

Invisible Cities (i):
ZAIRA
for Ensemble Mosaik

$\frac{3}{8}$
♩ = 72

$\frac{2}{4}$

Joséphine Wolf Oberholzer (1984)

The musical score consists of 12 staves, each representing a different instrument or group of instruments. The instruments listed from left to right are: Flute, Oboe, Clarinet in B-flat, Metals, Woods, Drums, Piano, Violin, Viola, and Cello. The score is divided into two main sections by a vertical bar line. The first section, indicated by a 3/8 time signature, includes measures 1 through 12. The second section, indicated by a 2/4 time signature, begins at measure 13 and continues to the end. Measures 13 through 18 are grouped under the 2/4 section, while measures 19 through 24 are grouped under the 3/8 section. The music features various rhythmic patterns, dynamic markings like **ff** (fortissimo), and rests. The piano staff shows a prominent bass line in measure 13.

$$J = 48$$

48

$$d = \boxed{\frac{5}{16}}$$

24

56

44

၁၀၀

24

This image shows a single page from a complex musical score. The page is filled with six staves, each representing a different instrument. From left to right, the instruments are: Flute (Fl.), Oboe (Ob.), Clarinet in B-flat (Cl. in B-flat), Metals, Drums (Drums), Trombone (Pr.), Bassoon (Vn.), Bassoon (Va.), and Cello (Vc.). The music is divided into measures by vertical bar lines. Each measure contains various musical notes and rests, with specific dynamics and performance instructions written above or below the staff. For example, in the first measure, the Flute has a dynamic of mp and a performance instruction 'clock'. In the second measure, the Oboe has a dynamic of mf and a performance instruction 'slap'. The third measure starts with a dynamic of pp for the Clarinet. The fourth measure begins with a dynamic of mf for the Metals. The fifth measure starts with a dynamic of p for the Drums. The sixth measure starts with a dynamic of f for the Trombone. The seventh measure starts with a dynamic of pp for the Bassoon. The eighth measure starts with a dynamic of p for the Bassoon. The ninth measure starts with a dynamic of pp for the Cello. The score also includes measure numbers: 3.2, 4.3, 5.4, 6.5, 7.6, and 8.5. There are also some curved lines and arrows indicating specific performance techniques.



72

44

၃၁၀

24

34

516

2

Fl. **p**

Ob.

Cl. in B-flat

Woods

Drums

Pf.

Vn. **p**

Va.

Vc.

This image shows two staves of a musical score. The top staff is in common time (indicated by 'C') and the bottom staff is in 2/4 time (indicated by '2/4'). Both staves begin with a dynamic of *p*.

Measure 24:

- Shaker:** The first measure contains a single note on each staff. The top staff has a grace note above the note head.
- Slap:** The second measure contains a single note on each staff. The top staff has a grace note above the note head.
- Shaker:** The third measure contains a single note on each staff. The top staff has a grace note above the note head.
- Brush:** The fourth measure contains a single note on each staff. The top staff has a grace note above the note head.
- Fast guero:** The fifth measure contains a single note on each staff. The top staff has a grace note above the note head.
- Slow guero:** The sixth measure contains a single note on each staff. The top staff has a grace note above the note head.
- Pianissimo:** The seventh measure contains a single note on each staff. The top staff has a grace note above the note head.
- Shaker:** The eighth measure contains a single note on each staff. The top staff has a grace note above the note head.
- Col legno:** The ninth measure contains a single note on each staff. The top staff has a grace note above the note head.

Measure 25:

- Shaker:** The first measure contains a single note on each staff. The top staff has a grace note above the note head.
- Slap:** The second measure contains a single note on each staff. The top staff has a grace note above the note head.
- Shaker:** The third measure contains a single note on each staff. The top staff has a grace note above the note head.
- Brush:** The fourth measure contains a single note on each staff. The top staff has a grace note above the note head.
- Fast guero:** The fifth measure contains a single note on each staff. The top staff has a grace note above the note head.
- Slow guero:** The sixth measure contains a single note on each staff. The top staff has a grace note above the note head.
- Pianissimo:** The seventh measure contains a single note on each staff. The top staff has a grace note above the note head.
- Shaker:** The eighth measure contains a single note on each staff. The top staff has a grace note above the note head.
- Overpressure:** The ninth measure contains a single note on each staff. The top staff has a grace note above the note head.

