

'AAA-intro-regression.ly'

MusicXML regression and coverage test

This document presents proofs for the musicxml2ly script provided with LilyPond 2.11.57. 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 right 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 ... MusicXML notations and articulations (articulations, ornaments, technicals, text markup)
- 03 ... MusicXML directions (dynamics; single symbols, not spanners like hairpins)
- 04 ... Spanners (hairpin, octave shift, trill, glissando, 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
- 18 ... Figured bass
- 19 ... Page layout: font/paper size, margins, spacing
- 20 ... Compressed MusicXML files
- 99 ... Compatibility modes with broken MusicXML exporters (i.e. ignore beams for Sibelius 5)

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'00a-Basics-Pitches.ly'

Pitches and accidentals

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7

12

17

22

'00b-Basics-Intervals.ly'

Various pitches and interval sizes

11

21

31

'00c-Basics-Durations.ly'

Note durations

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Three staves of musical notation in 4/4 time, showing note durations. The first staff starts at measure 16 and ends at measure 24. The second staff starts at measure 24 and ends at measure 28. The third staff starts at measure 28 and ends at measure 32. The notation includes various note values (quarter, eighth, sixteenth, and thirty-second notes) and rests, demonstrating different durations.

'00d-Basics-RestDurations.ly'

Rest unit test

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Four staves of musical notation in 4/4 time, showing rest durations. The first three staves (1, 2, and 3) each contain a single whole rest. The fourth staff (4) contains a sequence of eighth, quarter, and half rests, demonstrating different rest durations.

'00e-Basics-PitchedRests-PJB.ly'

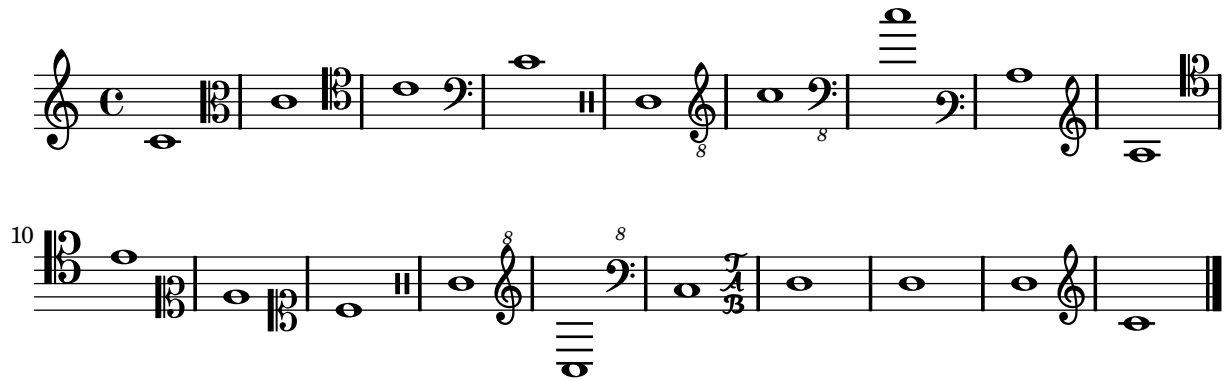
MIDI Track 1

A single staff of musical notation in 5/4 time, showing pitched rests. The notation includes various note values (quarter, eighth, and sixteenth notes) and rests, demonstrating different durations.

'00f-Basics-Clefs.ly'

