



# **Single Case Design in educational context**

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**Output and material  
produced**



# Contribution of Unipa unit to the BEHAVE project

- Report containing the script in R-code embedded in the BEHAVE application, the Montecarlo study, and the description of the reviewed measures;
- Database of 100 real cases on which the script has been tested;
- Excel file containing all the reviewed paper correlated with a folder containing the papers themselves

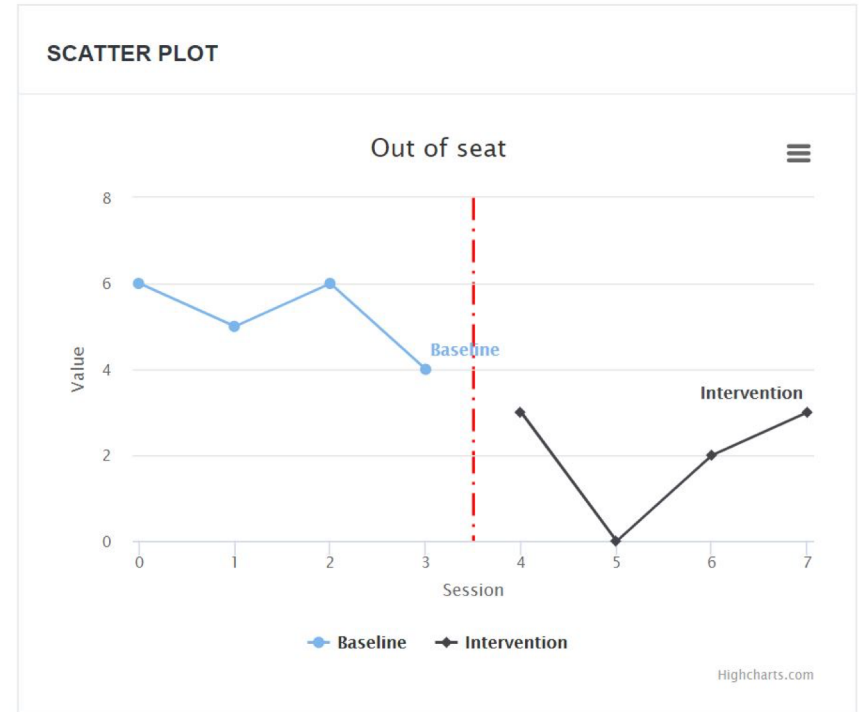
# Single case design



# Key terms

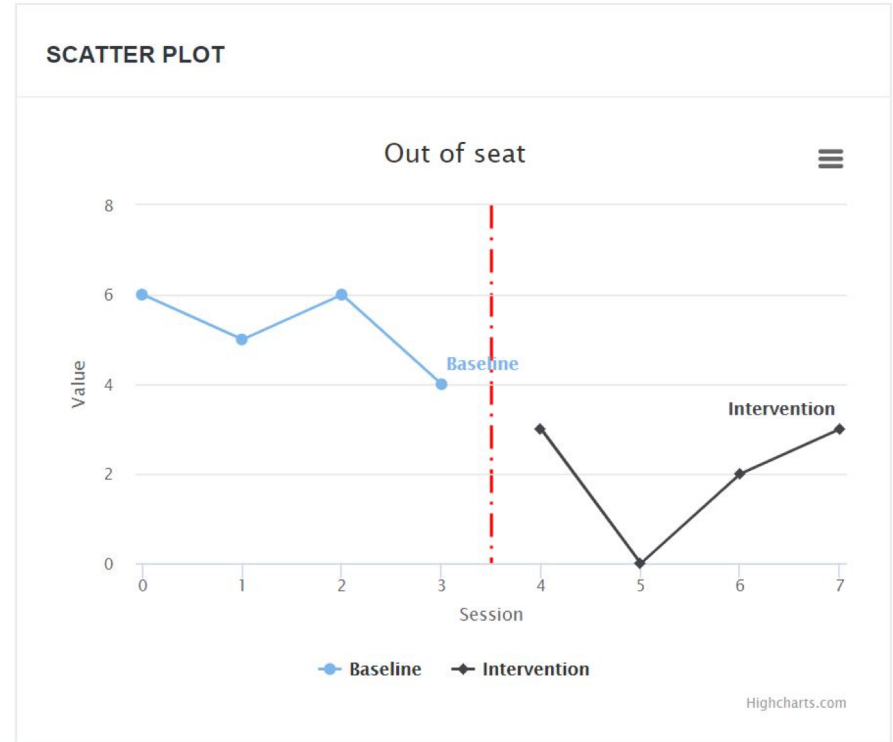
- **Single case design**: Research design in which the subject is also his/her own control
- **AB design**: design in which 2 phases are compared

