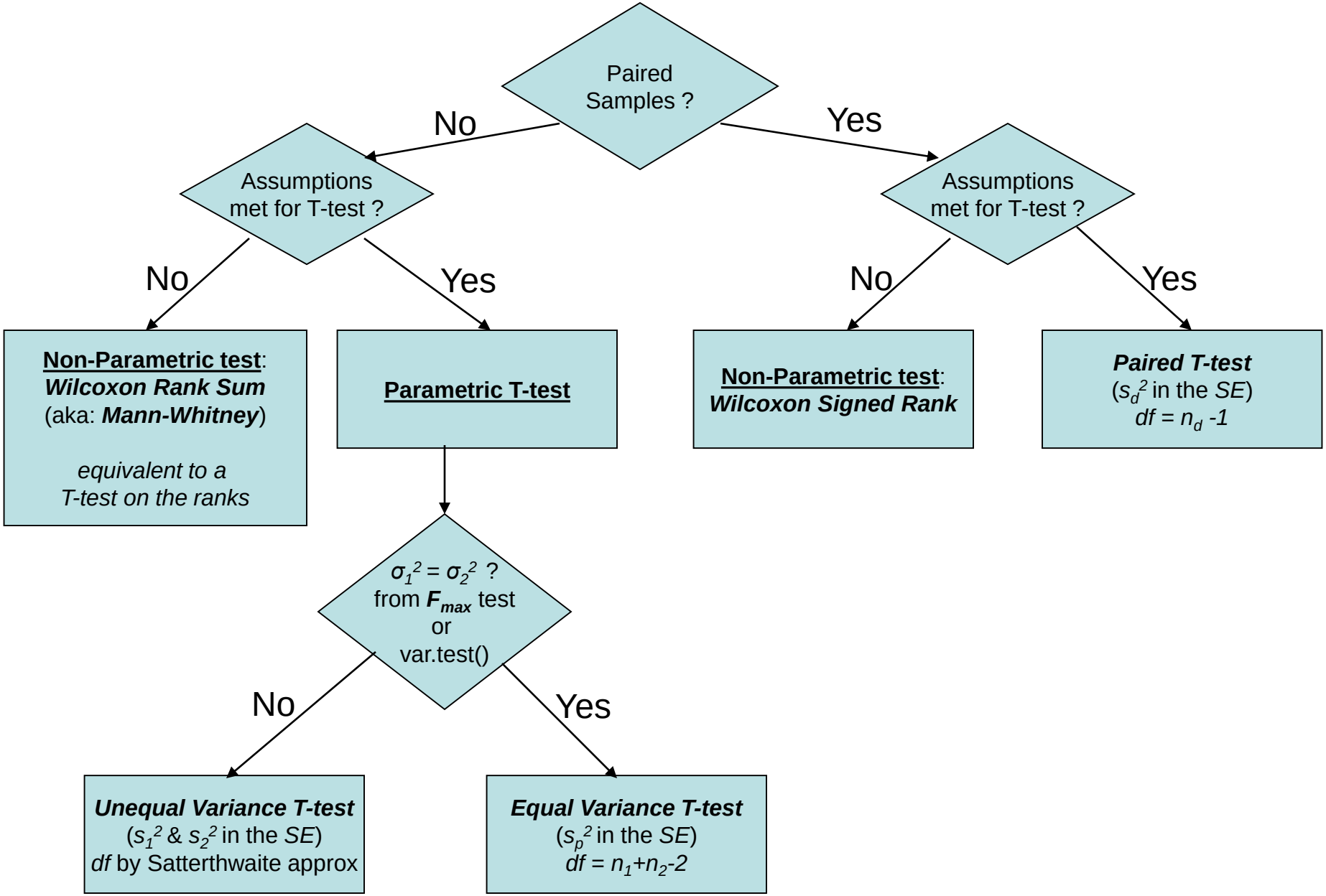
Paired Samples ?
No
Yes
Assumptions met for T-test ?
Assumptions met for T-test ?
No
Yes
No
Yes
Non-Parametric test: Wilcoxon Rank Sum (aka: Mann-Whitney)
equivalent to a T-test on the ranks
Parametric T-test
Non-Parametric test: Wilcoxon Signed Rank
Paired T-test
(s_d^2 in the SE)
$df = n_d - 1$
$\sigma_1^2 = \sigma_2^2$?
from F_{max} test
or
var.test()
No
Yes
Unequal Variance T-test
(s_1^2 & s_2^2 in the SE)
df by Satterthwaite approx
Equal Variance T-test
(s_p^2 in the SE)
$df = n_1 + n_2 - 2$