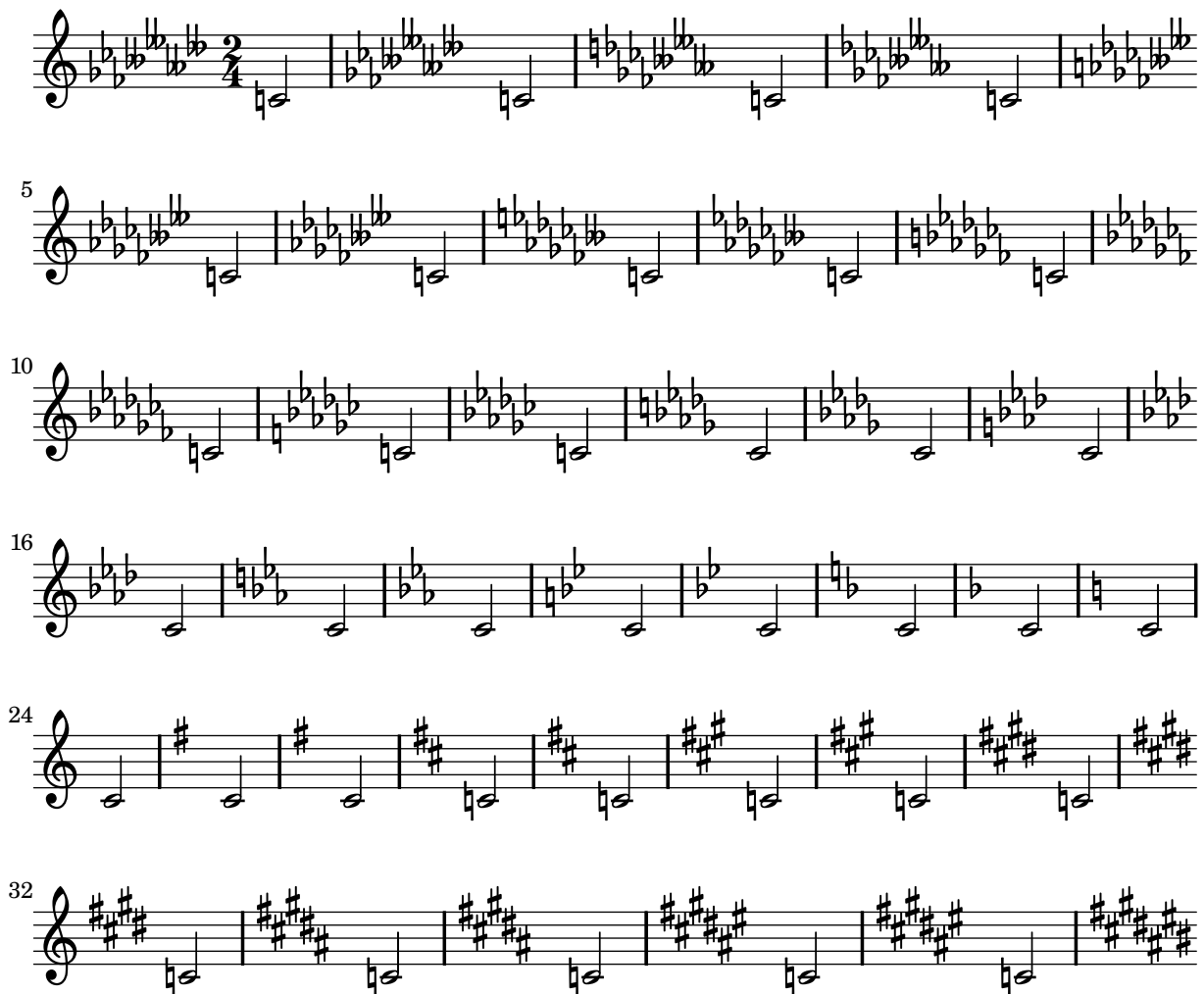
Finale Clef test

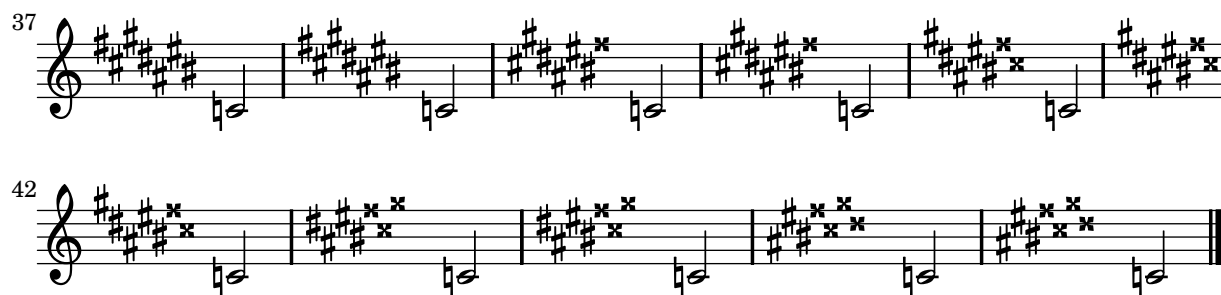
Reinhold Kainhofer



'00g-Basics-Keys.ly'