A detailed musical score page featuring four systems of music. The instruments listed are Flute (Fl.), Oboe (Ob.) in B-flat, Woods, Drums, Piccolo (Pic.), Viola (Vn.), and Cello (Vc.). The score includes various performance techniques such as slapping (indicated by a hand icon), shaking (shaker box), brushing (brush icon), slow guero (slow guero box), fast (fast box), overpressure (overpressure box), and fauitanado (fauitanado box). Dynamic markings include p, mp, f, ff, and sf. Measure numbers 1 through 12 are marked at the start of each system. The score is written on a standard musical staff with a white background.

38

4

Fl.

Ob.

Ct. in B-flat

Metals

Woods

Pf.

f

ff

p

mf

3.2

5.4

6.5

5.3

5.4

7.5

prepared

p

mf

pp

p

mf

pp

p

Hautando

p

mf

Hautando

p

mf

Hautando

p

mf

Vn.

Va.

Vc.

p

pp

p

mf

pp

D
68

16 5 4 8 5 16 4 5 16 3 8 5 4 3 8

Fl.

Ob.

Cl. in B-flat

Metals

Drums

Pf.

Vn.

Va.

Vc.

2

5

16

3

8

2

4

75

Fl.

Ob.

Cl. in B-flat

Metals

Drums

Pf.

Vn.

Va.

Vc.

3

2

4

6

Fl.

Ob.

Cl. in B-flat

Metals

Drums

Pf.

Vn.

Va.

Vc.

Fl. (measures 1-5)

Ob. (measures 1-5)

Cl. in B-flat (measures 1-5)

Metals (measures 1-5)

Drums (measures 1-5)

Pf. (measures 1-5)

Vn. (measures 1-5)

Va. (measures 1-5)

Vc. (measures 1-5)

Fl. (measures 1-5)

Ob. (measures 1-5)

Cl. in B-flat (measures 1-5)

Metals (measures 1-5)

Drums (measures 1-5)

Pf. (measures 1-5)

Vn. (measures 1-5)

Va. (measures 1-5)

Vc. (measures 1-5)

Fl. (measures 1-5)

Ob. (measures 1-5)

Cl. in B-flat (measures 1-5)

Metals (measures 1-5)

Drums (measures 1-5)

Pf. (measures 1-5)

Vn. (measures 1-5)

Va. (measures 1-5)

Vc. (measures 1-5)

Fl. (measures 1-5)

Ob. (measures 1-5)

Cl. in B-flat (measures 1-5)

Metals (measures 1-5)

Drums (measures 1-5)

Pf. (measures 1-5)

Vn. (measures 1-5)

Va. (measures 1-5)

Vc. (measures 1-5)

Fl. Ob. Cl. in B-flat Metals Drums Pt. Vn. Va. Vc.

$\text{♩} = 48$

5

2

E

Fl. *p* *click* *ram* *clap* *slap* *shaker* *click* *slap* *shaker* *brush* *brush* *brush* *slow* *guero* *prepared ff* *overpressure* *overpressure* *overpressure*

Ob. *p* *mp* *mp* *mp* *mp* *mp* *mp* *mp* *mf* *mf*

Ct. in B-flat *p* *mp* *mp* *mp* *mp* *mp* *mp* *mp* *mf* *mf*

Metals *p* *mp* *mp* *mp* *mp* *mp* *mp* *mf* *mf*

Drums *p* *p*

Pf. *p* *p*

Vn. *p* *p*

Va. *p* *p*

Vc. *p* *p*

The image shows a page of musical notation from a score. The page is divided into four quadrants by a vertical and horizontal line. The top half contains measures 5 through 8, and the bottom half contains measures 15 through 16. The left side of the page features staves for Flute (Fl.), Oboe (Ob.), Bassoon (B. in B-flat), and Trombones (Trom.). The right side features staves for Metals, Drums, Piano (Pf.), and Double Bass (Vc.). The notation includes various rhythmic patterns, dynamic markings like *p*, *mf*, *f*, and *pp*, and performance instructions such as "shaker", "slap", "brush", "superball", and "overpressure". Measure 5 starts with a flute solo. Measures 6-8 feature a shaker and slapping patterns on the bassoon and trombones. Measures 15-16 show complex interactions between the woodwind section and the metallophones and drums.

