

Oslo Eyehub Workshop on Eyetracking Data Analysis

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Workshop schedule

Time	Activity
09:15-09:30	Introduction by workshop organizers
09:30-10:00	Lecture 1: eyetracking data pre-processing
10:00-10:45	Hands-on session 1
10:45-11:00	<i>BREAK</i>
11:00-11:30	Lecture 2: pre-processing (cont'd) and visualization
11:30-12:15	Hands-on session 2
12:15-13:15	<i>LUNCH</i> (provided)
13:15-13:45	Lecture 3: overview of statistical analysis
13:45-14:15	Hands-on session 3
14:15-14:30	<i>BREAK</i>
14:30-15:00	Lecture 4: cluster-based permutation analysis
15:00-15:45	Last hands-on session
15:45-16:00	Summary and discussion
19:00	<i>Dinner for Eyehub and workshop participants</i>

Preparing for the workshop

We will be working through an existing dataset from a visual world eyetracking study, and writing code in R. You can also work with this dataset during the hands-on exercises, but feel free to try to apply these skills to your own data instead.

Some experience with R and the tidyverse will be helpful, but the workshop will give you an overview of data analysis that will be useful even if you are not an R user, and even if you don't want to participate in the hands-on exercises. All of the materials from the workshop (code, data, slides) will be available at this site for later review.

But if you do want to participate in the hands-on part, please bring your own laptop with R (version 4.0 or higher) and the [tidyverse add-on package](#) (version 1.3 or higher) also installed. To find out what version of R you currently have, look at the message that appears when you start R, or type `R.version.string` in the R console. If you need help installing R and RStudio, please check [these resources kindly provided by the PsyTeachR team at the University of Glasgow](#).

It is also recommended that you have a good IDE (Integrated Development Environment) installed to help you develop R scripts. I recommend the [RStudio IDE](#) but you are welcome to use other IDEs if you prefer (emacs+ESS or VSCode). I won't be able to provide much tech support so it is a good idea to make sure everything is working before Wednesday.

To find out what version of tidyverse you have, type `packageVersion("tidyverse")`. If you need to update tidyverse (i.e., if you have a version before 1.3), type `tidyverse::update_packages()` in the console and follow the instructions. You can also find more information about updating packages [at the psyteachr site](#).