



babel 0.7
Lorenzo Antei

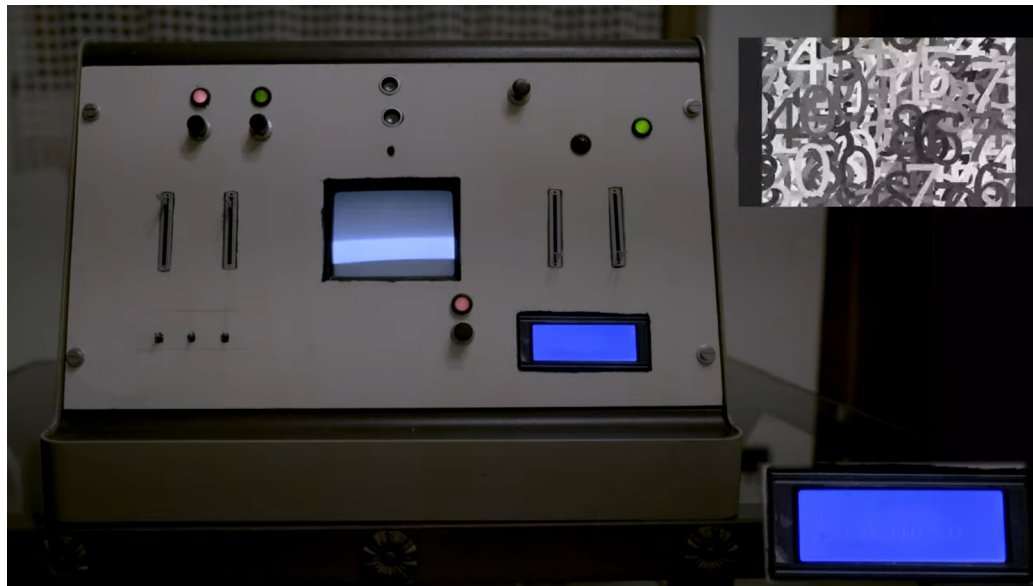
babel concept

L'installazione tenta di analizzare l'opacità e la complessità presente nei moderni sistemi computazionali. Il mondo computazionale moderno sembra non più in accordo con l'idea di progresso ma più di arretratezza. Il suo vettore sembra puntare in una direzione analoga al paradosso delle coste di Richardson: più si tenta di computare il mondo e più il mondo ci appare complesso tanto da risultare incomprensibile.

L'interazione, sotto forma di percorso, utilizzerà una metafora della costruzione della torre di Babele, analizzando i temi della:

- superbia, rappresentato dal tentativo dell'uomo di costruire macchine sempre più sofisticate e precise;
- confusione, rappresentata dall'effetto effetto Richardson ("più tentiamo ossessivamente di computare il mondo e più il mondo ci appare così complesso da risultare incomprensibile").

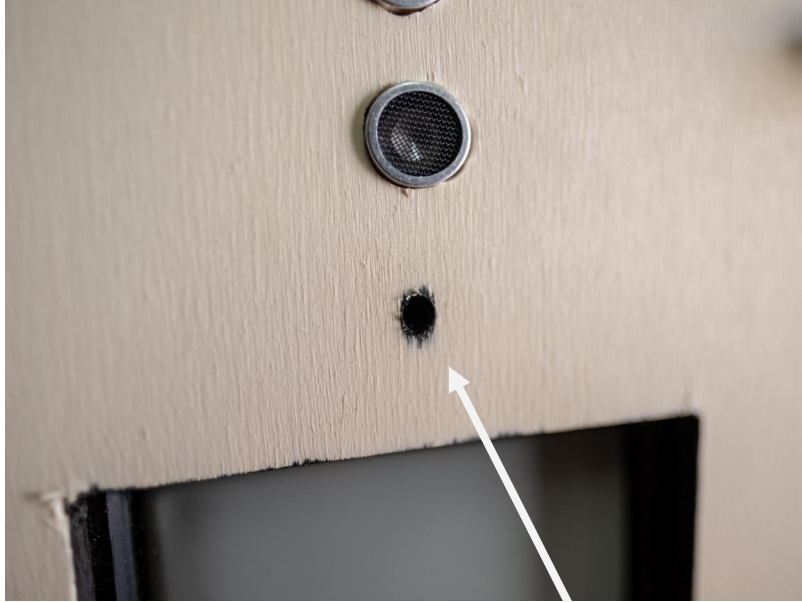
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[demo](#)



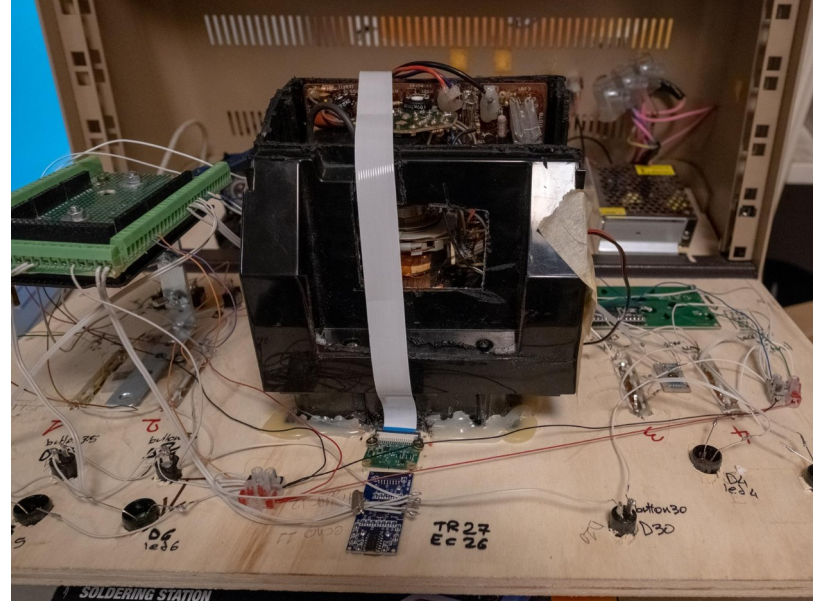
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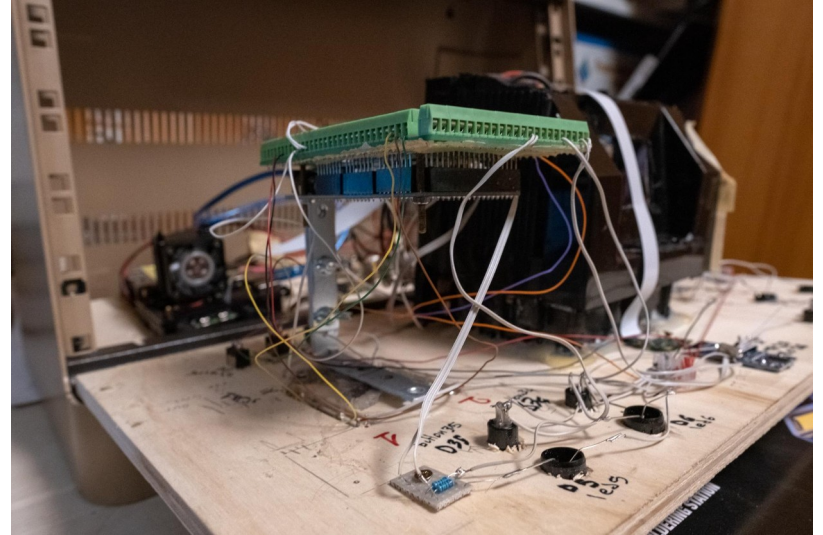
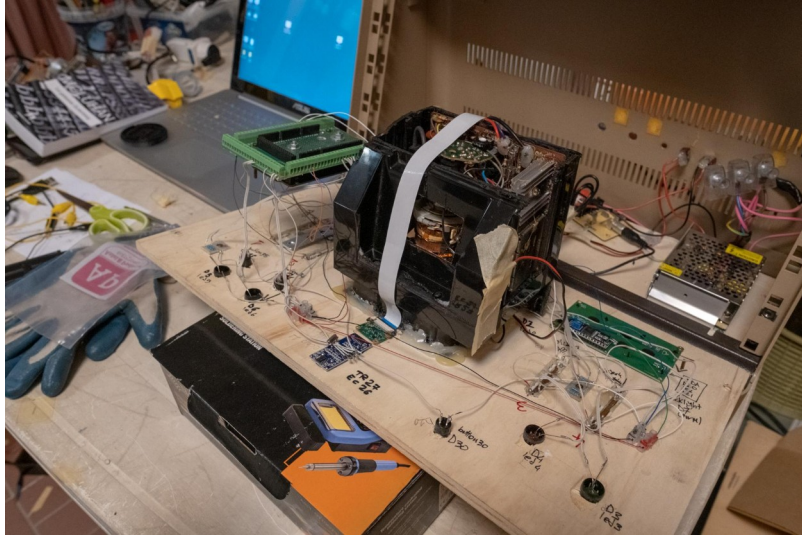
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RPi Camera