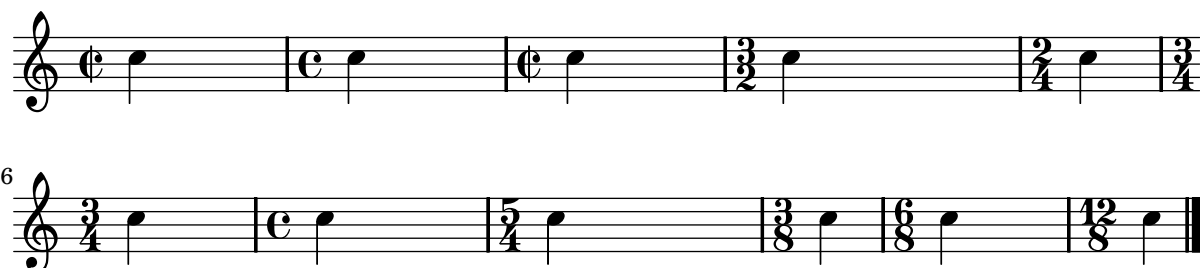
Different Key signatures





'00h-Basics-TimeSignatures.ly'

Different time signatures



'00i-Basics-NoKeyOrClef.ly'

No key or clef given



'00j-Basics-NoTime-PJB.ly'

No time signature given



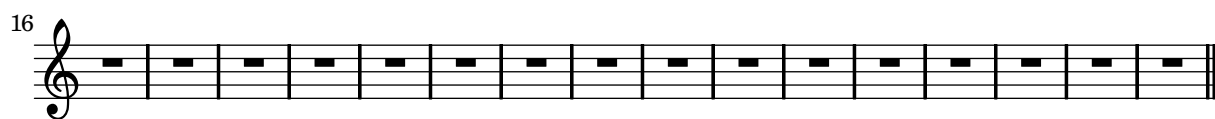
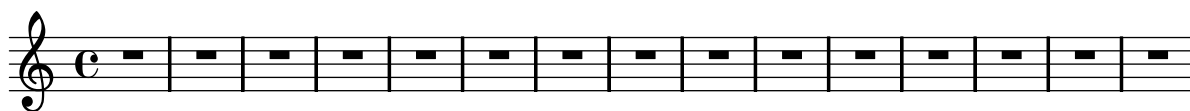
'00k-Basics-Backup.ly'

Backup not to 0 in second voice



'00l-Basics-MultiMeasureRests.ly'

Multi-Measure rests



‘001-Basics-Tie-PJB.ly’

A tie



‘01a-Chord-Rosegarden.ly’

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



‘01b-Chords-Rosegarden.ly’

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



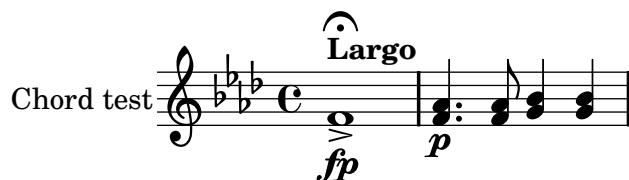
‘01c-Chords-Rosegarden.ly’

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



‘01d-Chords-SchubertStabatMater.ly’

