

transients / refractions

for
chamber orchestra

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Duration = approximately 5 1/2 minutes

Instrumentation

flute
oboe
clarinet in Bb
Alto Saxophone in Eb
bassoon

trumpet in C
tenor trombone

violin I (4)
violin II (4)
violas (4)
cellos (4)
basses (4)

percussion (two players)
piano
harp

Transposed Score

Percussion

The image shows a musical score for two percussion parts, Perc. 1 and Perc. 2, over a 16-measure timeline. Perc. 1 is written on a treble clef staff and includes notes for vibraphone, xylophone, chimes, glockenspiel (measures 1-4), maracas (h) (measures 5-8), and tambourine (measures 9-12). Perc. 2 is written on a bass clef staff and includes notes for snare (h, 'piccolo') (measures 1-2), bongos (h, m) (measures 3-4), tom-toms (h, m, l) (measures 5-8), triangles (m, l) (measures 9-10), maracas (h) (measures 11-12), slap-stick (measures 13-14), claves (h) (measures 15-16), cabasa (measures 17-18), and cymbals (m, l) (measures 19-20). The notes are represented by vertical stems and horizontal lines indicating pitch and duration.

vibraphone, xylophone, chimes, glockenspiel
(Xylophone sounds one octave higher than written. Glock.
sounds two octaves higher than written.)

Perc. 1

maracas
(h)

tambourine

snare
(h, 'piccolo')

bongos
(h, m)

tom-toms
(h, m, l)

triangles
(m, l)

maracas
(h)

slap-stick

claves
(h)

cabasa

cymbals
(m, l)

Perc. 2

[illegible]

4

4

Fl.

flz.

fff

ppp

ppp

p

ppp

5

Ob.

p

ppp

mp

5

Bb Cl.

flz.

fff

ppp

p

ppp

mp

3

A. Sax.

flz.

ppp

fff

ppp

mp

5

Bsn.

f

ppp

C Tpt.

flz.

ppp

mf

Tbn.

Perc. 1

ppp

ppp

p

ppp

f

5

Perc. 2

maracas

ppp

fff

Pno.

sons étouffés

mf

5

fff

pres de la table

f

mf

fff

Vln. I

ppp

f

fff

pizz.

Vln. II

pizz.

f

mf

f

fff

5

Vla.

fff

fff

pp

mf

mf

fff

3

Vc.

fff

fff

p

mf

fff

pizz.

Cb.

snap pizz.

fff

fff

(2+1+2)

6

Fl.

Ob.

Bb Cl.

A. Sax.

Bsn.

C Tpt.

Tbn.

Perc. 1

Perc. 2

Pno.

Hp.

Vln. I

Vln. II

Vla.

Vc.

Cb.

GP

A

5

ppp *< mf* *ppp* *mp* *ppp*

ppp *f* *ppp*

ppp *p* *f*

ppp *f* *ppp*

mf *fff* *ppp subito* *fff* *f* *ppp subito*

fff *ppp*

ppp *mf* *fff* *ppp* *p* *3*

mf *f* *mf*

fff *ppp* *f*

ppp *f* *ppp* *mp* *ppp*

fff *f* *ppp*

ppp *f* *mf*

p *f* *ff* *fff* *ppp*

[illegible]

15

GP

C

Fl.

ff

ppp

mf

f

fff

p

ppp

Ob.

Bb Cl.

ppp

fff

f

p

ppp

fff

ppp

A. Sax.

ppp

mf

f

mp

p

Bsn.

ppp

p

ppp

C Tpt.

mp

pp

flz.

ppp

fff

Tbn.

ppp

Perc. 1

GP

mp

Ped.

f

fff

Perc. 2

tom-toms (m, l)

fff

bongos (h, m)

fff

Pno.

mp

f

Ped.

GP

sons étouffés

f

fff

Hp.

C

Vln. I

snap pizz.

fff

fff

arco

fff

ppp

mf

Vln. II

snap pizz.

fff

fff

arco

fff

ppp

Vla.

arco sul ponticello

fff

ppp

fff

fff

ppp

Vc.

arco sul ponticello

fff

ppp

fff

normale snap pizz.

fff

Cb.

8

19

flz.

tr

D

Fl.

f *p* *mf* *ppp* *fff*

Ob.

p *ppp*

Bb Cl.

p *ppp* *ppp* *fff*

A. Sax.

ppp *mp* *ppp* *ppp* *fff*

Bsn.

C Tpt.

ppp *fff*

Tbn.

ppp *fff*

Perc. 1

ppp *f* *fff* *ppp* (stop roll)

Perc. 2

Pno.

ppp

Hp.

