

EDUARDO ROJO

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HUMAN PHYSIOLOGY

# Chapter 1: The physiology of love

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FOR VIBRAPHONE AND ORCHESTRA

<https://eduardo-rojo.com/>

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(2019)

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Commissioned by CODARTS  
Recorded in De Doelen (Rotterdam, The Netherlands)

Human Physiology, Chapter 1: The physiology of love  
for orchestra (world premier)  
17 October 2019 | Maaspodium, Grote Zaal  
CODARTS Contemporary Orchestra,  
conducted by Hans Leenders,  
soloist Vincent Houdijk.

<https://eduardo-rojo.com/>

## INSTRUMENTATION

Flute 1 (double piccolo and alto flute)  
Flute 2 (double piccolo and alto flute)  
Clarinet 1 (Bb)  
Clarinet 2 (Bb)  
Bass Clarinet

Alto Sax  
Tenor Sax  
Baritone Sax  
Tenor Sax (double alto sax)

French Horn  
Trumpet 1-2 (Bb)  
Tenor Trombone 1-2  
Bass Trombone

Percussion 1-2:

Set-up 1:

Marimba  
Glockenspiel  
Suspended cymbal

Set-up 2:

2 congas  
2 bongo's  
1 snare  
1 kick-drum  
1 rack with tam-tam and if needed one (low) gong  
Different small instruments

Set-up 3:

Grand casa  
3 timpani: 29'(f-b), 26'(b-f), 23'(e-a)  
Suspended cymbal

Celesta  
Jazz Piano  
Electric Guitar  
Double upright bass  
Drum set

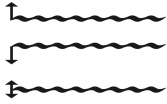
Soloist: Vibraphone (Vincent Houdijk)

Violin I (3)  
Violin II (3)  
Viola (2)  
Cello (2)  
Contrabass (1)

PERFORMANCE NOTES

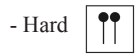


Repeat at the player's own tempo, independent of conductor, stop immediately at cue at end of line



Trill (as small as possible, 1/2 step at the most), above, below or both

Percussion sticks:



Duration: ca. 12'00"

<https://eduardo-rojo.com/>

# Chapter 1: The physiology of love

FOR VIBRAPHONE AND ORCHESTRA

Eduardo Rojo  
(2019)

(♩ = 100) (♩ = ♪)

Flute 1  
To Alto Flute

Alto Flute

Clarinet in Bb 1  
pp p

Clarinet in Bb 2  
p

Bass Clarinet

Alto Sax  
To Alto Sax

Tenor Sax

Baritone Sax

Horn in F  
Open

Trumpet in Bb 1  
Harmon mute

Trumpet in Bb 2

Trombone 1

Trombone 2

Bass Trombone

Marimba  
Set-up 1 Mar

Percussion  
Set-up 2 p

Electric Guitar  
FX: Delay, soft warm distortion

Celesta  
p

Piano

Double Bass

Drum Set  
(sticks)

Vibraphone  
Motor On (slow vibrato) p Motor Off

Violin I  
pizz. p

Violin II  
pizz. p

Viola  
pizz. arco p

Cello  
pizz. arco p

Double Bass

1 2 3 4 5

The musical score is arranged in systems. The first system includes Flute 1 (Fl. 1), Flute 2 (A. Fl.), Clarinet 1 (B♭ Cl. 1), Clarinet 2 (B♭ Cl. 2), Bass Clarinet (B. Cl.), Saxophone Alto (A. Sax.), Saxophone Tenor (T. Sax.), Saxophone Bass (B. Sax.), and Saxophone Alto (A. Sax.). The second system includes Horn (Hn.), Trumpet 1 (B♭ Tpt. 1), Trumpet 2 (B♭ Tpt. 2), Trombone 1 (Tbn. 1), Trombone 2 (Tbn. 2), and Trombone Bass (B. Tbn.). The third system includes Maracas (Mrb.), Percussion (Perc.), Electric Guitar (E. Gtr.), Cello (Cel.), Piano (Pno.), Double Bass (D.B.), and Snare Drum (D.S.). The fourth system includes Vibraphone (Vib.), Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), Violoncello (Vc.), and Double Bass (D.B.).

Key performance markings and dynamics include: *Fitzg.* (Fitzgerald style), *To Flute*, *Harmon mute*, *Motor On (slow vibrato)*, *sul ponticello*, *ord.* (ordine), *pizz.* (pizzicato), and *arco* (arco). Dynamic markings range from *pp* (pianissimo) to *mp* (mezzo-piano).

