

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 19 20 21

This musical score is for guitar, spanning measures 22 to 41. It is written in a key with one sharp (F#) and a 2/4 time signature. The notation includes various rhythmic values, accidentals, and fingerings. Measures 22 and 23 feature a half-note melody with a circled dot above the note. Measures 24 and 25 continue this melody. Measures 26 and 27 introduce a complex rhythmic pattern with a five-measure rest (5) and a five-measure eighth-note run (5). Measures 28 and 29 feature a five-measure eighth-note run (5) and a three-measure eighth-note run (3). Measures 30 and 31 continue the five-measure eighth-note run (5). Measures 32 and 33 feature a five-measure eighth-note run (5) and a three-measure eighth-note run (3). Measures 34 and 35 continue the five-measure eighth-note run (5). Measures 36 and 37 feature a five-measure eighth-note run (5) and a three-measure eighth-note run (3). Measures 38 and 39 continue the five-measure eighth-note run (5). Measures 40 and 41 feature a five-measure eighth-note run (5) and a three-measure eighth-note run (3).

22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41

This page contains musical notation for guitar, organized into nine staves. The measures are numbered 42 through 64, with each number enclosed in a circle and an upward-pointing arrow indicating the fret position. The notation includes various rhythmic values, accidentals, and technical markings such as triplets, quintuplets, and slurs.

Measures 42-43: Staff 1. Measure 42 features a triplet of eighth notes. Measure 43 features a half note.

Measures 44-46: Staff 2. Measure 44 features a half note. Measure 45 features a half note. Measure 46 features a half note.

Measures 47-48: Staff 3. Measure 47 features a quintuplet of eighth notes. Measure 48 features a half note.

Measures 49-50: Staff 4. Measure 49 features a half note. Measure 50 features a triplet of eighth notes.

Measures 51-52: Staff 5. Measure 51 features a triplet of eighth notes. Measure 52 features a triplet of eighth notes.

Measures 53-55: Staff 6. Measure 53 features a half note. Measure 54 features a half note. Measure 55 features a half note.

Measures 56-58: Staff 7. Measure 56 features a half note. Measure 57 features a triplet of eighth notes. Measure 58 features a half note.

Measures 59-61: Staff 8. Measure 59 features a quintuplet of eighth notes. Measure 60 features a quintuplet of eighth notes. Measure 61 features a half note.

Measures 62-64: Staff 9. Measure 62 features a half note. Measure 63 features a half note. Measure 64 features a triplet of eighth notes.

This page contains ten staves of musical notation, likely for guitar, featuring a variety of musical notations and numbered fingerings. The notation includes notes, rests, and accidentals (sharps and naturals). Fingerings are indicated by numbers in circles with arrows pointing to the notes. The staves are numbered 65 through 84, with some staves containing multiple fingerings for different notes. The music is written in a key signature of one sharp (F#) and a time signature of 4/4. The notation includes various musical symbols such as eighth notes, quarter notes, half notes, and full notes, as well as rests and accidentals. The fingerings are numbered 65 through 84, with some staves containing multiple fingerings for different notes. The music is written in a key signature of one sharp (F#) and a time signature of 4/4. The notation includes various musical symbols such as eighth notes, quarter notes, half notes, and full notes, as well as rests and accidentals. The fingerings are numbered 65 through 84, with some staves containing multiple fingerings for different notes.

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.