D

Vln. I

sul pont. *ppp* *f* *ppp* sul tasto *ppp*

Vln. II

sul pont. *ppp* *f* *ppp* normale *ppp*

Vla.

sul pont. *ppp* *f* *ppp* normale *ppp*

Vc.

arco *ppp*

Cb.

23 9

Fl. *flz.* *fff* *ppp* *p* *sfz-p* *f* *ppp*

Ob. *p* *ppp* *mp* *ppp*

Bb Cl. *flz.* *fff* *ppp* *mf* *ppp* *p* *mf* *ppp* *mf* *ppp*

A. Sax. *ppp* *p* *ppp* *ppp* *p* *ppp*

Bsn. *ppp* *fff* *ppp*

C Tpt. *ppp* *mf* *ppp*

Tbn. *ppp* *mp*

Perc. 1 *H* *ppp* *fff* *p* *ff*

Perc. 2 *slap stick* *fff* *tom-toms (h, m, l) sticks* *ppp* *f*

Pno.

Hp. *normale* *f* *ff* *p* *f*

Vln. I *sul pont.* *ppp* *fff* *sub. ppp* *normale* *sul pont.* *fff*

Vln. II *fff* *ppp* *sul pont.* *f* *fff*

Vla. *fff* *fff* *normale snap pizz.* *fff* *fff*

Vc. *f* *ppp* *fff* *fff* *normale snap pizz.* *fff* *arco* *p*

Cb. *arco, sul pont.* *fff* *snap pizz.* *fff*

10

27

(2+1+2)

5

tr

ppp

mp

ppp

mp

ppp

Ob.

tr

ppp

f

ppp

Bb Cl.

(2+1+2)

5

ppp

f

ppp

mf

ppp

p

A. Sax.

5

tr

ppp

f

ppp

Bsn.

(2+1+2)

ppp

mp

ppp

C Tpt.

(2+1+2)

mf

ppp

Tbn.

Perc. 1

mf subito

5

fff

Red.

ppp subito

f

Perc. 2

Pno.

fff

mf

fff

p

fff

fff

3

Hp.

mf

fff

Vln. I

(2+1+2)

normale

fff

ppp

tr

mp

ppp

Vln. II

(2+1+2)

normale

mf

ppp

fff

ppp

mp

ppp

Vla.

arco, sul pont.

(2+1+2)

5

f

fff

fff

Vc.

Cb.

The musical score for the first system of "The Firebird Suite" by Igor Stravinsky features the following instruments and parts:

- Fl.**: Flute part starting with a trill on G⁴, followed by a melodic phrase with dynamics *ppp*, *p*, and *ppp*.
- Ob.**: Oboe part, mostly silent with rests.
- Bb Cl.**: B-flat Clarinet part starting with a trill on D⁴, followed by a melodic phrase with dynamics *ppp*, *p*, and *ppp*.
- A. Sax.**: Alto Saxophone part, mostly silent with rests.
- Bsn.**: Bassoon part, mostly silent with rests.
- C Tpt.**: Cornet part, mostly silent with rests.
- Tbn.**: Trombone part, mostly silent with rests.
- Perc. 1**: Percussion I part playing a single note on the snare drum.
- Perc. 2**: Percussion II part playing a cymbal with soft yarn mallets, bow, and edge techniques. Dynamics include *ppp* and *mf*. A section labeled "l.v." (live) is indicated.
- Pno.**: Piano part featuring a complex arpeggiated figure in the right hand and a bass line in the left hand. Dynamics range from *ppp* to *mf*.
- Hp.**: Harp part playing a sustained chord in the right hand and a bass line in the left hand. Dynamics range from *ppp* to *mf*.
- Vln. I**: Violin I part starting with a trill on E⁴, followed by a melodic phrase with dynamics *ppp*, *p*, and *ppp*.
- Vln. II**: Violin II part playing a long, sustained note with dynamics *ppp*, *mf*, and *ppp*.
- Vla.**: Viola part playing a long, sustained note with dynamics *ppp* and *f*.
- Vc.**: Violoncello part starting with a trill on E³, followed by a melodic phrase with dynamics *ppp*, *p*, *ppp*, *ppp*, *mp*, and *ppp*.
- Cb.**: Contrabass part, mostly silent with rests.

