

## John Cage: *Three Dances for Two Prepared Pianos*: Dance No. 1



**CD 3 track 7**

John Cage (1912–1992) was one of the most influential American composers of the 20th century: an experimental composer, inventor of the prepared piano, champion of **chance music**, and pioneer of the **happening**. His one-time teacher Arnold Schoenberg (1874–1951) famously described him as ‘an inventor – of genius’.

Cage wrote much music for dance. He had a lifetime collaboration with the dancer and choreographer Merce Cunningham (1919–2009) and worked as a music director for various contemporary dance groups. In 1940 he was asked at short notice to compose music for a dance performance. A piano was available but Cage felt the instrument was inappropriate to the African character of the piece. Henry Cowell (1897–1965), one of Cage’s previous teachers, wrote unusual piano music in which the piano strings were plucked, scratched and manipulated. With this in mind, Cage experimented with the inside of the piano and discovered that by placing a variety of objects between the strings the piano sounded more like a percussion ensemble. He found a set of materials that worked best, less likely to fall between the strings or leap out from them. These included screws and bolts, washers and nuts, rubber, plastic, cloth, and wood.

*Three Dances for Two Prepared Pianos* is a virtuoso work for two amplified **prepared pianos**. It was premiered in New York in 1945. The piano preparations are quite elaborate, involving around 36 notes on each piano, using a variety of materials including screws, pennies, rubber, plastic, weather stripping, and bolts and nuts. As many as six objects can alter the sound of a single note. The work was written for Arthur Gold and Robert Fitzdale. Cage wrote several pieces for the prepared piano over the 1940s and 1950s including the large-scale work *Sonatas and Interludes*.

### Following the score

This is a setting of Cage’s original handwritten score. Cage did not follow the usual rules of writing accidentals: they only apply to the note they precede and don’t last for the rest of the bar. Piano 1 is written above Piano 2. The two pianos combine to sound like an orchestra of non-Western percussion instruments. John Cage has written at the beginning of the score ‘Mutes of various materials are placed between the strings of the keys used, thus effecting transformations of the piano sounds with respect to all of their characteristics’. Two of the characteristics thus affected are the **timbre** and the pitches, so do not expect to hear the notated notes as they would normally sound. When you follow the score you should focus on the rhythms. If you lose your place, look out for bars with a sparser **texture** as landmarks.

*Three Dances* follows a traditional three-movement form with a slower second movement and energetic final movement. You will study Dance No. 1.

In the 1930s Cage began to experiment with the structure of his pieces. He believed that the structure should not be defined by harmony and melody; but should be determined by rhythm. This was partly influenced by his work with contemporary dancers where the choreography is guided by the number of counts. Consequently he devised an approach which linked small- and large-scale structures dependent on time itself. Dance No. 1 is 30 bars long with a rhythmic structure where each number refers to the number of bars 2:5:2:2:6:2:7:2. These divisions are marked in the score by boxed numbers. In this way, Cage defined a matrix dependent on time and then inserted musical fragments into the matrix. The piece contains many repetitions. The sections and phrases are differentiated by changes in timbre and by moving from one rhythm to another. Rhythmically it is very intricate as can be seen from the opening bars which are **polyrhythmic**. The time signature is  $\frac{2}{2}$  – two minim beats per bar – which Piano 2 clearly falls into with four crotchet beats in the left hand and off-beat quavers in the right. Piano 1, however, uses a different metre; it is made up of groups of three quavers which go across the bar line.

The percussive sounds and fast interlocking patterns are reminiscent of the **gamelan**, an Indonesian orchestra made up mainly of tuned percussion instruments such as **metallophones** and gongs.

### What to listen for

- Listen to Dance No. 1. Describe Cage's use of accents and dynamics.
- Analyse the role that repetition plays in the piece.
- Describe some of the different textures used.

### Wider listening

Listen to further works from the 20th and 21st centuries, which created new sound worlds. In 1956 Karlheinz Stockhausen integrated electronic sounds with the human voice in his early electronic piece *Gesang der Jünglinge*. You could listen to Nos. 6–8 from *Eight Songs for a Mad King* (1969) by Peter Maxwell Davies, which uses **extended vocal techniques**.

