

Yuko Ohara

The Butterfly Effect
for fl, cl, hr, tp, perc, pf, vl, vla and cello
(2012)

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6/8 ♩ = 48

Flute: air sound → pitch, 5:4, gliss., pp, sffz, half air sound, pitch, 7:4, pp, sffz, half air sound, pitch, 5:4, gliss., pp, sffz, half air sound, pitch, 7:4, pp, sffz

Clarinet in Bb: air sound → pitch, 5:4, pp, sffz, half air sound, pitch, 7:4, pp, sffz, half air sound, pitch, 5:4, pp, sffz, half air sound, pitch, 7:4, pp, sffz

Vibraphone: sffz

Piano: harmonics, sffz, sffz, sffz

Violin: 6/8 ord., non vib., molto sul pont., 5:4, sffz > pp, sfz, pp, sffz, 4/8 ord., molto sul pont., 7:4, sffz > pp, sffz > pp, sffz, 3/8 ord., molto sul pont., 5:4, sffz > pp, sffz > pp

Viola: jete, II, III, sul tasto, 5:4, sffz, pp, mf, jete, 3:2, II, III, sul tasto, 7:4, sffz, pp, mf, jete, 3:2, II, III, sul tasto, 5:4, sffz, pp, mf, sul tasto, 7:4, mf

Violoncello: III pizz., sffz, III arco ord., ppp, 5:4, sfz, 5:4, pp, sffz, III pizz., sffz, 3:2, arco, pp, 7:4, sffz, pizz., sffz, arco, 5:4, pp, 7:4, sffz, molto sul pont., sffz, pp

Fl. *ff* *pp* *sfz* *pp* *sfz* *pp* *sfz* *pp*

Cl. *ff* *pp* *sfz* *pp* *sfz* *pp* *sfz* *pp*

Vib. *ff* *sfz* *sfz* *sfz*

Pno. *gliss.* *sfz* *sfz* *sfz*

Vln. *ff* *sfz > pp* *sfz* *pp* *sfz > pp* *sfz > pp*

Vla. *ff* *sfz* *pp* *sfz* *pp* *mf* *sfz* *pp* *mf*

Vc. *ff* *gliss.* *sfz* *pp* *sfz* *pp* *sfz* *pp* *mf*

3/16 4:6:1 1/8 5/8 3/8 3/8 4/8

pitch air sound half air sound pitch half air sound pitch half air sound pitch half air sound

play with pick inside of the piano pluck the strings harmonics

ord. molto sul pont. ord. molto sul pont. ord. molto sul pont. ord. molto sul pont.

jete sul tasto jete sul tasto jete sul tasto

bow pressure pizz. arco ord. molto sul pont. pizz. arco sul pont. molto sul pont. pizz. arco ord. molto sul pont.

B

14 **6/8**

Fl. half air sound → pitch half air sound → pitch half air sound → pitch half air sound →

Cl. half air sound → pitch half air sound → pitch half air sound → pitch half air sound

Hn. air flz. → con sord. (metallic mute) → con sord. (metallic mute)

C Tpt. air flz. → con sord. (metallic mute) → con sord. (metallic mute)

Vib. *sfz* *sfz*

Pno.

B

6/8 ord. → molto sul pont. ord. → molto sul pont. **4/8** ord. → molto sul pont. ord. → molto sul pont.

Vln. *sffz* > *pp* *sffz* > *pp* *sffz* > *pp* *sffz* > *pp*

Vla. arco batt. pizz. II III II III 3:2 II III II III 3:2 II III II III *sffz* *pp* *mf* *pp* *mf*

Vc. arco batt. ord. → molto sul pont. ord. → molto sul pont. ord. → molto sul pont. *sffz* > *pp* *sffz* > *pp* *sffz* > *pp* *sffz* > *pp*

This musical score is for a symphony orchestra, spanning measures 18 to 24. It features a variety of instruments and complex rhythmic patterns. The score is divided into two systems, with a key signature change from 7/16 to 6/8 and a tempo change to quarter note = 56.

Woodwinds:
Flute (Fl.): Starts with a "jet whistle" in 7/16 time, then "pitch" in 6/4 and 4/6. In 6/8, it plays "half air sound" with "pitch" and "gliss." markings.
Clarinet (Cl.): Starts with "tongue ram" in 7/16, then "pitch" in 6/4 and 4/6. In 6/8, it plays "half air sound" with "pitch" and "gliss." markings.
Horn (Hn.): Starts with "senza sord." in 7/16, then "gliss." in 6/4 and 4/6. In 6/8, it plays "3:2" with "gliss." markings.