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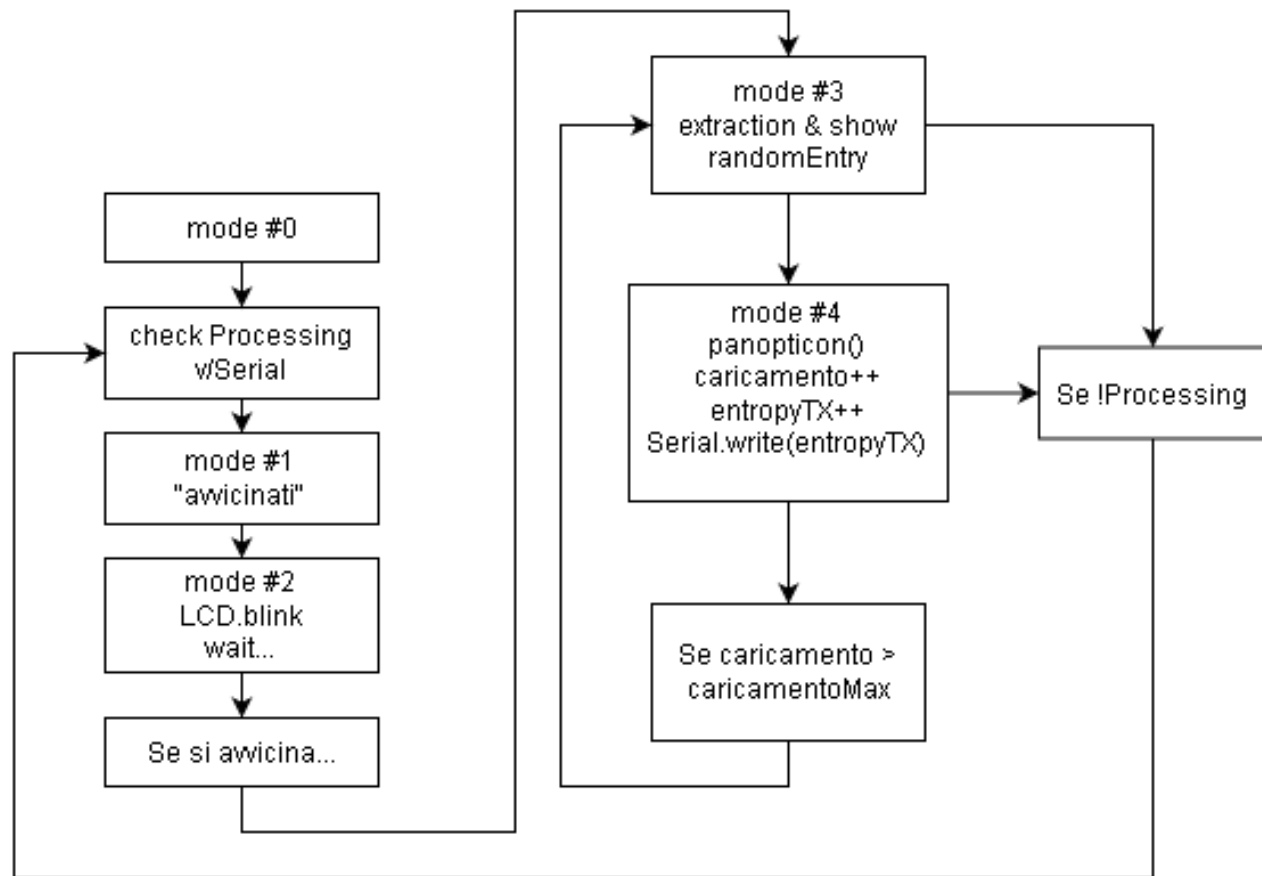
.ino master code



```
void loop() {  
  if (osservatoreisPresent = true) {  
    panopticon(); //read input  
    entropy++;  
    TX_Processing(); //TX values  
  }  
  if (osservatoreisPresent = false) {  
    blackHole(); //reset  
  }  
}
```