Table of the Preparations

## FIRST DENO

MATERIAL	TONE	EFFECTED STRINGS LEFT-RIGHT	DISTANCE FROM PREPARATION	MATERIAL		EFFECTED STRINGS LEFT-RIGHT	DISTANCE FROM PREPARATION	MATERIAL		EFFECTED STRINGS LEFT-RIGHT	DISTANCE FROM PREPARATION	
				THIS BOLT	1-2	1/8	BOLT	2-3	1 5/8	LONG SM. BOLT	2-3	2 1/2
SCREW		1-2	1 5/8				FURNITURE BOLT	2-3	3 7/8			
FURNITURE BOLT		1-2	4 1/2				LG. SCREW	2-3	1 5/8			
3/16 BOLT		1-2	3 1/4				FURNITURE BOLT	2-3	7/8			
SM. SCREW		1-2	1 5/8				MED. BOLT	2-3	2 1/4			
LONG SM. BOLT		1-2	6 3/8				SM. SCREW + NUT	1-2	3 1/2			
FURNITURE BOLT		1-2	8 1/8				LG. SCREW	2-3	1 5/8			
SCREW		1-2	7 3/4				FURNITURE BOLT	2-3	6 1/4			
TINN BOLT		1-2	2				FURNITURE BOLT	2-3	1 3/4			
RUBBER,		1-2-3	N.B. <sup>t</sup>				SM. BOLT	2-3	3 1/4			
RUBBER,		1-2-3	N.B. <sup>t</sup>				SM. LONG BOLT	2-3	2 1/2			
THIN BOLT		1-2	6 1/2				BOLT	2-3	2			
LG. SCREW (+)		1-2	3/4				SM. BOLT	2-3	6 1/2			
SCREW		1-2	2				RUBBER,	1-2-3	N.B. <sup>t</sup>			
RUBBER,		1-2-3	N.B. <sup>t</sup>				BOLT	2-3	2			
SCREEN		1-2	2				PENNY <sup>t</sup>	1-2-3	7 1/8			
RUBBER,		1-2-3	N.B. <sup>t</sup>				PENNY <sup>t</sup>	2-3	5			
RUBBER,		1-2-3	N.B. <sup>t</sup>				PENNY <sup>t</sup>	1-2-3	10 1/2			
RUBBER,		1-2-3	1 1/2				SCREW	2-3	6			
WEATHER STRIP		1-2	2"				SCREW + NUT	2-3	2			
RUBBER,		1-2-3	2 1/8				PENNY <sup>t</sup>	1-2-3	2			
RUBBER,		1-2-3	13 1/2				PENNY <sup>t</sup>	1-2-3	1/4			
WEATHER STRIP		1-2	8				PENNY <sup>t</sup>	2-3	8			
SCREW		1-2	3-3 1/4				SCREW + NUT	2-3	3-3 1/4			
WEATHER STRIP		1-2	9				RUBBER	1-2-3	11			
RUBBER,		1-2-3	5 1/4				SCREW + NUT	2-3	9			
RUBBER,		1-2-3	2 1/2				PENNY <sup>t</sup>	1-2-3	3			
SCREW		1-2	1 3/4				PENNY <sup>t</sup>	1-2-3	2			
RUBBER°		1-2	8 1/2				LG. BOLT	2-3	1 3/4			
RUBBER°		1-2	8 3/4				RUBBER°	1-2	5 1/2			
RUBBER [EXHIBITE]°		1-2	0.8 3/4				RUBBER°	1-2	5 1/2			
PLASTIC [EXPERIMENT]		1-2	1 1/2				RUBBER°	1-2	5 1/2			
RUBBER°		1-2	5				RUBBER°	1-2	20			