3 8

4

Fl. *shaker* *clock* 7.5 *p*

Ob. *shaker* *superball* 5.4 *p*

Cl. in B-flat *shaker* *superball* *brush* *p*

Metals *superball* *brush* *p*

Drums *brush* *p*

Pf. *p*

Vn. *shaker* *overpressure* *p*

Va. *shaker* *overpressure* *p*

Vc. *col legno* *p*

5

38

46

38

5

38

Fl. *shaker* p

Ob. *slap* $f \text{ mp}$

C. in B-flat *shaker* p

Metals *slap* mf

Drums *brush* p

Pf. *superball* p

Vn. *shaker* p

Va. *shaker* p

Vc. *overpressure* p

6

5

3

4

5

Fl. *p*

Ob. *p*

C. in B-flat *p*

Metals *p*

Drums *p*

Pf. *p*

Vn. *p*

Va. *p*

Vc. *p*

shaker *p*

brush *p*

superball *p*

overpressure *mp*

slop *f*

3.2 *mf*

shaker *p*

brush *p*

superball *p*

overpressure *mp*

col legno *mf*

4.5 *mf*

5.4 *mf*

2

3

5

4

5

4

5

4

4

3

5

4

5

5

4

Fl. **Ob.** **C. in B-flat**

shaker **slap** **shaker**

p **mf** **p**

Metals **Drums** **Pf.**

superball **superball** **superball**

p **p** **p**

Vn. **Va.** **Vc.**

overpressure **overpressure** **overpressure**

p **p** **p**

shaker **shaker** **shaker**

p **p** **p**

overpressure **overpressure** **overpressure**

p **p** **p**

col legno **col legno** **col legno**

f **f** **f**

shaker **shaker**

p **p**

p **p**

p **p**

brush **superball** **superball**

p **p** **p**

p **p**

p **p**

p **p**

shaker **shaker**

p **p**

p **p**

p **p**

This page of musical notation contains eight systems of staves, each representing a different instrument or group of instruments. The systems are arranged vertically, with measure numbers 1 through 8 on the left side of each system.

- Flute (Fl.)**: Starts with a dynamic *p*. Measures 1-2: eighth-note pairs. Measures 3-4: eighth-note pairs. Measures 5-6: eighth-note pairs. Measures 7-8: eighth-note pairs.
- Oboe (Ob.)**: Starts with a dynamic *p*. Measures 1-2: eighth-note pairs. Measures 3-4: eighth-note pairs. Measures 5-6: eighth-note pairs. Measures 7-8: eighth-note pairs.
- Clarinet in B-flat (Cl. in B-flat)**: Starts with a dynamic *p*. Measures 1-2: eighth-note pairs. Measures 3-4: eighth-note pairs. Measures 5-6: eighth-note pairs. Measures 7-8: eighth-note pairs.
- Metals**: Measures 1-2: eighth-note pairs. Measures 3-4: eighth-note pairs. Measures 5-6: eighth-note pairs. Measures 7-8: eighth-note pairs.
- Drums**: Measures 1-2: eighth-note pairs. Measures 3-4: eighth-note pairs. Measures 5-6: eighth-note pairs. Measures 7-8: eighth-note pairs.
- Piccolo (Pic.)**: Measures 1-2: eighth-note pairs. Measures 3-4: eighth-note pairs. Measures 5-6: eighth-note pairs. Measures 7-8: eighth-note pairs.
- Violin (Vn.)**: Measures 1-2: eighth-note pairs. Measures 3-4: eighth-note pairs. Measures 5-6: eighth-note pairs. Measures 7-8: eighth-note pairs.
- Viola (Va.)**: Measures 1-2: eighth-note pairs. Measures 3-4: eighth-note pairs. Measures 5-6: eighth-note pairs. Measures 7-8: eighth-note pairs.
- Cello (Cello)**: Measures 1-2: eighth-note pairs. Measures 3-4: eighth-note pairs. Measures 5-6: eighth-note pairs. Measures 7-8: eighth-note pairs.

Percussion Instruments:

- shaker**: Used in measures 1, 2, 3, 4, 5, 6, 7, and 8.
- brush**: Used in measures 3, 4, 5, 6, 7, and 8.
- superball**: Used in measures 3, 4, 5, 6, 7, and 8.
- overpressure**: Used in measures 5, 6, 7, and 8.
- col legno**: Used in measures 7 and 8.

