Piled Higher and Deeper by Jorge Cham

ANOVA: ANALYSIS OF VALUE

IS YOUR RESEARCH WORTH ANYTHING?

Developed in 1912 by geneticist R.A. Fisher, the Analysis of Value is a powerful statistical tool designed to test the significance of one's work.



am i wasting my time?

Significance is determined by comparing one's research with the **Dull Hypothesis**:

$$H_0: \mu_1 = \mu_2$$
 ?

where.

Ho: the Dull Hypothesis

 μ_4 : significance of your research

tt₂: significance of a monkey typing randomly on a typewriter in a forest where no one hears it.

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The test involves computation of the F'd ratio:

sum(people who care about your research)
F'd =

world population

This ratio is compared to the F distribution with I-1, N_1 degrees of freedom to determine a $p(in\ your\ pants)$ value. A low $p(in\ your\ pants)$ value means you're on to something good (though statistically improbable).

Type I/II Errors

The Analysis of Value must be used carefully to avoid the following two types of errors:

Type I: You incorrectly believe your

research is not Dull.

Type II: No conclusions can be made

Good luck graduating.

Of course, this test assumes both Independence and Normality on your part, neither of which is likely true, which means it's not your problem.

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