A minimal schema template for digERPs

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This is a minimal schema template for json annotation of scientific papers within the digERPs project.

Annotation schema

paperid *[type= string]*: paperid **(required)**

The id of the annotated paper, should be [last author family name][year of publication][first page].

Examples: "KUTAS1984161"

experiments *[type= array of object]*: An array of Experiments **(required)**

Papers typically contain multiple experiments, please add an element array for each experiment, information about how to split data into experiments are refereed in the manual.

experiments elements: *[type= object]*: An Experiment

Specific annotations about the experiment.

expname *[type= string]*: Name of the experiment **(required)**

A label of the form exp[N], where N is an integer. We suggest to keep the original paper number, otherwise add a filed "note on name".

content *[type= string]*: Experiment description

A brief description of the experiment aims and possibly about its role within the aims of the specific secondary research that is currently pursued.

eeg *[type= object]*: EEG Section **(required)**

A collection of information about EEG recording and the analysis pipeline for ERPs extraction.

sites *[type= array of string]*: Recorded Sites **(required)**

An array of strings with the labels of the recorded EEG sites/channels .

sites elements: *[type= string]*: Channel/site label

Label of the channel/site.

subjects *[type= array of object]*: Subject Groups Section **(required)**

An array with information about the groups of subjects tested.

subjects elements: *[type= object]*: A group of subjects

A collection of relevant information about a single group of subjects.

groupname *[type= string]*: A label for this group **(required)**

A short and possibly informative label of the group of subjects

procedure *[type= object]*: Experimental Procedure Section **(required)**

A collection of information about the experimental procedure, including stimuli and behavioural tasks.

conditions *[type= array of object]*: Experimental Conditions **(required)**

An array with information about the tested experimental conditions.

conditions elements: *[type= object]*: An Experimental Condition

A collection of informations about a specific experimental condition.

condname *[type= string]*: Condition label **(required)**

A short and possibly informative label of the experimental condition.

data *[type= array of object]*: Data section **(required)**

An array of entries corresponding to plotted waveforms with information about where these can be found.

data elements: *[type= object]*: Waveforms

Information relative to a group of waveforms pertaining to a pool of sites/channel but to a signle condition and group of subjects. Sites will be a subset of the above field in the eeg section, otherwise add a field "note on sites"

condition *[type= string]*: Condition label **(required)**

An condition label instantiated above in the procedure section.

subjects *[type= string]*: Group label **(required)**

An subject-group label instantiated above in the subjects section.

time *[type= string]*: Time Range **(required)**

The (maximum) time range of the plotted data, should be in the form "MIN, MAX".

figure *[type= string]*: Figure label **(required)**

A short label for the figure from which the specific waveform should be extracted. Should be in the form "fig[N][A]", where N in an integer and A an optional letter (e.g. "fig1A"). This label should match both the description in the paper and the name of the image file to be used for the digitalization (e.g "fig1A.png".

figuredoi *[type= string]*: Figure doi

A doi for the specific figure, if available.

page *[type= string]*: Page number

The number of the page in which the figure appears.

color *[type= string]*: Line color

A verbal description of the color in which the waveform appears in the plot.

type *[type= string]*: Line type

A verbal description of the graphic type of the line (e.g. continuous, dashed, dotted . . .).

List of papers to be digitalized

- **KUTAS1984161:** Kutas, M., & Hillyard, S. A. (1984). Brain potentials during reading reflect word expectancy and semantic association. Nature, 307(5947), 161–163. doi:10.1038/307161a0

- **VANPETTEN1999394:** Van Petten, C., Coulson, S., Rubin, S., Plante, E., & Parks, M. (1999). Time course of word identification and semantic integration in spoken language. Journal of Experimental Psychology: Learning, Memory, and Cognition, 25(2), 394–417. doi:10.1037/0278-7393.25.2.394