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.ino master diagram

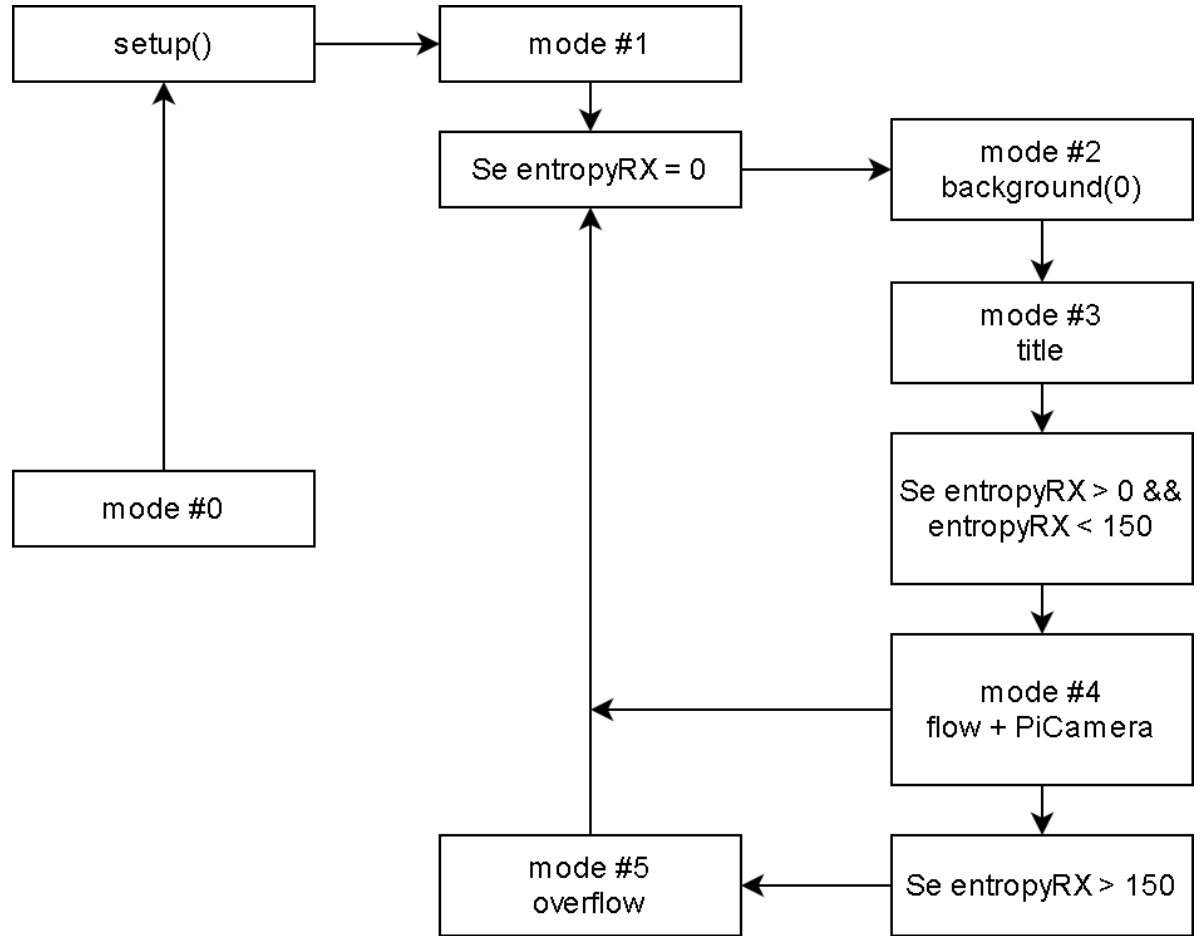


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.pde code



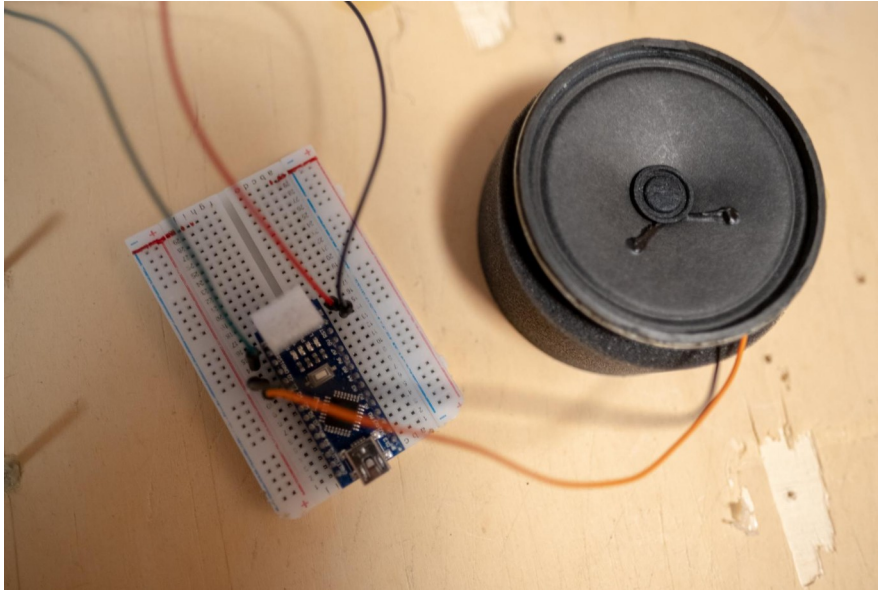
```
void draw() {  
  if (entropyRX > 0) {  
    reachSingularity();  
  }  
  if (entropyRX == 0) {  
    show_babelTitle();  
  }  
}
```