At the bottom of the page, measure numbers 6, 7, 8, 9, and 10 are indicated in boxes.



The musical score is arranged in a standard orchestral format. The top section includes woodwinds (Flutes 1 & 2, Clarinets in C 1 & 2, Bass Clarinet, Saxophones in Alto and Tenor), brass (Trumpets 1 & 2, Trombones 1 & 2, Bass Trombone), and percussion (Maracas, Percussion, Gong). The middle section features strings (Violins I & II, Viola, Violoncello, Double Bass) and a Vibraphone. The bottom section includes a Piano and an Electric Guitar. The score is divided into measures 71 through 75. Dynamics such as *p*, *mp*, and *f* are indicated throughout. Performance instructions like *arco*, *pizz.*, and *Motor Off* are also present. A large watermark 'http://eduardo-roja.com/' is overlaid diagonally across the score.

Fl. 1  
Fl. 2  
B♭ Cl. 1  
B♭ Cl. 2  
B. Cl.  
A. Sax.  
T. Sax.  
B. Sax.  
T. Sax.  
Hn.  
B♭ Tpt. 1  
B♭ Tpt. 2  
Tbn. 1  
Tbn. 2  
B. Tbn.  
Glk.  
Perc.  
E. Gtr.  
Cel.  
Pno.  
D.B.  
D. S.  
Vib.  
Vln. I  
Vln. II  
Vla.  
Vc.  
D.B.

To Tenor Sax

Open

Bass Drum

Set-up 2

Play with an irregular speed

non div.

non div., ord.

pizz.

arco

arco

arco

arco

21

Fl. 1

Fl. 2

B♭ Cl. 1

B♭ Cl. 2

B. Cl.

A. Sax.

T. Sax.

B. Sax.

T. Sax.

Hn.

B♭ Tpt. 1

B♭ Tpt. 2

Tbn. 1

Tbn. 2

B. Tbn.

Glk.

Perc.

E. Gtr.

Cel.

Pno.

D.B.

D. S.

Vib.

Vln. I

Vln. II

Vla.

Vc.

D.B.

Repeat at the player's own tempo, independent of the conductor, stop immediately at cue at end of line.

*mp*

*pp*

*p*

*pizz.*

21

22

23

24

25

This musical score is for the piece "HUMAN PHYSIOLOGY" and spans measures 26 to 30. The instrumentation includes Flutes 1 and 2, Clarinets in Bb (1 and 2), Bass Clarinet, Saxophones (Alto, Tenor, Baritone, and Tenor), Horns, Trumpets (Bb 1 and 2), Trombones (1, 2, and Bass), Glockenspiel, Bongos, Electric Guitar, Cello, Piano, Double Bass, Snare Drum, Vibraphone, Violins I and II, Viola, Violoncello, and Double Bass. The score features several dynamic markings: *mp* (mezzo-piano), *pp* (pianissimo), and *p* (piano). Performance instructions include "Flutzg." for the flute, "Bongos speed up" and "slow down" for the percussion, and "Feel free to play another rhythm but keep the pulse" for the snare drum. A section starting at measure 29 is marked "To Alto Flute". The score includes various musical notations such as slurs, ties, and articulation marks.

26

27

28

29

30

A. Fl. *To Alto Flute* *p* *mp* *p*

A. Fl.

B♭ Cl. 1

B♭ Cl. 2

B. Cl.

A. Sx.

T. Sx.

B. Sx.

T. Sx.

Hr.

B♭ Tpt. 1

B♭ Tpt. 2

Tbn. 1

Tbn. 2

B. Tbn.

Glk. *Mar* Play freely (speeding up and slowing down) *p* *mp* *p* *mp*

Perc. *p* *mf* *pp* *pp*

E. Gtr. *pp* *mf* *pp* *pp*

Cel.

Pno.

D.B.

D. S. *simile*

Vib. *mp* (play without a strict tempo until bar 42)

Vln. I *mp* *pp*

Vln. II *mp* *pp*

Vla. *mp* *pp*

Vc.

D.B.

31 32 33 34 35

https://med4doctors.com/

To Flute

FL. 1  
A. Fl.  
B♭ Cl. 1  
B♭ Cl. 2  
B. Cl.  
A. Sx.  
T. Sx.  
B. Sx.  
T. Sx.  
Hn.  
B♭ Tpt. 1  
B♭ Tpt. 2  
Tbn. 1  
Tbn. 2  
B. Tbn.  
Mrb.  
Perc.  
E. Gtr.  
Cel.  
Pno.  
D.B.  
D. S.  
Vib.  
Vln. I  
Vln. II  
Vla.  
Vc.  
D.B.

