ASL Results

Offline Data Analysis

The ASL Eye-Trac®6 series includes our ASL Results software programs for analyzing and displaying the collected data. This software allows you to do the following:

Reduce data to a list of fixations

- A fixation is usually as period of at least 100 msec during which point of regard does not change by more than 1-degree visual angle
- Different researchers may have different opinions about the detail of this definition. (for example, they may want to define minimum fixation duration as somewhat less than 100 msec), and for this reason all parameters in the ASL fixation algorithm are adjustable by the user
- Each fixation in the list has a start time, duration, point of gaze coordinates and average pupil diameter
- Interfix duration is recorded and includes the time and distance between the beginning of a new fixation and the end of the previous fixation.

Specify Areas Of Interest (AOI)

An area of interest is a region of the scene that was viewed by the participant.. These regions usually define some object or image component that is meaningful in terms of the research being done.

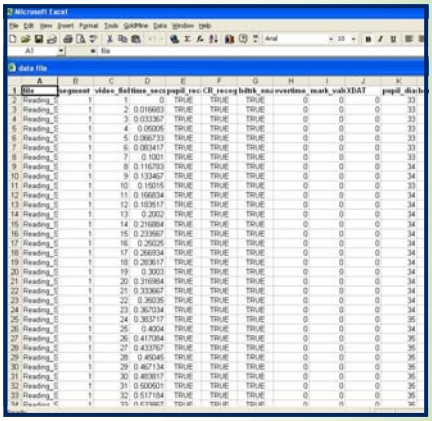
Match fixations with AOI's

Compute statistics relating fixations to AOI's

- Average amount of time spent viewing each AOI
- Number and duration of fixations in each AOI
- Probabilities of looking from one AOI to another
- Average over multiple participants or trials .

Superimpose plot of fixation "scanpath" over image viewed by participant

- Display all fixations, any subset of fixations, or step wise sets of fixations (E.g first 5, then next 5 etc.)
- Chose different symbols and colors for fixation indicators and different colors and line types for connecting lines
- Display fixation point symbols with a size proportional to fixation duration
- Superimpose multiple, color coded sets of fixations from different subjects or different trials
- Show areas of interest
- Create bitmap files for display in reports or slides



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