

## LilyPond Regression Tests

# Introduction

This document presents proofs for LilyPond 2.14.2. When the text corresponds with the shown notation, we consider LilyPond Officially BugFree (tm). 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 input file.

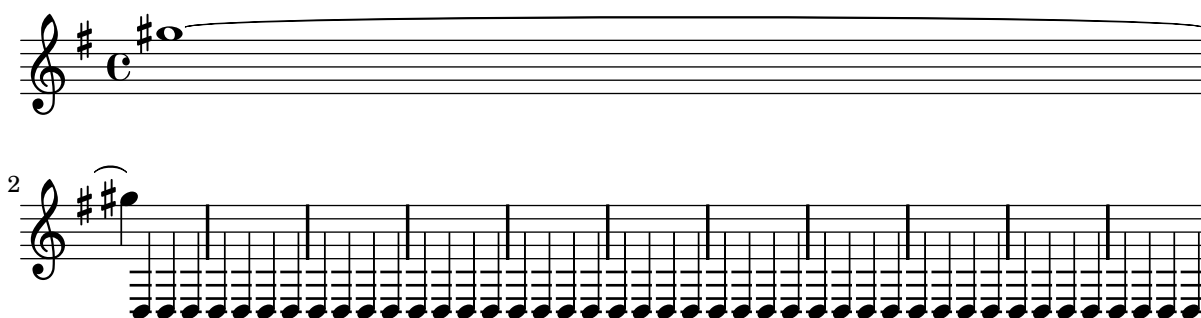
TODO: order of tests (file names!), test only one feature per test. Smaller and neater tests.

## Regression test cases

‘accidental-ancient.ly’ Accidentals are available in different ancient styles, which all are collected here.



‘accidental-broken-tie-spacing.ly’ When a tie is broken, the spacing engine must consider the accidental after the line break, to prevent a collision from occurring.



‘accidental-cautionary.ly’ Cautionary accidentals may be indicated using either parentheses (default) or smaller accidentals.



‘accidental-clef-change.ly’ Accidentals are invalidated at clef changes.



‘accidental-collision.ly’ accidentals avoid stems of other notes too.



‘accidental-contemporary.ly’ Several automatic accidental rules aim to reproduce contemporary music notation practices:

- ‘dodecaphonic style prints accidentals on every note (including naturals)
- ‘neo-modern style prints accidentals on every note (not including naturals), except when a note is immediately repeated
- ‘neo-modern-cautionary style acts like neo-modern, adding cautionary parentheses around accidentals.
- ‘teaching prints accidentals normally, but adds cautionary accidentals when an accidental is already included in the key signature.

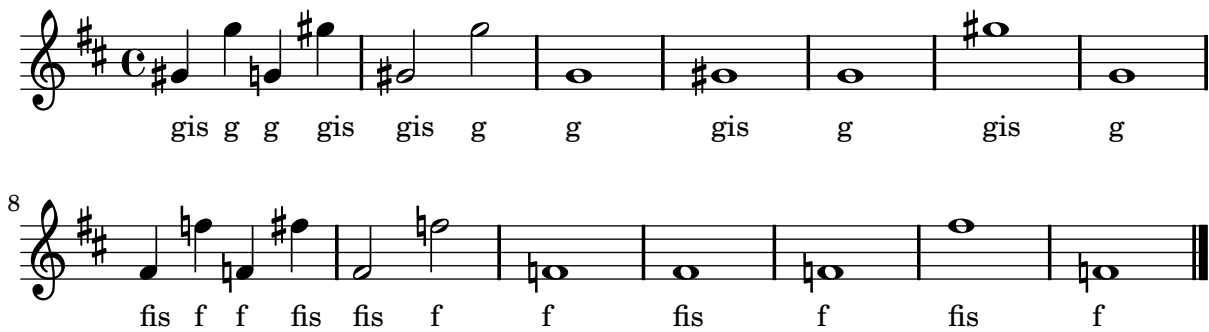


The first system of the musical score is written on a single five-line staff with a treble clef and a common time signature (C). The melody is composed of eighth and sixteenth notes, with some notes beamed together. The key signature is one flat (B-flat). The system contains six measures of music.



‘accidental-octave.ly’

This shows how accidentals in different octaves are handled. The note names are also automatically printed but the octavation has been dropped out.



‘accidental-piano.ly’ In piano accidental style, notes in both staves influence each other. In this example, each note should have an accidental.



‘accidental-placement-padding.ly’ Accidental padding works for all accidentals, including those modifying the same pitch.



‘accidental-placement-samepitch.ly’ When two (or more) accidentals modify the same pitch, they are printed adjacent to one another unless they represent the same alteration, in which case they are printed in exactly the same position as one another. In either case, collisions with accidentals of different pitches are correctly computed.



‘accidental-placement.ly’ Accidentals are placed as closely as possible. Accidentals in corresponding octaves are aligned. The top accidental should be nearest to the chord. The flats in a sixth should be staggered.



‘accidental-quarter.ly’ Quarter tone notation is supported, including threequarters flat.



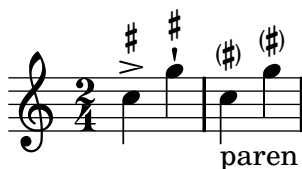
‘accidental-single-double.ly’

A sharp sign after a double sharp sign, as well as a flat sign after a double flat sign is automatically prepended with a natural sign.



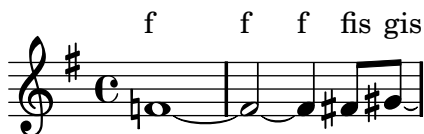
gisis gis geses ges

‘accidental-suggestions.ly’ setting the `suggestAccidentals` will print accidentals vertically relative to the note. This is useful for denoting Musica Ficta.

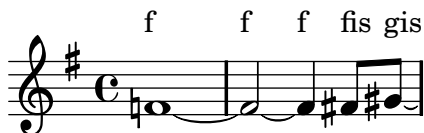


paren

‘accidental-tie-overridden.ly’ The presence of an accidental after a broken tie can be overridden.



‘accidental-tie.ly’ The second and third notes should not get accidentals, because they are tied to a note. However, an accidental is present if the line is broken at the tie, which happens for the G sharp.



‘accidental-unbroken-tie-spacing.ly’ Tied notes with accidentals do not cause problems with spacing.



`'accidental-voice.ly'`

This shows how modern cross voice auto cautionary accidentals are handled. The first two fisses get accidentals because they belong to different voices. The first f gets cautionary natural because of previous measure. The last f gets cautionary natural because fis was only in the other voice.

