

Length-weight relationship of *Carassius gibelio*
 from Slovenia, sampled from 20.04.2010 to 20.10.2020
 (n = 522, length range from 4.10 cm to 45.50 cm,
 specimen condition: mixed)

- Authors: Bojan Marčeta, Žiga Sanda
- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 18.01.2021
- Country: SVN
- Species: *Carassius gibelio*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 20.04.2010
- Sampled to: 20.10.2020
- n: 522
- L min [cm]: 4.10
- L max [cm]: 45.50
- W min [g]: 1.00
- W max [g]: 1784.00
- Data transformation: natural logarithm
- a: 0.0118653
- b: 3.1352992

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.4108 -0.0930 -0.0121  0.0909  0.5070
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.4341     0.0278   -159 <2e-16 ***
## ln_l_x         3.1353     0.0103    304 <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.145 on 520 degrees of freedom
## Multiple R-squared:  0.994, Adjusted R-squared:  0.994
## F-statistic: 9.23e+04 on 1 and 520 DF, p-value: <2e-16
```

ANOVA:

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
ln_l_x	1	1942.65901	1.942659e+03	92285.73	0
Residuals	520	10.94625	2.105048e-02	NA	NA

Visualization

