

Phase Shift

(for Wind Ensemble and Optional Electronics)

Grade 4

By Robert Langenfeld (ASCAP)

Full Score

Instrumentation

3 Flute Left	2 Bb Trumpet 1
3 Flute Right	2 Bb Trumpet 2
1 Oboe Left	2 Bb Trumpet 3
1 Oboe Right	2 Bb Trumpet 4
1 (M) Bassoon Left	2 Horn in F 1
1 Bassoon Right	2 Horn in F 2
4 Bb Clarinet Left	2 Horn in F 3
4 Bb Clarinet Right	2 Horn in F 4
1 Bb Bass Clarinet Left	2 Trombone 1
1 (M) Bb Bass Clarinet Right	2 Trombone 2
3 Eb Alto Saxophone Left	2 Bass Trombone
3 Eb Alto Saxophone Right	2 Euphonium 1-2 (B.C.)
2 Bb Tenor Saxophone Left	2 Euphonium 1-2 (T.C.)
2 (M) Bb Tenor Saxophone Right	4 Tuba
1 (M) Eb Baritone Saxophone Left	

1 Electronics
1 Timpani
1 Percussion 1 (Left): Marimba, Bass Drum
1 Percussion 2 (Right): Marimba, Bass Drum
1 Percussion 3: Gong
1 Percussion 4: Hi-Hat, Crash Cymbals
1 Percussion 5: Crotales
1 Percussion 6: Glockenspiel

Complete Set \$90.00 Extra Conductor Score \$12.00 Extra Part \$4.00



Consortium Members:

Purdue University Symphonic Band, Dr. Jonathan Sweet (Consortium Lead)
Bellevue West High School, Marques Eckhoff
Ferris State University, Richard Scott Cohen
Dordt University Bands, Dr. Onsby C. Rose
Ottawa University Wind Ensemble, Dr. Kevin Maret
Metropolitan State University, David Kish
University of Illinois at Chicago Symphonic Band, Nicholas Carlson
Mississippi State University Concert Band, Craig Aarhus

About Phase Shift:

The term "Phase Shift" is a change in the phase of a waveform. Meaning how far has the waveform shifted from its usual position. In this piece, we iterate on that concept by putting the ensemble into an unusual arrangement and shifting the sound (waveforms) away from their usual positions. Throughout the piece, a 4-note motif is present that is passed around from side to side and shifted between instrument families throughout the stage. Punctuated brass fanfares mark each phase shift while providing driving motion for the entire piece.

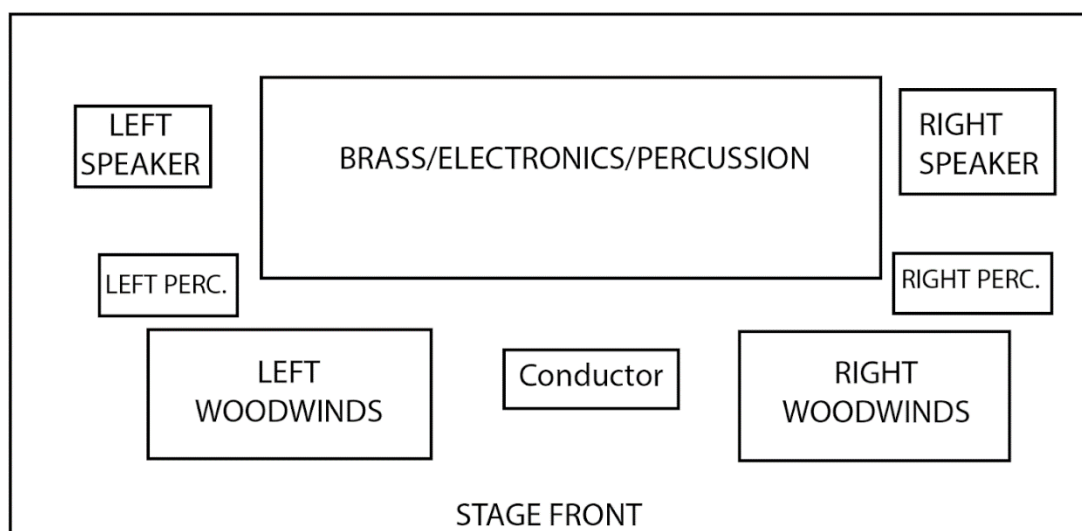
More than that, the title refers to the shift away from the traditional performance medium to a more modern soundscape with incorporated electronics. The concert band medium has gone under many evolutions over the last 100 years and "Phase Shift" celebrates those evolutions while taking that next step into the future.

