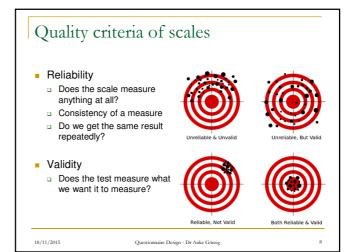


#### Quality of your scale: Item properties

- Inter-item correlation
- File -> Open ->
  - □ Analyse -> Scale -> Reliability analyses
- Select all items of your scale but
  - Use recoded and not original ones
  - □ Exclude items with "bad" difficulties
- Look at output file
  - □ Note items in "corrected inter-item correlation" column when < 0.3
  - Eliminate from scale

18/11/2015

Questionnaire Design - Dr Anke Görzig



## Quality of your scale: Reliability

- Inter-item correlation
- File -> Open ->
  - □ Analyse -> Scale -> Reliability analyses
- Select all items of your scale but
  - Use recoded and not original ones
  - □ Exclude items with "bad" difficulties
  - $\, \square \,$  Exclude when "corrected inter-item correlation" < 0.3
- Look at output file

□ Cronbach's alpha: range 0 to 1 Insufficient < .5 Satisfactory < .7

18/11/2015

Good > .7

Questionnaire Design - Dr Anke Görzig

### Quality of your scale: Validity

- Correlation with external criteria
- Transform -> Compute Variable
- Target Variable: name of your scale (e.g. "happiness")
- Numeric Expression: type Mean (..)
- Select all items which had good properties, i.e. difficulties, inter-item correlation

18/11/2015

Questionnaire Design - Dr Anke Görzig

### Quality of your scale: Validity

- Correlation with external criteria
- Analyse -> Correlate -> Bivariate
- Select scale name and external item
- Correlation should be fairly low (<.3) and not statistically significant

18/11/2015

Questionnaire Design - Dr Anke Görzig

### Test your research hypothesis

- Overall mean
- Analyse -> descriptive statistics -> descriptives
- Mean by your chosen grouping variable
- Analyse -> compare means -> independent sample t-test
- Try custom graphs and tables

18/11/2015

Questionnaire Design - Dr Anke Görzig

# Report on your scales

- What was your concept?
- What was our research hypothesis?
- Which items had to be eliminated and why?
  - Give some examples
- Reliability (alpha), discriminant validity (r)
- Overall mean
- Mean by your chosen grouping variable
- Results of your research (t-test)
- Discussion
  - $\hfill \square$  What went well and what not so well, and why

18/11/2015

Questionnaire Design - Dr Anke Görzig

13