<sup>t</sup> NEAR BRIDGE

° PLACE RUBBER OVER-UNDER SEVERAL STRINGS

TONE	MATERIAL	AFFECTED STRINGS LEFT-RIGHT	DISTANCE FROM BRIDGE (MEASURES)	MATERIAL	AFFECTED STRINGS LEFT-RIGHT	DISTANCE FROM BRIDGE (MEASURES)	MATERIAL	AFFECTED STRINGS LEFT-RIGHT	DISTANCE FROM BRIDGE (MEASURES)	TONE
F	THIN BOLT	1-2	1	LONG SM. BOLT	2-3	1	RUBBER (TEN)	1-2-3	1 1/4	E
G	RUBBER (TRIM)	1-2-3	2 1/4	SM. BOLT	2-3	1 1/2				D
A	SCREW	1-2	2 1/2	SCREW + NUT	2-3	3/4				C
B	RUBBER (TRIM)	1-2-3	2 3/8	SM. BOLT	2-3	1 1/2				C
C	SM. SCREW	1-2	3/4	SCREW	2-3	3/4				B
D				FURNITURE BOLT	2-3	4 1/6				B
E	SCREW	1-2	2	SCREW	2-3	1 1/8				A
F	SCREW	1-2	1 1/2	SCREW	2-3	3/4	RUBBER	1-2-3	3 5/8	G
G	SCREW + NUT	1-2	4 3/4	SM. BOLT	2-3	1 5/8	RUBBER	1-2-3	3 1/2	F
A				FURNITURE BOLT	2-3	6				F
B	SCREW + NUTS + W.S.	1-2	5 1/4	MED. BOLT	2-3	2 1/4	RUBBER	1-2-3	N.B. <sup>+</sup>	E
C	SCREW	1-2	7/8	SCREW	2-3	7/8				E
D	RUBBER	1-2-3	1	SCREW	2-3	7 1/2				D
E	RUBBER	1-2-3	6 7/8	PENNY <sup>†</sup>	1-2-3	2 1/2				C
F	BOLT	1-2	1 1/8	FURNITURE BOLT	2-3	8 3/8				C
G	TYPEWRITER BOLT	1-2	1 1/8	SCREW	2-3	1 1/8	RUBBER	1-2-3	3 1/4	B
A	LONG SM. BOLT	1-2	8 1/2	MED. BOLT	2-3	8 1/2	RUBBER	1-2-3	5 1/8	A
B	FURNITURE BOLT	1-2	N.B. <sup>†</sup>	BOLT	2-3	8				G
C	THIN BOLT	1-2	1 1/4	BOLT	2-3	1 1/4	RUBBER	1-2-3	2 1/2	F
D	FURNITURE BOLT	1-2	N.B. <sup>†</sup>	BOLT	2-3	9 3/4				F
E	SCREW	1-2	1	BOLT	2-3	1 1/2	RUBBER	1-2-3	2 1/2	E
F	THIN BOLT	1-2	1 1/4	BOLT	2-3	2 1/2 (3 1/4)	RUBBER	1-2-3	1 1/8	E
G	RUBBER	1-2-3	4 3/8	PENNY <sup>†</sup>	1-2-3	8				D
A	SCREW	1-2	5	BOLT	2-3	5	RUBBER	1-2-3	5 3/4	D
B	SCREW	1-2	2 1/2	BOLT	2-3	2 1/2	RUBBER	1-2-3	5 3/4	C
C	WEATHER STRIP.	1-2	1 1/4	SCREW + NUTS	2-3	13 1/4				B
D	RUBBER	1-2-3	8 1/8	LG. BOLT	2-3	3 1/4				B
E	WEATHER STRIP.	1-2	8 3/4	SM. BOLT + NUTS	2-3	8 1/2				A
F	SCREW	1-2	1 3/8	LONG BOLT	2-3	5 1/2	RUBBER	1-2-3	9	A
G	RUBBER	1-2-3	1 1/2	LG. BOLT	2-3	5 1/4				F
A	SCREW + W.S.	1-2	11 1/2							A
B	PLASTIC	1-2	24							E
C	SCREW + W.S.	1-2	8 3/4							D
D	SCREW + W.S.	1-2	1/2							C
E	PLASTIC [ex.-e]	1-2	2 7/8							B
F	RUBBER AS FOR I									FOR <sup>b</sup>

† MEASURE TO CENTER, TO EDGE OF OTHER NOTES.

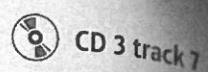
○ = ALTERNATE POSITION.

\* MEASURE FROM BRIDGE.

\*\* = EFFECTS THIS TONE AND THE TWO SEMI-TONES BELOW

## SECOND PIANO

## Dance No. 1



John Cage

$\text{♩} = 88$

Piano 1 {

Piano 2 {

2

5

3

9

4

5

13

17

6

7

*p cresc.*

8

21

9

25

10

29

*p cresc.*

*f*

*f*

*cresc.*

*f*

33 11

Musical score for measures 33-11. The score consists of four staves. The top two staves are in treble clef, and the bottom two are in bass clef. Measure 33 starts with eighth-note patterns. Measure 11 begins with a dynamic of >> followed by >. The bass staff has a continuous eighth-note pattern. Measures 33-11 end with a dynamic of *pp cresc.* followed by *f dim.*

37

12

13

Musical score for measures 37-12-13. The score consists of four staves. Measures 37-12 show eighth-note patterns with dynamics *b*, *b*, *b*, and *pp*. Measure 13 begins with a dynamic of *dim.* followed by *fp*.