Performance Notes:

The electronics are completely optional. However, I strongly encourage the use of them. The part can technically be played by one player if the laptop is right by the keyboard. However, I would recommend 2 people so one person can control the sound board and tempo sync of the stutters. When using the tempo sync key "T", you should only have to click along with the conductor for a few measures each time the sample is started up. Afterwards you don't have to tempo sync anymore. Before the actual piece is played, I recommend doing a sound check by playing the first couple of notes and making sure the stutter sound "P" works as well.

The following ensemble setup is the recommended way of setting up the stage to maximize the effect:

Ensemble Setup:



The woodwinds should be evenly divided between the two sides.

Some parts are marked with the letter "M". If there is only 1 player for this instrument family, the M denotes which part/side they should play.

Electronics Setup:

To get the latest Ableton Live file, email the composer (roblangefeld@gmail.com)

Required Equipment:

1. 61 key Midi Keyboard
2. Laptop with the latest version of Ableton Live (demo version is fine)
3. Loud PA System

The midi keyboard should be directly connected to the laptop and same with the sound system. The laptop should feed into some form of mixing board so the audio can be adjusted with physical knobs and set before the performance.

About the Composer

Born and raised in Nebraska, Robert Langenfeld (b. 1990) found a love for music earlier in his childhood. His love for music when he was young led to him to eventually compose his first piece when he was only 12. Since then Robert's music has won numerous honors and awards. Most recently, his work "Spark!" was selected as the winner of the 2016 Claude T. Smith Memorial Composition Contest. His symphony, "The Great Machine", was premiered at the 2022 CBDNA Eastern Conference. Robert's concert music has been published through Grand Mesa Music and Claude T. Smith Publications. His style of composing has been described as rich harmonies against dramatic backdrops of sounds and colors. Robert has studied composition under composer Steven Bryant.

Robert not only writes for the traditional performance mediums, he also is an active film scorer, having scored for over a dozen independent films. Along with this Robert is an active drill writer for the midwest area. He regularly consults with marching band programs and designs their drill for their competition season.

In 2012, Robert founded his own publishing company RLCompositions. The goal was to provide musicians, directors, and ensembles better access to his music. This also allowed Robert to provide better insights into his composing and to also start building educational materials for aspiring composers as well. You can learn more by visiting www.rlcompositions.com.

After graduating from Northwest Missouri State University in May 2013 with a B.S. in Computer Science and a B.A. in Music, Robert took up residence in Kansas City, MO and married his wife Arriane. When Robert is not busy with his full time job and composing, he spends time his wife, playing video games and playing with his dogs.



Phase Shift

The score is divided into three main sections. The first section (measures 1-3) is marked with a tempo of $\text{♩} = 80$ and features a 3/4 time signature. The second section (measures 4-10) is marked with a tempo of $\text{♩} = 107$ (with a note indicating $\text{♩} = 160$) and features a 12/8 time signature. The third section (measures 11-16) returns to the $\text{♩} = 80$ tempo and features a 4/4 time signature. The score includes parts for Flute (Left and Right), Oboe (Left and Right), Clarinet (Left and Right), Alto Saxophone (Left and Right), Bassoon (Left and Right), (M) Bass Clarinet (Left and Right), (M) Tenor Saxophone (Left and Right), Trumpet (B♭ 1-4), Horn (F 1-4), Trombone (1-3), Euphonium 1/2, Tuba, Electronics, Timpani, and Percussion (6 parts). The percussion parts include Marimba, Bass Drum, Gong, Hi-Hat, Crash Cymbals, and Crotales. Dynamics range from *ff* to *p*. The score includes various musical notations such as slurs, accents, and articulation marks.

A

Fl. L

Ob. L

Cl. L

A. Sax. L

Bsn. L

B. Cl. L

Ten. Sax. L

Bari. Sax. L

Fl. R

Ob. R

Cl. R

A. Sax. R

Bsn. R

B. Cl. R

Ten. Sax. R

A

Tpt. 1

Tpt. 2

Tpt. 3

Tpt. 4

Hn. 1

Hn. 2

Hn. 3

Hn. 4

Tbn. 1

Tbn. 2

B. Tbn.

Euph.

