

‘/home/lilydev/vc/gub/target/linux-x86/src/lilypond-localhost--home-lilydev-vc-lilypond-m

MusicXML regression and coverage test

This document presents proofs for the musicxml2ly script provided with LilyPond 2.11.39. The files don't have a description yet, so there is no official indication when the output is wrong. These snippets are provided as unit test files in MusicXML, converted to a .ly file by musicxml2ly and then processed by lilypond as usual.

If something does not seem wright in the output, it might either be that this feature has not been implemented yet, has been wrongly implemented, or a regression has crept in recently... This document is intended for finding bugs and for documenting bugfixes.

In the web version of this document, you can click on the file name or figure for each example to see the corresponding .ly intermediary file.

TODO: Find a way to add a description to the .ly files for texinfo.

The files are categorized by their first two digits with the following meaning:

- 00 ... Basics: Pitches, durations, rests, clefs, keys, time sigs, ties, etc.
- 01 ... Chords
- 02 ... Articulations, Ornaments, Technicals, Texts
- 03 ... Dynamics (single symbols, not spanners like hairpins)
- 04 ... Spanners (hairpins, octave shifts, trills, etc.)
- 05 ... Header information (title, composer, poet, etc.)
- 06 ... Lyrics
- 08 ... Multiple parts (staves)
- 09 ... Measure issues: Repeats, barlines, pickup measures, mid-measure barlines/repeats
- 10 ... Multiple voices per staff
- 12 ... Triplets, Tuplets
- 13 ... Grace notes
- 14 ... Multi-staff parts (one voice on multiple staves, e.g. PianoStaff)
- 15 ... Percussion
- 17 ... Guitar notation: Chord names, Fretboards, Tablature notation
- 19 ... Page layout: font/paper size, margins, spacing
- 20 ...

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`'out-www/00a-Basics-Pitches.ly'`

Pitches and accidentals

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7

12

17

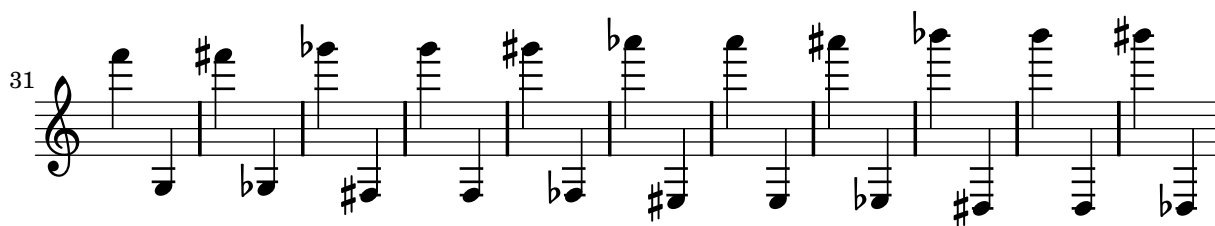
22

'out-www/00b-Basics-Intervals.ly'

Various pitches and interval sizes

11

21



`'out-www/00c-Basics-Durations.ly'`

Note durations

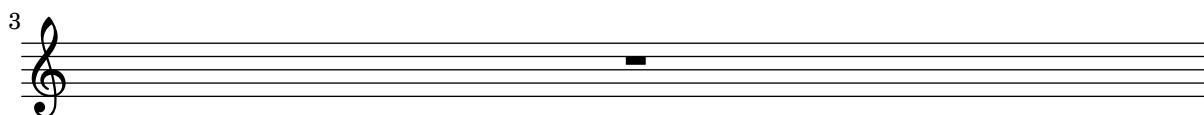
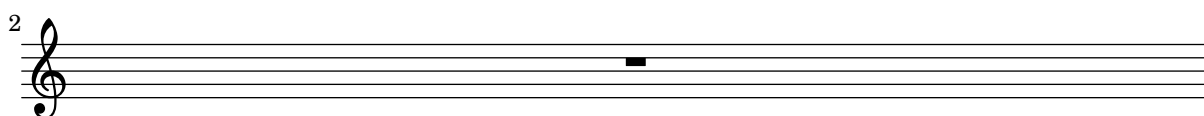
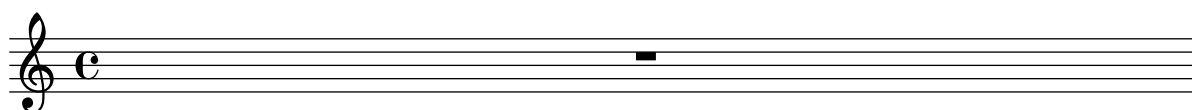
Reinhold Kainhofer



`'out-www/00d-Basics-RestDurations.ly'`

Rest unit test

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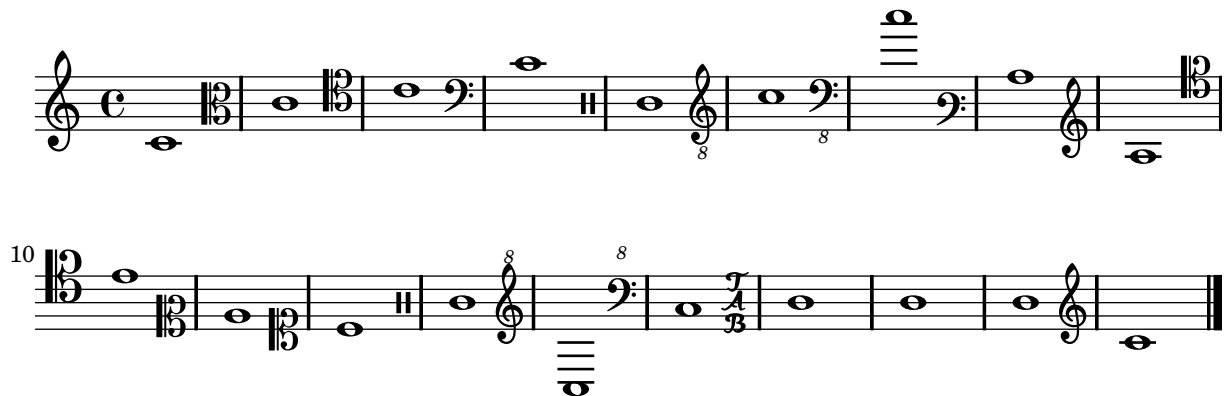
`'out-www/00e-Basics-PitchedRests-PJB.ly'`



'out-www/00f-Basics-Clefs.ly'

