

Statistical Test Result #184 — Analysis Report

Generated 2026-09-21 02:38:03 · 1 run(s) · CAT-G Data Analyzer

1. anova (#184)

2026-09-21 02:16:35 · statistical_test · status: completed

The anova on value across group groups was statistically significant ($p < 0.001$).

statistic	58.775702
p_value	0.0
significant	True
num_groups	4
value_col	value
group_col	group

group stats

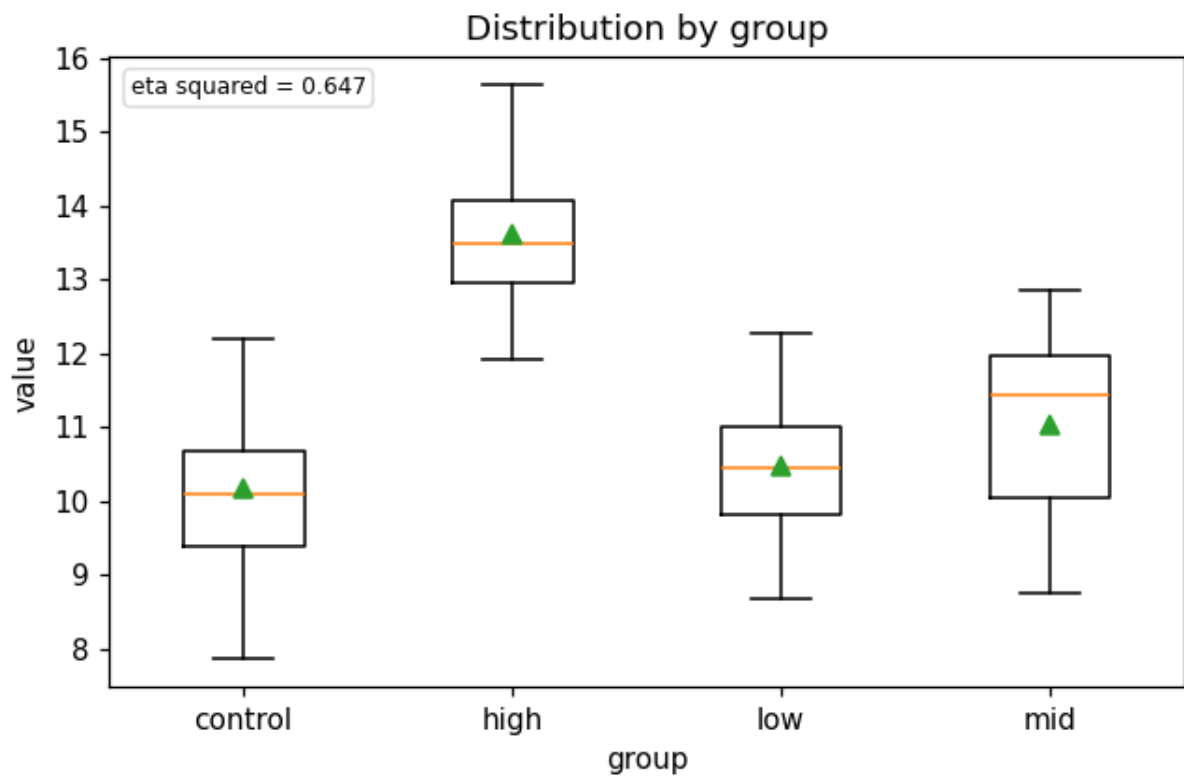
group	n	mean	sd	median	min	max
control	25	10.164134	1.012099	10.097676	7.876104	12.189803
high	25	13.606847	0.877117	13.486133	11.932558	15.628616
low	25	10.471072	0.995267	10.446981	8.686865	12.276171
mid	25	11.045181	1.179363	11.445376	8.760768	12.860748

