

Length-weight relationship of *Pagellus acarne*
 from Slovenia, sampled from 11.05.1998 to 21.10.2020
 (n = 699, length range from 5.10 cm to 19.40 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: *Pagellus acarne*
- Length type: TLmax (biometry_id = 78)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 11.05.1998
- Sampled to: 21.10.2020
- n: 699
- L min [cm]: 5.10
- L max [cm]: 19.40
- W min [g]: 1.50
- W max [g]: 92.00
- Data transformation: natural logarithm
- a: 0.0085647
- b: 3.1475966

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.24410 -0.05650  0.00016  0.06070  0.30507
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.7601     0.0364   -131 <2e-16 ***
## ln_l_x         3.1476     0.0146    215 <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.0858 on 697 degrees of freedom
## Multiple R-squared:  0.985, Adjusted R-squared:  0.985
## F-statistic: 4.64e+04 on 1 and 697 DF, p-value: <2e-16
```

ANOVA:

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
ln_l_x	1	341.700006	3.417000e+02	46418.72	0
Residuals	697	5.130795	7.361255e-03	NA	NA

Visualization

