R syntax for common reliability statistics

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Type of Data		
	Getting Started	*Download 'irr' package for R*; Import data in csv format; Full 'irr' manual linked here; IRR Flowchart linked here
Nominal	Cohen's Kappa	kappa2(ratings, weight = c("unweighted", "equal", "squared"), sort.levels = FALSE) → data frame; weight choices; TRUE = sort factor levels, FALSE = do not sort factor levels
Nominal	Fleiss' Kappa	kappam.fleiss(ratings, exact = FALSE, detail = FALSE) → data frame; FALSE = Fleiss, TRUE = Exact Kappa; TRUE = calucate category-wise Kappa, FALSE = do not calculate category-wise Kappas
All categorical	Krippendorf's Alpha	kripp.alpha(x, method=c("nominal","ordinal","interval","ratio")) → object matrix; type of variable
Continous	Pearson Correlation	meancor(ratings, fisher = TRUE) → data frame; TRUE = z standardized before averaging, FALSE = not z standardized before averaging
Ordinal	Spearman Correlation	meanrho(ratings, fisher = TRUE) → data frame; TRUE = z standardized before averaging, FALSE = not z standardized before averaging
Ordinal	Kendall Correlation	kendall(ratings, correct = FALSE) → data frame; TRUE = corrected for ties within raters, FALSE = not corrected for ties within raters

Interpretation Guides

Kappa and Alpha tests

Kappa	Interpretation
.8-1	Excellent
.6-.79	Very Good
.4-.59	Good
.2-.39	Questionable
0-.19	Unacceptable

Correlations

Correlation Coefficient	Interpretation
.9-1	Very high agreement
.7-.89	High agreement
.5-.69	Moderate agreement
.21-.49	Low Agreement
.2 and below	Very low agreement