투 ultraproto-pseudotoporadiotranstechno stereopsycho-

MODU LAR

IOANA TOMICI SPECIAL ISSUE X 2019

GUIS-TICS

Modular Linguistics is based on a series of electronic objects which are programmed to speak. The words chosen to be part of its vocabularies are spoken in unison, generating new associations between terms.

The following pages contain instructions for hardware assembly, along with a contextual description of the device's uses.

suggestion vernacula statement vibration speech tongue verba sonic voca

semantic

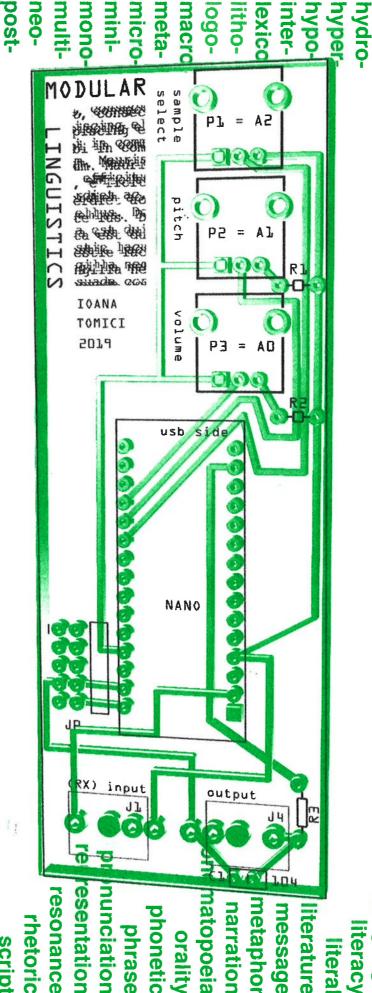
rhetoric

script

phrase

orality

signifier



ASSEMBLY

cryptocounter-

homo-

netero

LIST OF COMPONENTS

(required for one module)

1x Arduino Nano

2x 16 pin male header

2x 16 pin female header

3x 10kΩ rotary potentiometer

chronochemico

2x 0Ω resistor

1x 150Ω resistor

1x C1 106 ceramic capacitor

1x 2x5 pin JP header

2x 3.5mm audio jack

1x Mini USB to USB cable

1x sound output device (headphones/speaker)

audio-

bio

cardio-

astro-

anti-

INSTRUCTIONS

- 1. Solder the two 0Ω resistors to R22 and R23 marked on the PCB; trim excess metal wires.
- 2. Solder the 150Ω resistor to R24 marked on the PCB; trim excess metal wires.
- 3. Solder the ceramic capacitor to C1 104 marked on the PCB; trim excess metal wires.
- 4. Solder the JP header to JP2 marked on the PCB (on the backside).

NOTE: pin 7 and 8 need to be bridged; use one of the metal trimmings to solder this bridge

- 5. Solder the three $10k\Omega$ rotary potentiometers to P1, P2 and P3 marked on the PCB.
- 6. Solder the two 3.5mm audio jacks to J4 and J5 marked on the PCB.
- 7. Solder the male headers to the Arduino Nano and insert the female headers on top.
- 8. Solder the female headers attached to the Arduino Nano to NANO2 marked on the PCB (on the backside).
- 9. Plug Mini USB cable into the Arduino Nano and connect to a power source (the red LED on the Arduino will light up).
- 10. Plug sound output device into the output audio jack.

The Modular Linguistics device is now ready to be flashed through Arduino IDE.

> description expression coherence colloguia articulate dialogue dictation concept dialect

intonation

fluency

anguage

literacy

litera