

Length-weight relationship of *Zeus faber*
from Slovenia, sampled from 24.04.1995 to 31.01.2024
(n = 389, length range from 4.40 cm to 36.00 cm,
specimen condition: mixed)

- Authors: Bojan Marčeta, Žiga Sanda, Petra Pavšič
- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 26.11.2024
- Country: SVN
- Species: *Zeus faber*
- Length type: TLmax (biometry_id = 78)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 24.04.1995
- Sampled to: 31.01.2024
- n: 389
- L min [cm]: 4.40
- L max [cm]: 36.00
- W min [g]: 1.30
- W max [g]: 711.00
- Data transformation: natural logarithm
- a: 0.0276768
- b: 2.8236695

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.4212 -0.0741  0.0052  0.0665  0.7225
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -3.5872     0.0359   -100    <2e-16 ***
## ln_l_x         2.8237     0.0132    214    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.114 on 387 degrees of freedom
## Multiple R-squared:  0.992, Adjusted R-squared:  0.992
## F-statistic: 4.6e+04 on 1 and 387 DF,  p-value: <2e-16
```

ANOVA:

```
##           Df      Sum Sq      Mean Sq  F value Pr(>F)
## ln_l_x     1 601.081755 601.08175463 45964.41     0
## Residuals 387  5.060843  0.01307711      NA     NA
```

Visualization