41

14

Musical score for measures 41-14. The score consists of four staves. Measures 41-14 show eighth-note patterns with dynamics *mf*, *mf*, and *pp*.

45

15

Musical score for measures 45-15. The score consists of four staves. Measures 45-15 show eighth-note patterns with dynamics >>, >>, and >>.

19

16

17

53

57

18

19

20

64

*p*

*fp*

*mf*

21

*f*

22

*f*

*pp*

71

*mf*

*p*

*f*

*p*

74

*cresc.*

*cresc.*

*pp*

This page contains six staves of handwritten musical notation. The first staff consists of two measures of treble clef music with various slurs and grace notes. The second staff consists of three measures of bass clef music. The third staff consists of four measures of treble clef music with dynamic markings *p* and *fp*. The fourth staff consists of four measures of bass clef music with dynamic marking *mf*. The fifth staff consists of two measures of treble clef music with dynamic marking *f*. The sixth staff consists of three measures of bass clef music with dynamic marking *pp*. The seventh staff consists of two measures of treble clef music with dynamic marking *mf*. The eighth staff consists of three measures of bass clef music with dynamic marking *p*. The ninth staff consists of three measures of treble clef music with dynamic marking *f*. The tenth staff consists of three measures of bass clef music with dynamic marking *p*. The eleventh staff consists of four measures of treble clef music with dynamic marking *cresc.*. The twelfth staff consists of four measures of bass clef music. The thirteenth staff consists of four measures of treble clef music with dynamic marking *cresc.*. The fourteenth staff consists of four measures of bass clef music with dynamic marking *pp*.

24

25

26

86

27

28

93

**29**

97

**30**

**31**

101

**32**

105

**33**

109

34

35

113

p

*p dim. poco a poco*

36

117

*ppp*

*p*

121

37

*ff*

38

125

39

40

41

133

mf

*fz p*

137

42

43

*cresc.*



157

48

49

161

50

165

51

169

52

53

*mf*

*dim. poco a poco*

173

174

175

176

177

178

**54**

*cresc.*

*f*

> >

> >

> >

**55**

**56**

> >

> >

> >

> >

**181**

**57**

> >

> >

> >

> >

189

58

dim.

59

*p*

193

197

60

cresc.

*f*

*p*

61

62

205

cresc.

tre corde

63

209

pp

64 73

ff\*

una corda

74

213

65 74

ff\*

\*A gradual diminuendo throughout the repeat to the end.

217

66 75

67 76

Measures 217-220: The score consists of two staves. The top staff is in common time with a key signature of one flat. The bottom staff is in common time with a key signature of one sharp. Measure 217 starts with eighth-note pairs followed by sixteenth-note pairs. Measures 218 and 219 show eighth-note pairs followed by sixteenth-note pairs. Measure 220 begins with eighth-note pairs followed by sixteenth-note pairs.

221

68 77

Measures 221-224: The score consists of two staves. The top staff is in common time with a key signature of one flat. The bottom staff is in common time with a key signature of one sharp. Measure 221 starts with eighth-note pairs followed by sixteenth-note pairs. Measures 222 and 223 show eighth-note pairs followed by sixteenth-note pairs. Measure 224 begins with eighth-note pairs followed by sixteenth-note pairs.

Measures 225-228: The score consists of two staves. The top staff is in common time with a key signature of one flat. The bottom staff is in common time with a key signature of one sharp. Measure 225 starts with eighth-note pairs followed by sixteenth-note pairs. Measures 226 and 227 show eighth-note pairs followed by sixteenth-note pairs. Measure 228 begins with eighth-note pairs followed by sixteenth-note pairs.

225

69 78

Measures 229-232: The score consists of two staves. The top staff is in common time with a key signature of one flat. The bottom staff is in common time with a key signature of one sharp. Measure 229 starts with eighth-note pairs followed by sixteenth-note pairs. Measures 230 and 231 show eighth-note pairs followed by sixteenth-note pairs. Measure 232 begins with eighth-note pairs followed by sixteenth-note pairs.

229

70 79

71 80

233

237

72 81

*tre corde*