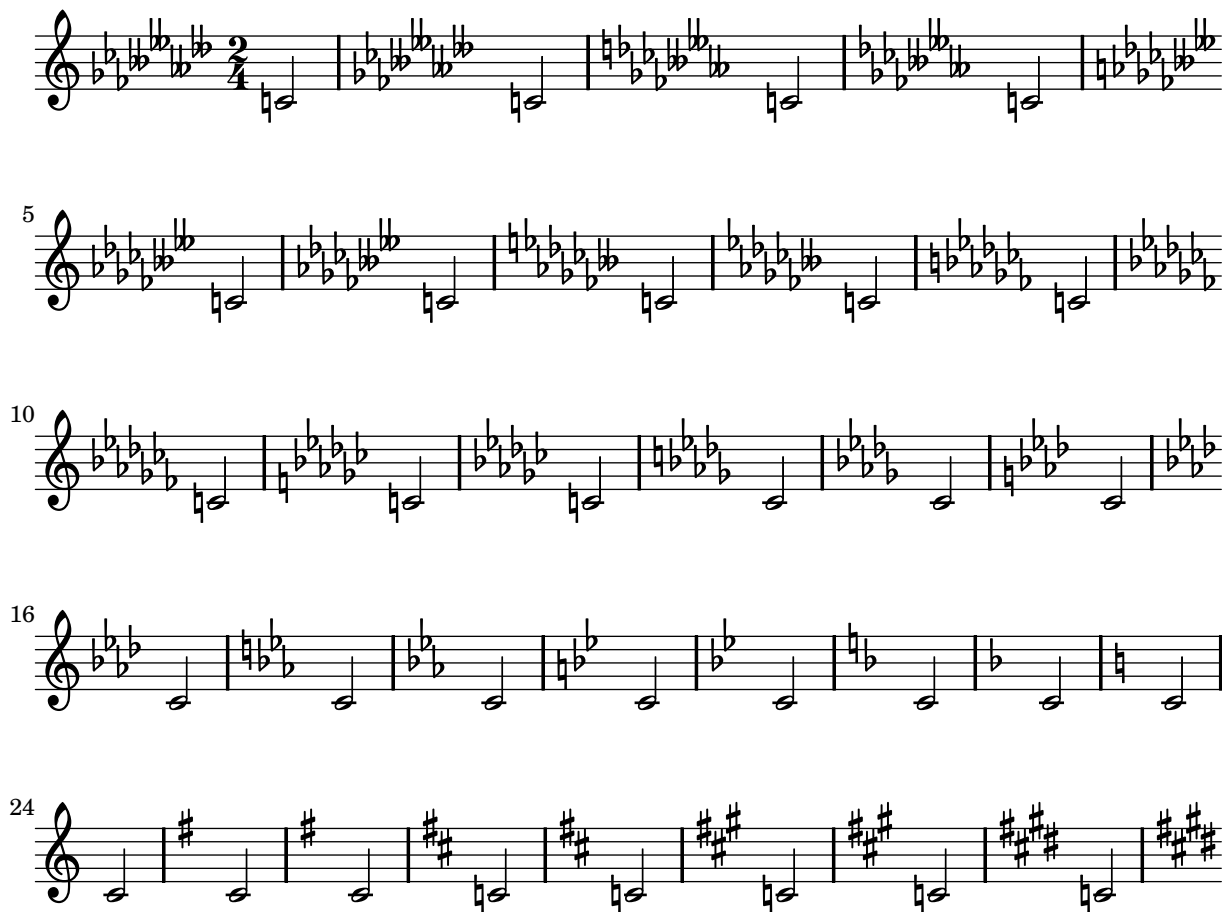
Finale Clef test

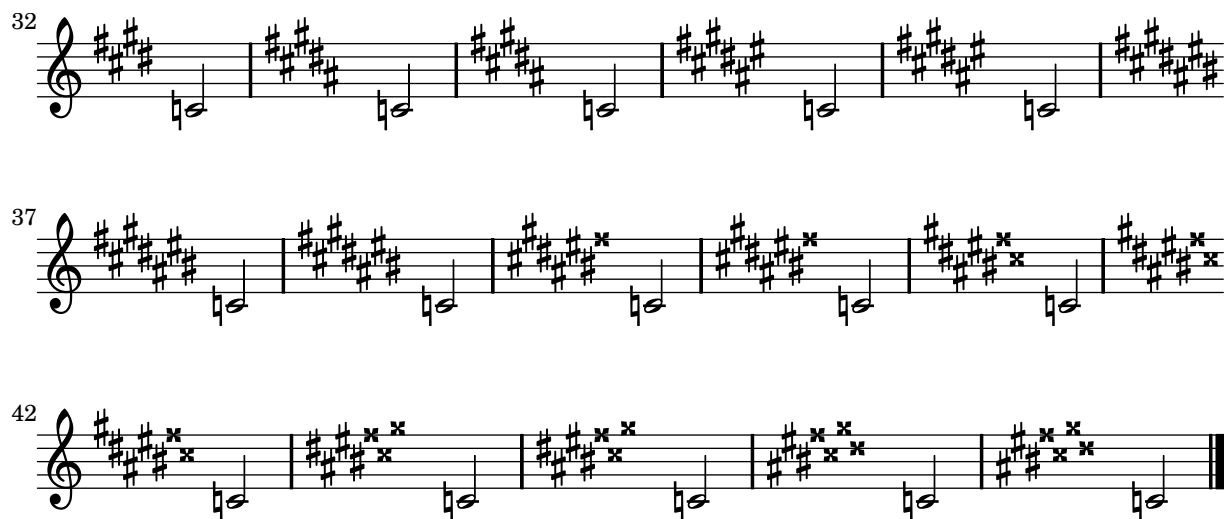
Reinhold Kainhofer



'out-www/00g-Basics-Keys.ly'

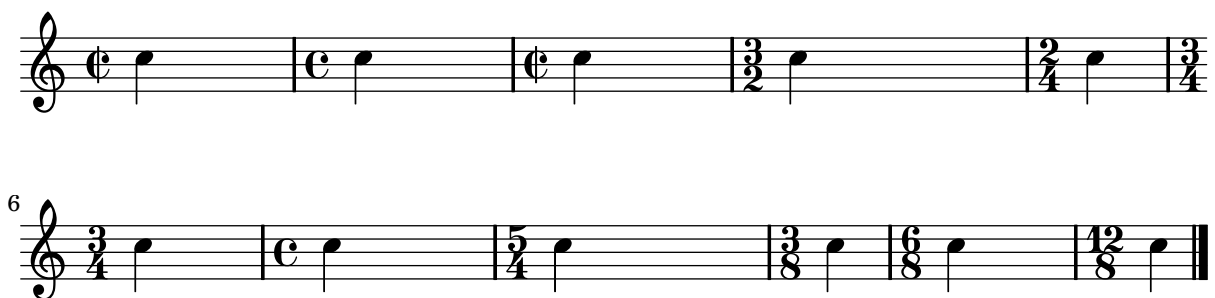
Different Key signatures





'out-www/00h-Basics-TimeSignatures.ly'