Brass:
C Trumpet (C Tpt.): Starts in 7/16, then 6/4 and 4/6. In 6/8, it plays "3:2" with "gliss." markings.
Vibraphone (Vib.): Starts in 7/16, then 6/4 and 4/6. In 6/8, it plays "3:2" with "gliss." markings.

Piano (Pno.): Starts in 7/16, then 6/4 and 4/6. In 6/8, it plays "3:2" with "gliss." markings. Instruction: "play with pick inside of the piano".

Strings:
Violin (Vln.): Starts in 7/16, then 6/4 and 4/6. In 6/8, it plays "arco ord." with "molto sul pont." and "pizz." markings.
Viola (Vla.): Starts in 7/16, then 6/4 and 4/6. In 6/8, it plays "arco" with "molto sul pont." and "col legno tratto" markings.
Violoncello (Vc.): Starts in 7/16, then 6/4 and 4/6. In 6/8, it plays "ord." with "molto sul pont." and "gliss." markings.

Other: The score includes dynamic markings such as *sfz*, *ff*, *pp*, *mp*, and *sfz*. A rehearsal mark 'C' is present at the beginning of the second system.

20 **4/8** half air sound → pitch **6/8** tongue ram **4/8**

Fl. *sfz* > *pp* *sfz* *pp* *pp* *sfz* *sfz* *mf*

Cl. half air sound → pitch pitch half air sound tongue ram
pp *gliss.* *sfz* *pp* *sfz* *pp* *sfz* *pp* *sfz* *pp* *pp* *sfz* *sfz* *pp*

C Tpt. *f* *pp*

Vib. *f* *mf*

Pno. pluck the strings *sfz*

Vln. ord. → molto sul pont. ord. → molto sul pont. ord. molto sul pont. ord. molto sul pont. ord. **4/8**
sfz > *pp* *sfz* *pp* *sfz* *pp* *pp* *sfz* *pp* *sfz* *pp*

Vla. *ord.* *molto sul pont.* *ord.* *molto sul pont.* *ord.* *molto sul pont.* *ord.* *molto sul pont.* *ord.*

Vc. *ord.* *molto sul pont.* *ord.* *molto sul pont.* *ord.* *molto sul pont.* *ord.* *molto sul pont.* *ord.* **4/8**
sfz *pp* *sfz* > *pp* *sfz* *pp* *sfz* *pp* *pp* *sfz* > *pp*

24 $\frac{4}{8}$ $\frac{5:4^{\Delta}}$ $\frac{5:4^{\Delta}}$ $\frac{7:4^{\Delta}}$ $\frac{7:4^{\Delta}}$ **9** $\frac{6:4^{\Delta}}$ $\frac{4:6^{\Delta}}$ $\frac{4}{8}$

Fl. *tr* *jet whistle* *ff* *sfz* *ff*

Cl. *p* *tr* *tongue ram* *ff* *sfz* *ff*

Hn. *p* *ff* *gliss.* *gliss.*

C Tpt. *p* *ff* *ff* $\frac{4:6^{\Delta}}$ $\frac{4:6^{\Delta}}$

Vib. *p* *ff* *ff* $\frac{4:6^{\Delta}}$

Pno. *ff* *ff* *gliss.* *ff* *play with a plastic pick inside of the piano*

Vln. $\frac{4}{8}$ $\frac{5:4^{\Delta}}$ $\frac{5:4^{\Delta}}$ $\frac{7:4^{\Delta}}$ $\frac{7:4^{\Delta}}$ **9** $\frac{6:4^{\Delta}}$ $\frac{4:6^{\Delta}}$ $\frac{4:6^{\Delta}}$ $\frac{4}{8}$
molto sul pont. ord. *gliss.* *sfz p* *sfz* *pizz.* *sfz* *arco molto sul pont.* *ff*

Vla. $\frac{6:4^{\Delta}}$ $\frac{5:4^{\Delta}}$ *ff* *sfz* *ff* *arco molto sul pont.*

Vc. *molto sul pont. ord.* $\frac{5:4^{\Delta}}$ $\frac{5:4^{\Delta}}$ *gliss.* *gliss.* *tr* *molto sul pont.* $\frac{4:6^{\Delta}}$ *bow pressure* *gliss.* *gliss.*

sfz p *ff*

D

26 **4**/**8** *fff* *5:4* *5:4* *5:4* *5:4* **3**/**8** *mp* *5:4* *5:4* **2**/**8** *pp* **9**/**16**

Fl.