This basic design can be modified by including more A and/or B phases leading to **ABA** or **ABAB** designs



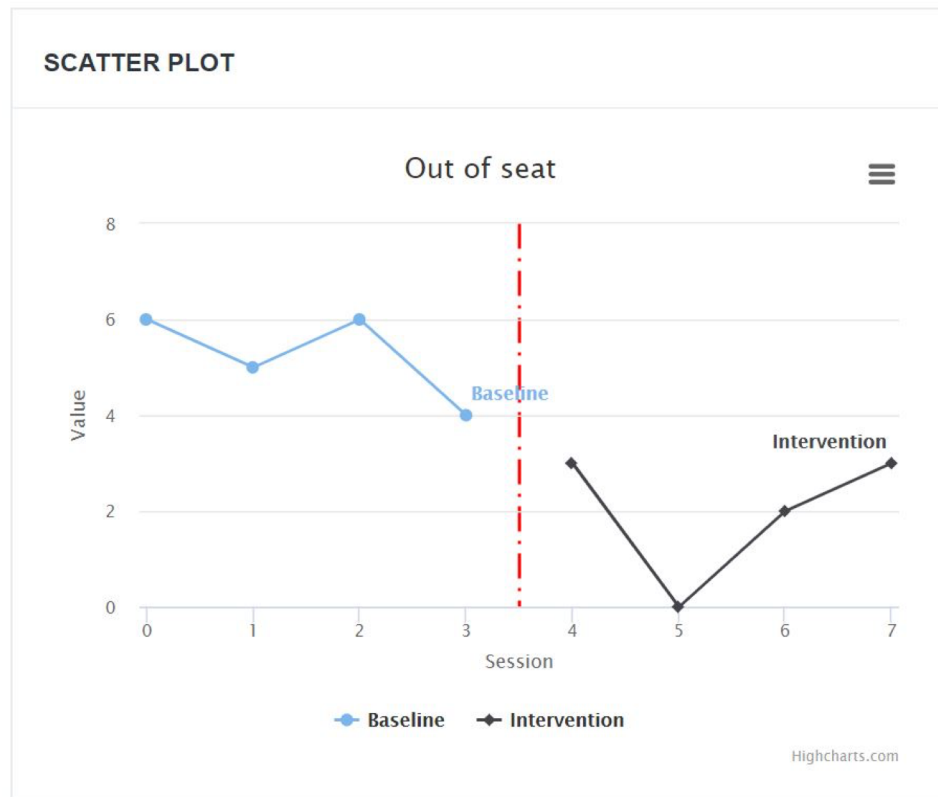
# Key terms

- **Baseline phase:** Data collected consecutively when the intervention is not implemented.
- **Intervention phase:** Data collected consecutively when the intervention is implemented.
- **Withdraw treatment:** return to baseline phase