Tba.

Elec.

Timp.

A

Mar. L

Mar. R

Gong

Dr.

Crot.

Glock.

Bass Drum

Fl. L

Ob. L

Cl. L

A. Sax. L

Bsn. L

B. Cl. L

Ten. Sax. L

Bari. Sax. L

12

8

3

4

mp *mf*

B

Fl. R

Ob. R

Cl. R

A. Sax. R

Bsn. R

B. Cl. R

Ten. Sax. R

mf

mf

Tpt. 1

Tpt. 2

Tpt. 3

Tpt. 4

Hn. 1

Hn. 2

Hn. 3

Hn. 4

Tbn. 1

Tbn. 2

B. Tbn.

Euph.

Tba.

12

8

3

4

mp *mf* *p*

mp *mf* *p*

mp *mf* *p*

mp *mf* *p*

mf *p*

mf *p*

B

Elec.

Timp.

Mar. L

B. D. R

Gong

Dr.

Crof.

Glock.

Bass Drum

Scrape

Brass mallets

12

8

3

4

mf *mp* *p*

mp *mf* *p*

f

mf *p*

B

Fl. L

Ob. L

Cl. L

A. Sax. L

Bsn. L

B. Cl. L

Ten. Sax. L

Bari. Sax. L

mf

Fl. R

Ob. R

Cl. R

A. Sax. R

Bsn. R

B. Cl. R

Ten. Sax. R

mf

Tpt. 1

Tpt. 2

Tpt. 3

Tpt. 4

Hn. 1

Hn. 2

Hn. 3

Hn. 4

Tbn. 1

Tbn. 2

B. Tbn.

Euph.

Tba.

mf

mp

mf

mp

mf

mp

mf

mp

mf

mp

Elec.

Timp.

mf

Eb to Db

B. D. L

B. D. R

Gong

Dr.

Crof.

Glock.

mf

mp

Fl. L

Ob. L

Cl. L

A. Sax. L

Bsn. L

B. Cl. L

Ten. Sax. L

Bari. Sax. L

Fl. R

Ob. R

Cl. R

A. Sax. R

Bsn. R

B. Cl. R

Ten. Sax. R

Tpt. 1

Tpt. 2

Tpt. 3

Tpt. 4

Hn. 1

Hn. 2

Hn. 3

Hn. 4

Tbn. 1

Tbn. 2

B. Tbn.

Euph.

Tba.

Elec.

Timp.

B. D. L

B. D. R

Gong

Dr.

Crot.

Glock.

f *ff* *mp*

D

Tune C to G

Db to Eb

Marimba Medium-core mallets *mp*

Marimba *mp*

Scrape *f*

Brass mallets *f* *ff*

49 50 *f* 51 52 53 54 *ff* 55 *mp* 56 57 58 59

Fl. L

Ob. L

Cl. L

A. Sax. L

Bsn. L

B. Cl. L

Ten. Sax. L

Bari. Sax. L

Fl. R

Ob. R

Cl. R

A. Sax. R

Bsn. R

B. Cl. R

Ten. Sax. R

Tpt. 1

Tpt. 2

Tpt. 3

Tpt. 4

Hn. 1

Hn. 2

Hn. 3

Hn. 4

Tbn. 1

Tbn. 2

B. Tbn.

Euph.

Tba.

Elec.

Timp.

Mar. L

Mar. R

Gong

Dr.

Crof.

Glock.

Fl. L
 Ob. L
 Cl. L
 A. Sax. L
 Bsn. L
 B. Cl. L
 Ten. Sax. L
 Bari. Sax. L

Musical score for woodwinds and reeds (left side). Flute (Fl. L) and Oboe (Ob. L) play a melodic line with a *mf* dynamic. Clarinet (Cl. L) plays a similar line. Bassoon (Bsn. L) and Bass Clarinet (B. Cl. L) play a rhythmic accompaniment. Tenor Saxophone (Ten. Sax. L) and Baritone Saxophone (Bari. Sax. L) play a rhythmic accompaniment.

