**Cohen’s f2 method of effect size:** Cohen’s f2 method measures the effect size when we use methods like ANOVA, multiple regression, etc.

The Cohen’s f2 measure effect size for multiple regressions is defined as the following:

http://www.statisticssolutions.com/wp-content/uploads/2010/02/chi_h.jpg

Where R2 is the [squared multiple correlation](http://en.wikipedia.org/wiki/Squared_multiple_correlation).

The *f*2 effect size measure for hierarchical multiple regression is defined as:

f^2 = {R^2_{AB} - R^2_A \over 1 - R^2_{AB}}

where *R*2*A* is the variance accounted for by a set of one or more independent variables *A*, and *R*2*AB* is the combined variance accounted for by *A* and another set of one or more independent variables *B*.

By convention, *ƒ*2*A* effect sizes of 0.02, 0.15, and 0.35 are termed *small*, *medium*, and *large*, respectively