Dynamic Markings:

- p*: piano (soft)
- mp*: mezzo-piano (moderately soft)
- mf*: mezzo-forte (moderately loud)
- f*: forte (loud)

$\text{♩} = 96$

5

38

G

4

5

16

5

2

4

16

5

38

5

4

5

2

4

16

5

38

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16

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38

5

4

5

2

4

16

5

38

5

4

5

2

4

16

5

38

5

4

5

143

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34

၁၀

56

Musical score page 10, measures 11-12. The score includes parts for Flute (Fl.), Oboe (Ob.), and Clarinet in B-flat (Cl. in B-flat). The notation shows various dynamic markings like *p*, *f*, and *ff*, as well as slurs and grace notes. Measure 11 starts with a forte dynamic *ff* for Flute and Ob., followed by a piano dynamic *p* for all parts. Measure 12 begins with a piano dynamic *p* for Flute and Ob., followed by a forte dynamic *f* for Cl. in B-flat.

A page of musical notation for orchestra, featuring six staves: Metals, Drums, Pf., Vn., Va., and Vc. The notation includes various dynamic markings like ppp, ff, and mf, and performance instructions like '3.2', '4.3', '7.6', and '5.4'. The page is numbered 11 at the bottom left.

This page of musical notation is a complex score for orchestra and brass band, spanning four systems. The key signature is B-flat major throughout. The time signature varies between common time (4/4), 3/8, and 2/4. The score includes parts for Flute (Fl.), Oboe (Ob.), Trombones (Trom. in B-flat), Drums (Drums), Piccolo (Pf.), Viola (Va.), and Cello (Vc.). The notation is dense with dynamic markings such as *p*, *f*, *ff*, *fff*, and *ppp*. Articulation marks like dots and dashes are frequent. Measure numbers 119 through 126 are indicated at the top of each system. A detailed legend on the right side defines symbols for 'overpressure' (a vertical bar with a wavy line), 'col legno' (a woodcut mark), and 'mf' (mezzo-forte). The page number '119' is located in the bottom left corner.

5

Fl.

Ob.

Ct. in B-flat

Metals

Drums

Pf.

Vn.

Va.

Vc.

