

O Ritual Da Sombra

for solo recorder and live electronics

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(2015)

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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$\text{♩} = 216$

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17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36

This musical score is a single melodic line on a treble clef staff, spanning 23 measures. The key signature has one sharp (F#). The score includes various musical notations such as eighth notes, sixteenth notes, and rests, along with fingerings (5, 3) and circled measure numbers (37-59).

The measures are numbered 37 through 59, with some measures containing fingerings (5, 3) and others containing rests. The notation includes eighth notes, sixteenth notes, and rests, with some measures featuring a 5-finger fingering and others a 3-finger fingering.

Measures 37-59:

- Measure 37: Eighth notes, 5-finger fingering.
- Measure 38: Eighth notes, 5-finger fingering.
- Measure 39: Eighth notes, 5-finger fingering.
- Measure 40: Eighth notes, 3-finger fingering.
- Measure 41: Eighth notes, 5-finger fingering.
- Measure 42: Eighth notes, 3-finger fingering.
- Measure 43: Eighth notes, 5-finger fingering.
- Measure 44: Eighth notes, 5-finger fingering.
- Measure 45: Eighth notes, 3-finger fingering.
- Measure 46: Eighth notes, 3-finger fingering.
- Measure 47: Eighth notes, 3-finger fingering.
- Measure 48: Eighth notes, 5-finger fingering.
- Measure 49: Eighth notes, 5-finger fingering.
- Measure 50: Eighth notes, 5-finger fingering.
- Measure 51: Eighth notes, 5-finger fingering.
- Measure 52: Eighth notes, 5-finger fingering.
- Measure 53: Eighth notes, 5-finger fingering.
- Measure 54: Eighth notes, 5-finger fingering.
- Measure 55: Eighth notes, 5-finger fingering.
- Measure 56: Eighth notes, 3-finger fingering.
- Measure 57: Eighth notes, 3-finger fingering.
- Measure 58: Eighth notes, 5-finger fingering.
- Measure 59: Eighth notes, 5-finger fingering.

This musical score consists of ten staves of music, each containing measures 60 through 80. The notation is in a single melodic line on a five-line staff. The key signature has one sharp (F#), and the time signature is 4/4. The music features a variety of note values, including eighth, quarter, and half notes, as well as rests. Many measures contain triplets, indicated by a '3' over the notes. Some measures also feature a '5' over a group of notes, likely indicating a quintuplet. The melody is characterized by frequent chromaticism, with many notes having accidentals (sharps and naturals). The staves are numbered 60 through 80 in circles at the bottom of each measure. The notation includes various musical symbols such as stems, beams, and slurs.

60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

81 82

83 84

85 86

87 88

89 90

91 92 93

94 95

96 97

98 99

100 *)

*) Wait until the electronic sounds completely fade out.