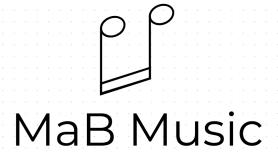
for the Cyberinet

Matthew A. Bardin (2023)



On the Cyberinet:

The Cyberinet is an electronic enhancement to the standard B-flat clarinet. By replacing the barrel with the Cyberinet, the performer and composer gain access to an integrated collection of sensors that collect various performance data. This data can be wirelessly transmitted to a computer for electronic processing and software control. An ever-growing list of optional expansions is also available to be connected to the Cyberinet to allow for the performer to customize the instrument to their performance needs.

The complete list of hardware needed for this composition is:

The Cyberinet

Button Expansion

Microphone

Audio Interface

Computer running the Max patch available here: matthewbardin.com/puzzle

The microphone should be positioned in a place where it picks up the performer with minimal feedback of the recordings.

Program Note:

A pleasant stroll through a park, built through several interconnected ideas. The whole scene can't come together until it has been built up from its various smaller pieces. Ideas often take on a different context when observed in a vacuum instead of as a whole, much like putting a large puzzle together to revel the full image.

Performance Note:

Puzzle of a Park is performed by triggering audio recordings to begin, and then looping the playback of those recordings in order to turn a solo performance into a duet, then a trio and finally a quartet. The Max patch utilizes an automated click track on channel 3 if desired for a performance. If utilizing this click track, the duration of each loop is exactly 1 minute and 21 seconds, as the click track ignores fermats. If one loop of the music is performed out of sync, continue as if this was intended. Thematically, this represents trying to fit a piece of the puzzle where it doesn't actually go. A short pause between each repetition can be done if required, but should not be an excessive pause. Approximate time stamps are given above the beginning of each loop.

When performing with the Cyberinet, the button expansion is recommended but not required. Button 1 is programmed to trigger new recordings and playback. If not utilizing the button expansion, a quick, counterclockwise rotation of the Cyberinet will achieve the same goal. Button 2 on the expansion can be used to stop the playback in the event of a catastrophic failure. All of the gesture symbols are discussed in "On Notation".

Excluding tempo changes, the quarter note pulse is constant throughout the score. Occasional courtesy reminders are present throughout the solo line.

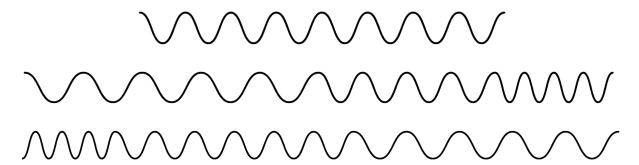
On Notation:

This version of the score is intended to show the intended allignment of the previously recorded loops along with the voice currently being played by the soloist. If the soloist only wants to look at their line without the playback indicated, that part is available at matthewbardin.com/puzzle. In this score, the performer should perform their line (the top of each system) from beginning to end without stopping.

Stemless notes shown with a bracketed, square notehead indicate when Button 1 should be pressed, or the rotation gesture should be performed (rotation indicated with circular arrow). Do not do both at the same time, choose one for your performance. These gestures, will cause the current recording to stop, start the new recording, and playback all previous recordings in sync. These triggers happen instantly, so triggers should happen in time.



Notes underneath a swooping line, shown below, symbolically indicate larger, slower, bell movements. Seeing 7 fluctuations does not necessarily indicate a need for 7 bell movements. While preparing, the performer should experiment to find their ideal gesture size and speed for the effect they desire. Larger bell movements will result in more of the electronic effect, discussed in "On Electronics". The gesture should be repeated for as long as the line continues. The three unique versions of this line are shown below. The symbols indicate keeping a constant speed, speeding up, and slowing down over the source of the gesture respectively.



On Electronics:

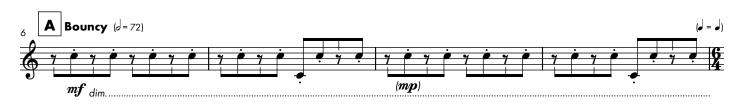
The Max patch is designed to handle all of the recording and playback for Puzzle of a Park. This is done utilizing either the button expansion, or if not present, a quick, counter clockwise rotation of the instrument. Two other effects are used to process the playback of recorded files. Airflow is utilized to control compression of the recorded files. As the performer blows more ait through the instrument, the playback volume is ducked. This is designed to keep the payback from overpowering the live performance. The final effect is controlled with the vertical bell movement. As more movements occur, sound is fed into a low level, background noise generator. This effect is a quiet mass of noises that will respond to and automatically harmonize with the pitches produced by the performer. More movement results in more sound being fed into the effect.

