Description of the simulated dataset

As an operative example, a simulation of a simple experiment consisting on 'teapot observation' has been developed.
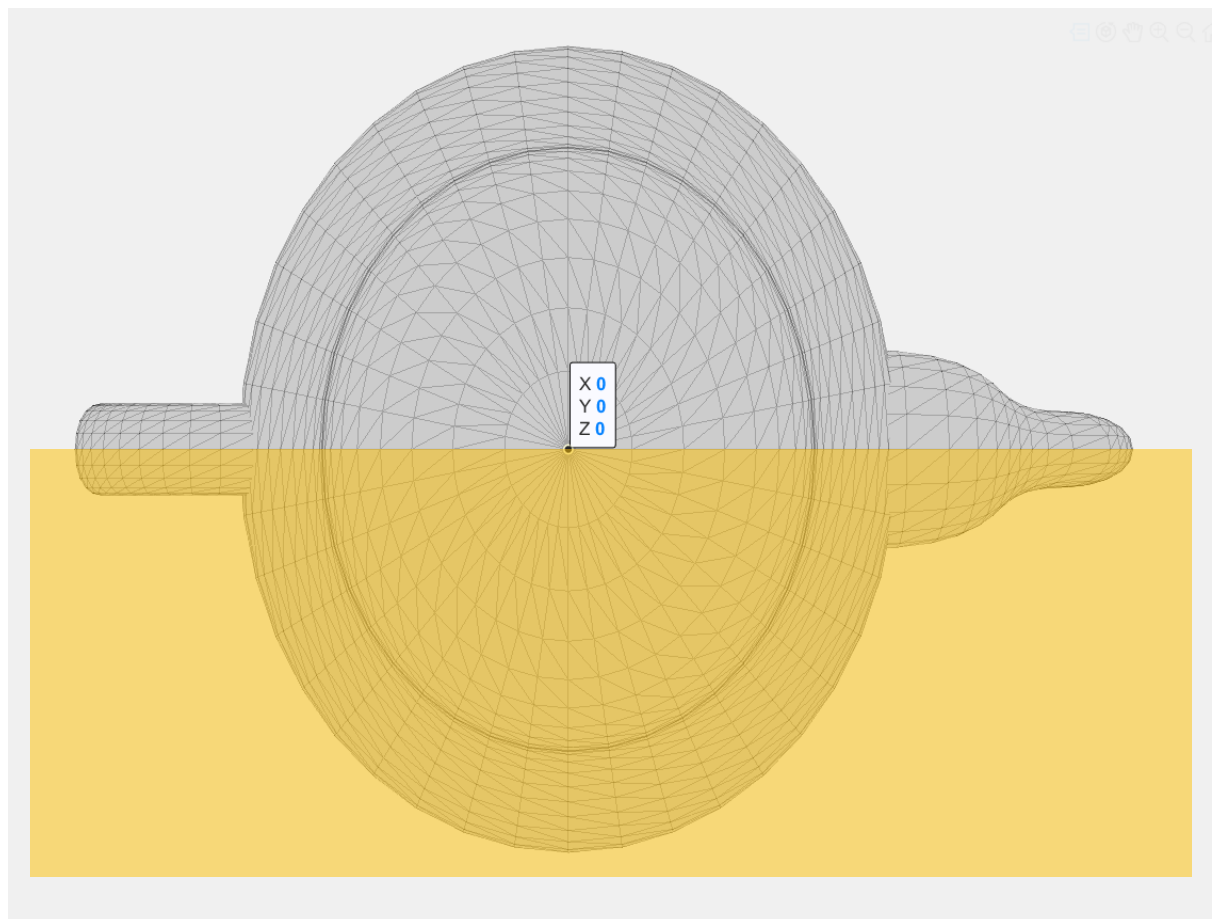
Three experimental conditions have been included:

- FirstCond=[100 200 300]
- SecCond=[Cond1 Cond2 Cond3]
- ThirdCond=[CondA CondB]

A random number of fixations, with random length have been generated for each trial, for each subject.
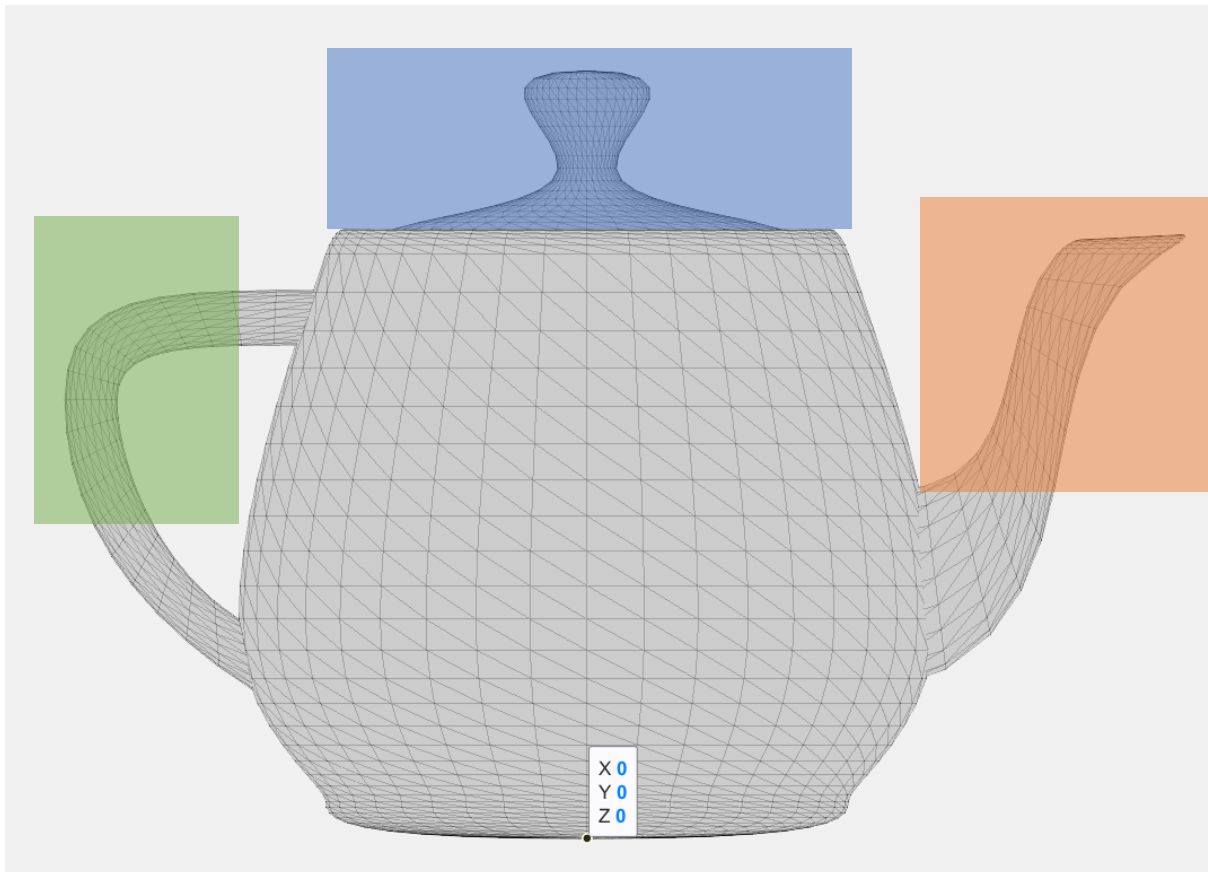
Significant difference in fixation durations have been added according to ThirdCond

- **Longer fixations on the right side of the teapot for ThirdCond=CondA (+90ms)**

Significant difference in fixation durations have been added according to FirstCond

- **Longer fixations on the beak of the teapot for FirstCond=100 (+30ms)**
- **Longer fixations on the top of the teapot for FirstCond=200 (+50ms)**
- **Longer fixations on the handle of the teapot for FirstCond=300 (+30ms)**

We therefore expect our software to detect significant differences for these conditions and tea-pot areas.