

Length-weight relationship of *Tinca tinca*
 from Slovenia, sampled from 17.05.2011 to 05.11.2020
 (n = 249, length range from 7.10 cm to 49.80 cm,
 specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 19.01.2021
- Country: SVN
- Species: *Tinca tinca*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 17.05.2011
- Sampled to: 05.11.2020
- n: 249
- L min [cm]: 7.10
- L max [cm]: 49.80
- W min [g]: 5.36
- W max [g]: 2317.00
- Data transformation: natural logarithm
- a: 0.0141960
- b: 3.0268324

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.4803 -0.0757  0.0254  0.0934  0.4494
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.2548     0.0594   -71.6   <2e-16 ***
## ln_l_x         3.0268     0.0199   152.2   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.155 on 247 degrees of freedom
## Multiple R-squared:  0.989, Adjusted R-squared:  0.989
## F-statistic: 2.32e+04 on 1 and 247 DF, p-value: <2e-16
```

ANOVA:

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
ln_l_x	1	559.709931	559.70993052	23164.96	3.801348e-246
Residuals	247	5.967994	0.02416192	NA	NA

Visualization

