

Type	Parametric	Non parametric
not paired	<b>mean comparison:</b> $t$ test (equivalent to ANOVA with 1 factor; strongly connected to linear models): $X$ is Gaussian and variances between groups are equal OR <b>Welsh test</b> (same test but with unequal variances between groups)	often described as <b>median comparison:</b> <b>Wilcoxon test</b> (or <b>Mann Whitney test</b> ) based on ranks
paired	<b>mean comparison:</b> $t$ test	often described as <b>median comparison:</b> <b>Wilcoxon test</b>