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



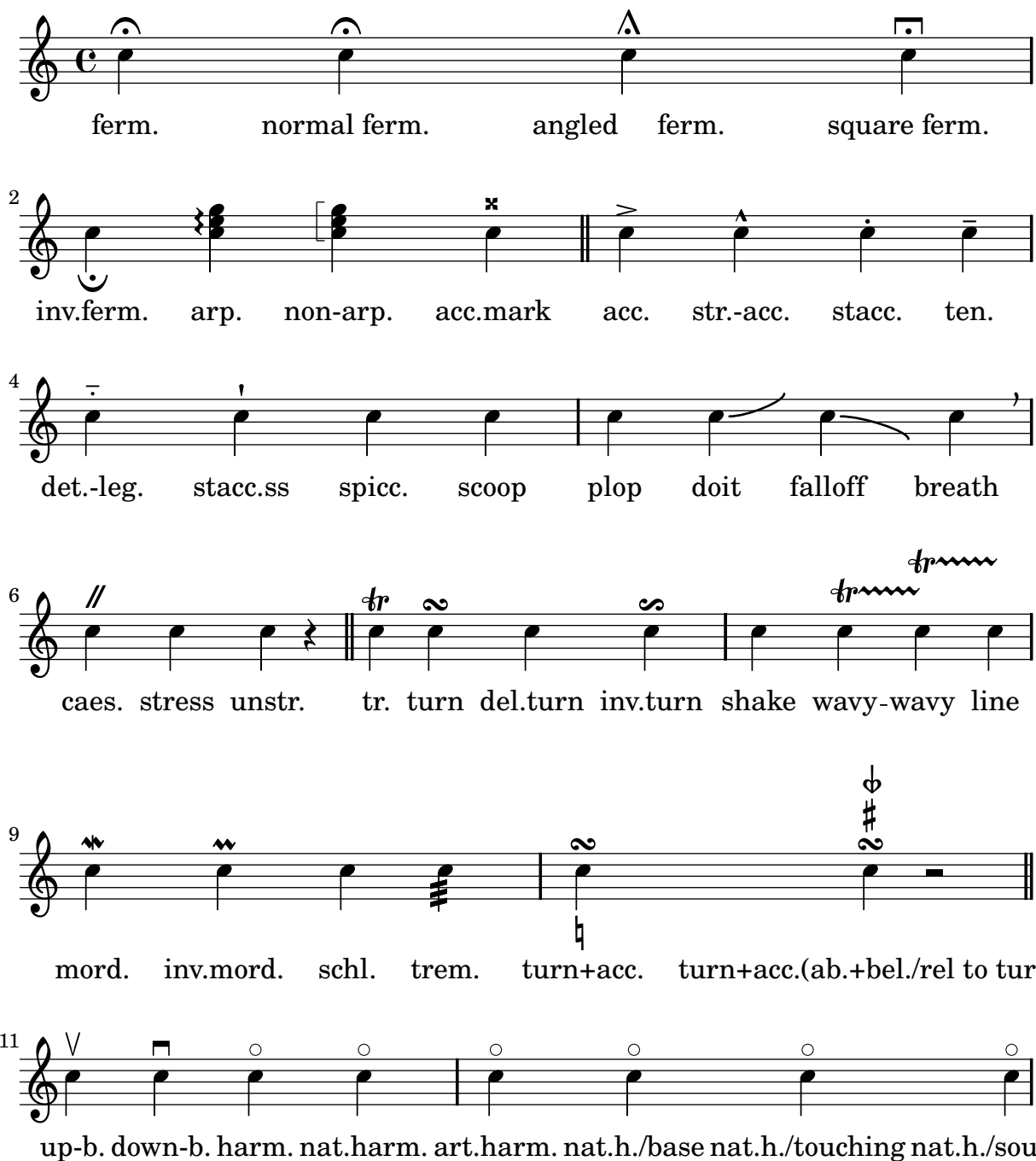
'01e-Chords-PickupMeasures.ly'

Chord detection messed up



'02a-Notations-MusicXML.ly'

MusicXML notations (attached to note)



1
ferm. normal ferm. angled ferm. square ferm.

2
inv.ferm. arp. non-arp. acc.mark acc. str.-acc. stacc. ten.

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 b.3 with-bar pre-b. -0.5 b. release 3.5 tap tap T heel toe

21

fingern. *f ppp sfp sffz*
f ppp sfp Oth.dyn. both above ab./bel./bel.

'02b-Articulations-Texts-PJB.ly'

Bold, Large

Normal, Small

Bold, Small

Normal, Large

Bold, Medium

Normal, Medium

Normal, Small, Colored, Below

'02c-MultipleNotationChildren-RFK.ly'

Multiple notation and articulation children

'02d-Arpeggio.ly'

Arpeggios in MusicXML

normal up normal down normal non-arp. normal

'03a-Directions-MusicXML.ly'

MusicXML directions (attached to staff)

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

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

fff fffff mp mf sf sfp sfpp fp rf rfz sfz sffz fz abc-ffz

hairpin - cresc dash - es bra - cket oct. - shift pedal - change mark

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

'03b-AccordionRegistrations-MusicXML.ly'

Accordion registrations

Figure 1 shows two musical staves. The top staff is a treble clef with a common time signature 'C'. It contains 12 notes, each with a circular icon above it. The icons represent different states of a 4-bit register. Below the staff are 12 labels: 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. The bottom staff is a treble clef with a 4-measure rest at the beginning. It contains 8 notes, each with a circular icon above it. Below the staff are 8 labels: 1/2/1, 1/3/0, 1/3/1, empty, empty M, inval.M, M=0, M=5.