Different time signatures



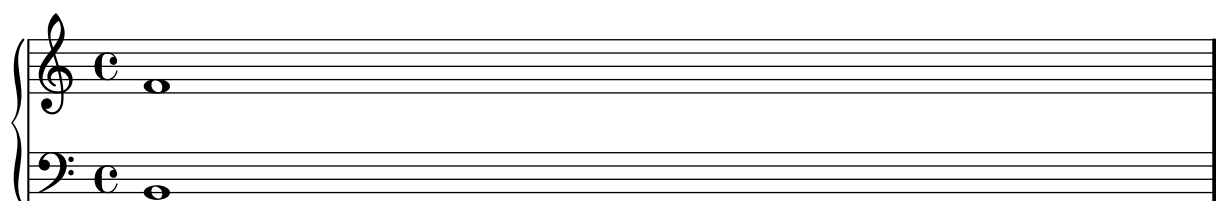
'out-www/00i-Basics-NoKeyOrClef.ly'

No key or clef given



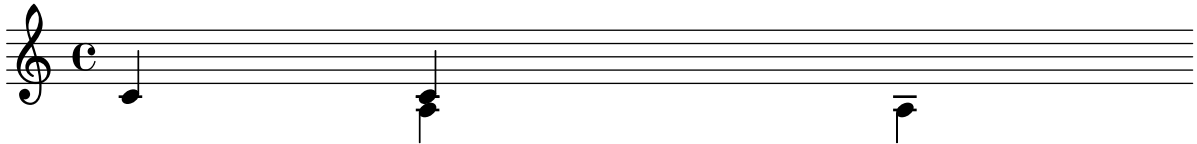
'out-www/00j-Basics-NoTime-PJB.ly'

No time signature given



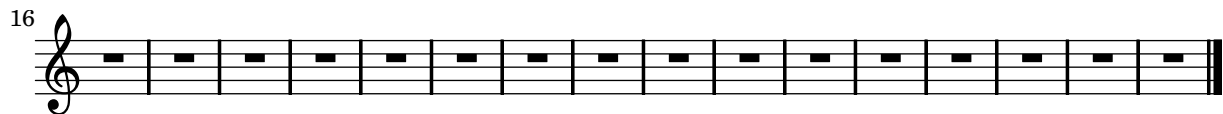
‘out-www/00k-Basics-Backup.ly’

Backup not to 0 in second voice



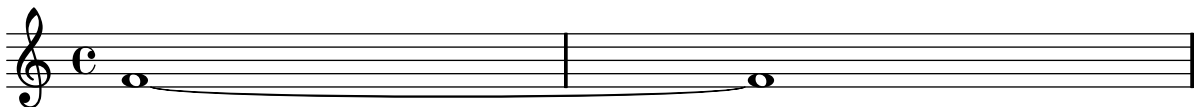
‘out-www/00l-Basics-MultiMeasureRests.ly’

Multi-Measure rests



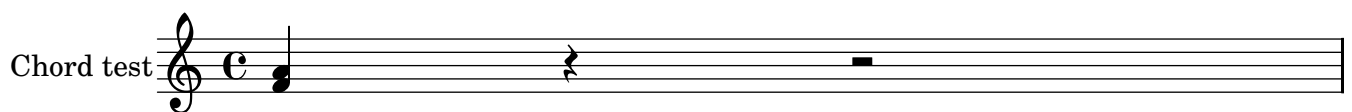
‘out-www/00l-Basics-Tie-PJB.ly’

A tie



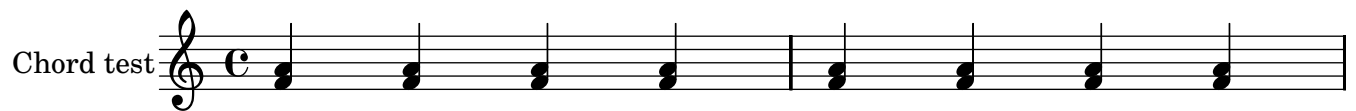
‘out-www/01a-Chord-Rosegarden.ly’

/home/reinhold/lilypond-dev-files/01_chord.xml



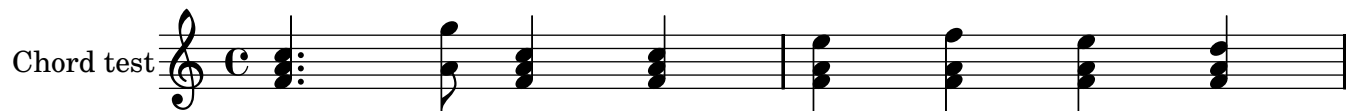
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/home/reinhold/lilypond-dev-files/MusicXML/01b_Ch



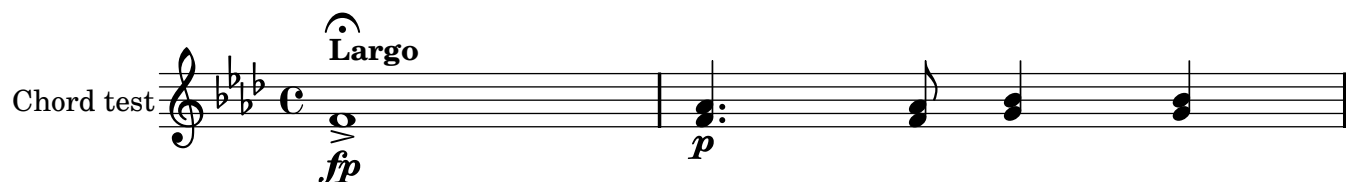
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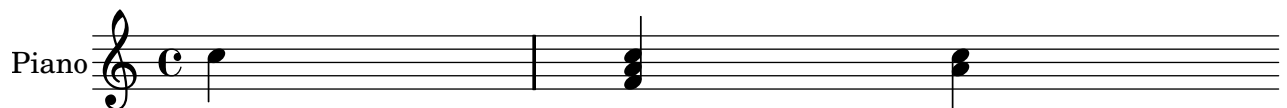
`'out-www/01d-Chords-SchubertStabatMater.ly'`

/home/reinhold/lilypond-dev-files/MusicXML/01c_Ch



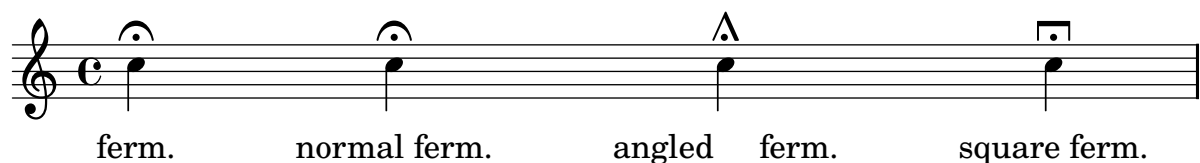
`'out-www/01e-Chords-PickupMeasures.ly'`

Chord detection messed up



`'out-www/02a-Notations-MusicXML.ly'`

MusicXML notations (attached to note)



4

det.-leg. stacc.ss spicc. scoop plop doit falloff breath

6

caes. stress unstr. tr. turn del.turn inv.turn shake wavy-wavy line

9

mord. inv.mord. schl. trem. turn+acc. turn+acc.(ab.+bel./rel to turn)

11

up-b. down-b. harm. nat.harm. art.harm. nat.h./base nat.h./touching nat.h./sounding

13

open-str. thumb-pos. empty fing. fing.1 fing.2 fing.3 fing.4 fing.5

15

something
fing.sth. mult.fing. empty pluck pluck a dbl.tng. trpl.tng. stopped snp.pizz.