12

[illegible]

[illegible]

14

[illegible]

The musical score is for a piece titled "G" by John Adams. It is written for a woodwind quintet (Flute, Oboe, B-flat Clarinet, Alto Saxophone, Bassoon), percussion (Perc. 1, Perc. 2), piano (Pno.), harp (Hp.), and a string quartet (Violin I, Violin II, Viola, Violoncello, Contrabass). The score is in 5/8 time and features a key signature of one flat (B-flat). The woodwind parts are marked with "GP" (Grand Piano) and "G" (G major). The percussion parts are marked with "GP" and "G". The piano part is marked with "GP" and "G". The harp part is marked with "GP" and "G". The string parts are marked with "GP" and "G". The score includes various dynamic markings such as *mf*, *fff*, *p*, *ppp*, *mp*, *f*, *sffz*, and *ff*. It also includes articulations like "GP" (Grand Piano) and "G" (G major). The score is divided into measures, with measure numbers 40 and 15 indicated. The woodwind parts are marked with "GP" and "G". The percussion parts are marked with "GP" and "G". The piano part is marked with "GP" and "G". The harp part is marked with "GP" and "G". The string parts are marked with "GP" and "G". The score includes various dynamic markings such as *mf*, *fff*, *p*, *ppp*, *mp*, *f*, *sffz*, and *ff*. It also includes articulations like "GP" (Grand Piano) and "G" (G major). The score is divided into measures, with measure numbers 40 and 15 indicated.

[illegible]

46

GP

Fl.

ppp *p* *ppp*

Ob.

Bb Cl.

A. Sax.

ppp *mp* *ppp*

Bsn.

C Tpt.

Tbn.

Perc. 1

tamborine shake

ppp *fff*

shake slap

ppp *<fff*

GP

Perc. 2

bongos (h, m)

sticks

fff *f* *mf* *f* *fff*

Pno.

f *ppp*

p *f*

pp *fff*

12 7 9

Ped. UC

Hp.

D♯C♯B♯ E♭G♯

Vln. I

ppp *f* *ppp*

GP

Vln. II

ppp

Vla.

fff

Vc.

Cb.

[illegible]

[illegible]

20

53

flz.

K

Fl.

Ob.

Bb Cl.

A. Sax.

Bsn.

C Tpt.

Tbn.

Perc. 1

Perc. 2

Pno.

Hp.

Vln. I

Vln. II

Vla.

Vc.

Cb.

ppp < mp > ppp ppp < f subito ppp ppp

ppp < p > ppp ppp < f subito ppp

ppp < mp > ppp ppp < f

fff fff fff fff ppp < fff ppp < fff

f

Cut off pedal with last maraca attack in measure.

arco, sul ponticello arco, sul ponticello

ppp < mp normale ppp < p normale ppp < mf

fff

[illegible]

65

Fl. *flz.* *ppp* *fff*

Ob.

Bb Cl. *flz.* *ppp* *fff*

A. Sax.

Bsn. *ppp* *mf* *ppp*

C Tpt.

Tbn. *f* *fff* *ppp* *f* *ppp*

Perc. 1 *ppp* *fff* *tambourine* *shake* *fff* *ppp*

Perc. 2 *bongos, tom-toms* *sticks* *ppp* *fff*

Pno. *mp*

Hp. *Bb G#* *sons étouffés* *fff*

Vln. I *sul pont.* *sub. ppp* *fff* *sul pont.* *tr* *ppp* *< f*

Vln. II *ppp* *normale snap pizz.* *ppp* *arco* *ppp*

Vla. *sul pont.* *fff* *normale snap pizz.* *fff* *sul pont.* *arco* *ppp*

Vc. *arco, sul pont.* *fff* *normale snap pizz.* *fff* *sul pont. arco* *ppp* *< f*

Cb. *arco, sul pont.* *fff*

24

68

Fl.

ppp

Ob.

p *f* *p* *mp* *ppp*

Bb Cl.

ppp

A. Sax.

p *mf*

Bsn.

C Tpt.

Tbn.

Perc. 1

ppp

Perc. 2

fff *fff*

Pno.

f

(senza ped.)

Hp.

Vln. I

normale

ppp *f* *ppp*

Vln. II

sul pont.

mf *ppp*

Vla.

sul pont.

mf *ppp*

Vc.

SOLO normale

ppp *fff* *ppp*

p *fff* *ppp*

Cb.

normale

f *fff*

pizz.

71 GP N

Fl. *mf* *ppp* *ppp* *f* *mf* *fff* *mf*

Ob. *p* *mf* *ppp* *fff*

Bb Cl. *mf* *ppp* *fff* *f* *p* *fff* *mf*

A. Sax. *ppp* *f* *ppp*

Bsn. *ppp*

C Tpt. *ppp* *f* *ppp* *mf* *ppp*

Tbn. *ppp*

Perc. 1 GP Xylophone hard rubber mallets *p* *f* *mf*

Perc. 2 *claves (h)* *fff*

Pno. *ppp* *mf* *ppp*

Hp. *ppp* *f* *ff*

Vln. I GP N normale-----sul pont. normale *ppp* *mf* *ppp* *fff* *ppp* *ppp* *mf*

Vln. II normale *ppp* *fff* *ppp*

Vla. normale *ppp* *fff* *ppp*

Vc. TUTTI *ppp* *fff* snap pizz. *fff*

Cb. *fff*

26

74

flz.