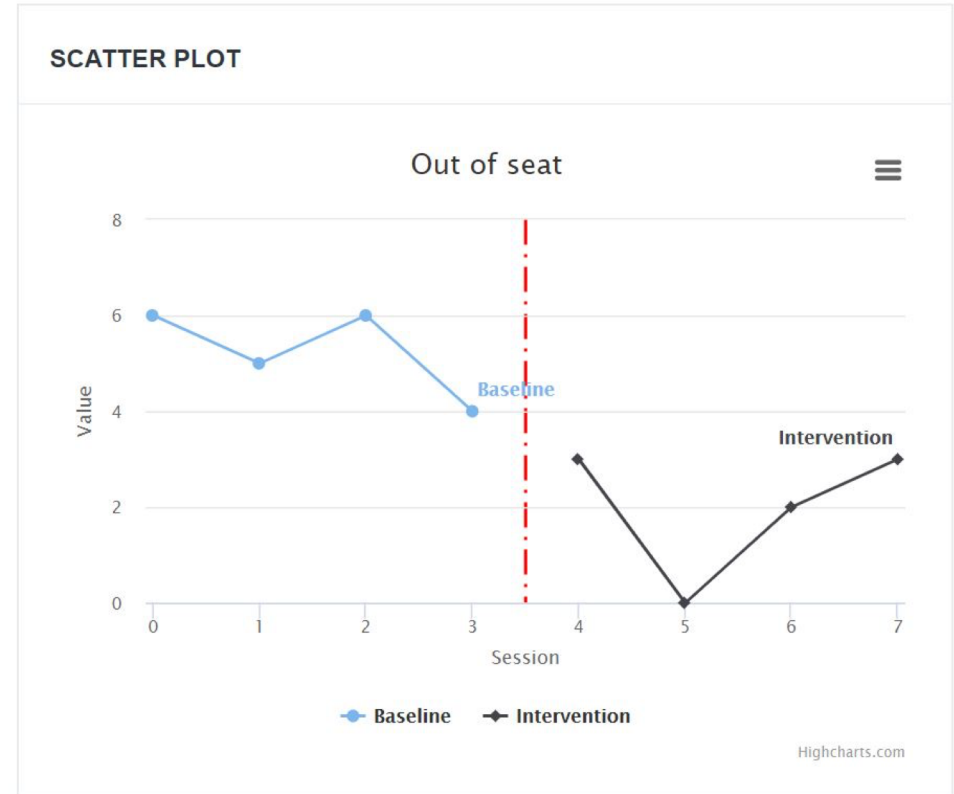
# Key terms

- **Single case design**: Research design in which the subject is also his/her own control
- **AB design**: design in which 2 conditions in 2 phases are compared
- **ABA design**: design in which 2 different alternating conditions in 3 phases are compared
- **ABAB design**: design in which 2 different alternating conditions in four phases are compared