Fl. R
 Ob. R
 Cl. R
 A. Sax. R
 Bsn. R
 B. Cl. R
 Ten. Sax. R

Musical score for woodwinds and reeds (right side). Flute (Fl. R) and Oboe (Ob. R) play a melodic line with a *mf* dynamic. Clarinet (Cl. R) plays a similar line. Bassoon (Bsn. R) and Bass Clarinet (B. Cl. R) play a rhythmic accompaniment. Tenor Saxophone (Ten. Sax. R) plays a rhythmic accompaniment.

Tpt. 1
 Tpt. 2
 Tpt. 3
 Tpt. 4
 Hn. 1
 Hn. 2
 Hn. 3
 Hn. 4
 Tbn. 1
 Tbn. 2
 B. Tbn.
 Euph.
 Tba.

Musical score for brass instruments. Trumpets (Tpt. 1-4) and Horns (Hn. 1-4) are currently silent. Trombones (Tbn. 1-2, B. Tbn.) play a melodic line with dynamics *f*, *mp*, *f*, and *p*. Euphonium (Euph.) and Tuba (Tba.) are currently silent.

Elec.

Musical score for electric piano (Elec.), currently silent.

Timp.

Musical score for timpani (Timp.), currently silent.

Mar. L
 Mar. R
 Gong
 Dr.
 Crof.
 Glock.

Musical score for percussion instruments. Maracas (Mar. L, Mar. R) play a rhythmic accompaniment with a *mp* dynamic. Gong, Drums (Dr.), Crotales (Crof.), and Glockenspiel (Glock.) are currently silent.

Fl. L *mf*

Ob. L *mf*

Cl. L *mf*

A. Sax. L *mf*

Bsn. L *mp*

B. Cl. L *mp*

Ten. Sax. L *mp*

Bari. Sax. L *mp*

Fl. R *mf*

Ob. R *mf*

Cl. R *mf*

A. Sax. R *mf*

Bsn. R *mp*

B. Cl. R *mp*

Ten. Sax. R *mp*

Tpt. 1 *mf* *f* *mf* *f*

Tpt. 2 *mf* *f* *mf* *f*

Tpt. 3 *mf* *f* *mf* *f*

Tpt. 4 *mf* *f* *mf* *f*

Hn. 1 *mf*

Hn. 2 *mf*

Hn. 3 *mf*

Hn. 4 *mf*

Tbn. 1 *mp* *f* *mp* *f*

Tbn. 2 *mp* *f* *mp* *f*

B. Tbn. *mp* *f* *mp* *f*

Euph. *mf* *mf*

Tba. *mp* *mf* *mp* *mf*

Elec.

Timp. *mp* *mf* *mp* *mf*

C to D
Bb to Gb

G to F

Mar. L *mp*

Mar. R *mp*

Gong

Dr. *mf* +Hi-Hat

Crof.

Glock.

Fl. L *mf*

Ob. L *mf*

Cl. L *mf*

A. Sax. L *mf*

Bsn. L

B. Cl. L

Ten. Sax. L

Bari. Sax. L

Fl. R *mf*

Ob. R *mf*

Cl. R *mf*

A. Sax. R *mf*

Bsn. R

B. Cl. R

Ten. Sax. R

Tpt. 1

Tpt. 2

Tpt. 3

Tpt. 4

Hn. 1 *mf*

Hn. 2 *mf*

Hn. 3 *mf*

Hn. 4 *mf*

Tbn. 1 *mp* *f* *mp*

Tbn. 2 *mp* *f* *mp*

B. Tbn. *mp* *f* *mp*

Euph. *mf* *mf*

Tba. *mp* *mf* *mp*

Elec.

Timp. *mp* *mf*

Mar. L

Mar. R

Gong

Dr.

Crof.

Glock.

Fl. L

Ob. L

Cl. L

A. Sax. L

Bsn. L

B. Cl. L

Ten. Sax. L

Bari. Sax. L

Fl. R

Ob. R

Cl. R

A. Sax. R

Bsn. R

B. Cl. R

Ten. Sax. R

G

f *n*

mp *mf*

Tpt. 1

Tpt. 2

Tpt. 3

Tpt. 4

Hn. 1

Hn. 2

Hn. 3

Hn. 4

Tbn. 1

Tbn. 2

B. Tbn.

Euph.

Tba.

p *mf* *p*

Elec.

Electric Stutter (Press and hold P on the keyboard. Use T to tap tempo for a few bars to match conductor)

p *mf* *p*

Timp.

p *mf*

Mar. L

Mar. R

Gong

Dr.