Transposing Condensed Score

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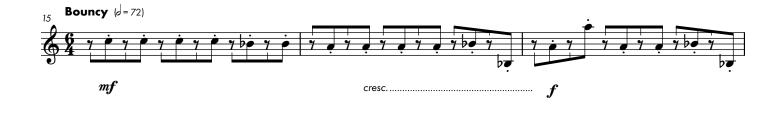
For the Cyberinet







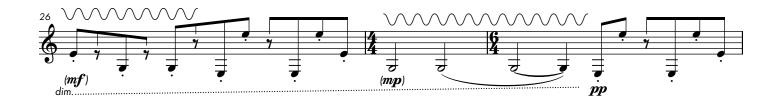


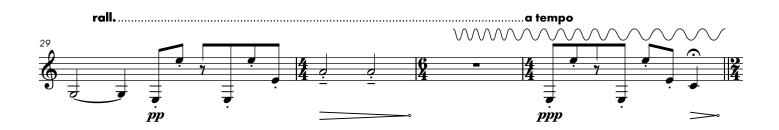




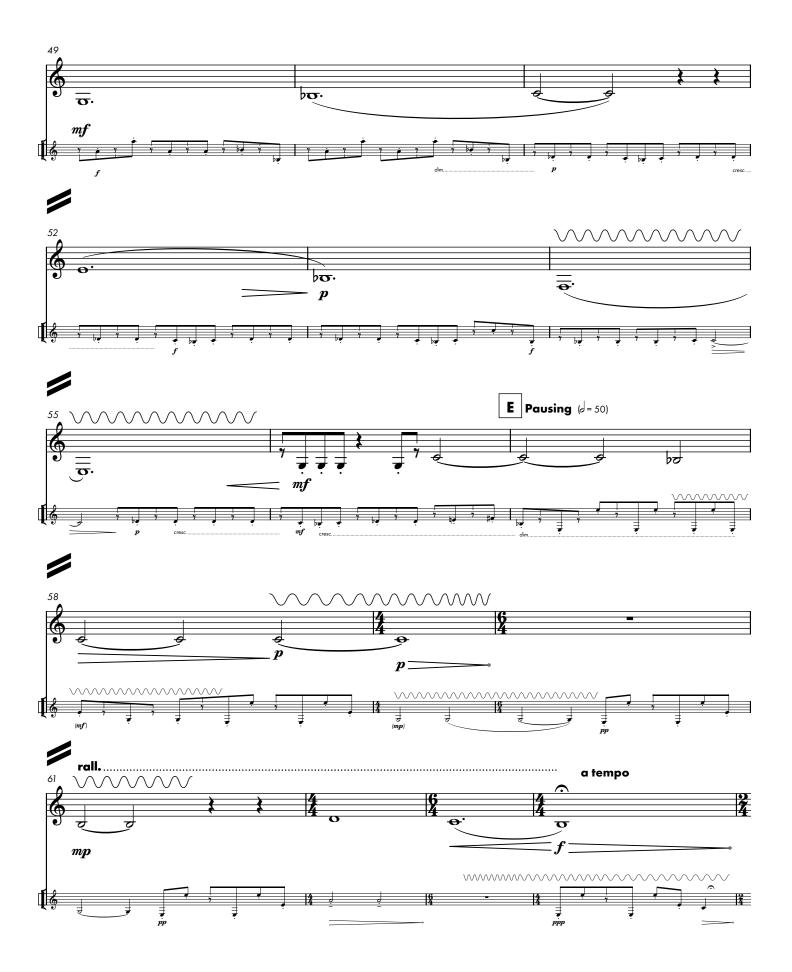








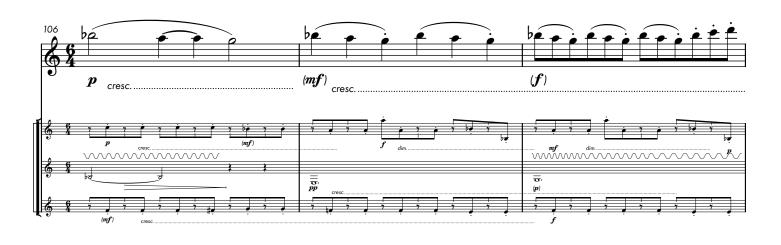


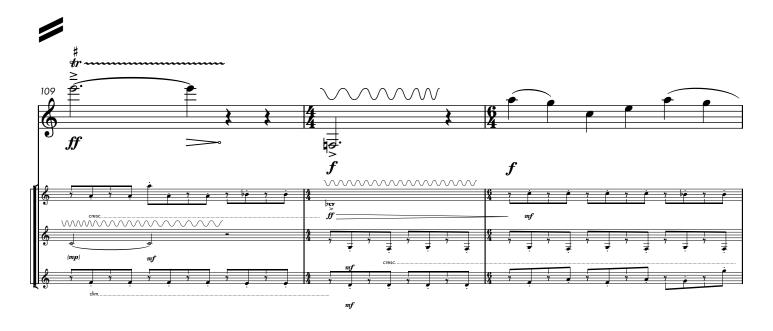










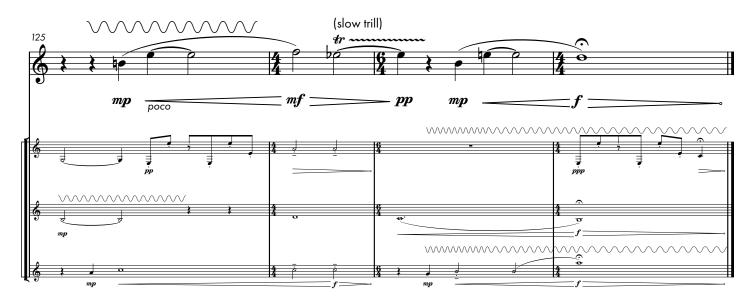








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Completed 05/15/2023 in Baton Rouge, LA. Approximately 5 minutes and 30 seconds in duration.