

**SEBASTIANO
DESSANAY** ■

Triangles

February 2009

Triangles

Sound installation for 9 amplified double basses.

to Pythagoras

INSTRUMENTATION

9 Double basses amplified through means of piezoelectric or acoustic transducers.

The sound of the double basses goes into the desk and is sent back through a system of surround speakers.

The volume can be adjusted for each single player, and can very slightly follow the dynamics in the score.

Hanging microphones should be placed above each group of player (see figure 1)

Each group of 3 double basses has a monitor facing the centre of the triangle to which only their sound is sent (see figure).

LIGHTS

Each group of 3 double basses is lightened by a set of lights of the same colour.

3 different contrasting colours should be used for the 3 groups according to the following cri

- group 1 (players 1 2 3): a light and clear colour (yellow)
- group 2 (4 5 6): a strong rich colour (red)
- group 3 (7 8 9): a dark colour (blue)

An extra set of lights (of the same colours) should be covering the whole space.

Intensity should follow the dynamics in the score. Moving lights can be used at letters O and P.

SETTING

The 9 players are divided into 3 groups of 3 players each.

The 3 groups are positioned to form the 3 corners of a triangle at the centre of which stands the conductor (see figure).

A three speakers system is positioned in correspondance of the three groups.

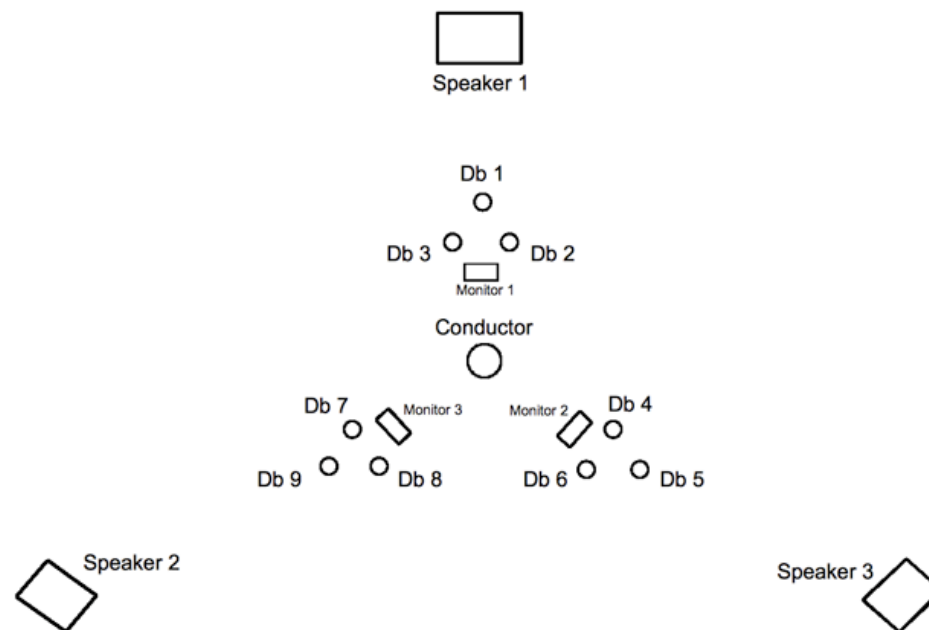


FIGURE 1: setting

NOTATION

Each loop is repeated according to the indication at the end of each bar.

The vertical line at the end of arrows indicates a stop after the total number of repetitions.

Time signature of each loop is 3/4 and it is only used once in the first bar of each part.

Harmonics are the only sounds produced throughout the piece.
Harmonic symbols are only used in the first bar of each part.
Harmonic diversion from equal temperament has not been notated.

Clefs are used only at beginning of systems.

Bowings and string numbers are used only at first occurrence of each loop.

Time line durations are approximate in seconds and minutes:
small numbers indicate duration of relative events, big numbers indicate total time from beginning.

Time line is roughly proportional.

Rests indicate a stop until next event.

Pause length is indicated in approximate durations on the time line.

Metronome marks are approximate and they indicate a range within which each loop should be played at slightly different speeds by each player.