babel 0.7 .pde diagram



babel 0.7

.ino sound code



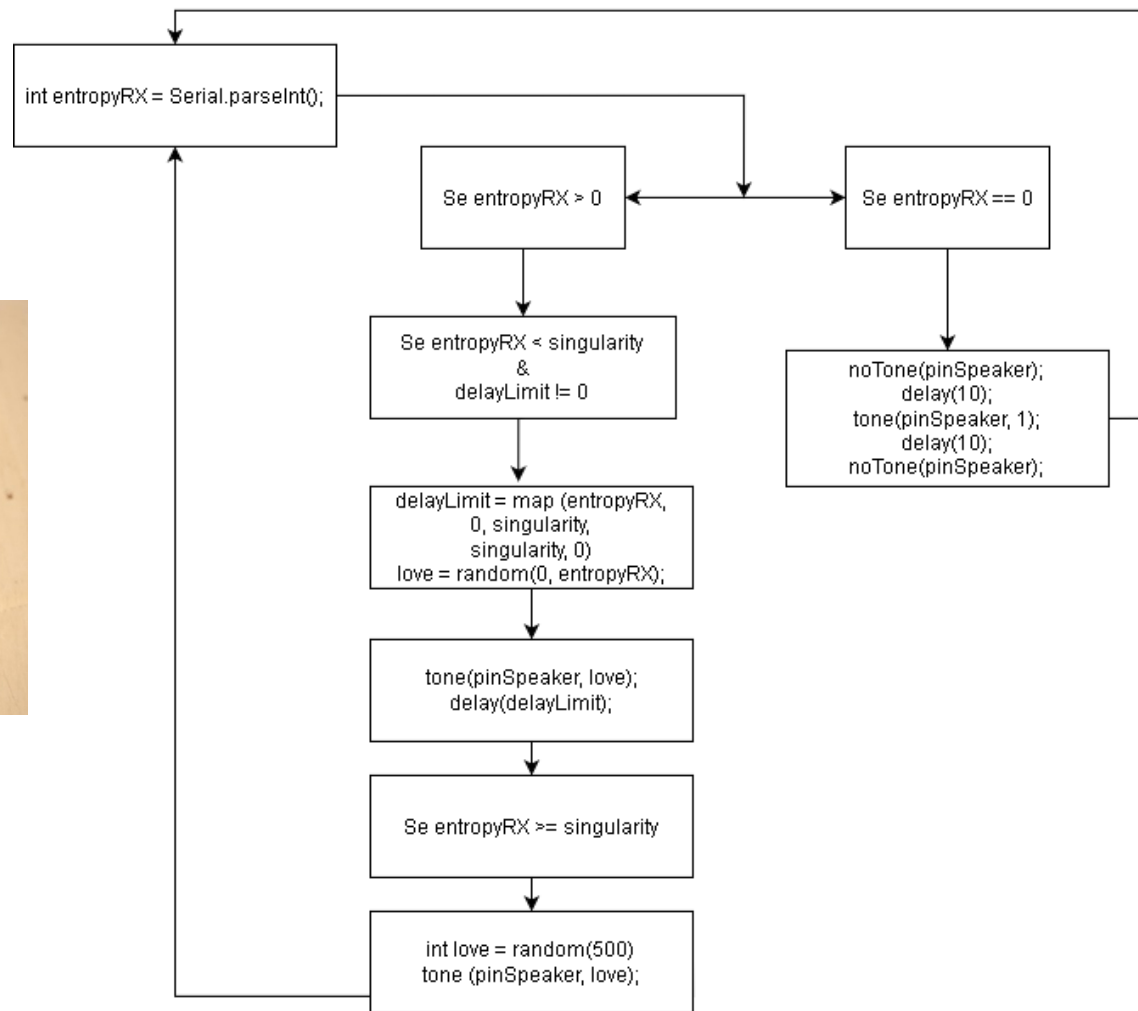
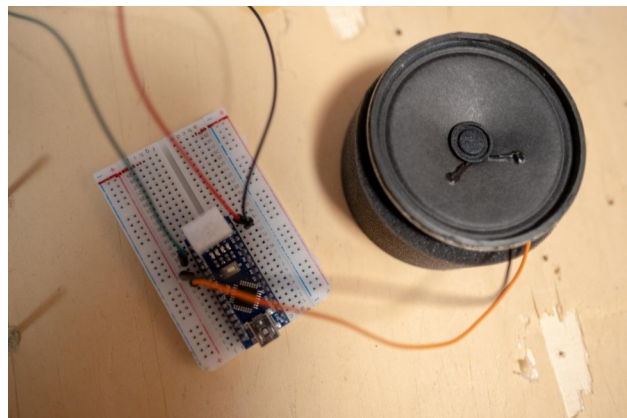
```
void loop() {
  int entropyRX = Serial.parseInt();

  if (entropyRX > 0) {
    if (entropyRX < singularity &&
        delayLimit != 0) {

      delayLimit = map(entropyRX,
        0, singularity,
        singularity, 0);
      love = random(0,
        entropyRX);
      tone(pinSpeaker, love);
      delay(delayLimit);
    }
    if (entropyRX >= singularity) {
      int love = random(500);
      tone(pinSpeaker, love);
    }
  }

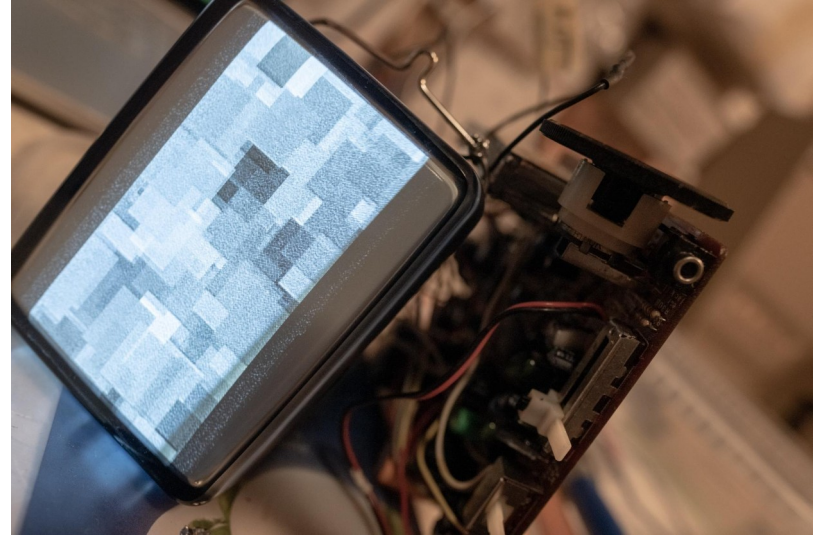
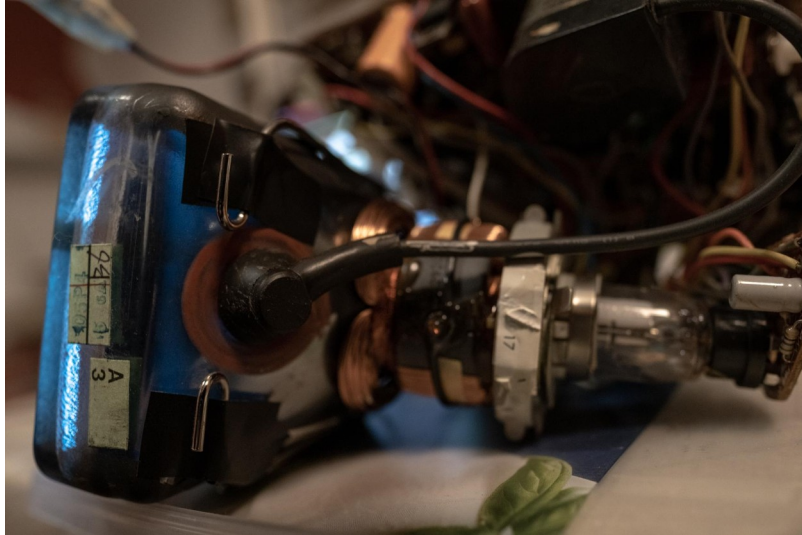
  if (entropyRX == 0) {
    noTone(pinSpeaker);
    delay(10);
    tone(pinSpeaker, 1);
    delay(10);
    noTone(pinSpeaker);
  }
}
```