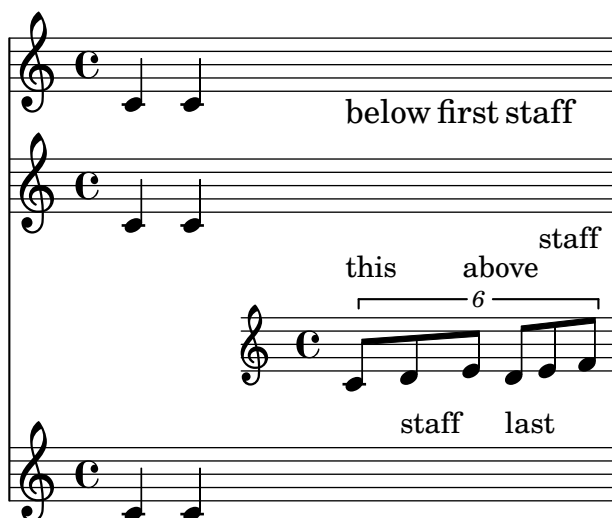


`'accidental.ly'`

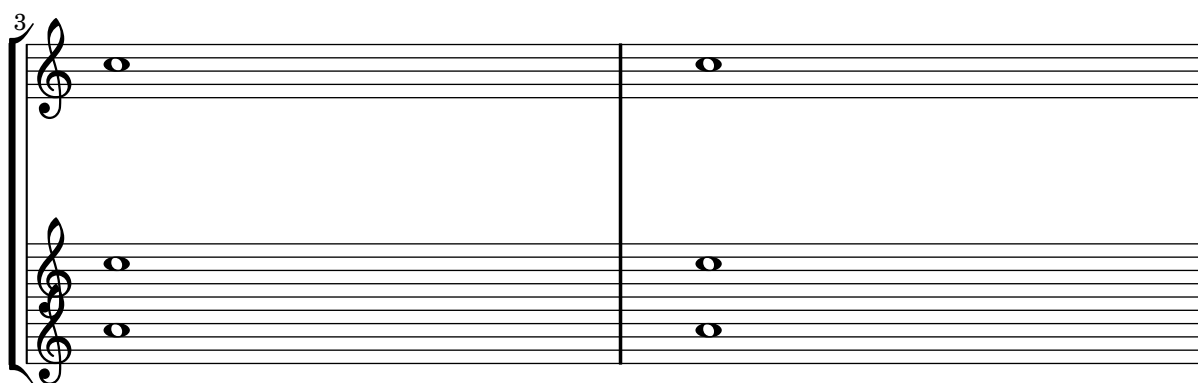
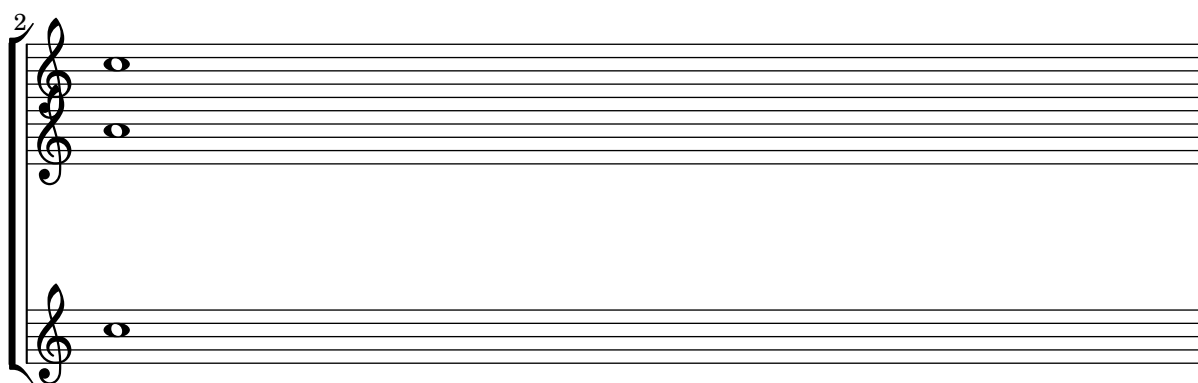
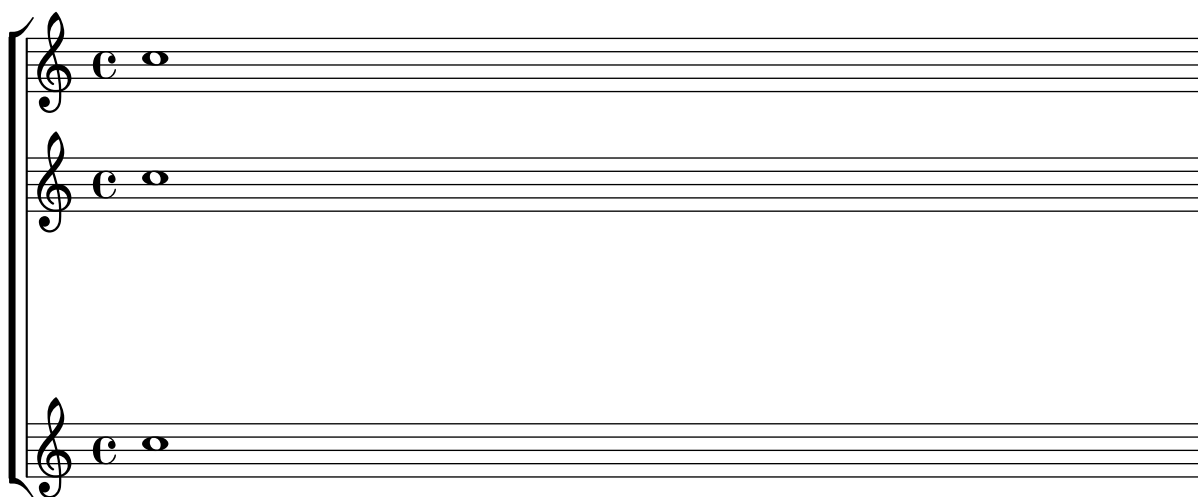
Accidentals work: the second note does not get a sharp. The third and fourth show forced and cautionary accidentals.



`'alignment-order.ly'` Newly created contexts can be inserted anywhere in the vertical alignment.



`'alignment-vertical-manual-setting.ly'` Alignments may be changed per system by setting alignment-distances in the line-break-system-details property



`'ambitus-gap.ly'` The gaps between an `AmbitusLine` and its note heads are set by the `gap` property.



`'ambitus-percussion-staves.ly'` Adding ambitus to percussion contexts does not cause crashes, since the `Ambitus_engraver` will only acknowledge pitched note heads.

