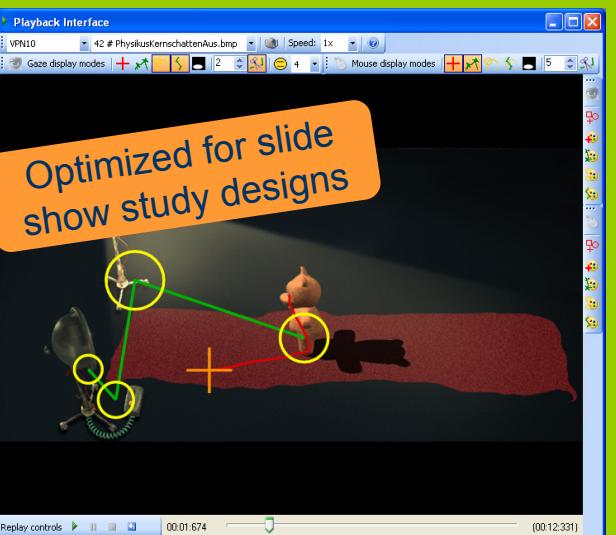# OGAMA OpenGazeAndMouseAnalyzer

Adrian Voßkühler, Volkhard Nordmeier, Physics Didactics, Freie Universität Berlin
Lars Kuchinke, Arthur M. Jacobs, Experimental and Neurocognitive Psychology, Freie Universität Berlin
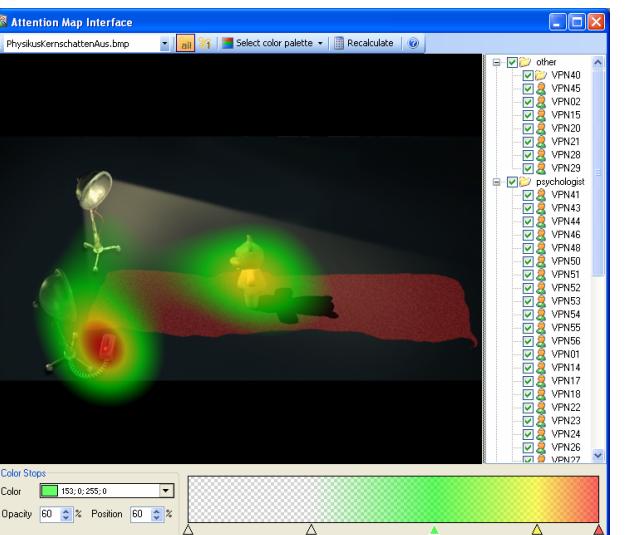
Freie Universität Berlin

Replay

Optimized for slide show study designs

Features:

- Multiple display modes (Spotlight, Fixations, Cursor, Path, …)
- Adjustable replay speed
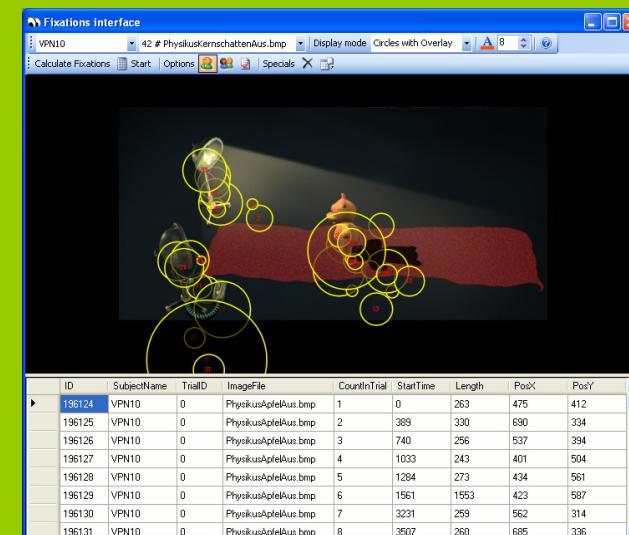- AVI video export
- Quick change of pen styles

Attention Maps

Features:

- Predefined and customizable gradients
- Categorized analyzations
- Switch between only first and all fixations

OGAMA is open source and written in C#.NET

Fixations

Features:

- Customizable fixation calculation from raw data (min. duration, max distance)*
- Multiple display modes (Circles, Spot, Gradients)
- Quick change of pen styles
- Import / Export