'03c-MetronomeMarks.ly'

Tempo markings

'04a-Spanners-Finale.ly'

Spanners Test

Reinhold Kainhofer

The image shows a musical score for the song "The Rose Tree". It consists of two staves of music in G major, 4/4 time. The first staff contains the first four measures of the melody, which end with a double bar line. The second staff begins with a measure rest for six measures, indicated by a "6" and a horizontal line. The melody resumes in the fifth measure of the second staff. The score includes various musical notations such as eighth notes, quarter notes, and rests, as well as performance instructions like "tr" (trill) and "8va" (octave up) with wavy lines. The title "The Rose Tree" is written in a decorative font at the top right.

'04b-Glissando.ly'

Glissando and Slide in MusicXML

The image shows a musical staff with a treble clef and a common time signature 'C'. It contains four pairs of notes, each connected by a different style of glissando line. Below each pair is a label: 'normal' (a thin solid line), 'solid' (a thick solid line), 'dashed' (a dashed line), and 'dotted' (a dotted line). The label '(+text)' is placed between 'solid' and 'dashed'.

3

wavy normal slide solid (+text) dashed dotted wavy

‘04c-Spanners-Notedit.ly’

Staff 1

‘04d-Spanners-JScore.ly’

JScore Spanners Test

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Voice 1

‘04e-OctaveShifts-Finale.ly’

Octave shift test case

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‘05a-HeaderQuotes-Finale.ly’

"Quotes" in header fields

Some "Tester" Name

Staff "Test"

‘06a-Lyrics-Finale.ly’

Trala-li Ja! Tra - ra!

‘06b-MultipleLyrics-Finale.ly’

Finale Multiple Lyrics

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1.Tra-la-la, ja! Tra-ra...
2.tra-la-la, ja! Tra-ra.
3.TRALALA, JA! TRA-RA...

‘06c-Lyrics-Pianostaff-Finale.ly’

Lyrics test with Piano Staff

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tra-la-li ja! tra-ra!
TRALALI JA! TRA-RA!

‘06d-Lyrics-Melisma-Finale.ly’

Lyrics and melismata (ignore them)



Me - lis - ma.

‘06e-Lyrics-Chords-Finale.ly’

Lyrics on Chords



Lyrics on chords

‘06f-Lyrics-GracedNotes-Finale.ly’

Lyrics on notes with graces

Lyrics on notes with graces

This musical example shows a single staff in common time (C). It contains four measures. The first measure has a quarter note on G4 with a grace note on A4. The second measure has a quarter note on A4 with a grace note on B4. The third measure has a quarter note on B4 with a grace note on C5. The fourth measure has a quarter note on C5. The piece ends with a double bar line.

'06g-Lyrics-NameNumber.ly'

Lyrics attributes: name and number

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Verse1AChorus1AAnotherChorus1A1BVerse1CChorus1D
Chorus1A - 2B - Chorus2C - VerseE - NoneF

This musical example shows a single staff in 6/4 time. It contains six measures, each with a half note on G4, A4, B4, C5, B4, and A4 respectively. The piece ends with a double bar line.

'06h-Lyrics-BeamsMelismata.ly'

Lyrics and melismata

Me - lis-ma Me - lisma Me - lis-ma Me

This musical example shows a single staff in common time (C). It contains four measures. The first measure has a quarter note on G4, an eighth note on A4, and a quarter note on B4, followed by a quarter rest. The second measure has a quarter note on A4, an eighth note on B4, and a quarter note on C5, followed by a quarter rest. The third measure has a quarter note on B4, an eighth note on C5, and a quarter note on B4, followed by a quarter rest. The fourth measure has a quarter note on C5, an eighth note on B4, and a quarter note on A4, followed by a quarter rest. The piece ends with a double bar line.