effect size

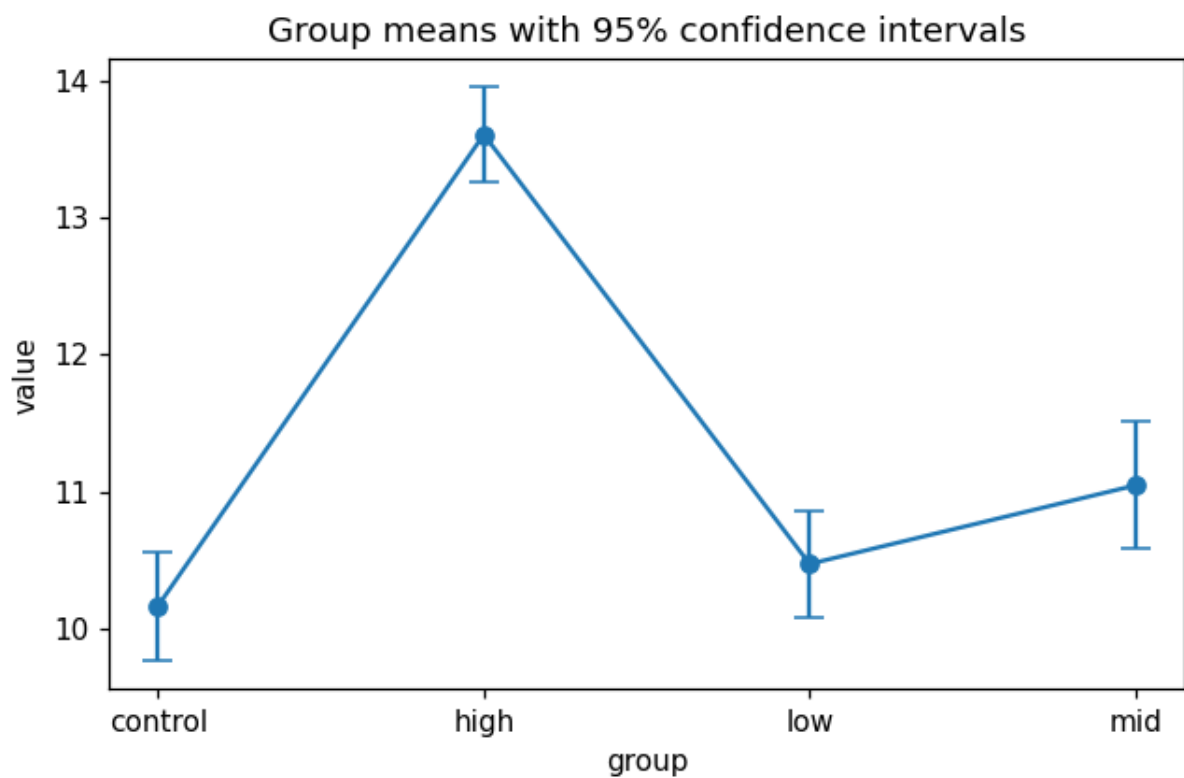
name	value
name	eta_squared
value	0.647483

posthoc

group_a	group_b	meandiff	p_adj	reject	method
control	high	3.4427	0.0	True	tukey_hsd
control	low	0.3069	0.7132	False	tukey_hsd
control	mid	0.881	0.0155	True	tukey_hsd
high	low	-3.1358	0.0	True	tukey_hsd
high	mid	-2.5617	0.0	True	tukey_hsd
low	mid	0.5741	0.2002	False	tukey_hsd



group boxplot



mean ci

Method & Provenance

method	One-way ANOVA
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engine	Python · scipy 1.17.1
datasets	gallery — example_posthoc.csv
started	2026-09-21 02:16:35.150878
permanent link	https://cat-g-omxpert.wishartlab.com/results/by-token/85cb34714fa74c32ab5bce84daef

Parameter	Value
test_type	anova
value_col	value
group_col	group

Command history

```
# python
from scipy import stats

# python
stat, p = stats.f_oneway(*groups)
```