17

empty fret fret0 empty str. str. 5 hammer - on pull - off

19

bend bend 3 with-bar pre-bend -(0.)5 bend release (3.)5 tap tap T heel toe

21

f ppp sfz sffz

fingern. f ppp sfz Oth.dyn. both above ab./bel./bel.

'out-www/02b-Articulations-Texts-PJB.ly'

Normal, Medium

Bold, Medium
Normal, Large

Bold, Large
Normal, Small
Bold, Small

Normal, Small, Colored, Below

'out-www/02c-MultipleNotationChildren-RFK.ly'

Multiple notation and articulation children

'out-www/02d-Arpeggio.ly'

Arpeggios in MusicXML

normal up normal down normal non-arp. normal

'out-www/03a-Directions-MusicXML.ly'

MusicXML directions (attached to staff)

A B **Test** **Crc**

reh.A (def=sq.) reh.B (none) reh.Test (sq.) reh.Crc (crc.)

2

words *p pp ppp pppp ppppp pppppp pppppp f ff*
 Segno Coda Words Eyegl. p pp ppp pppp ppppp pppppp f ff

5

fff fffff mp mf sf sfp sfpp fp rf rfz sfz sffz fz abc-ffz
ffff fffffff
 fff ffff fffff fffffff mp mf sf sfp sfpp fp rf rfz sfz sffz fz abc-ffz (oth.)

9

hairpin - cresc dash - es bra - cket oct. - shift *8vb* pedal - change *Red.* **Red.* *** mark

12

p ppp < fff
subito
 Metr. Harp ped. Damp Damp all Scord. Accordion reg. subp ppp crescto fff

'out-www/03b-AccordionRegistrations-MusicXML.ly'

Accordion registrations

0/0/1 0/1/0 0/1/1 0/2/0 0/2/1 0/3/0 0/3/1 1/0/1 1/0/0 1/1/0 1/1/1 1/2/0

4

1/2/1 1/3/0 1/3/1 empty empty M inval.M M=0 M=5

'out-www/04a-Spanners-Finale.ly'

Spanners Test

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A musical score in treble clef, common time (C). The first staff contains a triplet of eighth notes, a slur over a group of eighth notes, a dashed slur over a group of eighth notes, and two tremolos. The second staff starts with a measure rest, followed by a tremolo, a long dashed line, and a 15-measure rest. The third staff starts with a 6-measure rest, followed by a tremolo, a long dashed line, and a 15-measure rest. The fourth staff starts with a 6-measure rest, followed by a tremolo, a long dashed line, and a 15-measure rest. The fifth staff starts with a 6-measure rest, followed by a tremolo, a long dashed line, and a 15-measure rest. The sixth staff starts with a 6-measure rest, followed by a tremolo, a long dashed line, and a 15-measure rest.

'out-www/04b-Glissando.ly'

Glissando and Slide in MusicXML

A musical score in treble clef, common time (C). The first staff shows a normal glissando, a glissando with a solid line, a glissando with a solid line and text, a dashed glissando, and a dotted glissando. The second staff shows a wavy glissando, a normal glissando, a slide, a solid line, a solid line with text, a dashed glissando, a dotted glissando, and a wavy glissando.

'out-www/04c-Spanners-Notedit.ly'

A musical score in Staff 1, treble clef, common time (C). The first staff shows a normal glissando, a glissando with a solid line, a glissando with a solid line and text, a dashed glissando, and a dotted glissando. The second staff shows a wavy glissando, a normal glissando, a slide, a solid line, a solid line with text, a dashed glissando, a dotted glissando, and a wavy glissando.

'out-www/04d-Spanners-JScore.ly'

JScore Spanners Test

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Voice 1

‘out-www/04e-OctaveShifts-Finale.ly’

Octave shift test case

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‘out-www/05a-HeaderQuotes-Finale.ly’

"Quotes" in header fields

Some "Tester" Name

Staff "Test"

‘out-www/06a-Lyrics-Finale.ly’

‘out-www/06b-MultipleLyrics-Finale.ly’

Finale Multiple Lyrics

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‘out-www/06c-Lyrics-Pianostaff-Finale.ly’

Lyrics test with Piano Staff

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Piano

tra - la - li ja! tra - - ra!
TRA - LA - LI JA! TRA - RA!

`'out-www/06d-Lyrics-Melisma-Finale.ly'`

Lyrics and melismata (ignore them)

Me - - - - lis - - - ma.

`'out-www/06e-Lyrics-Chords-Finale.ly'`

Lyrics on Chords

Ly - - rics on chords

`'out-www/06f-Lyrics-GracedNotes-Finale.ly'`

Lyrics on notes with graces

Ly - rics on notes with graces

`'out-www/06g-Lyrics-NameNumber.ly'`

Lyrics attributes: name and number

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Verse1A - Chorus1A - AnotherChorus1A - 1B - Verse1C - Chorus1D
Chorus1A - 2B - Chorus2C - VerseE - NoneF

‘out-www/08a-Partorder-Rosegarden.ly’

