

Package: shinygazer (via r-universe)

October 27, 2026

Type Package

Title Interactive Pupil Pre-Processing with 'gazeR'

Version 0.3.5

Description A 'shiny' app for pre-processing pupillometry data without writing code, built on the 'gazeR' package. Reads EyeLink .asc files, SR Research Data Viewer sample reports, Tobii (Titta) and Pupil Labs Neon exports; removes blinks (tracker events or noise-based detection) and artifacts; interpolates, smooths, baseline-corrects and time-locks trials; reports data quality and behavioural exclusions; and plots time courses with within- or between-subject error, rainclouds and pupil-behaviour relationships. Every setting is exported so the pipeline can be reproduced.

URL <https://github.com/jgeller112/shiny-gazeR>

BugReports <https://github.com/jgeller112/shiny-gazeR/issues>

License GPL (>= 3)

Depends R (>= 4.1.0)

Imports bslib (>= 0.7.0), data.table, dplyr, DT, gazeR (>= 0.2.10), ggplot2, htmltools, jsonlite, markdown, plotly, shiny (>= 1.8.1), stats, tibble, utils, zip, zoo

Remotes dmirmann/gazer

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Repository <https://jgeller112.r-universe.dev>

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run_app	<i>Launch the shiny gazeR app</i>
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Description

Opens an interactive app that runs gazeR's pupil pre-processing pipeline without writing code:

Usage

```
run_app(...)
```

Arguments

... Arguments passed to [shiny::runApp\(\)](#), such as port or launch.browser.

Details

1. **Load** EyeLink .asc files ([gazer::read_asc\(\)](#)), SR Research Data Viewer sample reports, Tobii (Titta) exports ([gazer::merge_tobii_titta\(\)](#)), Pupil Labs Neon exports ([gazer::parse_pl\(\)](#)) or any long CSV, and map the columns.
2. **Clean**: plausible-range limits, tracker or noise-based blink detection ([gazer::detect_blinks_noise\(\)](#)), blink padding ([gazer::extend_blinks\(\)](#)) and dilation-speed outliers ([gazer::speed_pupil\(\)](#), [gazer::calc_mad\(\)](#)).
3. **Interpolate and smooth** ([gazer::smooth_interpolate_pupil\(\)](#)), optionally low-pass filter ([gazer::lowpass_filter\(\)](#)).
4. **Baseline-correct and time-lock** ([gazer::baseline_correction_pupil_msg\(\)](#), [gazer::onset_pupil\(\)](#)).
5. **Bin** ([gazer::downsample_gaze\(\)](#)), optionally join behavioural data and exclude trials by accuracy or RT.

The app shows raw and processed traces for every trial, missing data and exclusions, and time courses (within- or between-subject error), rainclouds and pupil-behaviour plots. Processed samples, binned data, trial quality and a JSON file of every setting can be downloaded.

Value

Called for its side effect of running the app.

Examples

```
if (interactive()) {
  run_app()
}
```

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