We introduce a new software that allows analyzing eye- and mouse-tracking data in parallel. OGAMA is written in C#.NET and released as an open source project. Its main features include database-driven pre-processing and filtering of gaze and mouse data, the creation of attention maps, areas of interest definition and replay. OGAMA is designed for analyzing gaze and mouse data recorded in experimental setups with screen based slide show stimuli. ASCII format eyetracking and/or presentation soft- and hardware recordings from different sources may be imported. The spreadsheet data output can directly be used with different statistical software packages (like SPSS or SAS).
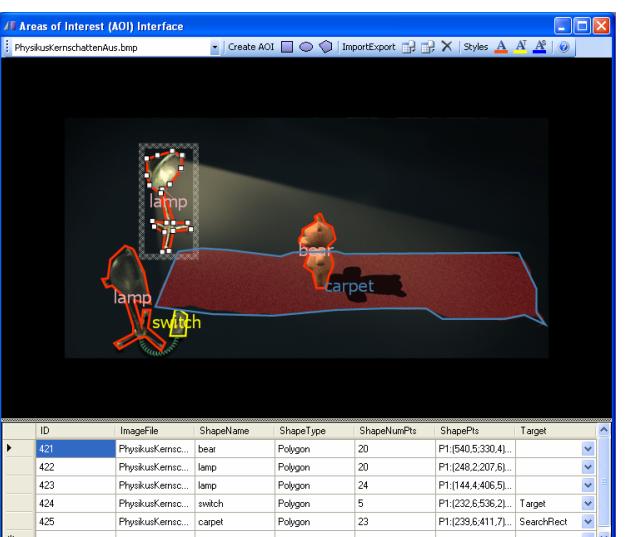
Statistics
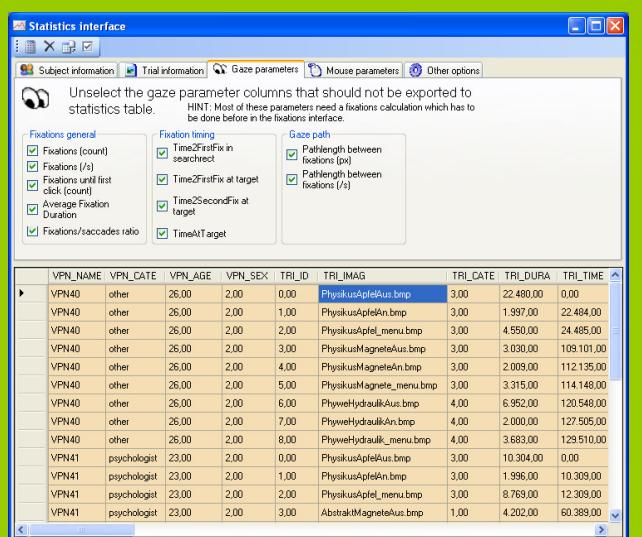
Features:

- Over 20 predefined variables (time until first fixation at specified target, average distance between gaze and mouse path, …)
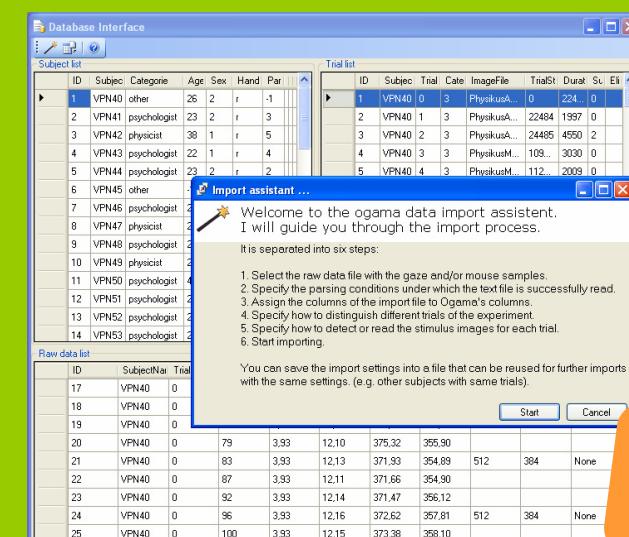- ASCII export with 8 letter column names

Areas of Interest

Features:

- Rectangular, elliptical and polygonal, named and resizeable, shapes
- Predefined targets
- Import and export of AOIs
- Quick change of pen styles

Database

Features:

- SQL database driven
- Data import assistant
- Quick change of raw data and parameters

Import tested with SMI**, Tobii***, Eyelink II**** logfiles

Share your experience with us and give it a try.
http://didaktik.physik.fu-berlin.de/ogama