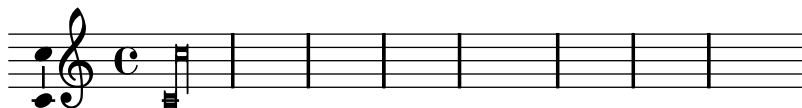


`'ambitus-pitch-ordering.ly'` Ambitus use actual pitch not lexicographic ordering.



`'ambitus-with-ligature.ly'`

A `\Voice` should be able to contain both an `Ambitus_engraver` and a `Mensural_ligature_engraver` without segfaulting.



`'ambitus.ly'` Ambitus indicate pitch ranges for voices.

Accidentals only show up if they're not part of key signature. `AmbitusNoteHead` grobs also have ledger lines. The noteheads are printed in overstrike, so there's only one visible; the accidentals are prevented from colliding.



`'apply-context.ly'` With `\applyContext`, `\properties` can be modified procedurally. Applications include: checking bar numbers, smart octavation.

This example prints a bar-number during processing on stdout.



`'apply-output.ly'` The `\applyOutput` expression is the most flexible way to tune properties for individual grobs.

Here, the layout of a note head is changed depending on its vertical position.

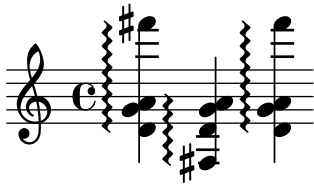


`'arpeggio-bracket.ly'`

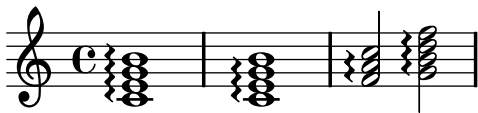
A square bracket on the left indicates that the player should not arpeggiate the chord.



`'arpeggio-collision.ly'` Arpeggio stays clear of accidentals and flipped note heads.



`'arpeggio-no-overshoot.ly'` Arpeggios do not overshoot the highest note head. The first chord in this example simulates overshoot using `'positions` for comparison with the correct behaviour.



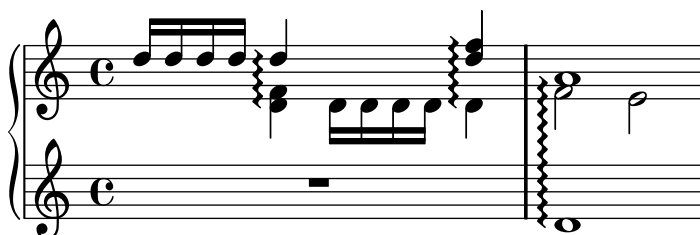
`'arpeggio-no-staff-symbol.ly'` Arpeggios still work in the absence of a staff-symbol.



`'arpeggio-parenthesis.ly'` There is a variant of the arpeggio sign that uses a 'vertical slur' instead of the wiggle.



`'arpeggio-span-collision.ly'` Cross-staff or -voice arpeggios which include single note heads as anchors do not collide with previous note heads or prefatory material.



`'arpeggio-span-one-staff.ly'` Span arpeggios within one staff also work



`'arpeggio.ly'`

Arpeggios are supported, both cross-staff and broken single staff.



`'articulation-snappizzicato.ly'` The snappizzicato articulation adds a snappizzicato sign to the note.



`'augmentum.ly'` Augmentum dots are accounted for in horizontal spacing.



`'auto-beam-bar.ly'` No auto beams will be put over (manual) repeat bars.



`'auto-beam-beaming-override.ly'` Autobeamer remembers `subdivideBeams` and other beaming pattern related functions at the start of an autobeam.



`'auto-beam-breathe.ly'` Automatic beams are ended early if a breathing sign is encountered.



`'auto-beam-no-beam.ly'` The autobeamer may be switched off for a single note with `\noBeam`.



‘auto-beam-partial-grace.ly’ Grace notes at the start of a partial measure do not break autobeaming.



‘auto-beam-partial.ly’ Autobeaming works properly in partial measures.



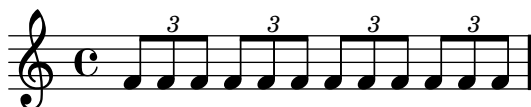
‘auto-beam-recheck.ly’ In 4/4 time, the first and second and third and fourth beats should be beamed together if only eighth notes are involved. If any shorter notes are included, each beat should be beamed separately.



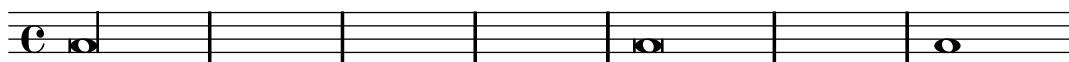
‘auto-beam-triplet.ly’ Automatic beaming is also done on triplets.



‘auto-beam-tuplets.ly’ Triplet-spanner should not put (visible) brackets on beams even if they’re auto generated.



‘auto-beam.ly’ Beams are placed automatically; the last measure should have a single beam.



‘auto-change.ly’ Auto change piano staff switches voices between up and down staves automatically; rests are switched along with the coming note. When central C is reached, staff is not yet switched (by default).





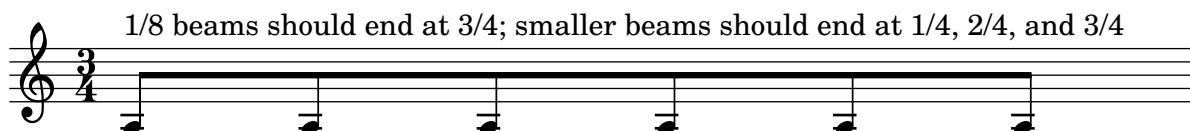
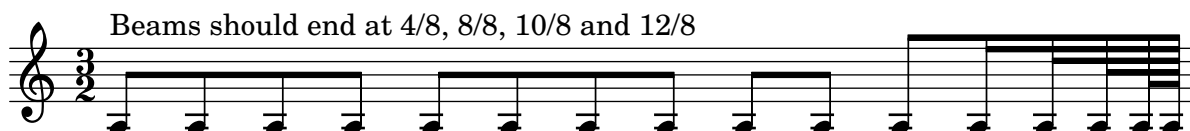
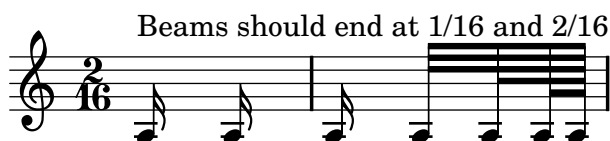
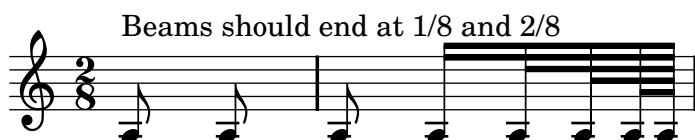
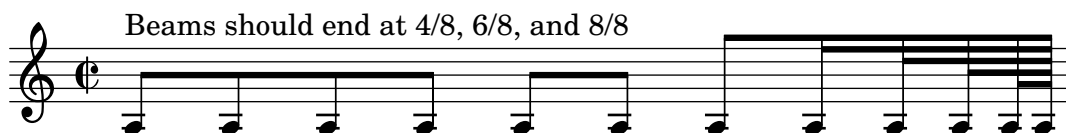
`'autobeam-nobeam.ly'`