Fl.

ppp

ppp

mf

ppp

tr

Ob.

flz.

Bb Cl.

ppp

mf

ppp

tr

A. Sax.

ppp

ff

3

Bsn.

f

ppp

C Tpt.

f

ppp

ff

ppp

mf

Tbn.

p

mp

ppp

Perc. 1

fff

ppp

claves (h)

Perc. 2

fff

Pno.

fff

9

ppp

Red.

Hp.

fff

sul pont.

Vln. I

sub. ppp

fff

normale

ppp

mf

ppp

tr

Vln. II

Vla.

col legno battuto

fff

fff

SOLO

H

arco normale

p

Vc.

col legno battuto

fff

fff

arco normale

mf

ppp

Cb.

arco

ppp

f

ppp

76 H 27

Fl. *p* *mf* *f* *flz.* *f* *fff*

Ob. *p*

Bb Cl.

A. Sax.

Bsn.

C Tpt.

Tbn.

Perc. 1

Perc. 2

Pno. *mf* *f* *f* *ppp* *f* *fff*

Hp.

Vln. I *pizz.* *p* *arco* *ppp*

Vln. II *pizz.* *p* *arco* *ppp*

Vla. *mf* *f* *fff*

Vc. *ppp* *mf* *ppp* *mp* *ppp* *f* *ppp*

Cb.

79

P

GP

H

Fl.

Ob.

B♭ Cl.

A. Sax.

Bsn.

C Tpt.

Tbn.

Perc. 1
maracas (h)
ppp < fff

Perc. 2
maracas (h)
ppp < fff

Pno.

Hp.
pres de la table F#
fff

Vln. I GP P ppp pizz. fff

Vln. II ppp pizz. fff

Vla. TUTTI ppp H SOLO ppp mf

Vc. ppp pizz. fff

Cb. ppp pizz. fff

84

Fl.

Ob.

Bb Cl.

A. Sax.

Bsn.

C Tpt.

Tbn.

Perc. 1

Perc. 2

Pno.

Hp.

Vln. I

Vln. II

Vla.

Vc.

Cb.

f *p* *ff* *mf* *>p* *mp* *mf* *p* *fff*

p *ppp* *mp* *ppp* *p* *f*

p *mf* *ppp*

p

p *fff* *f*

flz. *5*

p *ppp* *f*

p *f* *p* *f* subito

ppp *fff*

f *p*

ff *ppp* *ppp*

arco, normale *sul pont.* *normale*

ppp *mf* *ppp*

arco *ppp*

TUTTI *fff* *ppp* *ppp*

arco *ppp* *fff*

88

Fl. *mf* *p* *fff* *fff* *flz.* *ppp*

Ob.

Bb Cl. *f* *p* *fff* *p* *fff* *flz.* *ppp*

A. Sax. *f* *ppp*

Bsn. *ppp* *mf*

C Tpt. *senza sord.* *ppp* *fff*

Tbn.

Perc. 1 *mf* *f* *fff* *ppp*

Perc. 2

Pno. *f* *fff* *fff*

Hp. *f* *fff* *sons étouffés* *normale* *F#* *fff* *fff*

Vln. I *fff* *ppp* *ppp* *mf* *sub. ppp* *fff* *sul pont.*

Vln. II *fff* *ppp* *ppp*

Vla. *fff* *ppp* *pizz.* *fff* *fff*

Vc. *snap pizz.* *fff* *pizz.* *fff* *fff*

Cb. *fff* *pizz.* *fff* *fff*

90

Fl.

Ob.

Bb Cl.

A. Sax.

Bsn.

C Tpt.

Tbn.

Perc. 1

Perc. 2

Pno.

Hp.

Vln. I

Vln. II

Vla.

Vc.

Cb.

tr.

fff

ppp

mf

tr.

fff

ppp

p

fff

con sord (straight)

12

p

fff

chimes

fff

maracas (h)

fff

snare (h) sticks.

ppp

fff

p

f

fff

f

Red.

(senza ped.)

pres de la table

normale

R

divisi

fff

pizz.

mf

divisi

fff

unis. arco, sul pont.

p

fff

unis. arco, sul pont.

p

fff

arco, sul pont.

p

fff

mf

SOLO normale

arco

ppp

mf

arco

ppp

[illegible]