Part order test

Part 1

Piccolo

Flute 1

Flute 2

Oboe through Clarinet in Bb

Oboe

English Horn

Clarinet in Bb 1

Clarinet in Bb 2

Bass Clarinet

Bassoon 1

Bassoon 2

Contrabassoon

Horn in F 1

Horn in F 2

Trumpet in C 1

Trumpet in C 2

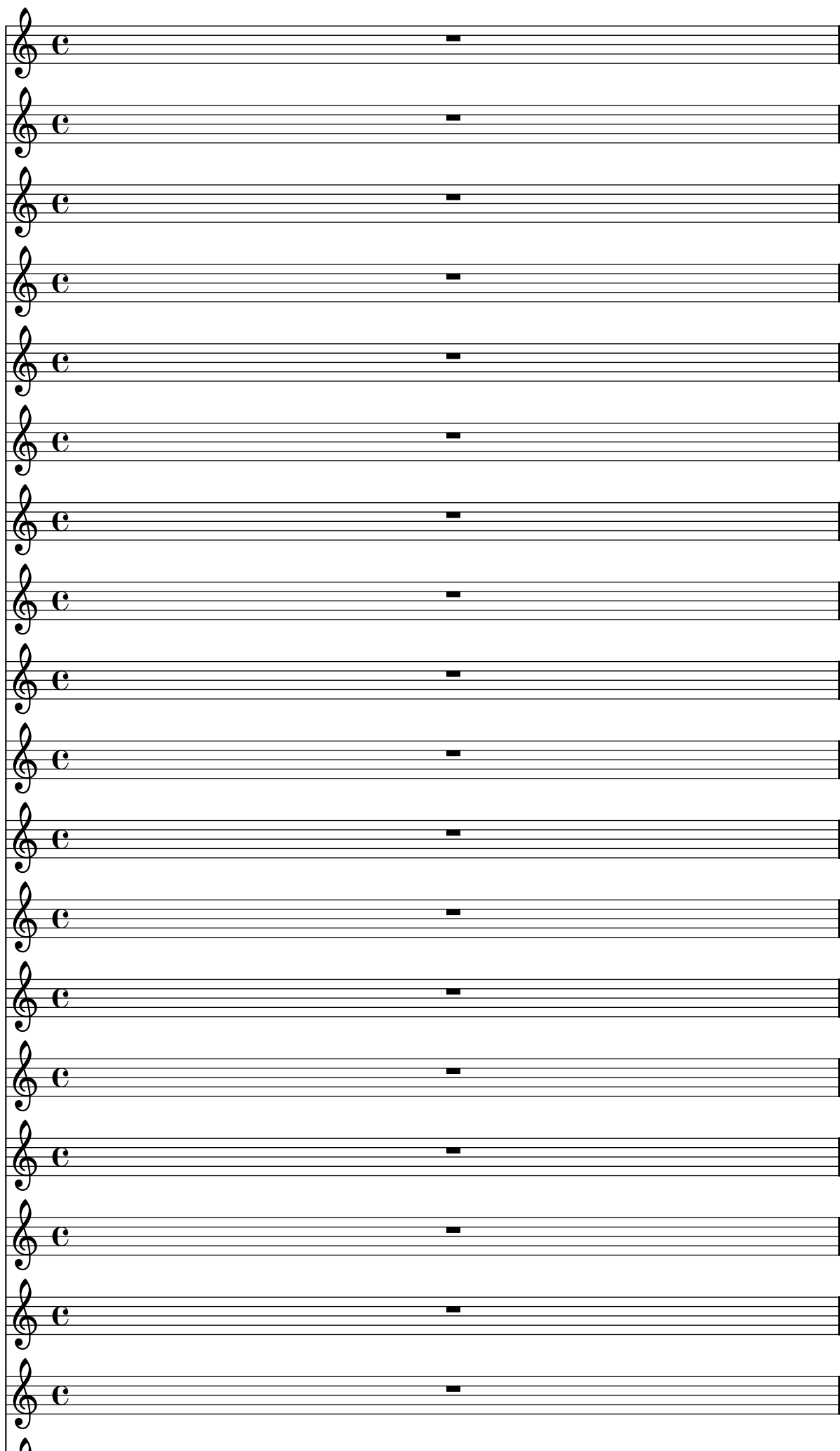
Trombone 1

Trombone 2

This image shows a page from a musical score, specifically for woodwind and brass instruments. The instruments are listed on the left, and their corresponding staves are on the right. The instruments are: Piccolo, Flute 1, Flute 2, Oboe through Clarinet in Bb, Oboe, English Horn, Clarinet in Bb 1, Clarinet in Bb 2, Bass Clarinet, Bassoon 1, Bassoon 2, Contrabassoon, Horn in F 1, Horn in F 2, Trumpet in C 1, Trumpet in C 2, Trombone 1, and Trombone 2. Each instrument has a staff with a treble or bass clef, a key signature of one sharp (F#), and a common time signature (C). The music is written in a single system, with each instrument having a unique melodic line. The Piccolo part starts with a quarter note, followed by a half note, and then a quarter rest. The other instruments follow a similar pattern, with some having a quarter note, a half note, and a quarter rest, and others having a quarter note, a half note, and a quarter rest. The music is written in a single system, with each instrument having a unique melodic line.

‘out-www/08c-More-than-10-parts-Rosegarden.ly’

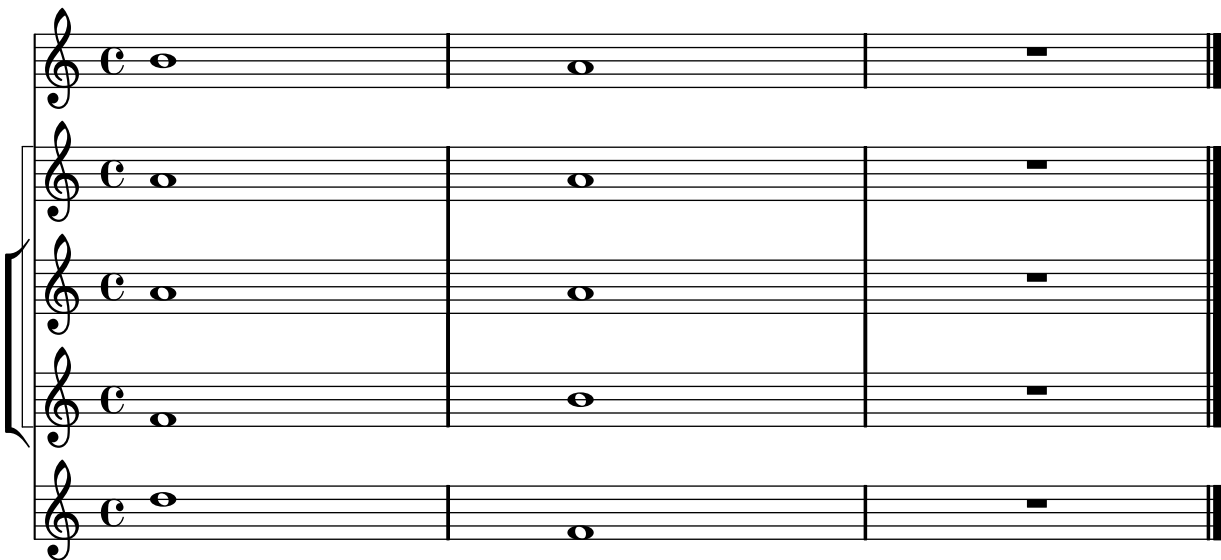
/home/reinhold/lilypond-dev-files/09_more_than_10_parts



'out-www/08d-NestedPartsBrackets-Finale.ly'