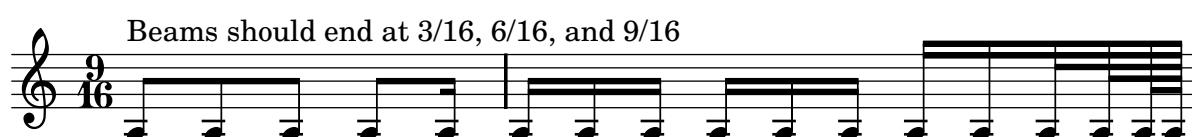
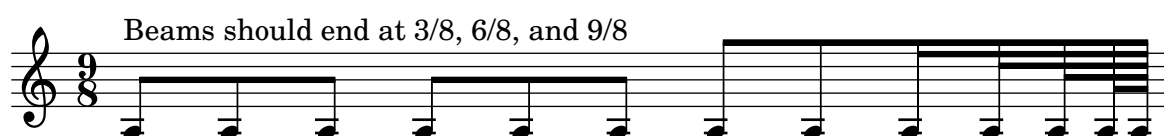
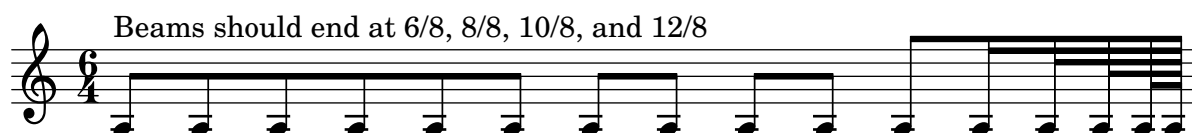
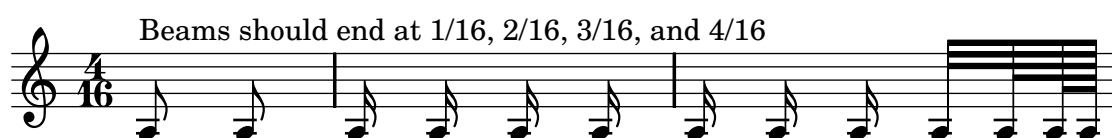
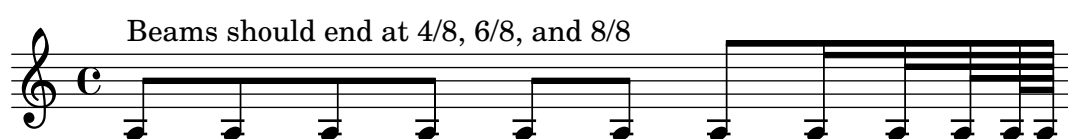
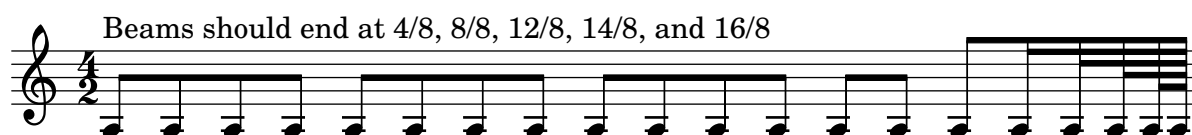
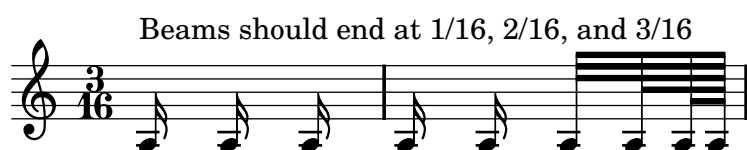
oBeam should terminate an autobeam, even if it's not a recommended place for stopping a beam. In this example, the first three eighth notes should be beamed.

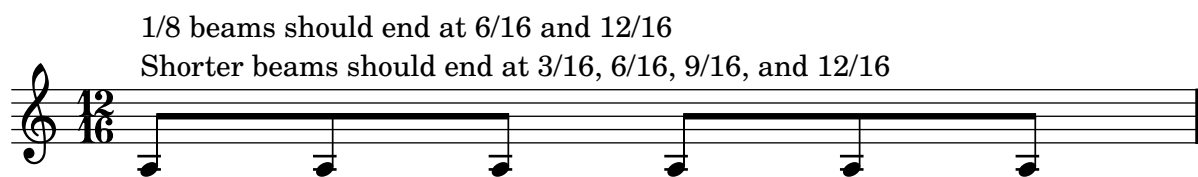
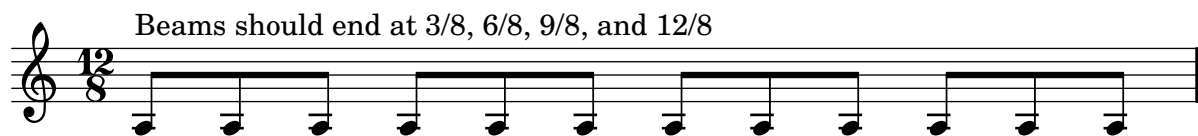


`'autobeam-show-defaults.ly'`

Default autobeam settings have been set for a number of time signatures. Each score shows the desired beaming







'autobeam-start-at-beginning-of-measure-in-3-4.ly'

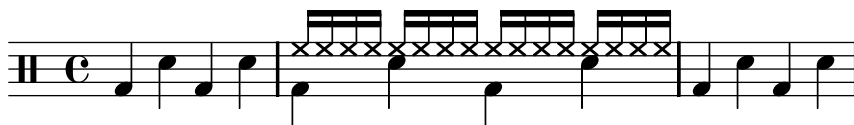
3/4 beaming has special rules, that are hardcoded in the autobeam routines. When the beaming is changed, beams should start at the beginning of the measure. In this case, the measure should be beamed in two.