'08a-Partorder-Rosegarden.ly'

Part order test

Part 1
Part 2
Part 3
Part 4

This musical example shows four staves, each labeled 'Part 1' through 'Part 4'. All staves are in treble clef and key of D major (one sharp). The first three staves (Part 1, 2, 3) are in common time (C) and each contains a quarter note on G4 followed by a quarter rest. The fourth staff (Part 4) is in common time (C) and contains a quarter note on G4 followed by a quarter rest. The piece ends with a double bar line.

'08b-StaffGroups-Finale.ly'

Bar/Staff test

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

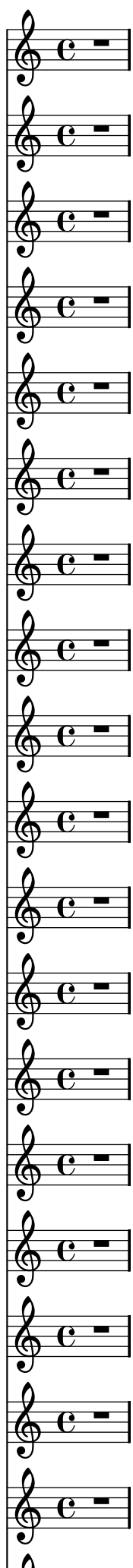
Trombone 1

Trombone 2

This image shows a page from a musical score, specifically the woodwind and brass sections. The instruments are listed on the left, and their corresponding staves are on the right. The staves are grouped by brackets. The woodwind section includes 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, and Contrabassoon. The brass section includes Horn in F 1, Horn in F 2, Trumpet in C 1, Trumpet in C 2, Trombone 1, and Trombone 2. The notation is in common time (C) and the key signature has one sharp (F#). The first measure of each staff shows a half note followed by a quarter rest.

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

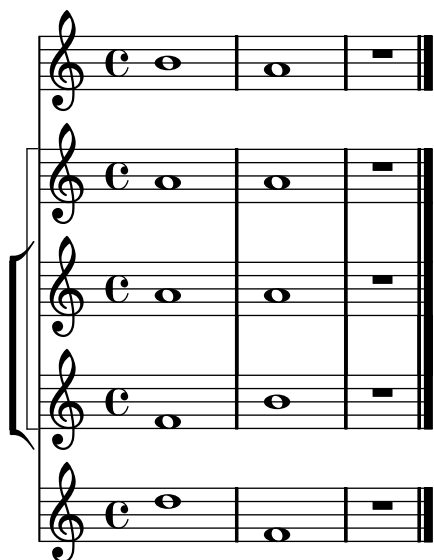
/home/reinhold/lilypond-dev-files/09_more_than_10_parts



‘08d-NestedPartsBrackets-Finale.ly’

Part test

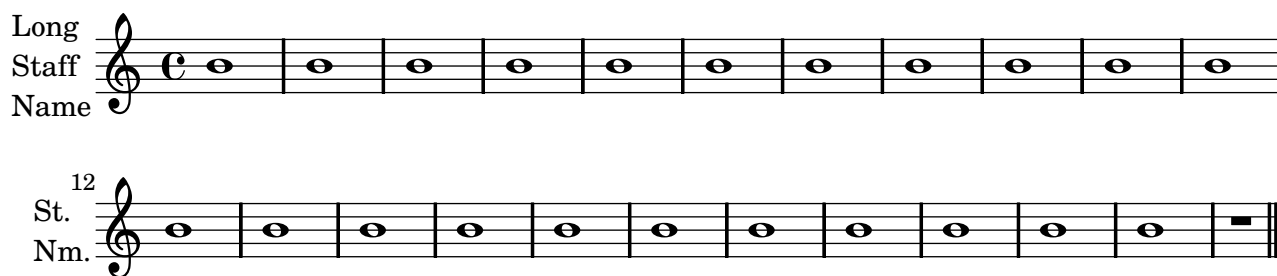
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‘08e-LinebrokenInstrumentNames-Finale.ly’

Score with multi-line instrument names

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‘08f-PianoStaff-PJB.ly’



‘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

Group 1

Group 2

‘09a-SimpleRepeat-Finale.ly’

‘09b-RepeatWithAlternatives-Finale.ly’

‘09c-Barlines-Finale.ly’