36 37 38 39 40

The musical score is arranged in systems for various instruments. The first system includes Fl. 1, A. Fl., B♭ Cl. 1, B♭ Cl. 2, B. Cl., A. Sx., T. Sx., and B. Sx. The second system includes Hn., B♭ Tpt. 1, B♭ Tpt. 2, Tbn. 1, Tbn. 2, B. Tbn., Mrb., Perc., E. Gtr., Cel., Pno., D.B., D.S., Vib., Vln. I, Vln. II, Vla., Ve., and D.B. The score features a variety of dynamics including *pp*, *mp*, *p*, *f*, *cresc.*, and *mf*. Performance instructions such as "To Flute", "Mute", "arco", "pizz.", and "sul ponticello" are present. A "slow down" marking is placed above the Vib. staff. The score is divided into measures 41 through 45, with measure numbers 41, 42, 43, 44, and 45 printed at the bottom of their respective systems.

This page contains the musical score for measures 46 through 50 of the piece "Human Physiology". The score is arranged in a standard orchestral format with multiple staves for each instrument family. The instruments included are Flutes 1 and 2, Clarinets in Bb 1 and 2, Bass Clarinet, Saxophones in Alto, Tenor, and Baritone, Horns, Trumpets in Bb 1 and 2, Trombones 1, 2, and Bass, Maracas, Percussion, Electric Guitar, Cello, Piano, Double Bass, Snare Drum, Vibraphone, Violins I and II, Viola, and Violoncello. The score features various musical notations such as notes, rests, dynamics (pp, mp, f, p), and articulation marks. A large watermark "https://studycart24.com/" is visible diagonally across the page. Measure numbers 46, 47, 48, 49, and 50 are printed at the bottom of their respective columns.



51 To Piccolo

Fl. 1 *p* *mp* *p*

Fl. 2 *mp* *p* *mp* *p*

B♭ Cl. 1 *p* *mp* *p*

B♭ Cl. 2 *p* *mp* *p*

B. Cl. *p* *mp* *p*

A. Sax. *p* *mp* *p*

T. Sax. *p* *mp* *p*

B. Sax. *p* *mp* *p*

T. Sax. *p* *mp* *p* *lips' glissando*

Hn. *p* *mf* *p* *speeding up* *slow down*

B♭ Tpt. 1 *mp* *mf* *p* *speeding up* *slow down*

B♭ Tpt. 2 *mp* *mf* *p* *speeding up* *slow down*

Tbn. 1 *p* *mf* *p* *speeding up* *slow down*

Tbn. 2 *p* *mf* *p* *speeding up* *slow down*

B. Tbn. *p* *mf* *p* *speeding up* *slow down*

Mrb. *pp* *mp* *p* *speeding up* *slow down*

Perc. *pp* *mp* *p* *speeding up* *slow down*

E. Gtr. *p* *mp* *p* *speeding up* *slow down*

Cel. *p* *mp* *p* *speeding up* *slow down*

Pno. *p* *mp* *p* *speeding up* *slow down*

D.B. *pizz.* *mp* *p* *speeding up* *slow down*

D. S. *mp* *mp* *p* *speeding up* *slow down*

Vib. *mp* *pp* *mp* *p* *speeding up* *slow down*

Vln. I *p* *mp* *p* *speeding up* *slow down*

Vln. II *pp* *mp* *p* *speeding up* *slow down*

Vla. *pp* *mp* *p* *speeding up* *slow down*

Vc. *p* *mp* *p* *speeding up* *slow down*

D.B. *p* *mp* *p* *speeding up* *slow down*

51 52 53 54 55

HUMAN PHYSIOLOGY

The musical score is arranged in a standard orchestral layout. The instruments and their parts are as follows:

