R-Code for the T-Distribution:

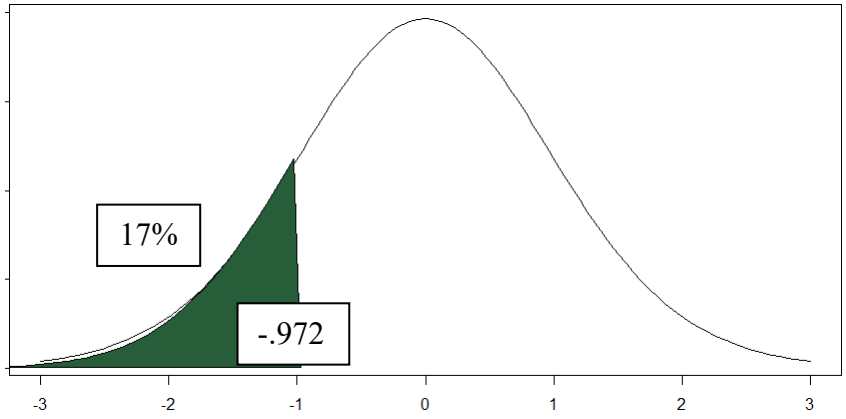
PT:

Input: pt(t-statistic, degrees of freedom)

Output: the area to the LEFT of the t-statistic

Example: Find the percentage of points that fall below a t-score of -.972, with 19 degrees of freedom.

pt(-.972, 19) = **0.17**



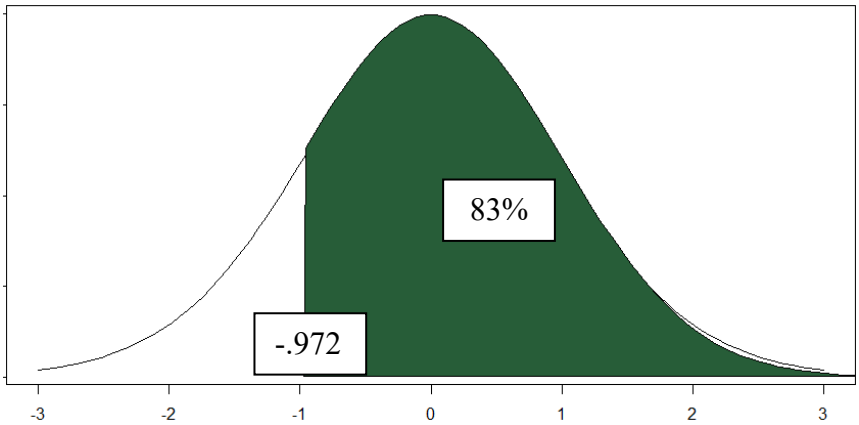
**If you want the area to the RIGHT

pt(t-statistic, degrees of freedom, lower.tail=FALSE)

1-pt(t-statistic, degrees of freedom)

Example: Find the area above a t-statistic with a value of -.972 and 19 degrees of freedom

pt(-.972, 19, lower.tail=FALSE) = **.83**



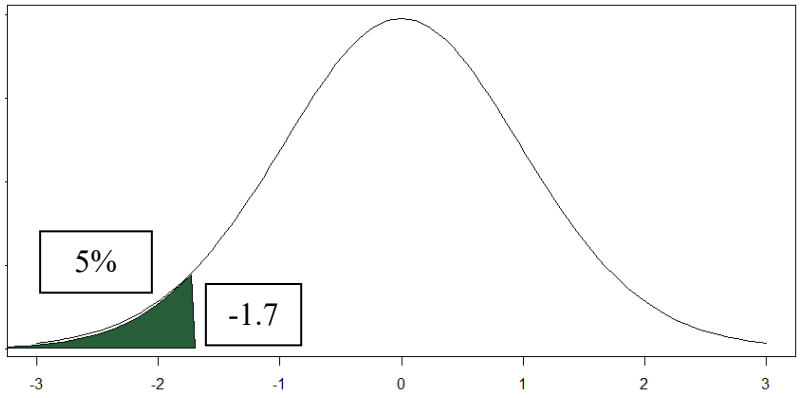
QT:

Input: qt(critical value, degrees of freedom)

Output: t-score

Example: What is the t-score for $\alpha = .05$ with 29 degrees of freedom?

qt(.05, df=29) = **-1.7**



**To adjusting qt for a two tailed test- divide alpha by 2

qt(.025, df=29) = **-2.05**

qt(.0975, df=29) = **2.05**