Crof.

Glock.

G

Bass Drum

p *mp* *mf* *p*

p *mf* *p*

p *mf*

Bowed

mf *mp*

H

Fl. L
Ob. L
Cl. L
A. Sax. L
Bsn. L
B. Cl. L
Ten. Sax. L
Bari. Sax. L

Fl. R
Ob. R
Cl. R
A. Sax. R
Bsn. R
B. Cl. R
Ten. Sax. R

H

Tpt. 1
Tpt. 2
Tpt. 3
Tpt. 4
Hn. 1
Hn. 2
Hn. 3
Hn. 4
Tbn. 1
Tbn. 2
B. Tbn.
Euph.
Tba.
Elec.

Timp.

H

B. D. L
B. D. R
Gong
Dr.
Crof.
Glock.

Fl. L
Ob. L
Cl. L
A. Sax. L
Bsn. L
B. Cl. L
Ten. Sax. L
Bari. Sax. L

Fl. R
Ob. R
Cl. R
A. Sax. R
Bsn. R
B. Cl. R
Ten. Sax. R

Tpt. 1
Tpt. 2
Tpt. 3
Tpt. 4
Hn. 1
Hn. 2
Hn. 3
Hn. 4
Tbn. 1
Tbn. 2
B. Tbn.
Euph.
Tba.
Elec.

Timp.
B. D. L
B. D. R
Gong
Dr.
Crof.
Glock.

Fl. L

Ob. L

Cl. L

A. Sax. L

Bsn. L

B. Cl. L

Ten. Sax. L

Bari. Sax. L

Fl. R

Ob. R

Cl. R

A. Sax. R

Bsn. R

B. Cl. R

Ten. Sax. R

Tpt. 1

Tpt. 2

Tpt. 3

Tpt. 4

Hn. 1

Hn. 2

Hn. 3

Hn. 4

Tbn. 1

Tbn. 2

B. Tbn.

Euph.

Tba.

Elec.

F to G, Ab to B, Eb to D

B. D. L

B. D. R

Gong

Dr.

Crof.

Glock.

Fl. L
Ob. L
Cl. L
A. Sax. L
Bsn. L
B. Cl. L
Ten. Sax. L
Bari. Sax. L

Fl. R
Ob. R
Cl. R
A. Sax. R
Bsn. R
B. Cl. R
Ten. Sax. R

Tpt. 1
Tpt. 2
Tpt. 3
Tpt. 4
Hn. 1
Hn. 2
Hn. 3
Hn. 4
Tbn. 1
Tbn. 2
B. Tbn.
Euph.
Tba.

Elec.
Timp.

B. D. L
B. D. R
Gong
Dr.
Crof.
Glock.

mf *p* *ff* *f* *pp* *mp* *f*

Play on midi keyboard

Hard mallets (not wood)

K

12 8 2 4 12 8

171 172 173 174 175 176 177 178 179 180 181

Fl. L

Ob. L

Cl. L

A. Sax. L

Bsn. L

B. Cl. L

Ten. Sax. L

Bari. Sax. L

Fl. R

Ob. R

Cl. R

A. Sax. R

Bsn. R

B. Cl. R

Ten. Sax. R

Tpt. 1

Tpt. 2

Tpt. 3

Tpt. 4

Hn. 1

Hn. 2

Hn. 3

Hn. 4

Tbn. 1

Tbn. 2

B. Tbn.

Euph.

Tba.

Elec.

Timp.

B. D. L

B. D. R

Gong

Dr.

Crof.

Glock.

182 183 184 185 186 187 188 189

B to Ab

Fl. L

Ob. L

Cl. L

A. Sax. L

Bsn. L

B. Cl. L

Ten. Sax. L

Bari. Sax. L

Fl. R

Ob. R

Cl. R

A. Sax. R

Bsn. R

B. Cl. R

Ten. Sax. R

Tpt. 1

Tpt. 2

Tpt. 3

Tpt. 4

Hn. 1

Hn. 2

Hn. 3

Hn. 4

Tbn. 1

Tbn. 2

B. Tbn.

Euph.

Tba.

Elec.

Timp.

B. D. L

B. D. R

Gong

Dr.

Crof.

Glock.