Barline test

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‘09d-RepeatMultipleTimes-Finale.ly’

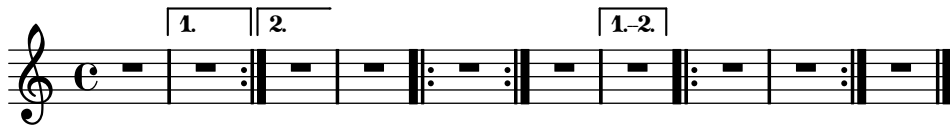
‘09e-Alternatives-Finale.ly’

Alternatives Test

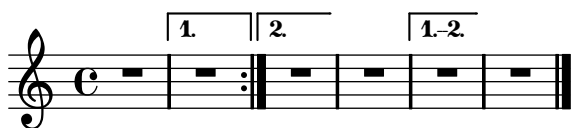
‘09f-Repeats-Finale.ly’

Finale Repeat test

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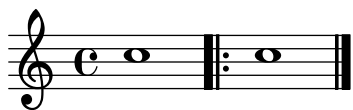


‘09g-Endings-Finale.ly’



‘09h-RepeatsNoEndBar-Finale.ly’

Repeat without ending repeat bar



‘09i-MidmeasureBarline.ly’

Barlines can appear in mid-measure positions



‘09j-Midmeasure-Clef-Finale.ly’

Mid-measure clef-change

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‘09k-Upbeats-ImplicitMeasures-Finale.ly’

Upbeats, implicit measure, incomplete final measure



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'09l-PickupMeasure-SecondVoiceMessup.ly'
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Begin of second voice messed up with pickup measure

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



'10a-TwoVoicesOnStaff-Finale.ly'

Two Voices share one Staff

Reinhold Kainhofer



This is the lyrics of
This is the lyrics of

'12a-TripletsDuration-NoBracket-PJB.ly'



'12b-Tuplets-Finale.ly'

Finale tuplet test

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'13a-GraceNotes-Finale.ly'

Grace note test

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‘13b-ChordAsGraceNote-Finale.ly’

Chord as a grace note

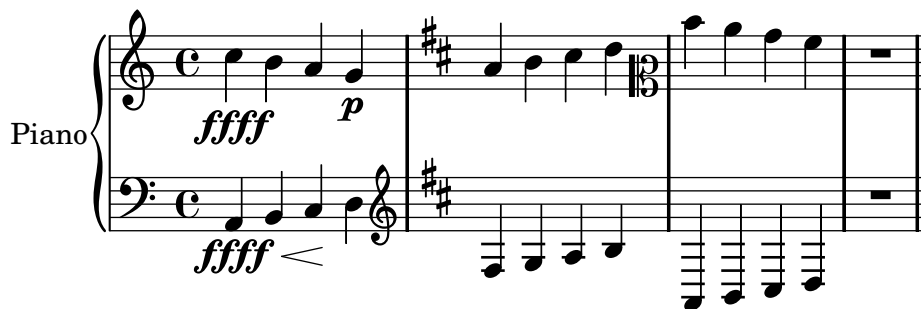
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‘14a-MultistaffClefDynamics-Finale.ly’

Piano staff with dynamics and one-staff clef changes

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‘14b-DifferentKeys-PJB.ly’



‘14b-DifferentKeysAfterBackup-PJB.ly’

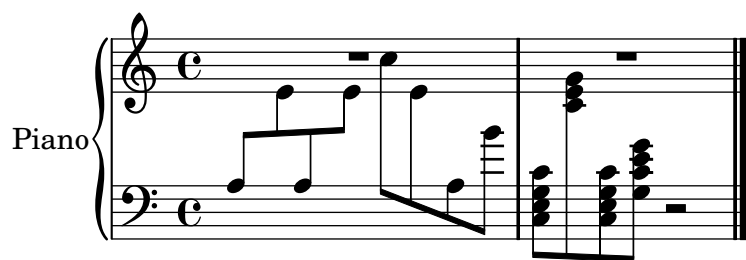


‘14c-StaffChange-Finale.ly’

