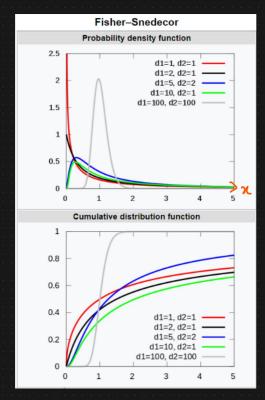


F distribution

In probability theory and statistics, the F-distribution or F-ratio, also known as Snedecor's F distribution or the Fisher–Snedecor distribution (after Ronald Fisher and George W. Snedecor) is a continuous probability distribution that arises frequently as the null distribution of a test statistic, most notably in the analysis of variance (ANOVA) and other F-tests.



Paremeters: di,d2 >0 => degree of friedom Support 26 (0, +00)

$$f(x;d_1,d_2) = \frac{\sqrt{\frac{(d_1x)^{d_1}}{(d_1x+d_2)^{d_1+d_2}}}}{x^{\frac{1}{2}}}$$
Beta further
$$B(m,n) = \frac{(m-1)!(n-1)!}{(m+n-1)!} = \frac{m+n}{mn} \bigg/ \binom{m+n}{m}.$$

F distribution with di and de degree of freedom is the distribution of SIASE =) Independent random Variables

X = SI/d1 With Chi square distribution

SI/d2 di and de =) Respective degree

Of freedom

F-tut [Variance Rato Tust]