

BACON

HOBBES

"Words are but images of matter, to fall in love in them is to fall in love with a picture."



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"I am about to take my last voyage, a great leap in the dark."



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"Science is perhaps the only human activity in which errors are systematically criticized and... in time corrected"



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See something. Think of a reason why. Figure out a way to check your reason. Now, everyone gets to dump on you. Repeat until consensus formed.





Methodology & Objectivity



Are'I've just completed Mike's nature trick of adding in the real temps to John P A each series for the last 20 years (i.e. from 1981 onwards) and from

1961 for Keith's to hide the decline." is problem and

Modeling the Framework for False ~Phil Jones, Director, Climate Research

field. In this framework, a research finding is less like" The fact is we can't account for the lack of warming at the moment. The conducted in a field are smaller when

Several methodologists have pointed out [9–11] that the high rate of nonreplication (lack of confirmation) of research discoveries is a consequence of the convenient, yet ill-founded strategy of claiming

and it is a travesty that we can't !" significance, typically for a *p*-value less than 0.05. Research is not most appropriately represented

notion that medical research articles

most claimed research findings are false.

should be interpreted based only on *p*-values. Research findings are defined

is characteristic of the field and can vary a lot depending on whether the field targets highly likely relationships or searches for only one or a few true relationships among thousands and millions of hypotheses that may be postulated. Let us also consider, for computational simplicity, circumscribed fields where either there is only one true relationship (among many that can be hypothesized) or

pre-study probability of a relationship being true is R/(R+1). The probability of a study finding a true relationship ~Kevin Trenberth, National Center for Atmospheric Research^{1-β} (one minus

of claiming a relationship when none truly exists reflects the Type I error rate, α . Assuming that *c* relationships are being probed in the field, the expected values of the 2×2 table are given in Table 1. After a research finding has been claimed based on achieving formal statistical significance, the post-study probability that it is true is the positive productive value DDV



"We are skeptical of claims for the ability of random mutation and natural selection to account for the complexity of life. Careful examination of the evidence for Darwinian theory should be encouraged."

"Evolution is a vital, well-supported, unifying principle of the biological sciences, and the scientific evidence is overwhelmingly in favor of the idea that all living things share a common ancestry. Although there are legitimate debates about the patterns and processes of evolution, there is no serious scientific doubt that evolution occurred or that natural selection is a major mechanism in its occurrence. It is scientifically inappropriate and pedagogically irresponsible for creationist pseudoscience, including but not limited to "intelligent design," to be introduced into the science curricula of our nation's public schools."

Spoiler Alert