Part test

Reinhold Kainhofer

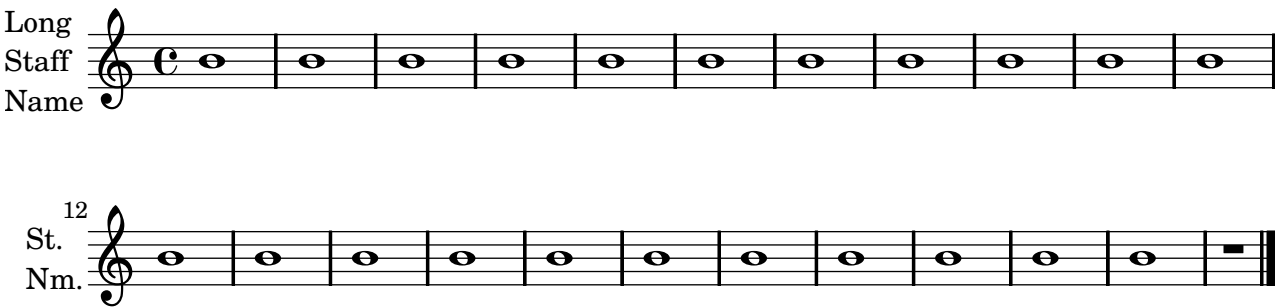


A musical score for five staves, all in treble clef and common time (C). The first staff contains a half note C4, a half note G4, and a whole rest. The second staff contains a half note C4, a half note G4, and a whole rest. The third staff contains a half note C4, a half note G4, and a whole rest. The fourth staff contains a half note C4, a half note G4, and a whole rest. The fifth staff contains a half note C4, a half note G4, and a whole rest. The score is enclosed in a large curly bracket on the left side.

'out-www/08e-LinebrokenInstrumentNames-Finale.ly'

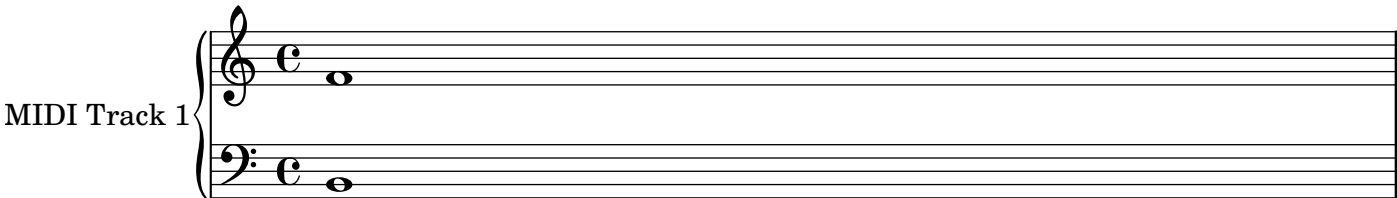
Score with multi-line instrument names

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A musical score for two staves, both in treble clef and common time (C). The first staff is labeled 'Long Staff Name' and contains a half note C4, a half note G4, and a whole rest. The second staff is labeled 'St. Nm.' and contains a half note C4, a half note G4, and a whole rest. The score is enclosed in a large curly bracket on the left side.

'out-www/08f-PianoStaff-PJB.ly'



A musical score for two staves, both in common time (C). The first staff is in treble clef and contains a half note C4, a half note G4, and a whole rest. The second staff is in bass clef and contains a half note C3, a half note G3, and a whole rest. The score is enclosed in a large curly bracket on the left side.

```
'out-www/08g-OverlappingPartGroups-Finale.ly'
```