babel 0.7 .ino sound diagram

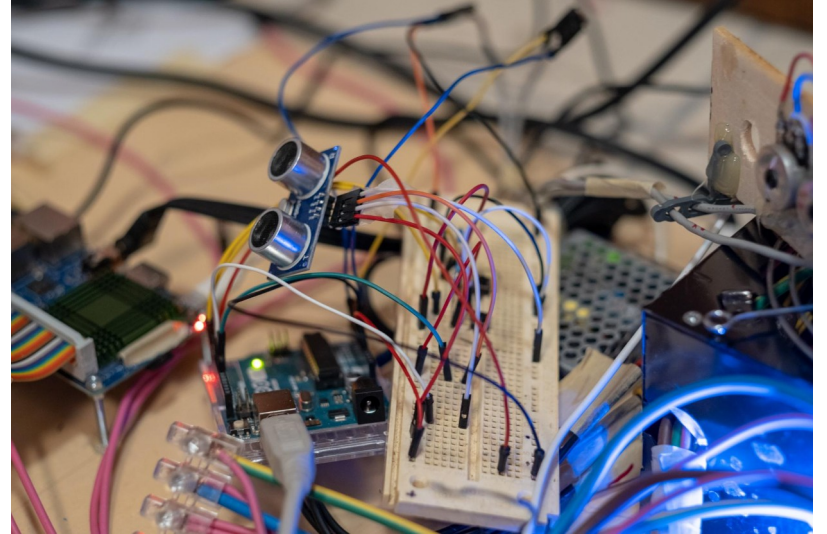
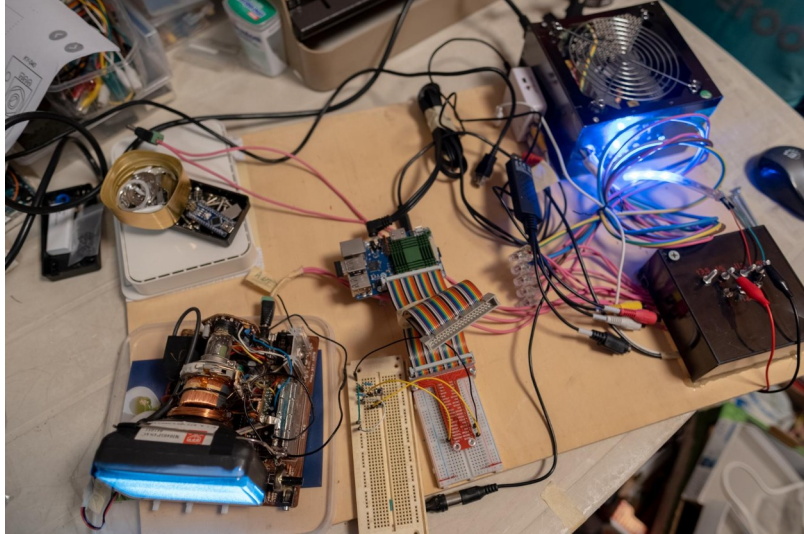


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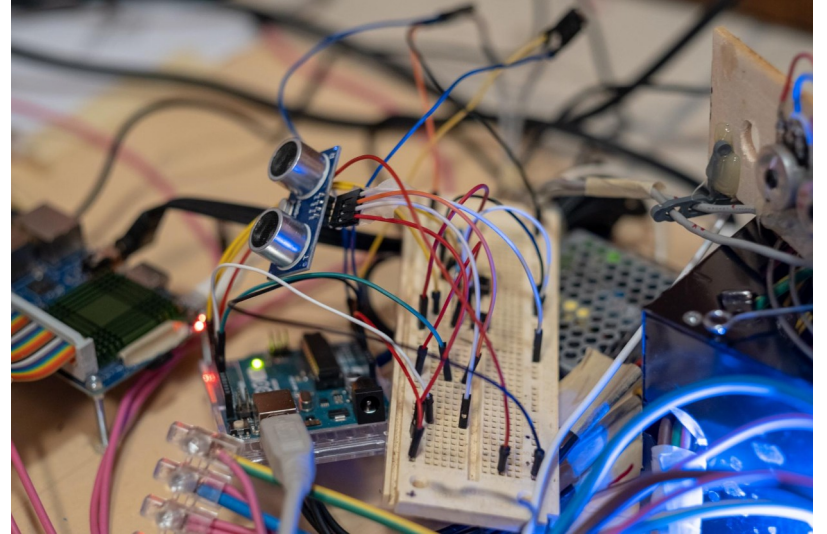
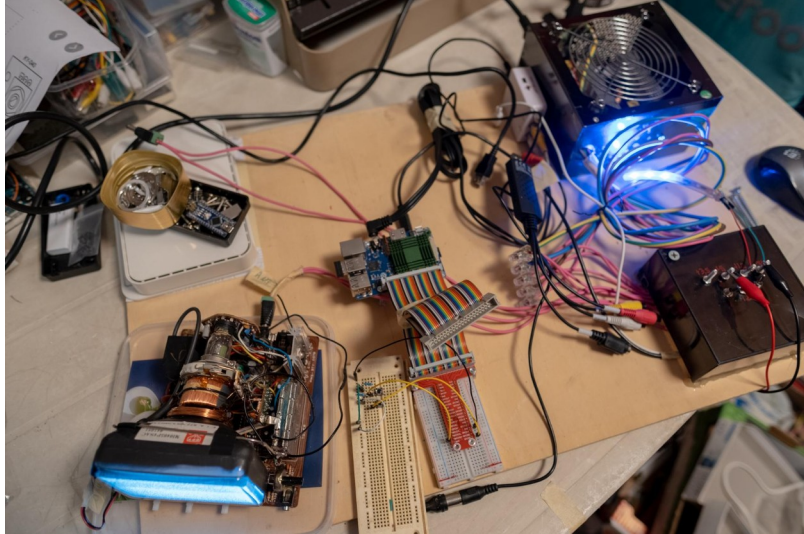
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CRT



