

Music
Technology
Group

El Bongosero: A Crowd-sourced Symbolic Dataset of Improvised Hand Percussion Rhythms Paired with Drum Patterns

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Overview



Requested by Centre de Cultura
Contemporània de Barcelona (CCCB)
to prepare an interactive installation
focused on data

Objective

Create a large-scale, open-source
crowd-sourced dataset from
consenting participants

Introduction

El Bongosero Dataset

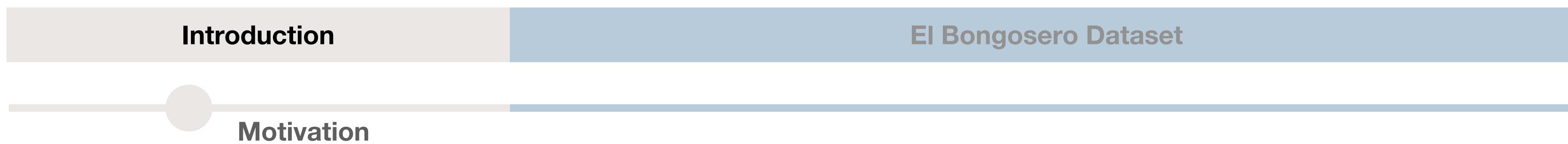
Overview

Motivation

Performed symbolic datasets are rare! Even more so, when focused on diversity of participants

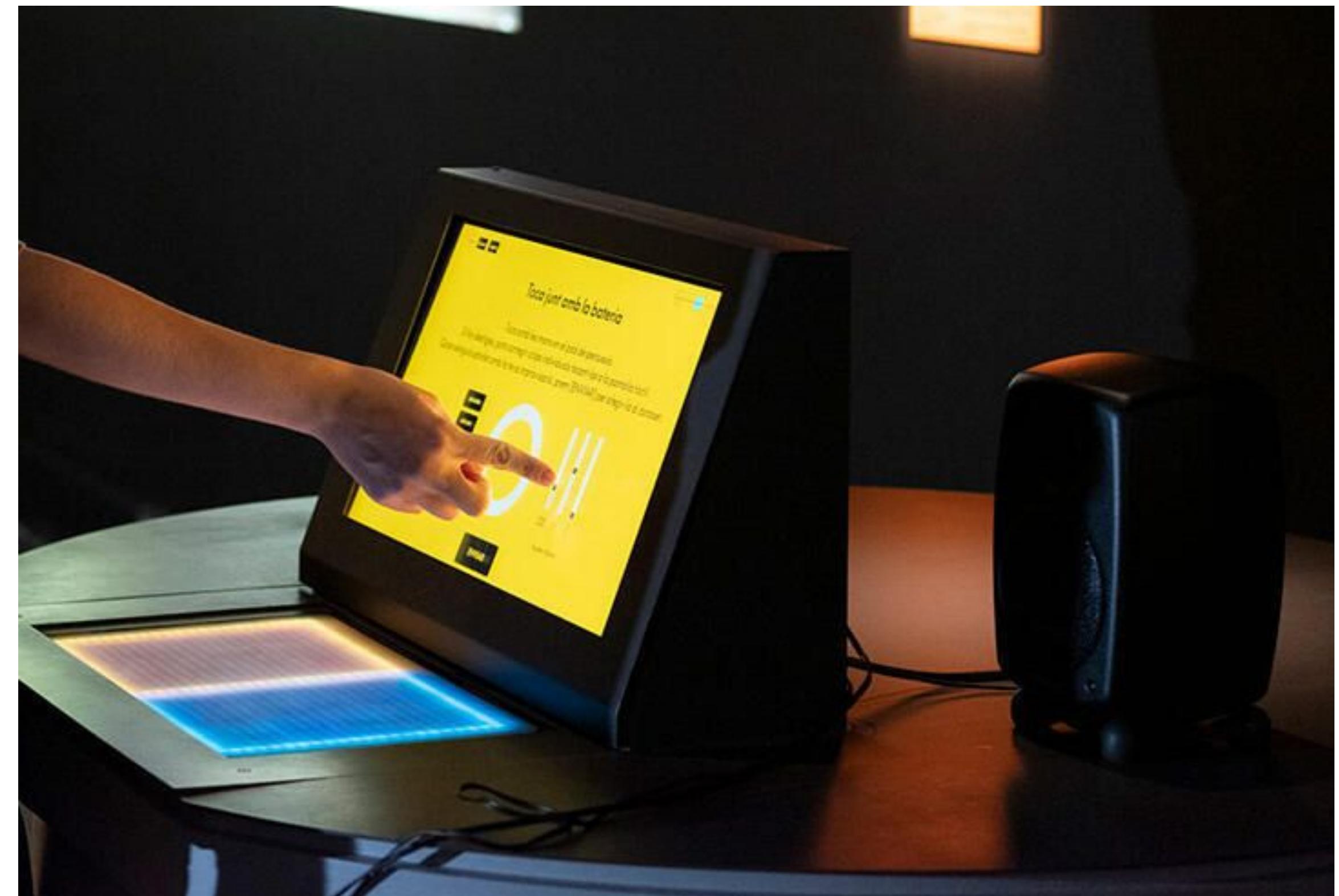
Objectives:

- Collect a large scale rhythm dataset
- Focused on improvised accompaniment
- From a set of participants with a diverse experience level



Installation Overview

- Participants were invited to use a MIDI pad to tap along to a multivoice drum pattern in a genre and tempo of their choosing
- Upon completing the task, the participant could choose to contribute their tapped, improvised sequence to our public dataset

