

The p-value controversy: basics, overview, and recommendations

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We make a general overview of the recent *p-value controversy* from the perspective of the statistical community. After briefly reviewing p-values we discuss how they were blamed, among other things, for the replicability crisis in science.

We give a detailed account of some objective limitations, common pitfalls, bad practices, and requirements.

We conclude with a critical discussion of suggestions for data analysis, mostly taken from the recent statistical literature.