

O Ritual Da Sombra

for solo recorder and live electronics

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General Information

O Ritual Da Sombra is an algorithmic work for solo recorder and live electronics. Since it is generated by a computer program that uses random numbers, a different version of this work is output at each execution. Thus, it is recommended that the performer generate a new version for each concert. Also, the performers may play more than one single version on a same concert.

Durata: averagely 12'

General Performance Notes

Although this work is written for a tenor recorder, it may be performed on other recorders. The used range is C4-B5, and therefore needs to be transposed according to the instrument size.

Since this work makes use of live electronics, the recorder must be amplified with a single microphone (possibly positioned in the body of the instrument) and this signal has to be received by the Pure Data patch.

The live electronics should be controlled by the player himself using a MIDI pedal. The moment of activation are always during the half-note rests with fermati.

The live electronics should be output by two speakers in the stage, one to the left and one to the right of the performer. Care should be taken that the microphone in the recorder does not pick up the music coming from these two speakers.

Although this work contains no markings for dynamics, the performer may create small volume nuances according to his/hers interpretation of the musical phrases (i.e. *espressivo*).

All accidentals in this score are notated as sharp.

Generating a unique version

In order to generate a unique version of this work, it is necessary to have the four following programs installed on a Linux or Windows computer:

- The programs `ritual.out` (for Linux) or `ritual.EXE` (for Windows), which can be freely obtained by sending a request message to the address gilberto.agostinho.f@gmail.com
- LilyPond, which can be downloaded at www.lilypond.org

To generate a score, simply execute the file `ritual.out` or `ritual.EXE` (depending on your OS) and wait until a score is automatically generated as a pdf file, together with a LilyPond file (`.ly`), a MIDI file (`.midi`) and a file named `datafile.txt` which has to be used by the Pure Data patch in order to produce the live electronic part. To generate a new score, simply run the executable file once again.

IMPORTANT NOTE: after generating a score, another execution of `ritual.out` or `ritual.EXE` will result in the loss of all previously generated files (they will all be overwritten)! If you wish to keep a particular version of this composition, please copy all its files to a safe location.

Using the Pure Data patch

Every generated version of this work will have a file named `datafile.txt` (which is unique to each version). Below are the actions (in order) that have to be taken in order for the Pure Data patch to work:

- Make sure that the microphone input and the two stereo loudspeakers output are properly configured
- Turn on the DSP toggle
- Set the Master Volume slider to a reasonable level
- Test that the recorder is now being amplified
- Click on the button “Load datafile” and select the file `datafile.txt` of the version you intend to perform
- Configure the MIDI pedal by setting its controller and channel numbers
- Test the MIDI pedal: stepping on it should now move the “Event No.” counter forwards
- Click on the “Reset” button to bring the counter back to the initial value

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$\text{♩} = 216$

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

This page of musical notation for guitar contains ten staves of music, with measures numbered 19 through 37. The notation includes various chords, scales, and technical markings such as '5' for five-finger patterns and '3' for triplets. Arrows point from the measure numbers to the specific measures on the staves.

Measures 19-20: Staff 1. Measure 19 features a five-finger pattern (5) and a triplet (3). Measure 20 features a triplet (3).

Measures 21-22: Staff 2. Measure 21 features a five-finger pattern (5). Measure 22 features a five-finger pattern (5).

Measures 23-24: Staff 3. Measure 23 features a five-finger pattern (5). Measure 24 features a five-finger pattern (5).

Measures 25-26: Staff 4. Measure 25 features a triplet (3). Measure 26 features a five-finger pattern (5).

Measures 27-28: Staff 5. Measure 27 features a five-finger pattern (5). Measure 28 features a triplet (3).

Measures 29-30: Staff 6. Measure 29 features a five-finger pattern (5). Measure 30 features a five-finger pattern (5).

Measures 31-32: Staff 7. Measure 31 features a triplet (3). Measure 32 features a triplet (3).

Measures 33-34: Staff 8. Measure 33 features a five-finger pattern (5). Measure 34 features a five-finger pattern (5).

Measures 35-37: Staff 9. Measure 35 features a five-finger pattern (5). Measure 36 features a five-finger pattern (5). Measure 37 features a five-finger pattern (5).

38 39 40

41 42 43

44 45

46 47

48 49 50

51 52 53

54 55 56 57

58 59 60

61 62

This musical score consists of nine staves of music, each containing a single melodic line. The notation is in treble clef with a key signature of one sharp (F#). The measures are numbered 63 through 83, with each number enclosed in a circle and an arrow pointing to the corresponding measure. The music features a variety of note values, including quarter, eighth, and sixteenth notes, as well as rests. Some measures contain triplets or quintuplets, indicated by the numbers 3 and 5 above the notes. The overall style is that of a technical exercise or a short piece for a single instrument.

63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83

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*) Wait until the electronic sounds completely fade out.