

We want to run an ANOVA test,
but the assumption of Normal
distribution is violated.

Nonparametric alternative of
the ANOVA test:

Kruskal-Wallis test

H_0 : The medians are the same

H_1 : The medians differ

Rejection of $H_0 \Leftrightarrow p\text{-value} \leq 0.05$