babel 0.1

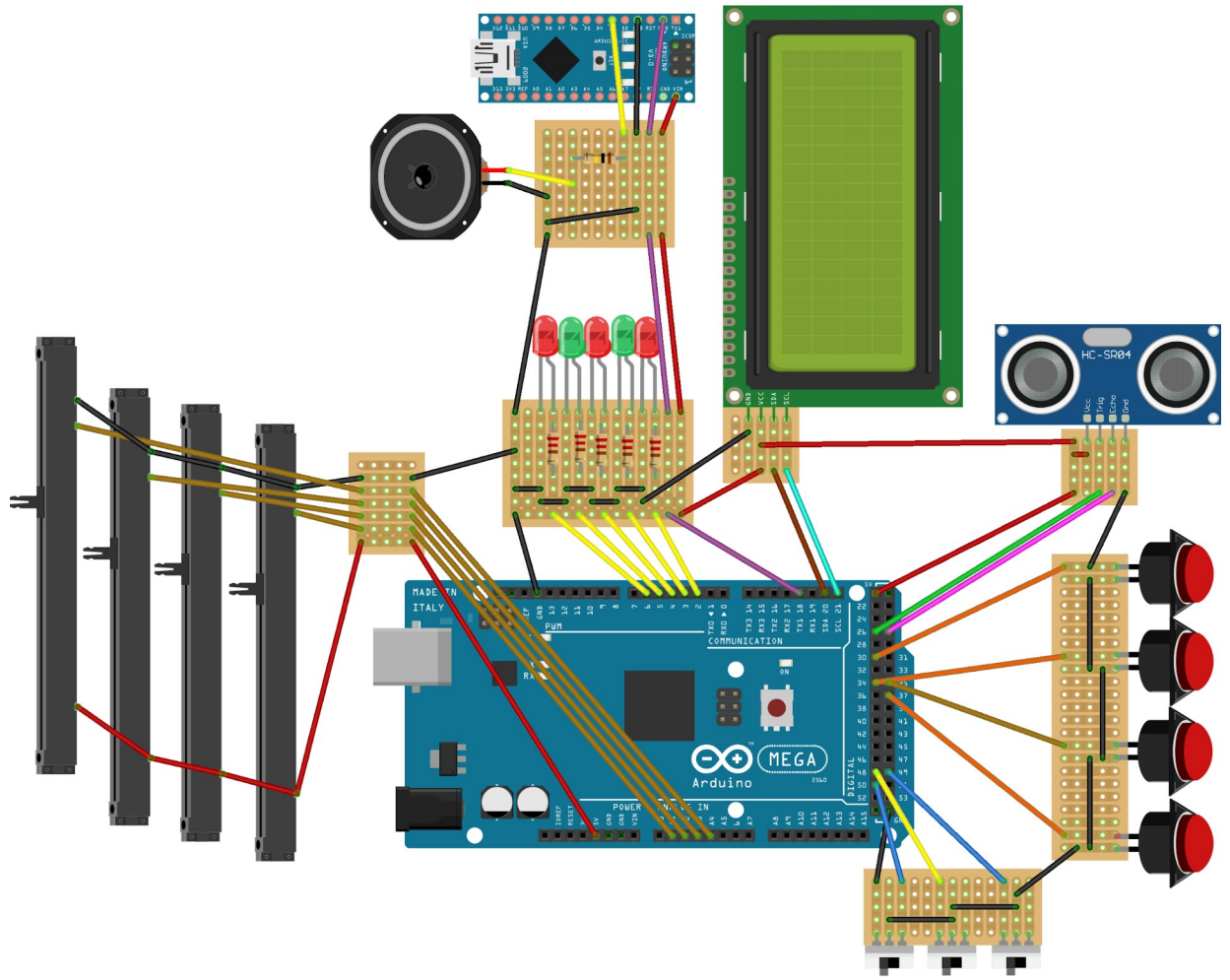


babel 0.1

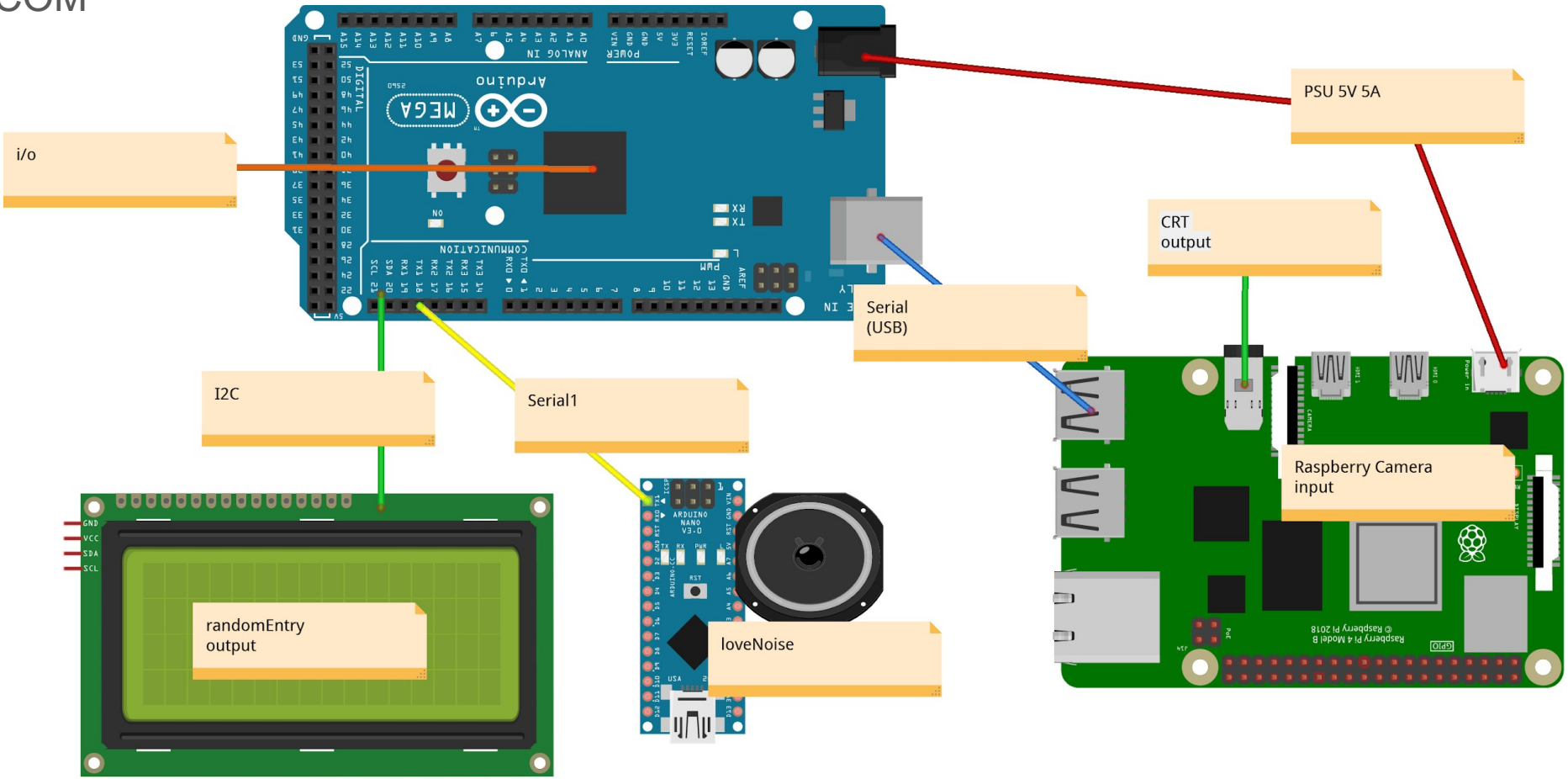


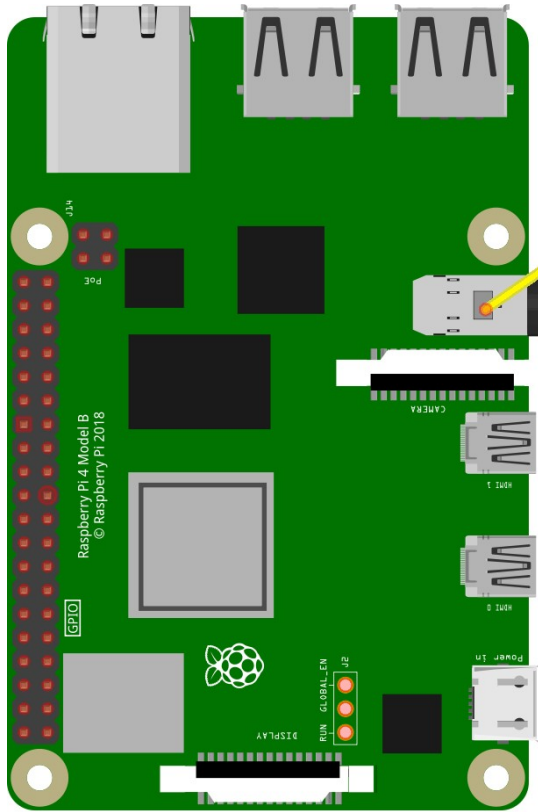
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specs

babel 0.7
connections



babel
COM





convertitore
CVSB AV
2
RF 67,25Mhz/61,25Mhz

CRT

PSU 12V 3A

babel specs

- Arduino Mega;
- Arduino Nano;
- RPi 4;

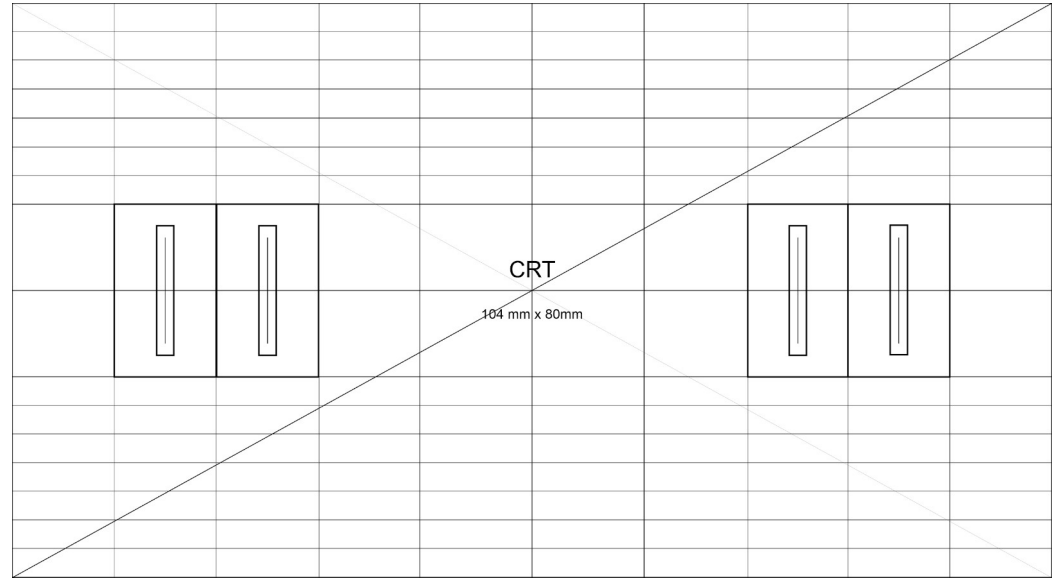
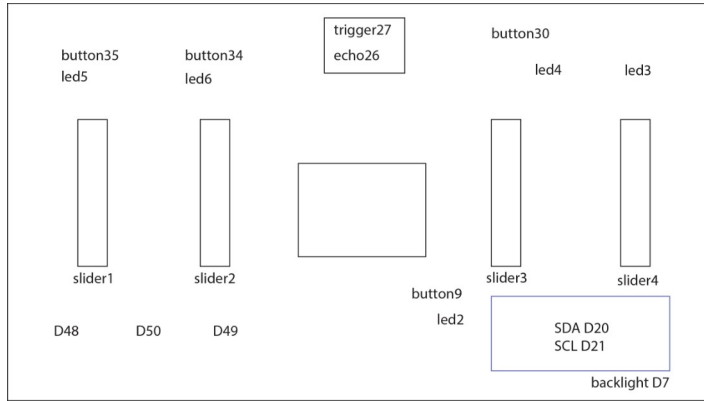