There is no vertical alignment between notes on different staves unless stated.

TRIANGLES

Sebastiano Dessanay 2009

Time line

ca 2" ca 2" ca 3" ca 3" ca 35"

A ♩ = ca 58 - 72
harmonics ad lib.

Double Bass 1

Double Bass 2

Double Bass 3



T.L. ca 1'00"

B

Db.1

Db.2

Db.3

T.L.

ca 9"

ca 1'40"

ca 2"

Db.1

p

dying away

Db.2

p

dying away

Db.3

p

dying away

Db.4

C

harmonics ad lib.

III

II

p

Db.5

Db.6

T.L. ca 1" ca 2'25"

Db.4 *p* *mp* *mf* x 4 x 6

Db.5 harmonics ad lib. *p* *mp* *mf* x 8 x 6

Db.6 harmonics ad lib. *mp* x 7

T.L. ca 6" → ca 3'00"

Db.4 x 9 *dying away*

Db.5 x 12 *dying away*

Db.6 x 8 *mf* *dying away*

T.L. ← ca 6" ca 2" ca 2" ca 3" ca 2" ca 3'40"

Db.4

Db.5

Db.6

Db.7

Db.8

Db.9

E harmonics ad lib.
IV III II
mp

mp

harmonics ad lib.
III IV II III
mp

mp x 3

harmonics ad lib.
III II IV II III
mp

F *mf* x 5

mf x 4

T.L.

Db.7

mf x 5

f x 8

dying away

Db.8

x 8

f

mp x 16

IV II III I II III

Db.9

x 8

f

x 8

IV III IV

T.L.

ca 7" ca 10" ca 8" ca 9" → ca 4'55"

Db.1

Db.2

Db.3

Db.4

Db.5

Db.6

Db.7

Db.8

Db.9

mp sempre

dying away

G

Db.2 *mp* x 12

Db.5 *mp* x 14 = ca. 72 - 92

H

Db.7 *mp* x 14

dying away

T.L. ← ca 9" ca 9" ca 9" ca 9" ca 9" → ca 5'30"

Db.1 *mp* *mf* x 13

Db.4 *mp* *mf* x 14

Db.6 *mf* x 11

Db.9 *mp* *mf* x 8

The image shows a musical score for a double bass ensemble. At the top, a timeline for the T.L. (Timpani) is marked with intervals of approximately 9 inches, starting from the left and ending at approximately 5 feet 30 inches on the right. Below this, there are nine staves for double basses, labeled Db.1 through Db.9. Each staff has a treble clef and a key signature of one flat (B-flat). The score includes several musical excerpts with dynamics and repeat signs. Db.1 has a melodic line starting at the first 9-inch interval, marked *mp* and *mf*, with a repeat sign and a multiplier of x 13. Db.4 has a similar melodic line starting at the second 9-inch interval, also marked *mp* and *mf*, with a repeat sign and a multiplier of x 14. Db.6 has a melodic line starting at the fourth 9-inch interval, marked *mf*, with a repeat sign and a multiplier of x 11. Db.9 has a melodic line starting at the fifth 9-inch interval, marked *mp* and *mf*, with a repeat sign and a multiplier of x 8. There are also some horizontal lines and arrows on the staves, possibly indicating bowing or playing techniques. A vertical bar line is present between Db.8 and Db.9.

T.L. ← ca 9" ca 6" ca 3" ca 9" ca 9" ca 6'00"

Db.1

Db.2

Db.3

Db.4

Db.5

Db.6

Db.7

Db.8

Db.9

Db.3 *f* x 10

Db.5 *f* x 12

Db.8 *f* x 10

Db.2 *f* x 11

J

Detailed description: This is a musical score for a double bass ensemble. It features nine staves labeled Db.1 through Db.9, and a top line labeled T.L. The score is divided into sections by vertical dashed lines, with dimensions 'ca 9"', 'ca 6"', 'ca 3"', 'ca 9"', and 'ca 9"' indicating the length of these sections. The total length is marked as 'ca 6'00"'. Musical notations include treble clefs, dynamic markings (*f*), and repeat signs with first and second endings. Specific musical phrases are marked with 'x 10', 'x 11', and 'x 12'. A box containing the letter 'J' is placed above the Db.8 staff. The notation includes various line styles (solid, double, wavy) and arrows indicating movement or performance techniques.