Overlapping part groups

In MusicXML groups can overlap (Grp1: #1-4, G

In Lilypond, overlaps are not possible: Grp2 ends at #4

```
'out-www/09a-SimpleRepeat-Finale.ly'
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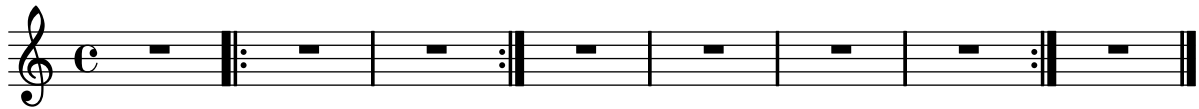
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'out-www/09b-RepeatWithAlternatives-Finale.ly'
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```
'out-www/09c-Barlines-Finale.ly'
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Barline test

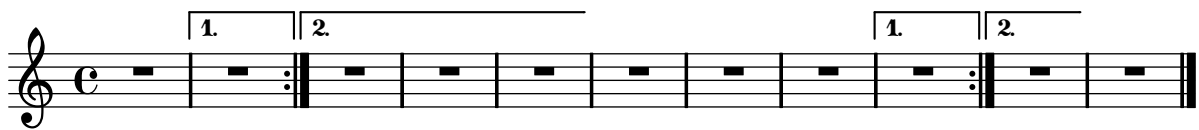
Reinhold Kainhofer

‘out-www/09d-RepeatMultipleTimes-Finale.ly’



‘out-www/09e-Alternatives-Finale.ly’

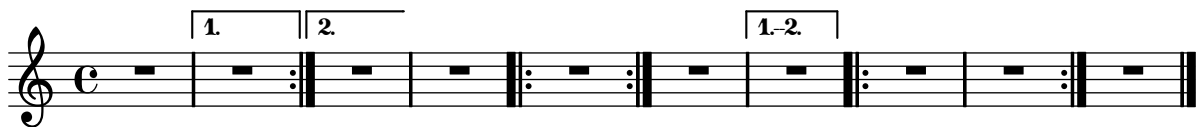
Alternatives Test



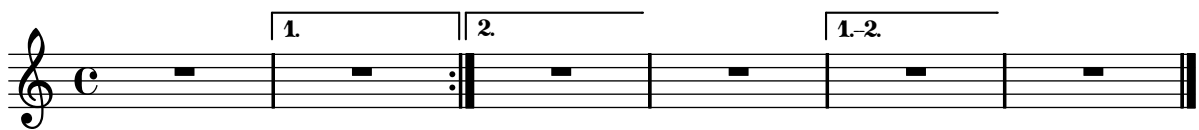
‘out-www/09f-Repeats-Finale.ly’

Finale Repeat test

Reinhold Kainhofer

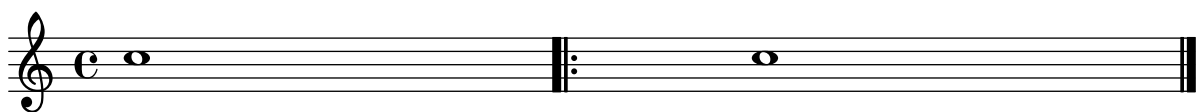


‘out-www/09g-Endings-Finale.ly’



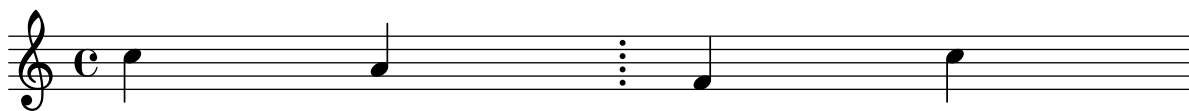
‘out-www/09h-RepeatsNoEndBar-Finale.ly’

Repeat without ending repeat bar



‘out-www/09i-MidmeasureBarline.ly’

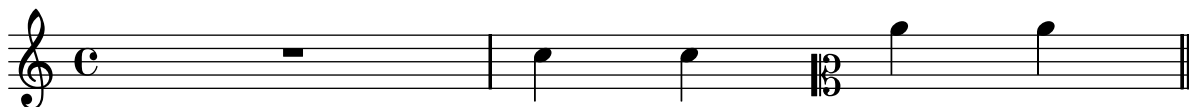
Barlines can appear in mid-measure positions



'out-www/09j-Midmeasure-Clef-Finale.ly'

Mid-measure clef-change

Reinhold Kainhofer



'out-www/09k-Upbeats-ImplicitMeasures-Finale.ly'

Upbeats, implicit measure, incomplete final measure



'out-www/09l-PickupMeasure-SecondVoiceMessup.ly'

Begin of second voice messed up with pickup measure

Voice 2 should start at 2nd beat of first full measure



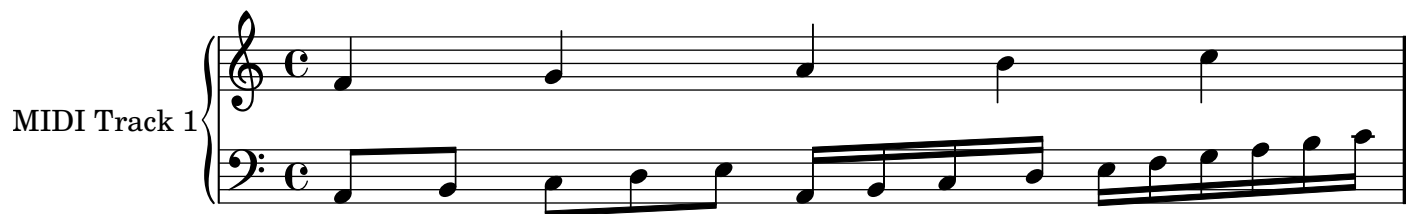
'out-www/10a-TwoVoicesOnStaff-Finale.ly'

Two Voices share one Staff

Reinhold Kainhofer

mf This is the lyrics of
This is the lyrics of

‘out-www/12a-TripletsDuration-NoBracket-PJB.ly’



‘out-www/12b-Tuplets-Finale.ly’

Finale tuplet test

Reinhold Kainhofer



‘out-www/13a-GraceNotes-Finale.ly’

Grace note test

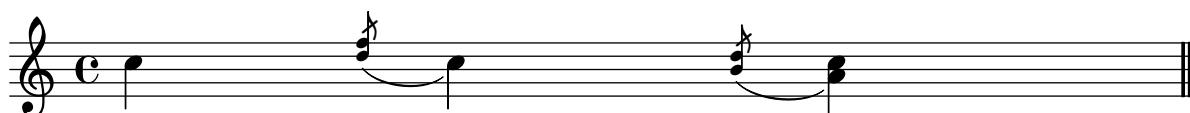
Reinhold Kainhofer



‘out-www/13b-ChordAsGraceNote-Finale.ly’

Chord as a grace note

Reinhold Kainhofer



‘out-www/14a-MultistaffClefDynamics-Finale.ly’

Piano staff with dynamics and one-staff clef changes

Reinhold Kainhofer

Piano

‘out-www/14b-DifferentKeys-PJB.ly’

MIDI Track 1

‘out-www/14b-DifferentKeysAfterBackup-PJB.ly’

MIDI Track 1

‘out-www/14c-StaffChange-Finale.ly’

Staff change in piano staff

The voice from the second staff has some notes/chor

The final two chords have some notes on the first, some on the second staff

Piano

‘out-www/15a-Percussion-Finale.ly’

Percussion Test

Reinhold Kainhofer

Timpani

Cymbals

Bass Drums

The image displays a musical score for three percussion instruments: Timpani, Cymbals, and Bass Drums. The Timpani part is written on a single staff with a bass clef and a common time signature (C). It features a half note on the second line of the staff, which is tied across a bar line. The Cymbals and Bass Drums parts are grouped together with a brace on the left. Both are written on a single staff with a common time signature (C). The Cymbals part begins with a half note on the first line, followed by a series of eighth notes on the second line. The Bass Drums part begins with a half note on the first line, followed by a series of eighth notes on the second line. The score is divided into two measures by a bar line.