# AB design

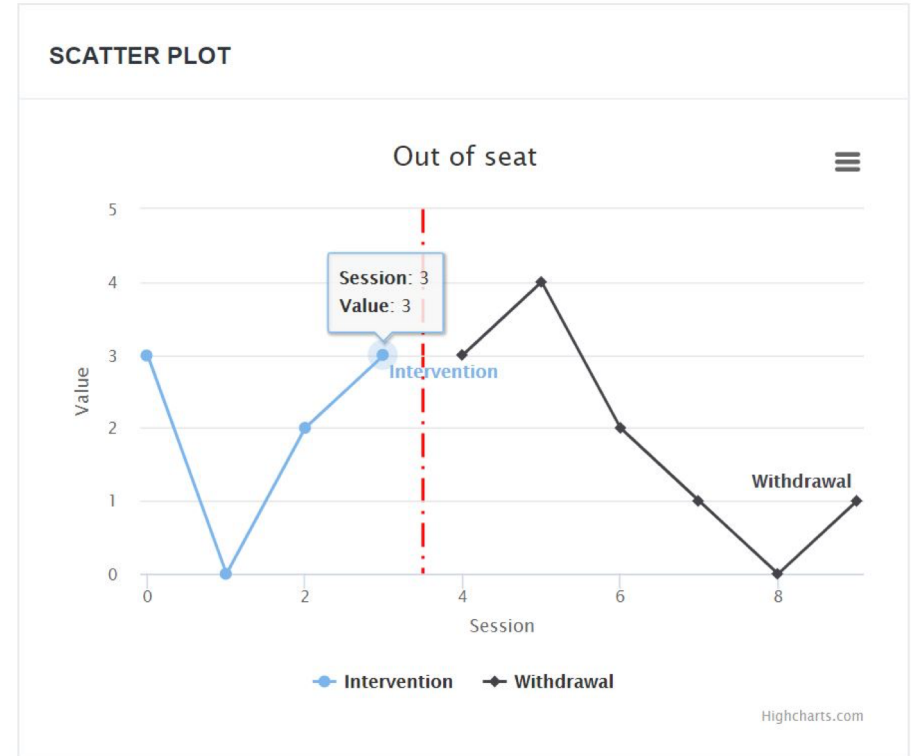
Comparison between 2 phases: A and B





# AB design

Comparison between 2 phases: A and B



# **Other applications of the single case design in educational contexts**



# AB design



Students

Measures

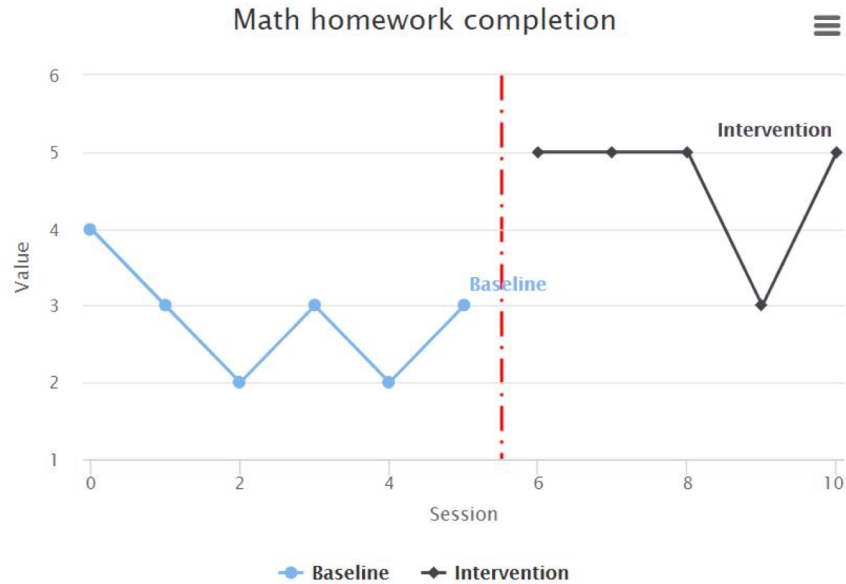
Online guide

Isabella Giammusso

EN

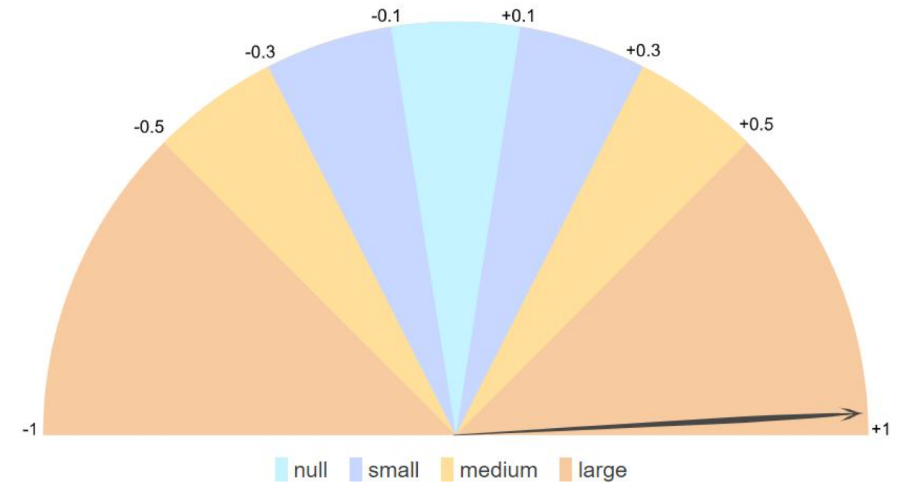


## SCATTER PLOT



Highcharts.com

## SPEEDOMETER: AVSB



The effect size is: 0.966.

