

ESTIMATION STATS / PLOT

Two groups

This page does estimation statistics' counterpart to Student's t-test: the two-independent-groups mean difference plot. [Find out more.](#)

① Enter your data.

Each column of your data must correspond to one group of observations, and the first row must be names of the groups; see preloaded data for an example.

☒ Copy-paste ☐ Upload CSV

	A	B
10	44.82	60.12
11	69.43	84.97
12	71.78	73.83
13	80.59	86.42
14	83.94	87.79
15	79.43	83.56
16	67.34	81.67
17	37.85	48.28
18	61.86	81.31
19	70.84	76.38
20	84.97	85.01

② Effect Size.

Choose your effect size. Mouse-over each effect size for a short description, or click [here](#).

- ☒ Mean difference ☐ Median difference
☐ Cohen's d ☐ Hedges' g ☐ Cliff's delta

③ Confidence interval width.

Choose an number between 50 and 99.9; the default is a 95% CI.



95

④ Swarmplot dot size.

Change the size (in points) of the swarmplot data points.



5

⑤ Effect size dot size.

Change the size (in points) of the effect size marker(s).



8

⑥ Main y-axis limits.

If left blank, the limits are auto-scaled.

lower limit

upper limit

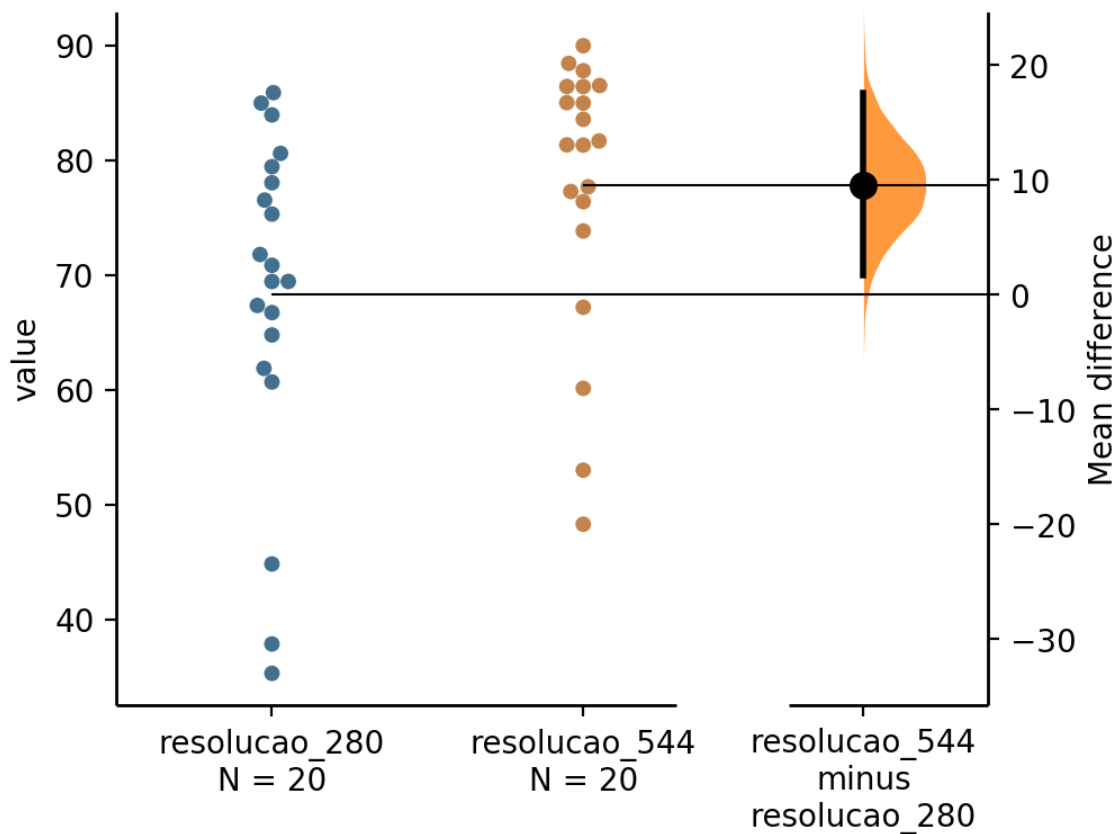
⑦ Label for the main plot y-axis.

If left blank, defaults to "value".

y-axis label

⑧ Analyze and display your data.





Suggested Figure Legend:

The mean difference between resolucao_280 and resolucao_544 is shown in the above Gardner-Altman estimation plot. Both groups are plotted on the left axes; the mean difference is plotted on a floating axes on the right as a bootstrap sampling distribution. The mean difference is depicted as a dot; the 95% confidence interval is indicated by the ends of the vertical error bar.

Results:

The unpaired mean difference between resolucao_280 and resolucao_544 is 9.58 [95.0%CI 1.71, 17.6].

The two-sided *P* value of the [Mann-Whitney test](#) is 0.011.

The effect sizes and CIs are reported above as: *effect size* [*CI width lower bound; upper bound*]

5000 bootstrap samples were taken; the confidence interval is bias-corrected and accelerated.

The P value(s) reported are the likelihood(s) of observing the effect size(s), *if the null hypothesis of zero difference is true*; they are included here to satisfy a common requirement of scientific journals.

⑨ Download results.

Plots are available in SVG or PNG formats.

The table of statistics can be downloaded as a CSV text file.

☒ PNG ☐ SVG ☐ CSV



Two groups Paired Multi Two groups Multi Paired
Shared control