

## Hypothesis:

*Solution 1:* The first hypothesis is that with the modeled principals, participants can perceive the relation of dominance. Thus we have only one factor: whereas the dominance is perceived in the dialogue.

*Solution 2:* Break the hypothesis for the three principals.

- *H1:* Dominant agents are more demanding
- *H2:* Dominant agents lead the flow of the negotiation
- *H3:* Dominant agents don't care too much about other preferences, while submissive agents are dependent to other.

## Statistics:

- **Questionnaire validation:**

- a. *Solution1*

- 1. Exploratory factor analysis, in order to compute the inter-correlation between the questions of the questionnaire.
      - a. For one factor (dominance)
    - 2. Alpha Cronbach: to evaluate the correlation of the items in one cluster.

- b. *Solution2*

- 1. In order to compute an exploratory factor analysis, we need at least 3 questions by principal. -> 18 questions.
    - 2. Alpha Cronbach: evaluate the correlation for each principal.

- **Evaluation:**

- a. *Solution1:* One operational hypothesis, which calculates the score of dominance. (Positive means dominant and vice versa negative means submissive)

- b. *Solution2:* three operational hypotheses (*H1*, *H2*, *H3*).

- c. *Prerequisite:* The data must follow a normal distribution.

- d. *Statistic evaluation:* T- Student test paired group. (pour groupes appariés)