Cl. *fff* *3:2* *3:2* *mp* *pp*

Hn. arco *fff* *gliss.* *gliss.* *gliss.* *gliss.* *gliss.* *mp* *pp*

C Tpt. *fff* *3:2*

Vib. *fff* *mp*

Pno. *fff* *mp*

Vln. *fff* *5:4* *5:4* *gliss.* *5:4* *gliss.* *gliss.* *5:4* *gliss.* *gliss.* *5:4* *gliss.* *mp* *5:4* *gliss.* *5:4* *gliss.* *5:4* *gliss.* *pp* sul pont. **9**/**16**

Vla. *fff* *gliss.* *gliss.* *gliss.* *gliss.* *mp* *gliss.* *pp* sul pont. *tr*

Vc. *fff* *5:4* *5:4* *gliss.* *5:4* *gliss.* *5:4* *gliss.* *gliss.* *5:4* *gliss.* *mp* *5:4* *5:4* *gliss.* *gliss.* *pp* sul pont. *tr*

This musical score page features four staves: Flute (Fl.), Violin (Vln.), Viola (Vla.), and Cello (Vc.).

- Flute (Fl.):** Treble clef, 4/8 time signature. It begins with a 3/8 measure. The piece is marked with dynamic changes: *sfz* (sforzando), *p* (piano), *sfz*, *p*, *ff* (fortissimo), and *pp* (pianissimo). It includes various rhythmic patterns and glissando markings.
- Violin (Vln.):** Treble clef, 4/8 time signature. It features natural (*nat.*) and spiccato articulations. The dynamic marking *mf* (mezzo-forte) is present.
- Viola (Vla.):** Bass clef, 4/8 time signature. It includes markings for *ord.* (ordine) and *molto sul pont.* (molto sul ponticello). Dynamic markings include *sfz* and *pp*.
- Cello (Vc.):** Bass clef, 4/8 time signature. It includes markings for *ord.* and *mf*.

The score is divided into measures by vertical bar lines, with time signature changes indicated above the staves.

half air sound pitch half air sound pitch

39 **4** **8** **9** **16** multiphonics 3:2^Δ 3:2^Δ 3:2^Δ 3:2^Δ

Fl. *sfz* *pp* *sfz* *pp* *sfz* *mp* *f* *mp*

Cl. *sfz* *pp* *sfz* *mp* *f* *mp*

Hn. *sfz* *pp* *sfz* *pp*

C Tpt. *sfz* *pp* *sfz* *pp*

Vib. *mp* *f* *p* Mark tree gliss.

Pno. *f* play with a plastic pick inside of the piano gliss.

Vln. **4** **8** **9** **16** *f* molto sul pont. with bow pressure III gliss.

Vla. *pp* *f* IV gliss.

Vc. *f* molto sul pont. with bow pressure IV gliss.

42 **F** $\text{♩} = 64$

Fl. $\frac{4}{8}$ $\frac{3}{8}$ $\frac{4}{8}$ half air sound *spp*

Cl. $\frac{4}{8}$ half air sound *spp*

Hn. *mf* *sfz* *mf* *sfz* *mf* *mp* *mp* *sfz*

C Tpt. *mf* *sfz* *mf* *sfz* *mf* *sfz* *mp*

M. tree *mf* To Vib.

Vln. **F** sul pont. $\frac{4}{8}$ II I *mf* *sfz* *mf* *sfz* $\frac{4}{8}$ *mp* *sfz*

Vla. sul pont. *mf* *mp*

Vc. ord. *mf* *sfz* *mf* *sfz* *mf* *mp* *mp* *sfz* molto sul pont. sul tasto molto sul pont.

Detailed description: This page of a musical score (page 16) features seven staves. The Flute (Fl.) and Clarinet (Cl.) parts are mostly silent, with a 'half air sound' instruction and *spp* dynamics in the final measure. The Horn (Hn.) and C Trumpet (C Tpt.) parts play melodic lines with various dynamics (*mf*, *sfz*, *mp*) and articulations like glissandos and slurs. The M. tree part has a few notes with *mf* dynamics and a 'To Vib.' instruction. The Violin (Vln.) part starts with a forte *mf* dynamic, playing a melodic line with glissandos and slurs, and includes a first ending bracket. The Viola (Vla.) part plays a sustained, rhythmic pattern with *mf* and *mp* dynamics. The Cello (Vc.) part has a more complex melodic line with dynamics ranging from *mf* to *sfz*, including instructions for 'ord.', 'molto sul pont.', and 'sul tasto'. The score is divided into four measures by vertical bar lines, with time signatures $\frac{4}{8}$, $\frac{3}{8}$, $\frac{4}{8}$, and $\frac{3}{8}$ indicated above the staves.