This page contains a musical score for a symphony orchestra and percussion ensemble. The score is organized into systems of staves. The instruments and parts are listed on the left side of each system, including:

- Flutes (Fl. L, Fl. R)
- Oboes (Ob. L, Ob. R)
- Clarinets (Cl. L, Cl. R)
- Alto Saxophones (A. Sax. L, A. Sax. R)
- Bassoons (Bsn. L, Bsn. R)
- Bass Clarinets (B. Cl. L, B. Cl. R)
- Tenors Saxophones (Ten. Sax. L, Ten. Sax. R)
- Bari Saxophones (Bari. Sax. L)
- Trumpets (Tpt. 1, Tpt. 2, Tpt. 3, Tpt. 4)
- Horns (Hn. 1, Hn. 2, Hn. 3, Hn. 4)
- Trombones (Tbn. 1, Tbn. 2, B. Tbn.)
- Euphonium (Euph.)
- Tuba (Tba.)
- Electric Bass (Elec.)
- Timpani (Timp.)
- Bass Drum Left (B. D. L)
- Bass Drum Right (B. D. R)
- Gong
- Drum Set (Dr.)
- Cymbals (Crof.)
- Glockenspiel (Glock.)

The score is divided into four measures, with large time signatures (2/4, 12/8) indicating the meter for each measure. Dynamic markings such as *mf*, *f*, and *mp* are placed throughout the score. Performance instructions like "One player top (no fracking!)" are included for the trumpet parts. The bottom of the page features measure numbers 195, 196, 197, 198, and 199.

20

Fl. L

Ob. L

Cl. L

A. Sax. L

Bsn. L

B. Cl. L

Ten. Sax. L

Bari. Sax. L

Fl. R

Ob. R

Cl. R

A. Sax. R

Bsn. R

B. Cl. R

Ten. Sax. R

Tpt. 1

Tpt. 2

Tpt. 3

Tpt. 4

Hn. 1

Hn. 2

Hn. 3

Hn. 4

Tbn. 1

Tbn. 2

B. Tbn.

Euph.

Tba.

Elec.

Timp.

B. D. L

B. D. R

Gong

Dr.

Crot.

Glock.

ff

f

p

Electric Stutter (Press and hold P on the keyboard. Use T to tap tempo for a few bars to match conductor)

Play on midi keyboard

F to G

208 209 210 211 212 213 214 215 216 217 218

Fl. L
Ob. L
Cl. L
A. Sax. L
Bsn. L
B. Cl. L
Ten. Sax. L
Bari. Sax. L
Fl. R
Ob. R
Cl. R
A. Sax. R
Bsn. R
B. Cl. R
Ten. Sax. R
Tpt. 1
Tpt. 2
Tpt. 3
Tpt. 4
Hn. 1
Hn. 2
Hn. 3
Hn. 4
Tbn. 1
Tbn. 2
B. Tbn.
Euph.
Tba.
Elec.
Timp.
B. D. L
B. D. R
Gong
Dr.
Crof.
Glock.

Fl. L

Ob. L

Cl. L

A. Sax. L

Bsn. L

B. Cl. L

Ten. Sax. L

Bari. Sax. L

Fl. R

Ob. R

Cl. R

A. Sax. R

Bsn. R

B. Cl. R

Ten. Sax. R

Tpt. 1

Tpt. 2

Tpt. 3

Tpt. 4

Hn. 1

Hn. 2

Hn. 3

Hn. 4

Tbn. 1

Tbn. 2

B. Tbn.

Euph.

Tba.

Elec.

Timp.

B. D. L

B. D. R

Gong

Dr.

Crot.

Glock.

fp

ff

M

228 229 230 231 232 233 *ff* 234 235

Fl. L

Ob. L

Cl. L

A. Sax. L

Bsn. L

B. Cl. L

Ten. Sax. L

Bari. Sax. L

Fl. R

Ob. R

Cl. R

A. Sax. R

Bsn. R

B. Cl. R

Ten. Sax. R

Tpt. 1

Tpt. 2

Tpt. 3

Tpt. 4

Hn. 1

Hn. 2

Hn. 3

Hn. 4

Tbn. 1

Tbn. 2

B. Tbn.

Euph.

Tba.

Elec.

Timp.

B. D. L

B. D. R

Gong

Dr.

Crof.

Glock.

♩ = 110

3

4

fff

fp

f

ff