CHECKLIST

Study Objectives

Final Research Question: Ensure the research question is clear, focused, and directly related to the study objectives. A well-defined question guides the entire experiment.

Final Hypothesis: A testable hypothesis that makes a prediction based on the research question. The hypothesis should be specific and measurable.

Variables

- **Independent Variables:** Identifying and defining the variables you will manipulate. These are the causes you're testing.
- **Dependent Variables:** Identifying and defining the variables you will measure. These outcomes depend on the independent variables.
- Control Variables: List variables that will be kept constant to prevent them from influencing the outcome. This ensures that any change in the dependent variable is due to the independent variable(s).

Study Details

- **Study Design:** An appropriate design (e.g., between-subjects, within-subjects) that fits the research question and hypothesis. The design should facilitate clear, interpretable results.
- **Study Conditions:** Describe the specific conditions under which the experiment will take place, including any variations between conditions.
- **Participants:** The selection criteria, recruitment methods, and size of the participant pool. Consider the sample is representative of the population being studied.
- Procedure: Outline of the step-by-step process, including how participants are assigned to conditions and how data are collected. A clear procedure ensures replicability.

Study Materials

- **Consent Form:** A consent form that explains the study, its risks, and benefits, ensuring ethical standards are met.
- **Designs:** Conditions or visuals of the experimental setups or interventions.
- Measurement Tools: Specify and validate the tools or instruments used for data collection. Ensure they are reliable and valid for your variables.
- Data Collection Plan: How and when data will be collected, ensuring consistency across conditions and participants. This plan prevents logistical oversights and ensures data integrity.
- **Pilot Study:** Consider conducting a small-scale pilot study to test the feasibility of your experiment design, procedure, and materials. This can help identify any issues before the full-scale study.

Preparation for the next workshops

From Week 5 onwards, in the Workshops, we will show you how to analyze data with SPSS in a practical way. You will therefore need to install SPSS on your computers.

Download and install the appropriate version for your device from this link: <u>https://www.tudelft.nl/studenten/ict/software</u>