46 $\frac{3}{8}$ pitch \rightarrow $\frac{4}{8}$ half air sound $\frac{7}{16}$ multiphonics $\frac{3}{8}$ $\frac{4}{8}$

Fl. *mf* *pp sfpp* *f*

Cl. pitch \rightarrow half air sound $\frac{3:2^{\Delta}}$ multiphonics $\frac{3:2^{\Delta}}$ *mf* *pp sfpp* *f*

Hn. $\frac{3:2^{\Delta}}$ *gliss.* $\frac{5:4^{\Delta}}$ $\frac{3:2^{\Delta}}$ *fp* *sfz* *mp*

C Tpt. $\frac{3:2^{\Delta}}$ *gliss.* $\frac{6:4^{\Delta}}$ *gliss.* $\frac{3:2^{\Delta}}$ *gliss.* $\frac{5:4^{\Delta}}$ *gliss.* *sfz* *mp* *mf* *mp* *mf* *mp* *mf*

M. tree $\frac{4:6^{\Delta}}$ *f* To T-t.

Pno. brush lower strings with palm *f* play inside of the piano $\frac{3:2^{\Delta}}$ *mf* *gliss.*

Vln. $\frac{3:2^{\Delta}}$ *gliss.* $\frac{6:4^{\Delta}}$ *gliss.* $\frac{3:2^{\Delta}}$ *gliss.* $\frac{5:4^{\Delta}}$ *gliss.* $\frac{3:2^{\Delta}}$ *gliss.* $\frac{3:2^{\Delta}}$ *gliss.* *mp* *sfz* *mf* *sfz* *mp* *sfz* *mf* *sfz* *mf*

Vla. $\frac{6:4^{\Delta}}$ $\frac{5:4^{\Delta}}$ *mf* *pp* *f* arco *mf*

Vc. $\frac{3:2^{\Delta}}$ *gliss.* $\frac{5:4^{\Delta}}$ $\frac{3:2^{\Delta}}$ *gliss.* *mp* *fp* *gliss.* *sfz*

54 **15**
16

Fl. *sfz* *mp* *ff* *mp*
multiphonics 3:2' 3:2'

Cl. *sfz* *mp* *ff* *mp*
multiphonics 3:2' 3:2'

Hn. *sfz* *pp* *sfz* *pp* *sfz* *pp*
gliss. 3:2' 3:2' 3:2'

C Tpt. *sfz* *pp* *sfz* *pp* *sfz* *pp*
gliss. 3:2' 3:2' 3:2'

T.-t. brush with a rubber mallet
mp *ff*

Pno. *ff*
play with pick inside of the piano
gliss. gliss. gliss. gliss. gliss. gliss. gliss. gliss.

Vln. **15**
16
ff
molto sul pont.
with bow pressure
gliss. gliss. gliss. gliss.

Vla. *ff*
gliss. gliss. gliss. gliss. gliss.

Vc. *ff*
molto sul pont.
with bow pressure
II gliss. gliss. gliss. gliss.

55

Fl. *mp* *ff* *mp*

Cl. *mp* *ff* *mp*

Hn. *sfz* *pp* *sfz* *pp* *sfz* *pp*

C. Tpt. *sfz* *pp* *sfz* *pp* *sfz* *pp*

T.-t. *mp* *ff* *mp* To Vib.

Pno. *gliss.*

Vln. *gliss.*

Vla. *gliss.*

Vc. *gliss.*

66

66

56 **6/8** hold the notes silently until bar 70 **4/8**

Pno.

Vla. **6/8** ord. *ppp*

Vc. ord. *mf* * scordatura the fingering is on the part. **4/8**

|| $\text{♩} = 72$

58 **4/8** *sfz* *sfz* *sfz* *sfz*

Vln. sul tasto *mp* *sfz*

Vla. *sfz* *mp* *mf* *pp* *mf* *pp* *gliss.* *gliss.* *pp*

Vc. *mp* *mf* *pp* *mf* *pp* *mf*

Vibraphone
play with a bow

62

The score is divided into five staves. The top staff is for Vibraphone, with the instruction "play with a bow". It features a melodic line with triplets and dynamic markings of *sfz*. The second staff is for Piano, with a bass line that includes triplets and *sfz* markings. The third staff is for Violin, showing a complex melodic line with *sfz* dynamics and a glissando towards the end. The fourth staff is for Viola, featuring glissandos and dynamic markings ranging from *mf* to *pp*. The fifth staff is for Violoncello, also featuring glissandos and dynamic markings from *mf* to *pp*. The score includes various rhythmic notations such as triplets and 5:4 ratios.

