

Length-weight relationship of *Tinca tinca*
from Slovenia, sampled from 17.05.2011 to 22.08.2023
(n = 325, length range from 7.00 cm to 50.40 cm,
specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 08.11.2024
- 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: 22.08.2023
- n: 325
- L min [cm]: 7.00
- L max [cm]: 50.40
- W min [g]: 2.60
- W max [g]: 2458.00
- Data transformation: natural logarithm
- a: 0.0125098
- b: 3.0560735

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.6101 -0.1203  0.0347  0.1138  0.4983
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.3812     0.0582   -75.2   <2e-16 ***
## ln_l_x         3.0561     0.0191   160.1   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.175 on 323 degrees of freedom
## Multiple R-squared:  0.988, Adjusted R-squared:  0.988
## F-statistic: 2.56e+04 on 1 and 323 DF, p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value      Pr(>F)
## ln_l_x         1 787.905424 787.90542357 25636.07 9.511003e-310
## Residuals 323    9.927164    0.03073426      NA      NA
```

Visualization