- Picc.**: Piccolo, starting at measure 56 with a *mp* dynamic.
- Fl. 2**: Flute 2, starting at measure 56 with a *p* dynamic.
- Bs. Cl. 1**: Bass Clarinet 1, starting at measure 56 with a *p* dynamic.
- Bs. Cl. 2**: Bass Clarinet 2, starting at measure 56 with a *p* dynamic.
- B. Cl.**: Bass Clarinet, starting at measure 56 with a *p* dynamic.
- A. Sax.**: Alto Saxophone, starting at measure 56 with a *mp* dynamic.
- T. Sax.**: Tenor Saxophone, starting at measure 56 with a *p* dynamic.
- B. Sax.**: Baritone Saxophone, starting at measure 56 with a *p* dynamic.
- T. Sax.**: Tenor Saxophone, starting at measure 56 with a *p* dynamic.
- Hn.**: Horn, starting at measure 56 with a *mp* dynamic.
- B+ Tpt. 1**: B+ Trumpet 1, starting at measure 56 with a *p* dynamic.
- B+ Tpt. 2**: B+ Trumpet 2, starting at measure 56 with a *p* dynamic.
- Tbn. 1**: Trombone 1, starting at measure 56 with a *mp* dynamic.
- Tbn. 2**: Trombone 2, starting at measure 56 with a *mp* dynamic.
- B. Tbn.**: Bass Trombone, starting at measure 56 with a *mp* dynamic.
- Glk.**: Glockenspiel, starting at measure 56 with a *p* dynamic.
- Perc.**: Percussion, starting at measure 56 with a *p* dynamic.
- E. Gtr.**: Electric Guitar, starting at measure 56 with a *p* dynamic.
- Cel.**: Cello, starting at measure 56 with a *p* dynamic.
- Pno.**: Piano, starting at measure 56 with a *p* dynamic.
- D.B.**: Double Bass, starting at measure 56 with a *p* dynamic.
- D. S.**: Double Bass, starting at measure 56 with a *p* dynamic.
- Vib.**: Vibraphone, starting at measure 56 with a *p* dynamic.
- Vln. I**: Violin I, starting at measure 56 with a *mp* dynamic.
- Vln. II**: Violin II, starting at measure 56 with a *pp* dynamic.
- Vla.**: Viola, starting at measure 56 with a *p* dynamic.
- Vc.**: Violoncello, starting at measure 56 with a *p* dynamic.
- D.B.**: Double Bass, starting at measure 56 with a *p* dynamic.

Key performance instructions include "speeding up" and "Motor On (slow vibrato)". A section titled "To Alto Flute" begins at the end of the page.

61

62

A. Fl. *mp*

Fl. 2 *pp*

B♭ Cl. 1

B♭ Cl. 2 *p* *pp*

B. Cl.

A. Sax. *p* *pp*

T. Sax.

B. Sax.

T. Sax. *p* *pp*

Hn.

B♭ Tpt. 1 *pp*

B♭ Tpt. 2 *pp*

Tbn. 1 *p*

Tbn. 2 *p*

B. Tbn.

Mrb. *Mar* *mp*

Perc. Cymbal (scrape) *pp*

E. Gtr.

Cel. *pp*

Pno. *pp* *sc* \*

D.B. *pp*

D.S. *pp*

Vib. *pp*

Motor Off

Vln. I *pizz.* *mp* *pizz.*

Vln. II *mp*

Vla. *p* *pizz.*

Vc. *p* *pizz.*

D.B. *p*

61 62 63 64 65

70 To Flute

66 67 68 69 70

A. Fl. Fl. 2 B♭ Cl. 1 B♭ Cl. 2 B. Cl. A. Sx. T. Sx. B. Sx. T. Sx. Hn. B♭ Tpt. 1 B♭ Tpt. 2 Tbn. 1 Tbn. 2 B. Tbn. Mrb. Perc. E. Gtr. Cel. Pno. D.B. D. S. Vib. Vln. I Vln. II Vla. Vc. D.B.

Normal playing  
mf  
(brushes) Fill  
(snare)  
pizz  
arco  
arco  
mf

Musical score for the piece "Human Physiology", page 21, measures 71-75. The score is arranged for a large orchestra and includes the following instruments:

- FL. 1, FL. 2
- B♭ Cl. 1, B♭ Cl. 2, B. Cl.
- A. Sax., T. Sax., B. Sax., T. Sax.
- Hn.
- B♭ Tpt. 1, B♭ Tpt. 2
- Tbn. 1, Tbn. 2, B. Tbn.
- Mrb.
- Perc.
- E. Gtr.
- Cel.
- Pno.
- D.B.
- D. S.
- Vib.
- Vln. I, Vln. II
- Vla.
- Vc.
- D.B.

The score consists of five measures, numbered 71 through 75. The key signature is one flat (B♭) and the time signature is 3/4. The tempo is marked *mp* (mezzo-piano). The score includes various musical notations such as rests, notes, stems, and dynamics. A large, semi-transparent watermark "https://eduardo-tojo.com/" is overlaid diagonally across the page.

76 77 78 79 80