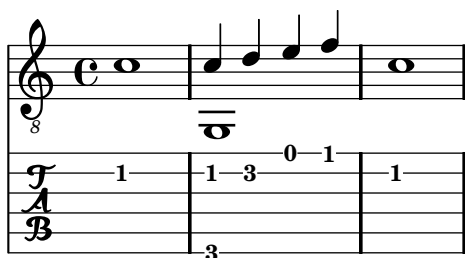
'automatic-polyphony-context-id.ly' The bottom-level contexts in polyphony shorthand are allocated a context id in order of creation, starting with "1". This snippet will fail to compile if either voice has an invalid context-id string.



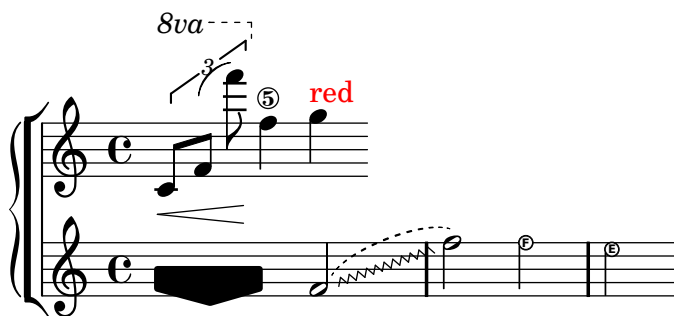
‘automatic-polyphony-drumstaff.ly’ In a DrumStaff, automatic polyphony can be used without explicitly initializing separate voices.



‘automatic-polyphony-tabstaff.ly’ In a TabStaff, automatic polyphony can be used without explicitly initializing separate voices.



‘backend-exercise.ly’ Exercise all output functions



‘backend-svg.ly’

‘baerenreiter-sarabande.ly’ The Brenreiter edition of the Cello Suites is the most beautifully typeset piece of music in our collection of music (we both own one. It is also lovely on French Horn). This piece does not include articulation, but it does follow the same beaming and linebreaking as the printed edition. This is done in order to benchmark the quality of the LilyPond output.

As of lilypond 1.5.42, the spacing and beam quanting is almost identical.

There are two tweaks in this file: a line-break was forced before measure 25, we get back the linebreaking of Brenreiter. The stem direction is forced in measure 24. The last beam of that measure is up in Brenreiter because of context. We don’t detect that yet.

Note that the Brenreiter edition contains a few engraving mistakes. The second line begins with measure 6 (but prints 5). The |: half way in measure 13 has been forgotten.

# Solo Cello Suite II

Johann Sebastian Bach (1685-1750)

## Sarabande

6

11

16

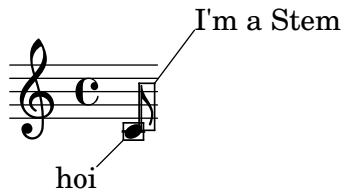
21

25

7

The image displays a musical score for the Sarabande from the Solo Cello Suite II by Johann Sebastian Bach. The score is written in bass clef, 3/4 time, and B-flat major. It consists of six staves of music. The first staff begins with a treble clef and a key signature of one flat. The second staff is marked with a '6' and contains a trill (tr) over a half note. The third staff is marked with an '11' and contains a repeat sign followed by a trill (tr) over a half note. The fourth staff is marked with a '16' and contains a trill (tr) over a half note. The fifth staff is marked with a '21' and contains a trill (tr) over a half note. The sixth staff is marked with a '25' and contains a trill (tr) over a half note. The score concludes with a final measure marked with a '7'.

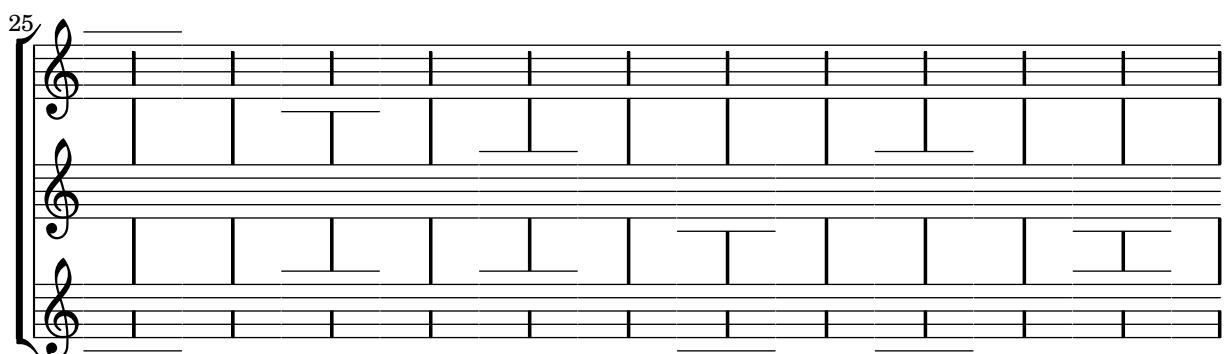
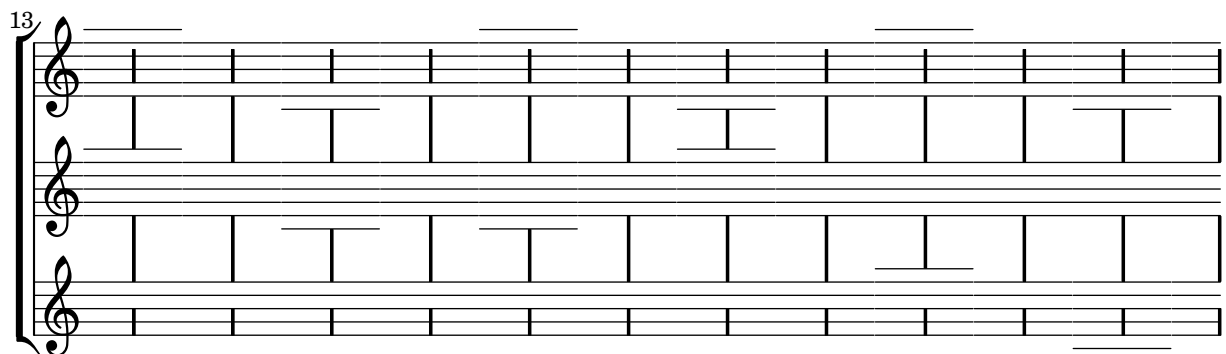
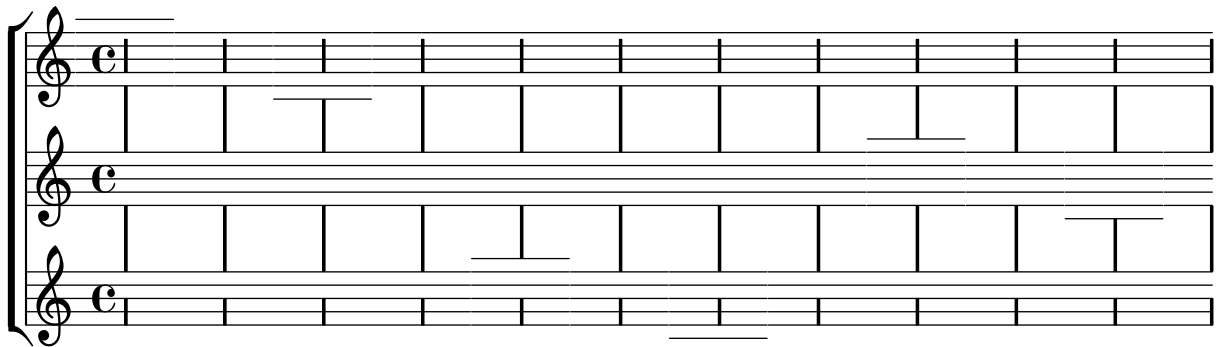
`'balloon.ly'` With balloon texts, objects in the output can be marked, with lines and explanatory text added.



