

StimEval User Guide



Date: 04/11/2025

Contact: Dino Soldic

E-mail: dino.soldic@urjc.es

CONTENTS

| | | |
|------|---------------------------------------|---|
| 1. | MAIN MENU | 3 |
| 2. | CONFIGURATION SCREEN | 3 |
| 2.1. | <i>Configuration Parameters</i> | 3 |
| 2.2. | <i>Preview, Save, and Run</i> | 4 |
| 3. | PRESENTATION SCREEN | 5 |

1. MAIN MENU

If you already have a configuration file saved, click **Load Config**, select your saved file, and skip to the **Stimuli Presentation** step.

If you need to set up a presentation from scratch, follow the steps below.

2. CONFIGURATION SCREEN

The screenshot shows the 'StimEval Configuration' window. At the top, there's a 'Return to Menu' button. Below it, there are three input fields: 'Background Screen Color' (with a color swatch), 'Stimuli Width' (set to 500), and 'Stimuli Height' (set to 500). A horizontal line separates these from the next section. In the middle, there's a 'Amount of Responses to Stimuli' field containing the value 1. Below this, there are two input fields: 'Response group name (e.g. valence)' and '1'. Underneath is a 'Response 1' field. Another horizontal line separates this from the 'Stimuli' section. The 'Stimuli' section includes a 'Select Stimuli' button, a 'Randomize' checkbox (unchecked), and a preview area that says 'No media selected'. At the bottom, there are three buttons: 'Preview', 'Save', and 'Run'.

To cancel and go back to the main menu click on **Return to Menu** top left.

2.1. Configuration Parameters

You can customize the presentation of visual stimuli to some extent:

- **Background Screen Color** sets the color of the screen the stimuli appear on.
- **Stimuli Width** and **Height** determine the size of each stimulus.

Amount of Responses to Stimuli determines how many response categories there are per stimulus. You can add as many categories as needed, and each category can have multiple response options. Keep in mind that too many responses in a single category might not fit well on the screen.

For example, in an *Anxiety* category, you could add 7 response options, ranging from 1 to 7, to reflect different levels of perceived anxiety for the stimulus.

In the **Stimuli** section, you can select any combination of images, videos, or audio files, and even mix them together. The program will automatically detect the type of each file and present it correctly.

Allowed file types for each category are:

- *Images*: png, jpg, jpeg, webp
- *Videos*: mp4, webm
- *Audio*: mp3, wav, ogg, m4a

The **Randomize** checkbox controls the order in which the stimuli are presented. If enabled, stimuli will appear in a random order; if disabled, they will be shown in the order they were loaded (as listed in the box below the button).

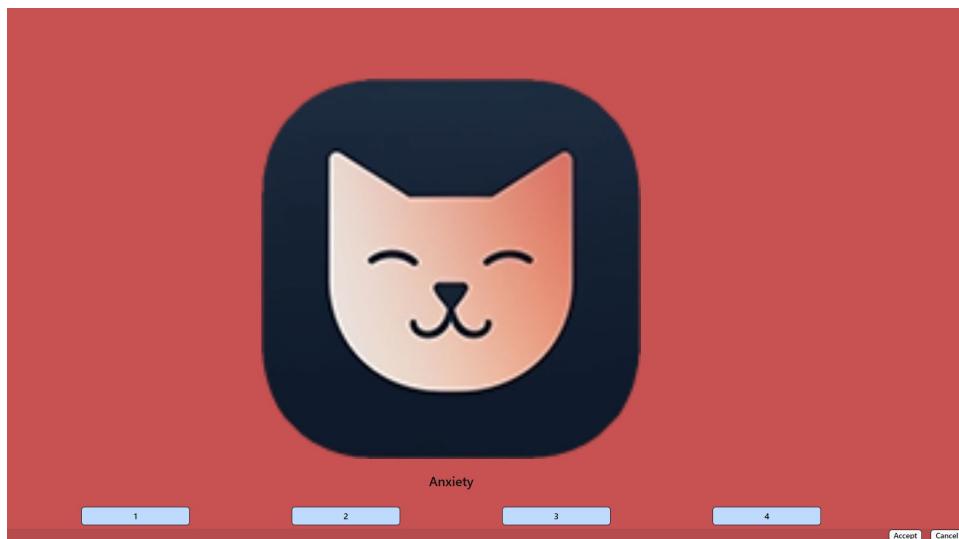
2.2. Preview, Save, and Run

After filling in all required fields, you can get a quick preview of the presentation by clicking the **Preview** button. The configuration cannot be saved or run until this step is completed. Any changes made to the parameter fields above will require previewing again to validate the configuration.

Following the example below:

The screenshot shows a configuration interface for a presentation. At the top, there's a 'Return to Menu' link. Below it, 'Background Screen Color' is set to red. 'Stimuli Width' is set to 800 and 'Stimuli Height' is set to 700. Under 'Amount of Responses to Stimuli', 'Anxiety' has 2 responses, while 'Arousal' has 3. For 'Anxiety', responses 1, 2, 3, and 4 are listed. For 'Arousal', responses Low, Medium, and High are listed. In the 'Stimuli' section, 'Select Stimuli' is selected, and the 'Randomize' checkbox is unchecked. A list of media files is shown: Square142x142Logo.png, Square150x150Logo.png, Square284x284Logo.png, and Square310x310Logo.png. A red-bordered button labeled 'Clear Selected Media' is visible. At the bottom, there are three buttons: 'Preview', 'Save', and 'Run'.

The preview will display the parameters you have set:



This allows you to check whether the dimensions and response options are correct before proceeding with the experiment.

You can leave this screen and reconfigure the parameters anytime by clicking **Cancel**, or if you're happy with them, click **Accept** to proceed and save the configuration.

Once the **Save** button is enabled, you can save the configuration file. The file will be named as you choose, with `-stimeval.config.json` automatically appended (for example: `name_you_chose-stimeval.config.json`).



Once the configuration is saved, the **Run** button will be enabled, allowing you to start the experiment immediately. Alternatively, you can run the experiment later using the saved configuration.

3. PRESENTATION SCREEN

If you chose to **Load Configuration**, you will be prompted to select the previously saved configuration file.

Whether you click **Run** or **Load Configuration**, you will be asked to choose a name for the output .csv file that will store the response data.



If you decide *not to save the file*, the experiment will proceed normally, but no response data will be recorded.

Once all stimuli have been displayed and responded to, the experiment will automatically return to the **Main Menu**. The response data will be saved if a save file was selected, or discarded if not, and the experiment session will be complete.