T.L. ca 9" ca 3" ca 6'40"

Db.1 *mf* x 16

Db.2

Db.3

Db.4 *mf* x 12

Db.5

Db.6

K

Db.7 *mf* x 10

Db.8

Db.9

ca 7'40"

T.L.

L

M1 ♩ = ca 92 - 112 x 3 **M3** x 3

Db.1 *f* più mosso *p* lento *f* più mosso *p* lento *accel.* *sempre f* *f*

Db.2 *sempre f* *f*

Db.3 *sempre f* *f* last repeat dim.

M2 ♩ = ca 92 - 112 x 3

section starts at half of third repetition above

Db.4 *sempre f*

Db.5 *sempre f*

Db.6 *sempre f*

N ♩ = ca 112 - 132

Repeat until next Db.1 entrance

Db.7 starts at the end of third repetition of M3 *mf*

Repeat until next Db.1 entrance *mf*

Repeat until next Db.1 entrance *mf*

entrances every ca 3"

ca 8'30"
ca 9" →

T.L. 

Db.1 *mp* *cresc. e accel. poco a poco* Repeat until next cued entrance

Db.2 *mp* *cresc. e accel. poco a poco* Repeat until next cued entrance

Db.3 *mp* *cresc. e accel. poco a poco* Repeat until next cued entrance

Db.4 *mf* *cresc. e accel. poco a poco* Repeat until next cued entrance

Db.5 *mf* *cresc. e accel. poco a poco* Repeat until next cued entrance

Db.6 *mf* *cresc. e accel. poco a poco* Repeat until next cued entrance

Db.7 *v*

Db.8 *v*

Db.9 *v*

T.L. ← ca 9" ca 6" entrances every ca 3" ca 8'55"

Db.1 *sempre cresc.* *f* Repeat until next cued entrance

Db.2 *sempre cresc.* *f* Repeat until cued stop

Db.3 *sempre cresc.* *f* Repeat until cued stop

Db.4 *sempre cresc.* *f* Repeat until cued stop

Db.5 *sempre cresc.*

Db.6 *sempre cresc.*

Db.7 **P** *f* = ca 120 -140

Db.8 *f*

Db.9

Detailed description: This is a musical score for a double bass ensemble. It features nine staves labeled Db.1 through Db.9 and a top line labeled T.L. The score is divided into sections by vertical dashed lines. The first section, from the start to the first dashed line, is marked 'ca 9"'. The second section, between the first and second dashed lines, is marked 'ca 6"'. The third section, between the second and third dashed lines, is marked 'entrances every ca 3"'. The final section, from the third dashed line to the end, is marked 'ca 8'55"'. Each double bass part (Db.1-6) begins with the instruction 'sempre cresc.' and later has a dynamic marking 'f'. Db.7 has a dynamic marking 'f' and a tempo marking '♩ = ca 120 -140'. Db.8 has a dynamic marking 'f'. The T.L. part has a dynamic marking 'f'. Performance instructions include 'Repeat until next cued entrance' for Db.1, and 'Repeat until cued stop' for Db.2, Db.3, Db.4, and Db.8. A box containing the letter 'P' is placed above the Db.7 staff.

ca 9'20"

T.L.

Db.1 *ff* as fast as possible *fff* stop

Db.2 *ff* as fast as possible *fff* stop

Db.3 *ff* as fast as possible *fff* stop

Db.4 *ff* as fast as possible *fff* stop

Db.5 *f* *ff* as fast as possible *fff* stop
Repeat until cued stop

Db.6 *ff* as fast as possible *fff* stop
Repeat until cued stop

Db.7 *ff* as fast as possible *fff* x 9 and stop
Unison

Db.8 *ff* as fast as possible *fff* Unison

Db.9 *ff* as fast as possible *fff* Unison