Staff change in piano staff

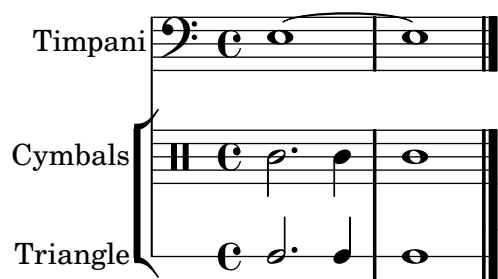
The voice from the second staff has some notes/chor

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



‘15a-Percussion-Finale.ly’

Percussion Staves



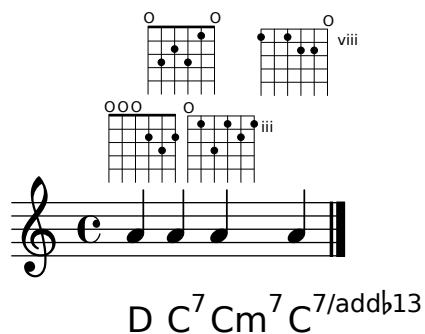
‘17a-Chords-Finale.ly’

Chordnames example



‘17b-Fretboards-Finale.ly’

Fretboards



‘17c-ChordsFrets-Finale.ly’

Chords and fretboards example

A musical score for a single staff in C major, 4/4 time. The melody consists of the following notes: C4, C4, E4, G4, B4, A4, G4, F#4, E4, D#4, C5. Above the staff, guitar fretboard diagrams are provided for each note, showing fingerings: C (open), C (open), E (1st fret), G (2nd fret), B (4th fret), A (3rd fret), G (2nd fret), F# (3rd fret), E (open), D# (2nd fret), C (open).

C C Δ /add#11 B $7/\#5/\#9$ E \flat $\text{sus}2/\text{add}3$ Gm D# Δ A $^{\circ}7$ C

‘17d-ChordsFretsOnMultistaff-Finale.ly’

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

A musical score for a piano multi-staff piece in C major, 4/4 time. The score includes a treble staff and a bass staff. The melody in the treble staff consists of the following notes: C4, C4, E4, G4, B4, A4, G4, F#4, E4, D#4, C5. The bass staff consists of the following notes: C4, C4, E4, G4, B4, A4, G4, F#4, E4, D#4, C5. Above the treble staff, guitar fretboard diagrams are provided for each note, showing fingerings: C (open), C (open), E (1st fret), G (2nd fret), B (4th fret), A (3rd fret), G (2nd fret), F# (3rd fret), E (open), D# (2nd fret), C (open).

Piano

E \flat m 9
C D 7 Cm $7/\text{add}11$ $7/\flat9/13/\text{sus}4$ G#

‘17e-TabStaves-Finale.ly’

Tablatures

Guitar
 Guitar
 Guitar
 Guitar
 Bass Guitar
 Banjo
 Lute
 Ukulele

'17f-AllChordTypes.ly'

All MusicXML chord names/types with <root>

C
major
 Cm
minor
 C+
augmented
 C°
diminished

C⁷
dominant
 C^Δ
major-seventh
 Cm⁷
minor-seventh
 C^{°7}
diminished-seventh

C^{7/#5}
augmented-seventh
 C[°]
half-diminished
 Cm^Δ
major-minor
 C⁶
major-sixth

4

Cm⁶

C⁹

C[△]9

Cm⁹

minor-sixth

dominant-ninth

major-ninth

minor-ninth

5

C¹¹

C[△]11

Cm¹¹

C¹³

dominant-11th

major-11th

minor-11th

dominant-13th

6

C[△]13

Cm¹³

C^{sus2}

C^{sus4}

major-13th

minor-13th

suspended-second

suspended-fourth

7

C

C

Neapolitan

Italians

French

German

pedal

power

Tristan

other

9

F#

F^b/C

G[#]/D[#]

C

C^{b5}

E^{b4/susb4/addb3}

Inversion

F^bb/C

G[#]/D[#]

C-3+5b

C-1+6b

‘18a-FiguredBass.ly’

Figured Bass

3

#1

[6]

5

427

5

‘19a-PageLayout-PrintMusic.ly’

Layout options

‘99a-Sibelius5-IgnoreBeaming.ly’

Ignore beaming in files from Dolet 3 for Sibelius



‘99b-Lyrics-BeamsMelismata-IgnoreBeams.ly’

Lyrics and melismata