‘out-www/15b-PercussionStaves-Finale.ly’

Percussion staves

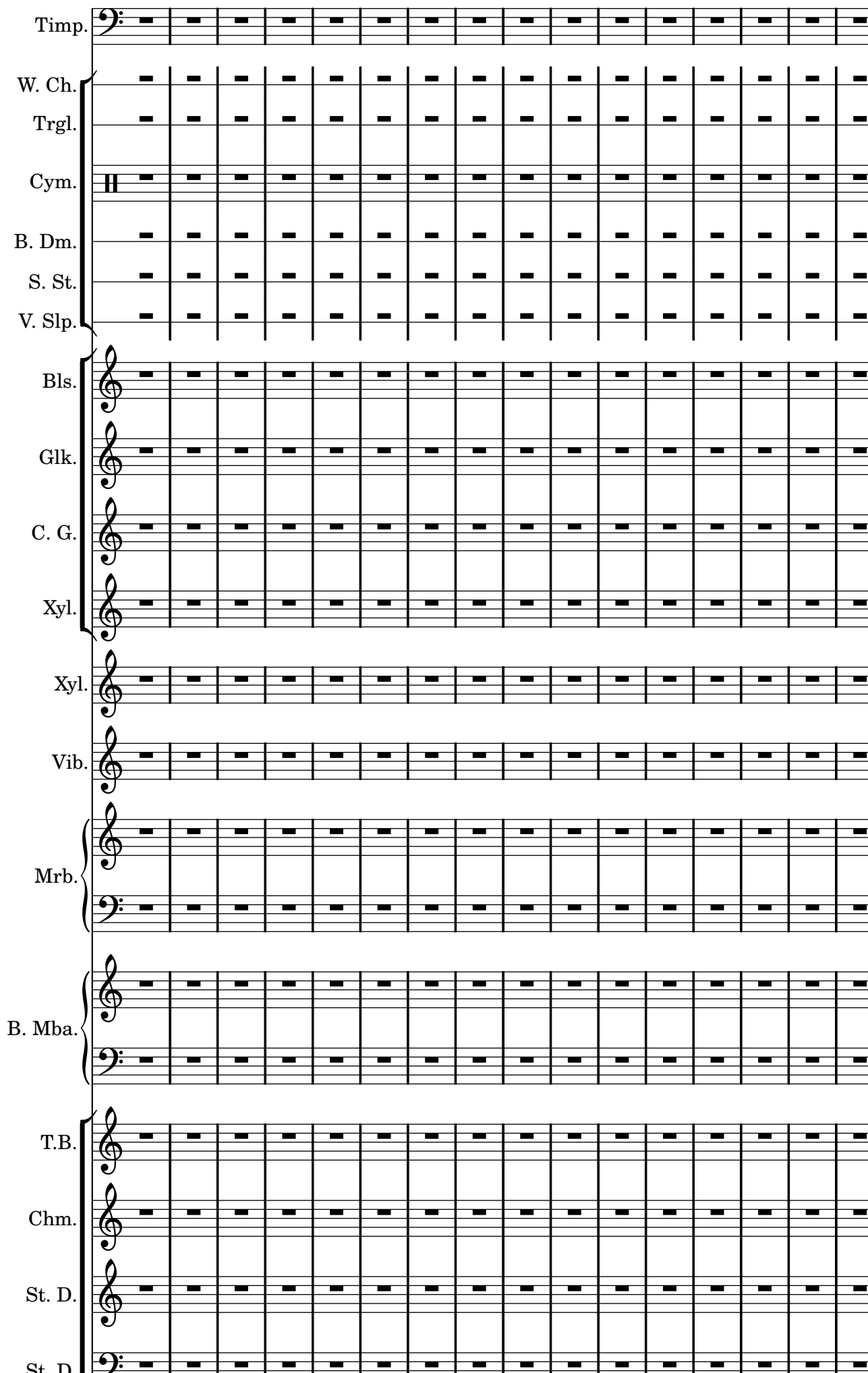
Timpani	
Wind Chimes	
Triangle	
Cymbals	
Brake Drum	
Slapstick	
VibraSlap	
Bells	
Glockenspiel	
Crystal Glasses	
Xylophone	
Xylophone	
Vibraphone	
Marimba	
Marimba	
Bass Marimba	
Bass Marimba	
Tubular Bells	
Chimes	
Steel Drums	
Steel Drums	

Score for Percussion and Mallet Instruments, measures 16 through 31.

Measures 16-31: The score consists of 16 measures, each containing a single eighth note on the middle line of the staff.

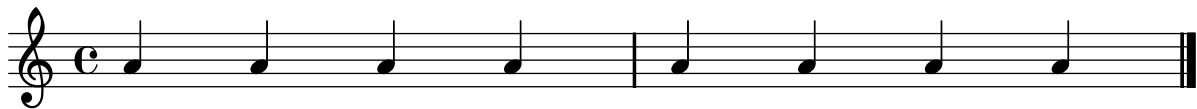
Instrumentation:

- Timp.** (Timpani): Bass clef, middle line.
- W. Ch.** (Wood Chime): Treble clef, middle line.
- Trgl.** (Triangle): Treble clef, middle line.
- Cym.** (Cymbal): Treble clef, middle line.
- B. Dm.** (Bass Drum): Bass clef, middle line.
- S. St.** (Snare Drum): Treble clef, middle line.
- V. Slp.** (Vibraphone): Treble clef, middle line.
- Bls.** (Bells): Treble clef, middle line.
- Glk.** (Glockenspiel): Treble clef, middle line.
- C. G.** (Cymbal): Treble clef, middle line.
- Xyl.** (Xylophone): Treble clef, middle line.
- Xyl.** (Xylophone): Treble clef, middle line.
- Vib.** (Vibraphone): Treble clef, middle line.
- Mrb.** (Maracas): Treble and Bass clefs, middle line.
- B. Mba.** (Bass Maracas): Treble and Bass clefs, middle line.
- T.B.** (Tubular Bell): Treble clef, middle line.
- Chm.** (Chime): Treble clef, middle line.
- St. D.** (Steel Drum): Treble clef, middle line.
- St. D.** (Steel Drum): Bass clef, middle line.



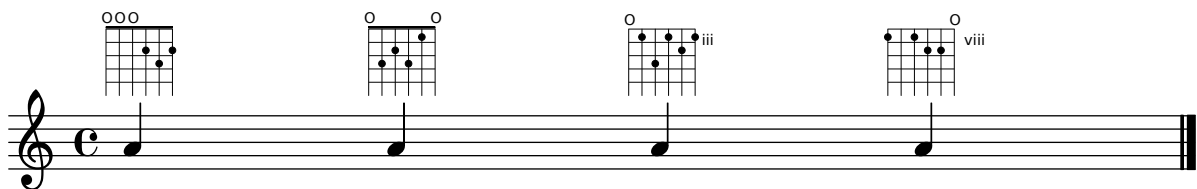
'out-www/17a-Chords-Finale.ly'

Chords example



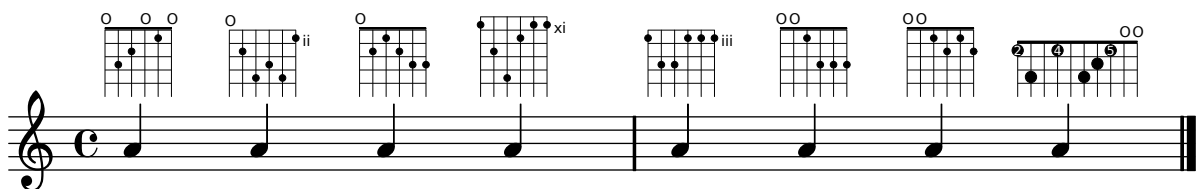
'out-www/17b-Fretboards-Finale.ly'

Fretboards



'out-www/17c-ChordsFrets-Finale.ly'

Chords and fretboards example



'out-www/17d-ChordsFretsOnMultistaff-Finale.ly'

Chords and fretboards on multi-staff, multi-voice piece

Piano

A musical score for a multi-staff, multi-voice piece. The score is written for Piano and features a multi-staff layout. The top staff is in treble clef, and the bottom staff is in bass clef. The score includes a sequence of notes and chords, with fretboard diagrams for C major chords (I, II, III, IV, V, VI, VII, VIII) shown above the notes. The score is in C major and common time (C).

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'out-www/17e-TabStaves-Finale.ly'
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Tablatures

The image displays a musical score for a guitar ensemble, featuring parts for Guitar, Bass Guitar, Banjo, Lute, and Ukulele. The score is written in treble and bass clefs, with various musical notations including notes, rests, and fingerings. The instruments are arranged in a vertical stack, with the Guitar at the top and the Ukulele at the bottom. The score is divided into measures by vertical bar lines, and the instruments play in a coordinated fashion throughout the piece.

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Layout options