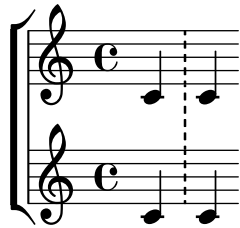
`'bar-check-redefine.ly'` The meaning of `|` is stored in the identifier `pipeSymbol`.



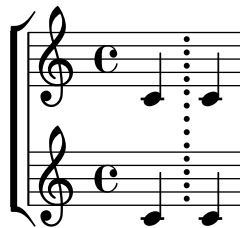
`'bar-extent.ly'` Bar line extent can be customised and the customised value must be respected when staff symbol is changed temporarily (e.g. to simulate ledger lines of renaissance prints and manuscripts); moreover, span bars should not enter the staves.



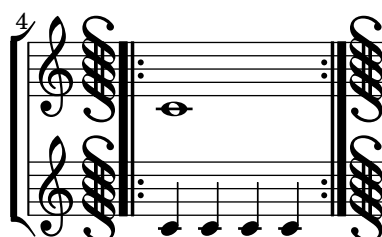
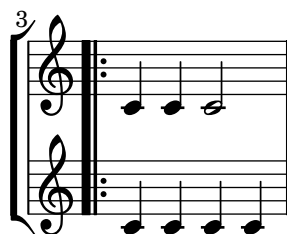
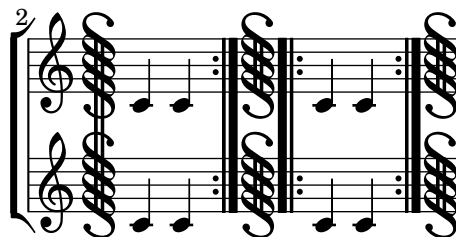
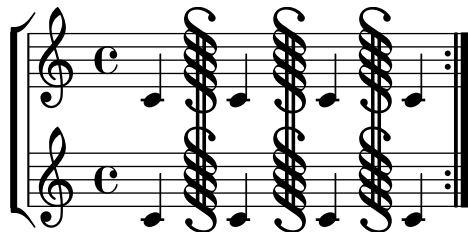
`'bar-line-dashed.ly'` The dashes in a dashed bar line covers staff lines exactly. Dashed barlines between staves start and end on a half dash precisely.

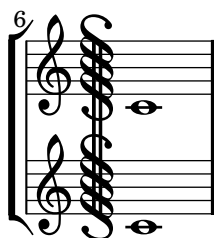
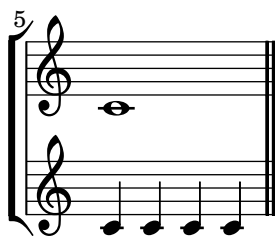


`'bar-line-dotted.ly'` The dots in a dotted bar line are in spaces.



`'bar-line-segno.ly'` Segno bar lines can be used to mark the begin and the end of a segno part.





‘bar-line-thick.ly’ A thick bar line is created by `\bar ".`, which is consistent with e.g. `\bar "|.`

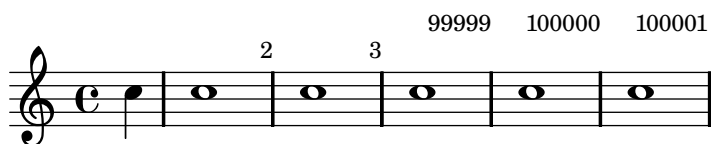


‘bar-line-tick.ly’ A ticked bar line is a short line of the same length as a staff space, centered on the top-most barline.



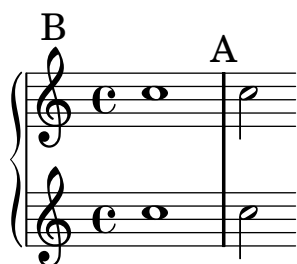
‘bar-number.ly’ Bar numbers may be set and their padding adjusted individually. The counting of bar numbers is started after the anacrusis.

To prevent clashes at the beginning of a line, the padding may have to be increased.



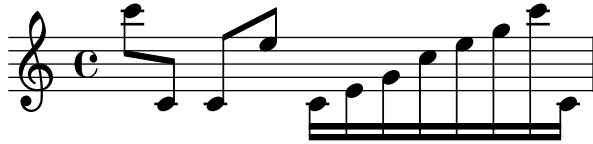
‘bar-scripts.ly’

Markings can be attached to (invisible) barlines.





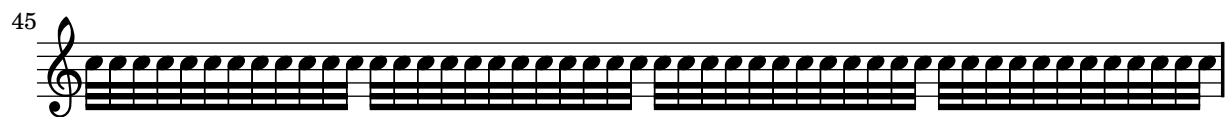
‘beam-auto-knee.ly’ A knee is made automatically when a horizontal beam fits in a gap between note heads that is larger than a predefined threshold.