i/o:

- Monitor CRT 5";
- LCD 20x04 (I2C);
- speaker (10mh 3w);
- RPi camera v2;
- HC-SR04 (ultrasuoni);
- 4x buttons;
- 4x sliders (linear pots);
- 5x 10mm leds;
- 3x switches;

others:

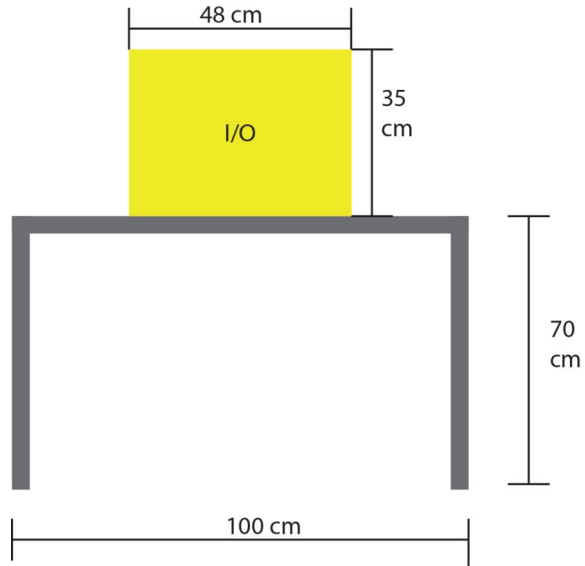
- resistors;
- wires;
- proto board Arduino Mega;
- convertitore CVSB AV > RF 67,25Mhz/61,25Mhz;
- PSU 12v 3A;
- PSU 5v 5A;
- Processing 2.7.3.3;
- Arduino IDE 1.8.12;
- Inkscape;

babel specs

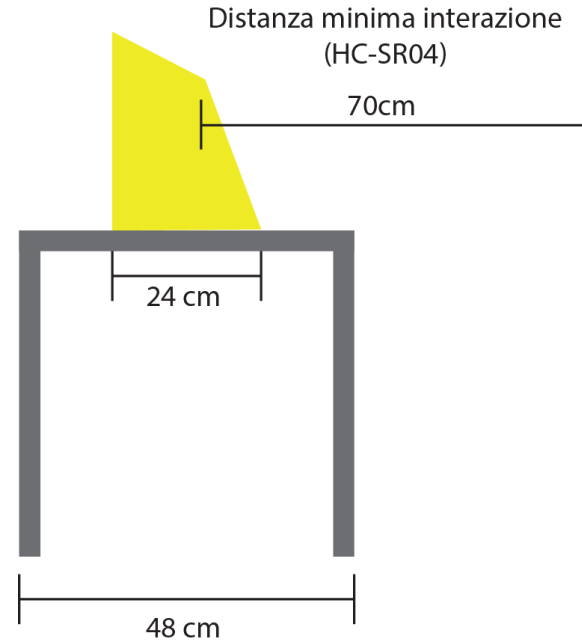


pannello frontale
482 mm x 266 mm

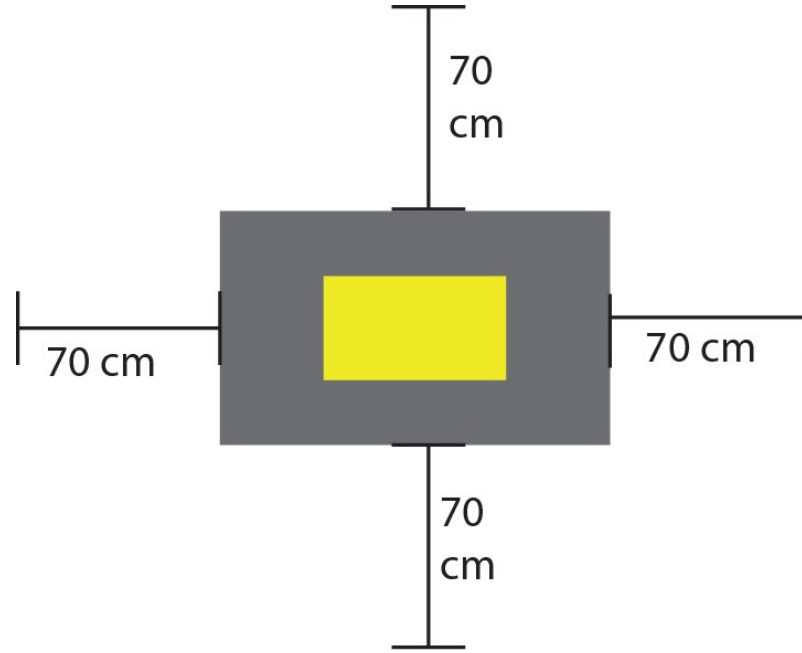
frontale

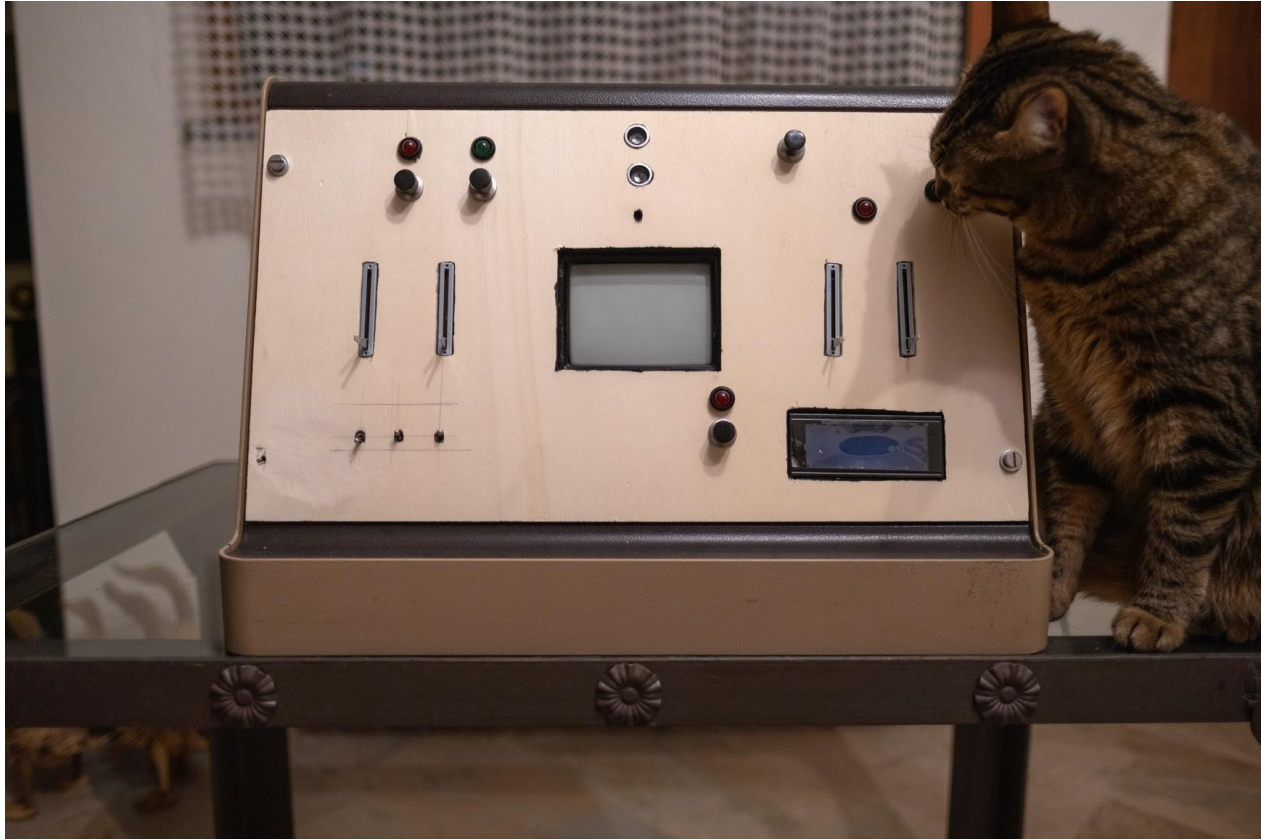


laterale



babel
specs





babel 0.6

riferimenti

- James Bridle – Nuova Era Oscura (Nero Editions, Roma 2019 978-88-8056-057-9);
- Hito Steyerl – Duty Free Art – L'arte nell'epoca della guerra civile planetaria (Johan & Levi 2018, 978-88-6010-214-0);
- Luisella Farinotti, Barbara Grespi e Federica Villa - Harun Farocki. Pensare con gli occhi (Mimesis 2017, 978-8857542072);
- Harun Farocki Parallel I-IV (2012-2014);
- Nine Inch Nails – Background World (Add Violence, 2017);
- CSI – Unità di produzione (Tabula Rasa Elettrificata, 1997);