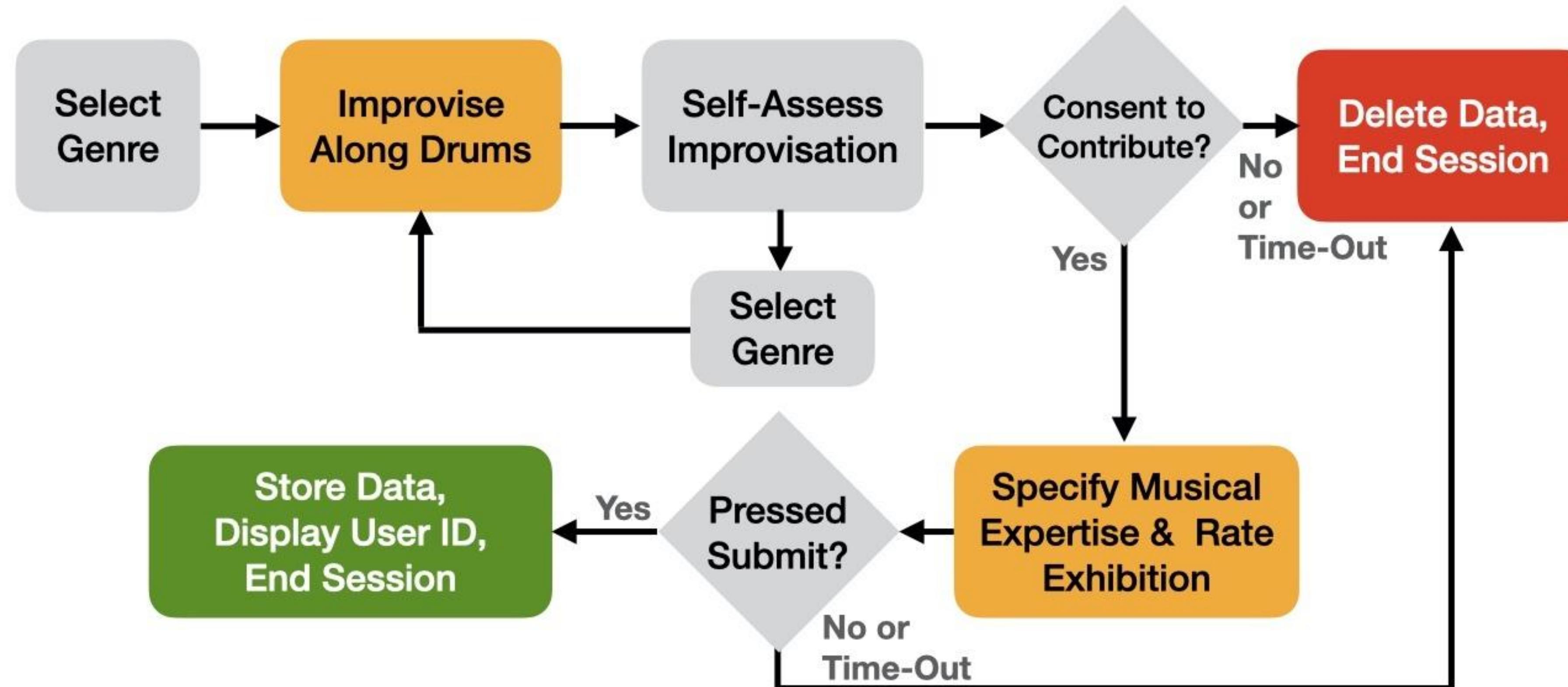


Introduction

El Bongosero Dataset

Installation

Data Collection Flow



Introduction

El Bongosero Dataset

Data Collection Flow

User Privacy

- Build trust with participants
- No demographic questions!
- Only ask to self-rate expertise
- Keep reminding users about the nature of the exhibition

How would you assess your level of musical expertise?

None Very basic Intermediate Proficient Expert

How much did you enjoy this exhibit?

Not at all Very little So-so Quite a lot Loved it!

SUBMIT

Summary

- 6,035 improvisations
- 3,184 participants

| | Level of Musical Expertise | | | | |
|-------------------|----------------------------|------|------|------|------|
| | 1 | 2 | 3 | 4 | 5 |
| No. participants | 392 | 915 | 805 | 594 | 478 |
| Attempt count | 691 | 1692 | 1536 | 1074 | 1042 |
| Mean no. attempts | 1.76 | 1.85 | 1.91 | 1.81 | 2.18 |
| Unique patterns | 433 | 720 | 691 | 562 | 553 |

Summary

<https://elbongosero.github.io/>

DOWNLOAD DATASET & API EXPLORE DATASET IN COLAB

Disco source_21 Level 4 Attempt 2

▶ 0:00 / 0:04

<img alt="A screenshot of a dataset visualization interface. At the top, there are two buttons: 'DOWNLOAD DATASET & API' and 'EXPLORE DATASET IN COLAB'. Below them are four dropdown menus set to 'Disco', 'source_21', 'Level 4', and 'Attempt 2'. A play button and a progress bar showing 0:00 / 0:04 are present. The main area displays two rows of binary data represented as vertical columns of 1s and 0s. At the bottom, there is a navigation bar with three tabs: 'Introduction' (selected), 'El Bongosero Dataset', and 'Access' (with a blue circular indicator).</p>

Introduction El Bongosero Dataset Access

Contact Us

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