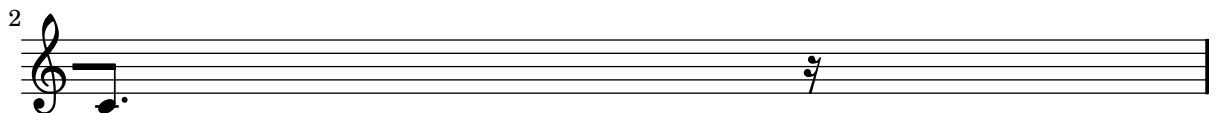
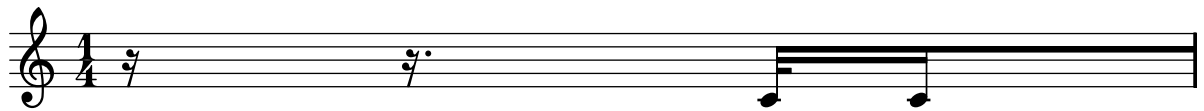
‘beam-auto.ly’ There are presets for the **auto-beam** engraver in the case of common time signatures.

[illegible]

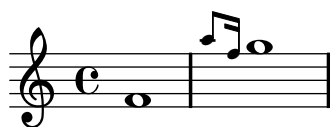




'beam-beamlet-break.ly' beamlets don't run to end of line if there are no other beamlets on the same height.



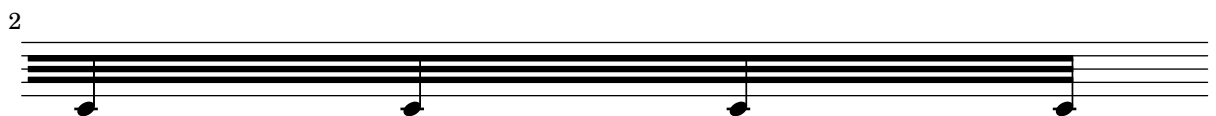
'beam-beamlet-grace.ly' Beamlets in grace notes remain readable.



'beam-beat-grouping.ly' Default beaming patterns can be set for the current time signature.



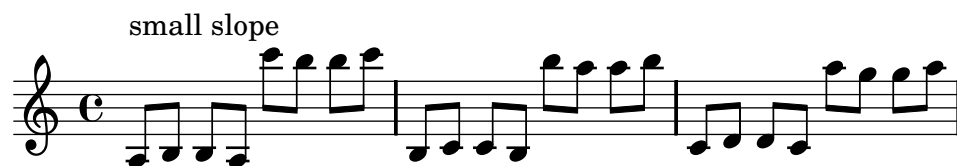
'beam-break-no-bar.ly' Broken beams have sane endings even if grobs are not present at the broken end.



'beam-break.ly' Beams can be printed across line breaks, if forced.



'beam-center-slope.ly' Simple beams on middle staffline are allowed to be slightly sloped, even if the notes have ledgers. Beams reaching beyond middle line can have bigger slope.



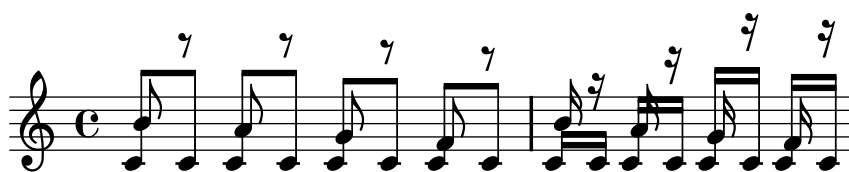
'beam-collision-accidentals.ly' Beams only check for collisions with in-line accidentals.



'beam-collision-basic.ly' Manual beams do not collide with notes.



'beam-collision-beamcount.ly' Manual beams do not collide with notes.

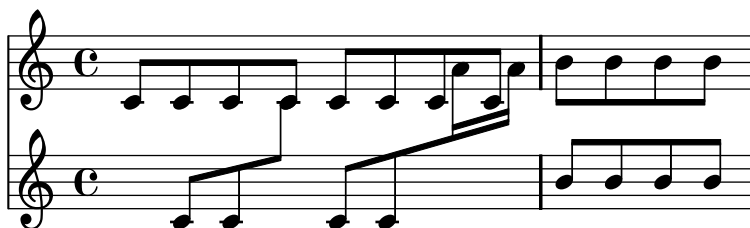


'beam-collision-classic.ly'

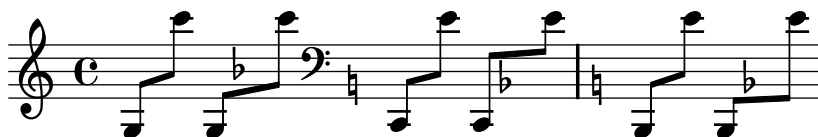




`'beam-collision-cross-staff.ly'` cross staff beams work with collisions.



`'beam-collision-feasible-region.ly'` A rough guess for collisions is taken into account when choosing initial beam configurations; the initial position may be chosen to be either above or below large collisions.



`'beam-collision-grace.ly'`

The beaming algorithm handles collisions between beams and grace notes too.



`'beam-collision-large-object.ly'` Behave sensibly in the presence of large collisions.



`'beam-collision-off.ly'` Beams can be allowed to collide with grobs by overriding the `collision-interfaces` property.



‘beam-collision-opposite-stem.ly’ Meshing stems in oppositely directed beams are handled correctly.



‘beam-collision-prefatory-matter.ly’



‘beam-collision-scaled-staff.ly’ Beam collisions are resistant to scaled down staves.



‘beam-collision-voice-only.ly’ Beam collision can be tweaked to only apply to the grobs within the beam’s original voice.



‘beam-concave-chord.ly’ Concave beaming works for chords as well as monophonic music.



‘beam-concave-damped.ly’ Beams that are not strictly concave are damped according to their concaveness.

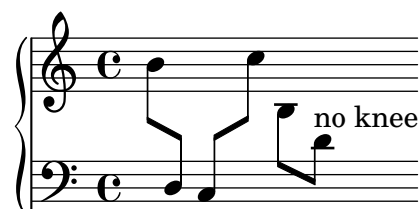


‘beam-concave.ly’ Fully concave beams should be horizontal. Informally spoken, concave refers to the shape of the notes that are opposite a beam. If an up-beam has high notes on its center stems, then we call it concave.

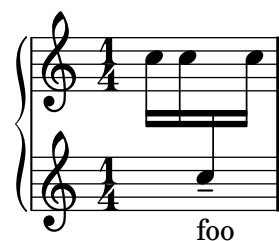
If a beam fails a test, the desired slope is printed next to it.



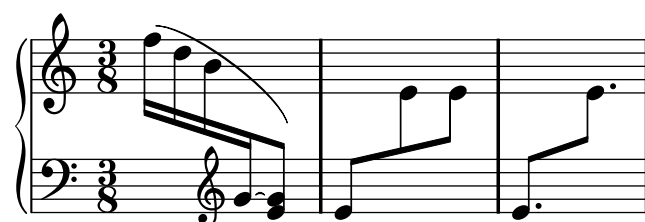
‘beam-cross-staff-auto-knee.ly’ Automatic cross-staff knees work also (here they were produced with explicit staff switches).



