## Design

Diagram

Description automatically generatedGraphical user interface

Description automatically generated

## Modeling

#### Reach area

The area circumscribed by the average left trajectory and the average right trajectory.

Has a single value for each subject.

Diagram

Description automatically generated

Results when using subjects as a random factor in Exp 2:

Chart, box and whisker chart

Description automatically generated

Text

Description automatically generated

Text

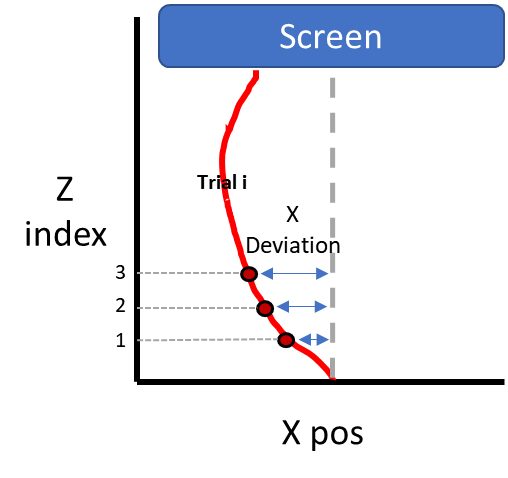
Description automatically generated

#### X Position

~~Deviation from the center line on the X axis, at each point along the Z axis.~~

It should be deviation but currently it is the actual X value. Which isn't good since the center isn't 0.

200 values for each trial.



Results with subjects as a random factor in Exp 2:

Chart

Description automatically generated

#### MAD

Maximal absolute deviation.

The biggest distance from the optimal trajectory.

Produced for each trial.

Diagram

Description automatically generated

#### AUC

Area circumscribed by the "optimal path" and the actual path.

There are 2 versions:

* Use only the area that exceeds the optimal path towards the unselected answer.
* Area that exceeds the optimal path towards the unselected answer is considered positive, while area that exceeds towards the selected answer is considered negative.

Produced for each trial.

Diagram

Description automatically generated

### Questions

Are in Trello 🡪 Exp 4 – PreReg 🡪 Consultation with statistics center.