**HOLOS, a collaborative environment for holistic approaches: from the experiment and its implementation to its statistical analysis**

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**Abstract**

HOLOS is a new collaborative environment in which researchers can carry out holistic experiments (such as Napping®, sorted Napping, and sorting) and share their study resources with the scientific community. Basically, HOLOS is an android application with a tactile human machine interface in which subjects can easily conduct experiments using a tablet. Stimuli are displayed as icons that can be dragged with one finger. Stimuli are positioned according to the way they are perceived. While subjects perform the task, the database records their finger movements: more precisely, the trajectories of the icons when they are dragged.

In the case of Napping® and sorted Napping, these data enable to study over time what could be assimilated to the cognitive process of a subject during the experiment.

The aim of this tutorial is to propose an overview of HOLOS, as well as tools to analyse the collected data, i.e. Napping data, sorted Napping data, sorting data and digit-tracking data (temporal Napping data).

**Outline**

This tutorial will include:

* An introduction to HOLOS,
* A demonstration of how to implement an experiment (from the importation of the stimuli and the protocol, through the data collection by the subjects on their own tablet, to the data storage on the server),
* The way to analyse such data with R by using the *SensoMineR* package: Napping data (final configurations and digit-tracking data), sorted Napping data, sorting data.

**Prerequisites**

No prior knowledge is required

**Duration**

3 hours