8

16

5

4

2

16

5

4

161

H

3 8

4

5 16

5

3 8

2

3 4

2

161

3 8

4

5 16

5

3 8

2

3 4

2

5

4

5

Fl. *shaker* p

Ob. *mp*

C. in B-flat *p*

Woods *mf*

Drums *ff*

Pf. *p*

Vn. *mf*

Vn. *p*

Vc. *p*

shaker p

slap mp

shaker p

mp

mp mp mf

prepared p

prepared p

brush mf

overpressure ff

flautando p

shaker p

slap mp

shaker p

overpressure ff

flautando p

flautando p

overpressure ff

flautando p

overpressure ff

I

3

4

5

6

8

16

32

64

128

256

512

1024

2048

4096

8192

16384

32768

65536

131072

262144

524288

1048576

2097152

4194304

8388608

16777216

33554432

67108864

134217728

268435456

536870912

107374184

214748368

429496736

858993472

1717986944

3435973888

6871947776

1374389552

2748779104

5497558208

10995116416

21990232832

43980465664

87960931328

175921862656

351843725312

703687450624

140737490128

281474980256

562949960512

1125899921024

2251799842048

4503599684096

9007199368192

18014398736384

36028797472768

72057594945536

14411518989072

28823037978144

57646075956288

115292151912576

230584303825152

461168607650304

922337215300608

1844674430601216

3689348861202432

7378697722404864

14757395444809728

29514790889619456

59029581779238912

118059163558477824

236118327116955648

472236654233911296

944473308467822592

1888946616935645184

3777893233871290368

7555786467742580736

1511157293548561472

3022314587097122944

6044629174194245888

1208925834838481176

2417851669676962352

4835703339353924704

9671406678707849408

19342813357415698816

38685626714831397632

77371253429662795264

15474250685932590016

30948501371865180032

61897002743730360064

123794005487460720128

247588010974921440256

495176021949842880512

990352043899685761024

1980704087799371522048

3961408175598743044096

7922816351197486088192

1584563270238973176384

3169126540477946352768

6338253080955892705536

12676506161911785411072

25353012323823570822144

50706024647647141644288

101412049295294283288576

202824098590588566577152

405648197181177133154304

811296394362354266308608

1622592788724708532617216

3245185577449417065234432

6490371154898834130468864

12980742309797668260937728

25961484619595336521875456

51922969239190673043750912

10384593847838134608750184

20769187695676269217500368

41538375391352538435000736

83076750782705076870001472

16615350156541015374002944

33230700313082030748005888

66461400626164061496001176

13292280125232812292002352

26584560250465624584004704

51169120500931249168009408

102338241001864982336018816

204676482003729964672037632

409352964007459929344075264

818705928014919858688150528

1637411856029397717376301056

3274823712058795434752602112

6549647424117590869505204224

1309929484823585173901040848

2619858969647170347802081696

5239717939294340695604163392

1047943587858880139120832688

2095887175717760278241665376

4191774351435520556483330752

8383548702871040112966661504

16767095405742080225933323008

33534190811484160451866646016

67068381622968320903733292032

13413676324593664180746658064

26827352649187328361493316128

53654705298374656722986632256

10730941058674931344583326512

21461882117349862689166653024

42923764234699725378333306048

85847528469399450756666612096

171695056987898501513333224192

343390113975797003026666448384

686780227951594006053333896768

137356045590318801210666779344

274712091180637602421333558688

549424182361275204842667117376

109884836472250409688533423472

219769672944500819377066846944

439539345889001638754133693888

879078691778003275508267387776

175815738355606455101654675552

351631476711212811003309351104

703262953422425622006618702208

1406525906844851440013235404416

2813051813689702880026470808832

5626103627379405760052941617664

1125220725479811536010588323532

2250441450959622072021176667064

4500882901919244144042353334128

9001765803838488288084706668256

18003531607676976576169413336512

36007063215353953152338826673024

72014126430707906304677653346048

14402825286141881260935530669208

28805650572283762521871060338416

57611301144567525043742120676832

115222602289135050087484241353664

230445204578270100174968482707328

460890409156540200349936965414656

92178081831308040069987393082912

18435616366261608013997478616524

36871232732523

4

Fl. *p* shaker

Ob. *p*

C. in B-flat *p*

Cl. in B-flat *p*

Metals *pp*

Woods *p*

Pf.

Vn. *p*

Va. *mp* overpressure 3.2

Vc. *mf* overpressure 6.5 *col legno*

5

Fl. *p* shaker

Ob. *p*

C. in B-flat *p* *mf*

Cl. in B-flat *p*

Metals *mf*

Woods *p*

Pf. *p*

Vn. *p*

Va. *p*

Vc. *f*

4

Fl. *p* shaker

Ob. *p*

C. in B-flat *p*

Cl. in B-flat *p*

Metals *p*

Woods *p*

Pf. *p*

Vn. *p*

Va. *mf* overpressure 3.2

Vc. *mf* overpressure 6.5 *col legno*

5

Fl. *p* shaker

Ob. *p*

C. in B-flat *p* *mf*

Cl. in B-flat *p*

Metals *mf*

Woods *p*

Pf. *p*

Vn. *p*

Va. *p*

Vc. *f*

38

4

3

4

38

Fl. Ob. Cl. in B-flat Metals Woods Drums Pt. Vn. Va. Vc.

shaker *shaker* *shaker* *superball* *brush* *overpressure* *shaker* *shaker* *shaker* *overpressure* *overpressure* *col legno*

This image shows a single page from a complex musical score. The page is divided into several sections by vertical lines, each containing multiple staves for different instruments. The instruments listed on the left side of the page are Flute (Fl.), Oboe (Ob.), Clarinet in B-flat (Cl. in B-flat), Shaker, Superball, Prepared Shaker, Overpressure Shaker, Metals, Woods, Drums, Pf., Vn., Va., and Vcl. Each instrument has its own staff or group of staves with specific dynamics and performance instructions. For example, the Shaker section uses grace notes and dynamic markings like 'p'. The Superball section features a 'superball' icon and dynamic markings like 'ff'. The Prepared Shaker section includes a 'prepared' instruction and dynamic markings like 'p'. The Overpressure Shaker section includes an 'overpressure' instruction and dynamic markings like 'mf'. The Metals, Woods, and Drums sections use various rhythmic patterns and dynamic markings like 'mp'. The Pf., Vn., Va., and Vcl. sections also have their own unique notation and dynamics. The entire page is filled with dense musical notation and technical markings, reflecting the complexity of the piece.

$\text{♩} = 96$

K

38

2

38

2

Fl.

Ob.

C. in B-flat

Metals

Drums

Pf.

prepared

prepared

prepared

prepared

p

p

p

p

mf

ff

ff

ff

Vn.

Va.

Vc.

Fl.

Ob.

Cl. in B-flat

Metals

Pf.

Vn.

Va.

Vc.

Fl.

Ob.

Cl. in B-flat

Metals

Bsn.

Pf.

Tbn.

Tba.

Vn.

Va.

Cello/Vc.

1

2

3

4