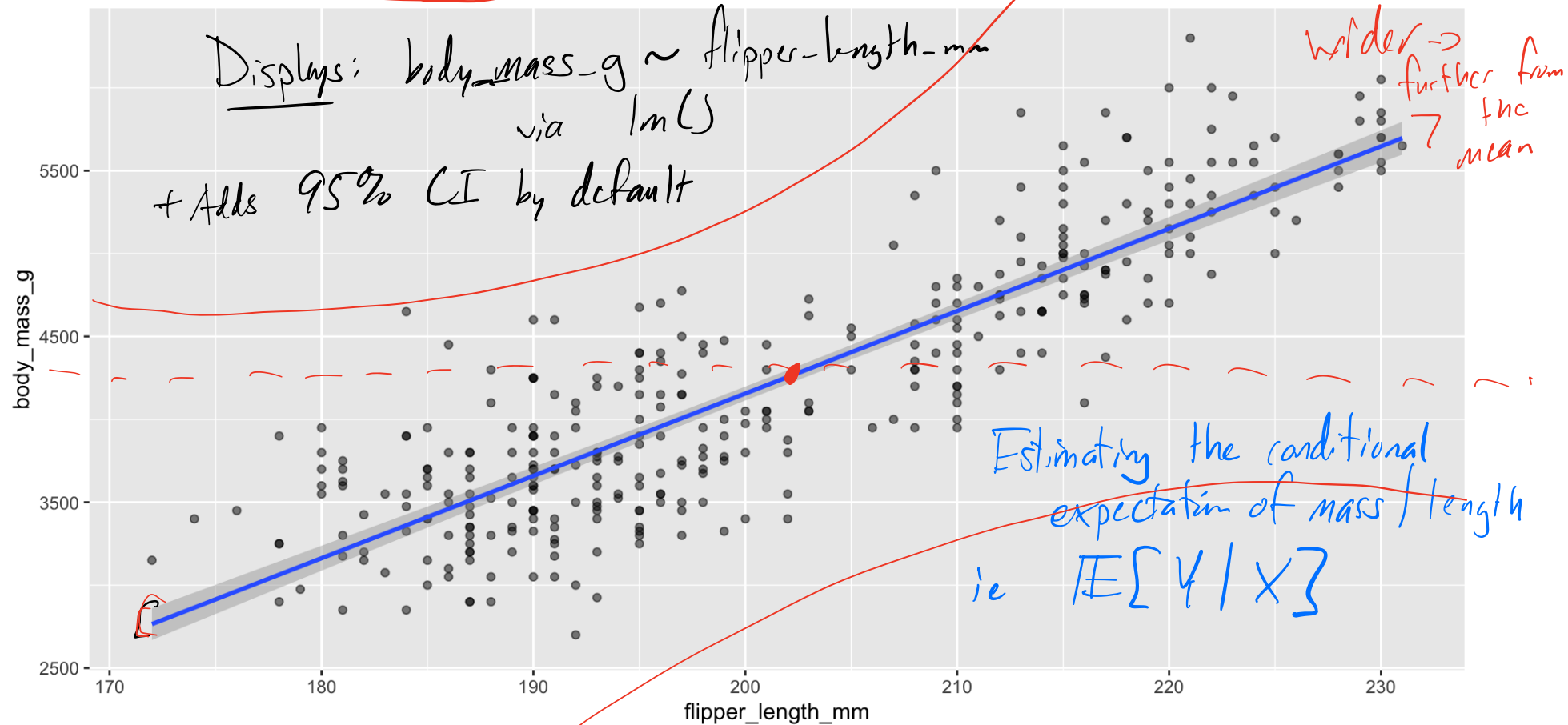


Displaying trend lines: linear regression

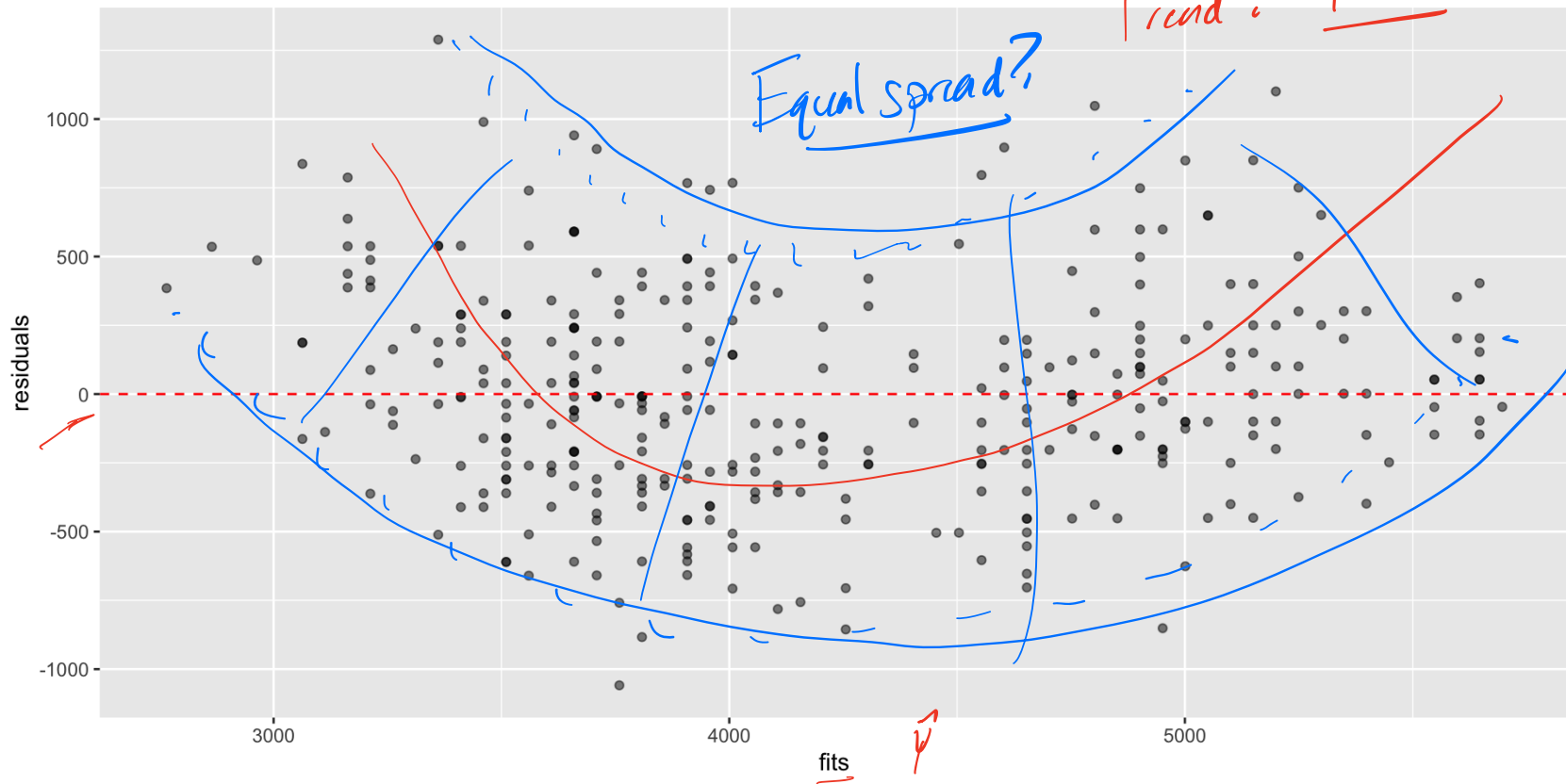
```
1 penguins |>  
2   ggplot(aes(x = flipper_length_mm, y = body_mass_g)) +  
3   geom_point(alpha = 0.5) +  
4   geom_smooth(method = "lm")
```

default arg: level = 0.95, se = TRUE



Residual vs fit plots

```
1 lin_reg <- lm(body_mass_g ~ flipper_length_mm, data = penguins)
2
3 tibble(fits = fitted(lin_reg), residuals = residuals(lin_reg)) |>
4   ggplot(aes(x = fits, y = residuals)) +
5     geom_point(alpha = 0.5) +
6     → geom_hline(yintercept = 0, linetype = "dashed", color = "red")
```



Residual vs fit plots

STOPPED
HERE

```
1 tibble(fits = fitted(lin_reg), residuals = residuals(lin_reg)) |>  
2 ggplot(aes(x = fits, y = residuals)) +  
3   geom_point(alpha = 0.5) +  
4   geom_hline(yintercept = 0, linetype = "dashed", color = "red") +  
5   geom_smooth()
```

nonlinear

