

Length-weight relationship of *Cepola macrophthalma*
from Slovenia, sampled from 21.08.1996 to 06.04.2001
(n = 101, length range from 14.10 cm to 58.40 cm,
specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 13.01.2021
- Country: SVN
- Species: *Cepola macrophthalma*
- Length type: SL (biometry_id = 74)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 21.08.1996
- Sampled to: 06.04.2001
- n: 101
- L min [cm]: 14.10
- L max [cm]: 58.40
- W min [g]: 6.20
- W max [g]: 119.00
- Data transformation: natural logarithm
- a: 0.0400784
- b: 1.9575546

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.3374 -0.1065  0.0048  0.1119  0.3464
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -3.2169     0.1544  -20.8   <2e-16 ***
## ln_l_x         1.9576     0.0442   44.3   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.146 on 99 degrees of freedom
## Multiple R-squared:  0.952, Adjusted R-squared:  0.951
## F-statistic: 1.96e+03 on 1 and 99 DF,  p-value: <2e-16
```

ANOVA:

```
##           Df    Sum Sq   Mean Sq F value    Pr(>F)
## ln_l_x     1 41.575331 41.57533068 1961.829 4.491277e-67
## Residuals 99  2.098021  0.02119213      NA      NA
```

Visualization

