

Length-weight relationship of *Salmo trutta fario*
 from Slovenia, sampled from 20.04.2010 to 28.11.2020
 (n = 8225, length range from 4.80 cm to 65.00 cm,
 specimen condition: mixed)

- Authors: Bojan Marčeta, Žiga Sanda
- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 13.01.2021
- Country: SVN
- Species: *Salmo trutta fario*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 20.04.2010
- Sampled to: 28.11.2020
- n: 8225
- L min [cm]: 4.80
- L max [cm]: 65.00
- W min [g]: 1.00
- W max [g]: 2906.00
- Data transformation: natural logarithm
- a: 0.0087486
- b: 3.0471826

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.9684 -0.0662 -0.0021  0.0630  0.9017
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -4.73886    0.00982   -483 <2e-16 ***
## ln_l_x       3.04718    0.00342    892 <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.112 on 8223 degrees of freedom
## Multiple R-squared:  0.99,    Adjusted R-squared:  0.99
## F-statistic: 7.95e+05 on 1 and 8223 DF,  p-value: <2e-16
```

ANOVA:

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
ln_l_x	1	9912.7317	9912.7317443	795347.3	0
Residuals	8223	102.4865	0.0124634	NA	NA

Visualization

