# Übung zur Vorlesung Mensch-Maschine-Interaktion 1

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## Qualitative vs. Quantitative Data

- Deals with descriptions.
- Data can be observed but not measured.
- Colors, textures, smells, tastes, appearance, beauty, etc.
- Qualitative → Quality

# Oil Painting

#### Qualitative data:

- blue/green color, gold frame
- smells old and musty
- texture shows brush strokes of oil paint
- peaceful scene of the country
- masterful brush strokes

- Deals with numbers.
- Data which can be measured.
- Length, height, area, volume, weight, speed, time, temperature, humidity, sound levels, cost, members, ages, etc.
- Quantitative → Quantity

## Oil Painting

### Quantitative data:

- picture is 10" by 14"
- with frame 14" by 18"
- weighs 8.5 pounds
- surface area of painting is 140 sq. in.
- cost \$300

## **Likert Scales**

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	Very Interested 5	Somewhat Interested 4	Neutral 3	Not Very Interested 2	
	Very Much 5	Somewhat 4	Undecided 3	Not Really 2	Not at All
	Very Much Like Me	Somewhat Like Me	Neutral	Like Me	
l	5	4	3	2	1
	Very Happy	Somewhat Happy	Neutral	Not Very Happy	Not at All Happy
l	5	4	3	2	1
	Almost Always	Sometimes	Every Once In a While	Rarely	Never
l	5	4	3	2	1
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http://allpsych.com/researchmethods/images/likertscales.gif

## Example: Study Design Script

#### **Study Procedure**

#### 1. Explanation of Procedure

- Introduction of three NFC-Applications: interactive advertisement, interactive catalogue and interactive door sign.
- · Different designs for each scenario
- · Task for each design
- No competition, how usable are the different designs and personal impression
- Tasks and Questionnaires THINK ALOUD!
- · Video recording during study

Further questions?

**Consent Form** 

**General Questionnaire** 

#### 2. Explanation of NFC-Device

#### 3. Test of Designs

- Introduction to scenario and procedure (various designs, for each design the same task)
- · Introduction of task
- START APPLICATION on mobile device
- START CAMERA
- SHOW DESIGN
- START TASK

Post Scenario Questionnaire