The treatment has a large effect on the increase of the behaviour occurrence



# AB design



Students

Measures

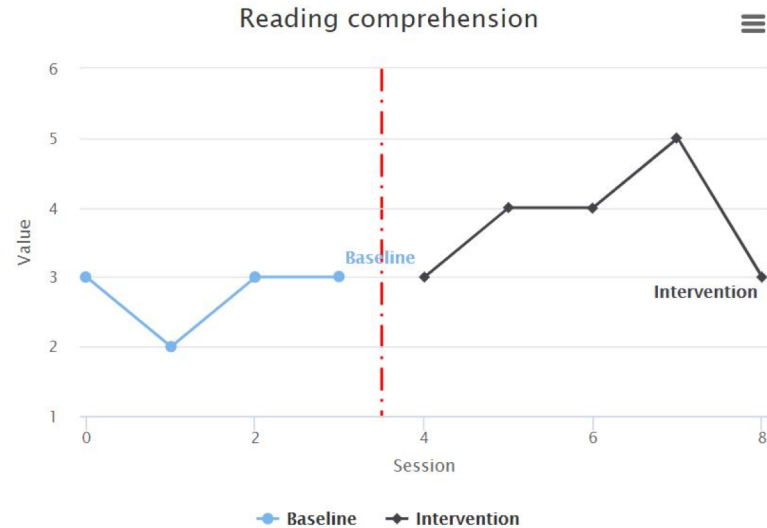
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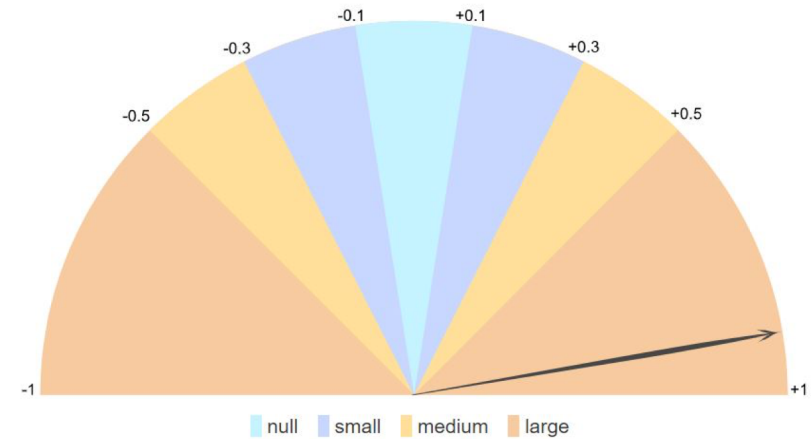


