Test choice tree

This graphic below describes the test choice algorithm employed in the `DescrTab2` package. Some of the branching steps are dependent on the data and some can be manipulated by the user. The type of data (`numeric`, `ordered` factor and unordered `factor`) is automatically determined, as is the number of groups and the number of categories in categorical variables. The user may choose to apply nonparametric instead of parametric tests, asymptotic instead of exact and paired instead of unpaired tests.

The default argument is `test_options=list(paired=F, nonparametric=F, exact=F)`. In a scenario with 2 groups, this will give produce Student's t-test for numerical variables and Boschloo's test for categorical variables with 2 categories.

Test choices can be manually overwritten. E.g. if you want to calculate a Chi-squared test only for the gender variable and use Boschlo's test (default) for everything else, you can request this by supplying the following argument:
`var_options=list(gender=list(test="Pearsons chi-squared test"))`.

Which test is chosen for the variable var?

- is.factor(var)==T → Categorical
- is.numeric(var)==T → Numerical

Categorical:
- is.ordered(var)==F → Nominal
- is.ordered(var)==T → Ordinal

Numerical:
- nonparametric==T → Ordinal
- nonparametric==F → Continuous and normally distributed

Nominal:
- exact==F → Asymptotic
- exact==T → Exact

Asymptotic:
- paired==T → Paired
- paired==F → Independent

Exact:
- paired==T → Paired
- paired==F → Independent

Paired (Asymptotic):
- K repetitions x L Groups table, binary response → Cochranes Q test
- 2x2 table → McNemars test

Independent (Asymptotic):
- 1xL table → Chi-squared goodness-of-fit test
- KxL table → Pearsons Chi-squared test

Paired (Exact):
- 2x2 table → Exact McNemars test

Independent (Exact):
- 2x2 table → Boschloos test

Ordinal:
- paired==T → Paired
- paired==F → Independent

Paired (Ordinal):
- ≥ 3 groups → Friedman test
- 2 groups → Wilcoxon two-sample signed-rank test

Independent (Ordinal):
- 1 group → Wilcoxon one-sample signed-rank test
- 2 groups → Mann-Whitney U test
- ≥ 3 groups → Kruskal-Wallis one-way ANOVA

Continuous and normally distributed:
- paired==T → Paired
- paired==F → Independent

Paired (Continuous):
- 2 groups → Students paired t-test
- ≥ 3 groups → Mixed model ANOVA, subject ID as random effect

Independent (Continuous):
- 1 group → Students one-sample t-test
- 2 groups → Students two-sample t-test, default: unequal variances
- ≥ 3 groups → F-test (ANOVA)