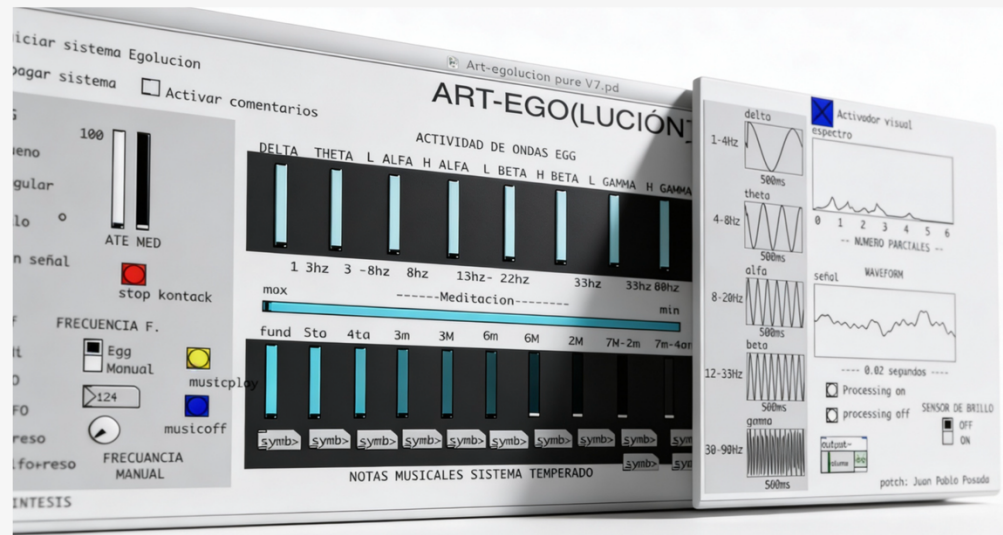


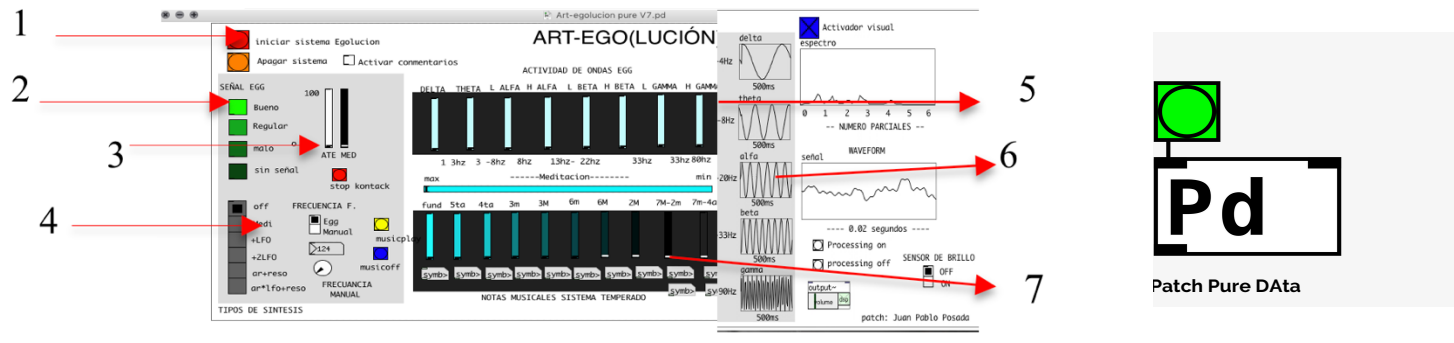
Patch Pure DATA

## MINDFLEX-SYNTH/ MUSE-SYNTH MODULE

Diseño y desarrollo de sistemas MMHCI híbridos con bioseñales y un DMI de smartphones, para obras bio-interactivas mixtas y performáticas

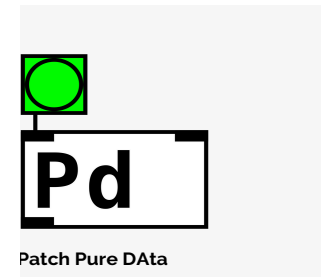
Pure Data Patches for the PhD Thesis: Juan Pablo posada Alvarez



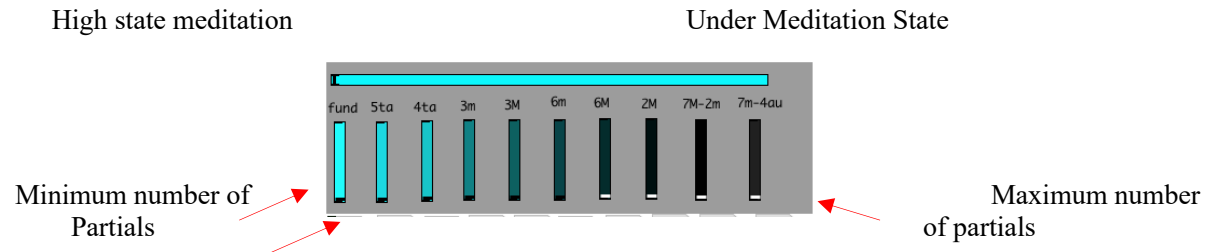


# 1. ON/Off: System activation with Mindflex

1. **EEG Signal:** This 4-color meter displays the quality of the signal, allowing you to obtain eSense data when the signal indicates the "good" box.
2. **eSense Slider:** This visualizer allows you to observe the levels of Attention and meditation on a scale of 1 to 100.
3. **Synthesis selector:** This selector allows you to choose the synthesis types of the PMsons for this prototype. The "medi" option allows interaction with oscillators only, LFO allows interaction with an LFO. 2LFO allows interaction and Ar+reso allows interaction with resonators and ring modulators.
4. **Partials:** This section shows the intensity distribution of the fundamental frequency and partials of the audio synthesis interaction of the eSense meditation data.
5. **Spectrum:** Graph of the sound spectrum of the fundamental frequency interaction and the partials of the interaction by audio synthesis of the eSense Meditation data.
6. **Harmony:** Intensity distribution of synthesis intervals, referenced to a tempered system of pitches, generated by the interaction of eSense Meditation data.
7. The module is connected as follows:



- **Outlets 1: MIDI Values Output from Meditation eSense Values**



The fundamental frequency, with which all other sound partials and thus the overall pitch of the sound texture are calculated, has two ways of being adjusted: A manual and an automatic one taken from the sensor's EEG values.