‘beam-cross-staff-script.ly’ scripts don’t trigger beam formatting. If this does happen, we can have a cyclic dependency on Y-positions of staves.

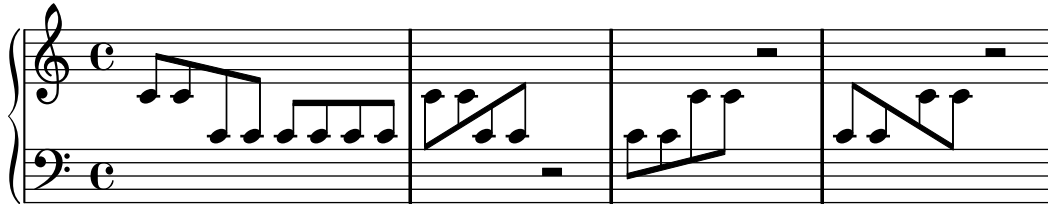


‘beam-cross-staff-slope.ly’ Cross staff (kneed) beams do not cause extreme slopes.



```
'beam-cross-staff.ly'
```

Beams can be typeset over fixed distance aligned staves, beam beautification does not really work, but knees do. Beams should be behave well, wherever the switching point is.



‘beam-damp.ly’ Beams are less steep than the notes they encompass.

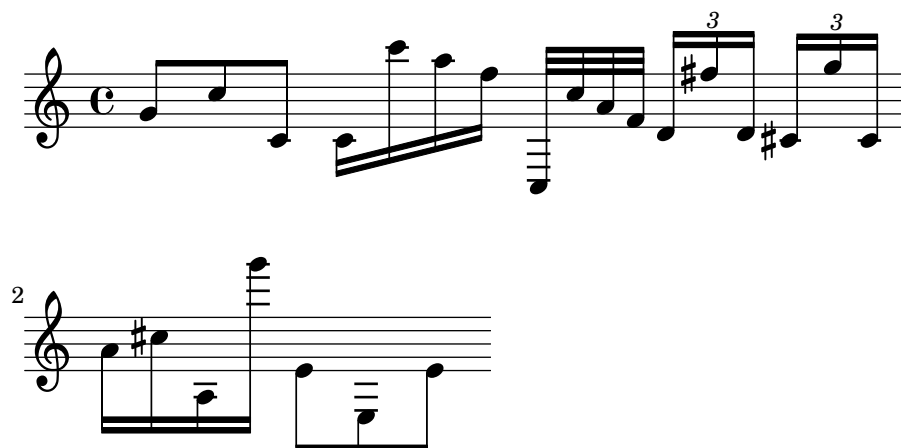


`'beam-default-lengths.ly'` Beamed stems have standard lengths if possible. Quantization is switched off in this example.



`'beam-extreme.ly'`

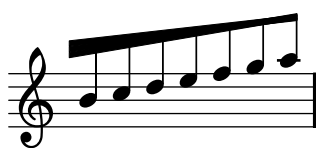
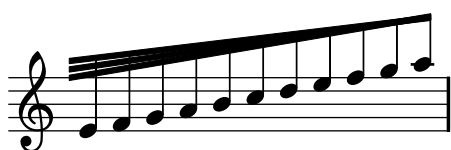
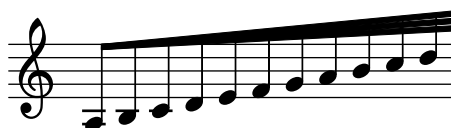
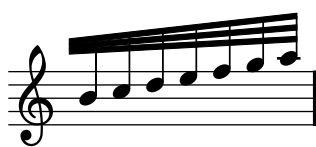
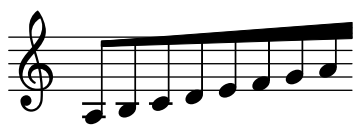
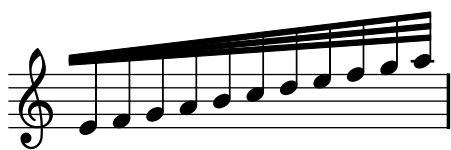
Beams should behave reasonably well, even under extreme circumstances. Stems may be short, but noteheads should never touch the beam. Note that under normal circumstances, these beams would get knees. Here `Beam.auto-knee-gap` was set to false.

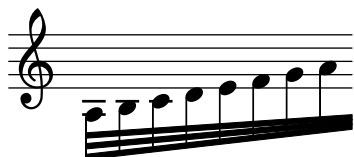
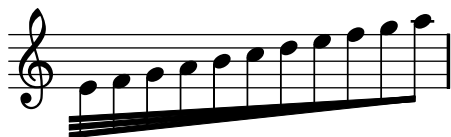
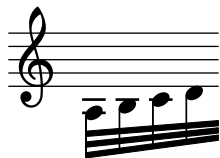
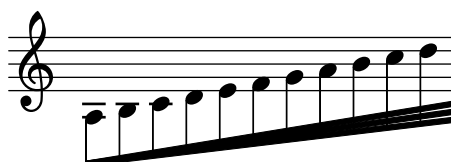
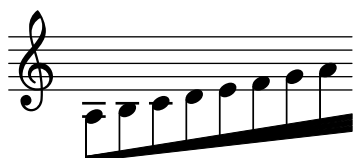
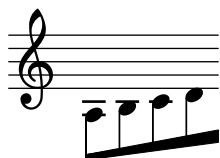
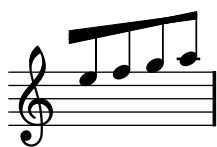


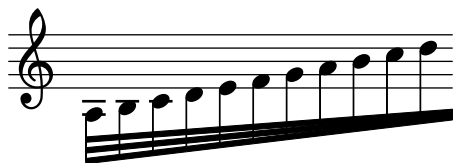
`'beam-feather-breaking.ly'` Feathered beams should have the same progress of their feathering at the end of a line break as they do at the beginning of the next line.







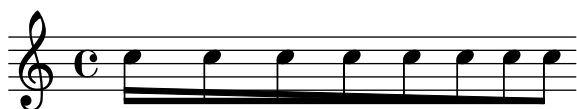




`'beam-feather-knee-stem-length.ly'` In feathered beams, stems in knees reach up to the feathered part correctly.



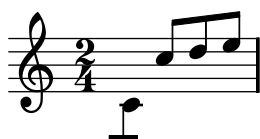
`'beam-feather.ly'` