

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

O Ritual Da Sombra

Gilberto Agostinho

$\text{♩} = 216$

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This musical score consists of ten staves, each containing a single melodic line in treble clef. The key signature has one sharp (F#). The notation includes various note values (quarter, eighth, sixteenth, and dotted notes), rests, and accidentals. Fingerings are indicated by numbers 3, 5, and 7. Breath marks (arcs over notes) are present in measures 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, and 39. The measures are numbered 20 through 39, with each number enclosed in a circle and an arrow pointing to the corresponding measure.

Measures 20-39:

- Measure 20: Starts with a half note G4, followed by a quarter note A4, a quarter note B4, and a quarter note C5. A breath mark is over the first four notes. Fingering 5 is under the first four notes.
- Measure 21: Starts with a half note D5, followed by a quarter note E5, a quarter note F#5, and a quarter note G5. A breath mark is over the first four notes. Fingering 5 is under the first four notes.
- Measure 22: Starts with a half note A5, followed by a quarter note B5, a quarter note C6, and a quarter note D6. A breath mark is over the first four notes. Fingering 5 is under the first four notes.
- Measure 23: Starts with a half note E6, followed by a quarter note F#6, a quarter note G6, and a quarter note A6. A breath mark is over the first four notes. Fingering 5 is under the first four notes.
- Measure 24: Starts with a half note B6, followed by a quarter note C7, a quarter note D7, and a quarter note E7. A breath mark is over the first four notes. Fingering 5 is under the first four notes.
- Measure 25: Starts with a half note F#7, followed by a quarter note G7, a quarter note A7, and a quarter note B7. A breath mark is over the first four notes. Fingering 5 is under the first four notes.
- Measure 26: Starts with a half note C8, followed by a quarter note D8, a quarter note E8, and a quarter note F#8. A breath mark is over the first four notes. Fingering 5 is under the first four notes.
- Measure 27: Starts with a half note G8, followed by a quarter note A8, a quarter note B8, and a quarter note C9. A breath mark is over the first four notes. Fingering 5 is under the first four notes.
- Measure 28: Starts with a half note D9, followed by a quarter note E9, a quarter note F#9, and a quarter note G9. A breath mark is over the first four notes. Fingering 5 is under the first four notes.
- Measure 29: Starts with a half note A9, followed by a quarter note B9, a quarter note C10, and a quarter note D10. A breath mark is over the first four notes. Fingering 5 is under the first four notes.
- Measure 30: Starts with a half note E10, followed by a quarter note F#10, a quarter note G10, and a quarter note A10. A breath mark is over the first four notes. Fingering 5 is under the first four notes.
- Measure 31: Starts with a half note B10, followed by a quarter note C11, a quarter note D11, and a quarter note E11. A breath mark is over the first four notes. Fingering 5 is under the first four notes.
- Measure 32: Starts with a half note F#11, followed by a quarter note G11, a quarter note A11, and a quarter note B11. A breath mark is over the first four notes. Fingering 5 is under the first four notes.
- Measure 33: Starts with a half note C12, followed by a quarter note D12, a quarter note E12, and a quarter note F#12. A breath mark is over the first four notes. Fingering 5 is under the first four notes.
- Measure 34: Starts with a half note G12, followed by a quarter note A12, a quarter note B12, and a quarter note C13. A breath mark is over the first four notes. Fingering 5 is under the first four notes.
- Measure 35: Starts with a half note D13, followed by a quarter note E13, a quarter note F#13, and a quarter note G13. A breath mark is over the first four notes. Fingering 5 is under the first four notes.
- Measure 36: Starts with a half note A13, followed by a quarter note B13, a quarter note C14, and a quarter note D14. A breath mark is over the first four notes. Fingering 5 is under the first four notes.
- Measure 37: Starts with a half note E14, followed by a quarter note F#14, a quarter note G14, and a quarter note A14. A breath mark is over the first four notes. Fingering 5 is under the first four notes.
- Measure 38: Starts with a half note B14, followed by a quarter note C15, a quarter note D15, and a quarter note E15. A breath mark is over the first four notes. Fingering 5 is under the first four notes.
- Measure 39: Starts with a half note F#15, followed by a quarter note G15, a quarter note A15, and a quarter note B15. A breath mark is over the first four notes. Fingering 5 is under the first four notes.

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This musical score is for guitar, spanning measures 61 to 83. It is written in treble clef with a key signature of one sharp (F#). The notation includes various rhythmic values, accidentals, and fingerings. Measures 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, and 83 are all marked with circled numbers and arrows pointing to specific notes or groups of notes. The score features several complex passages, including a five-measure run in measure 61, a triplet in measure 62, a triplet in measure 64, a five-measure run in measure 66, a triplet in measure 69, a five-measure run in measure 70, a triplet in measure 72, a five-measure run in measure 74, a triplet in measure 76, a five-measure run in measure 79, and a triplet in measure 82. The notation includes many accidentals, particularly sharps and naturals, and some notes are beamed together in groups. The overall style is that of a technical or advanced guitar exercise.

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*) Wait until the electronic sounds completely fade out.