SCATTER PLOT



Highcharts.com

SPEEDOMETER: AVSB

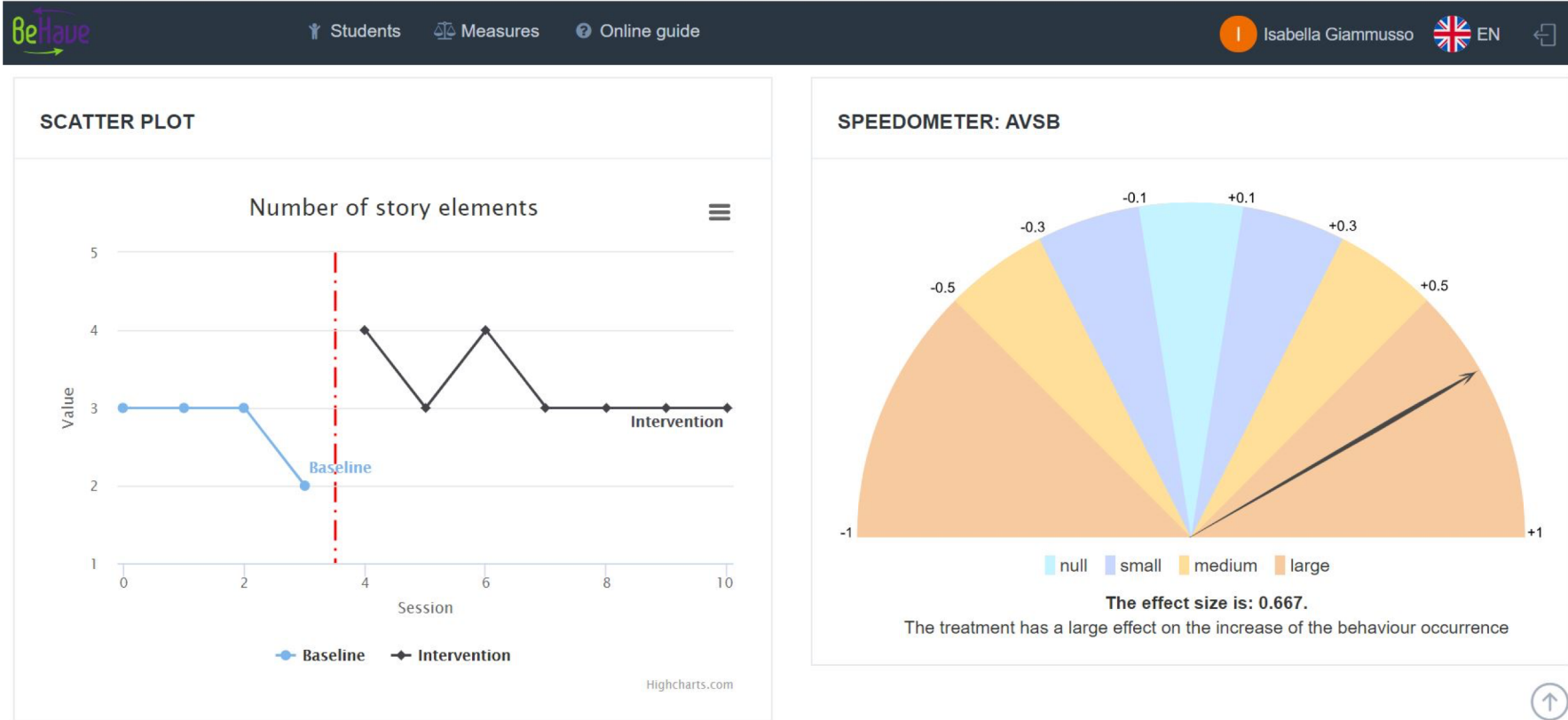


The effect size is: 0.892.

The treatment has a large effect on the increase of the behaviour occurrence

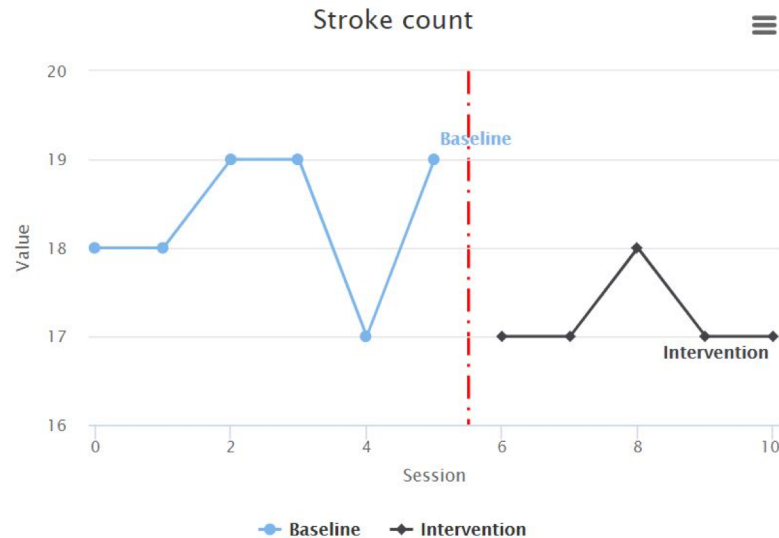


# AB design

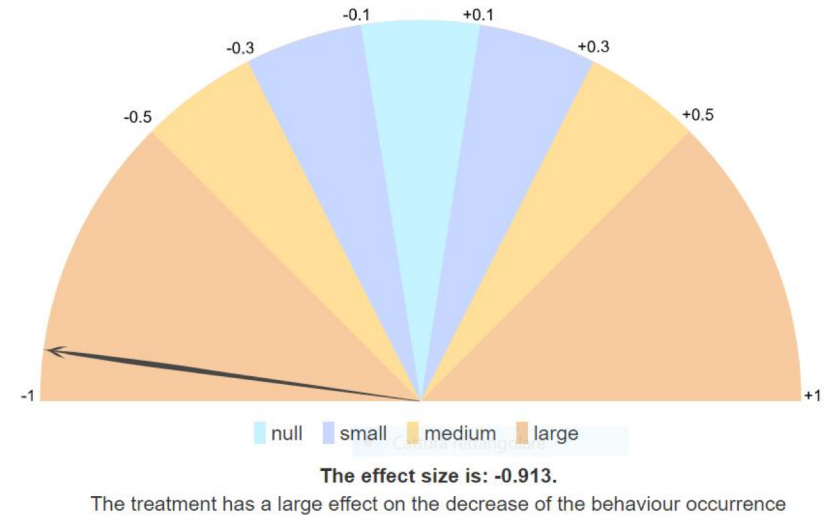


# AB design

SCATTER PLOT



SPEEDOMETER: AVSB



***THANK YOU***

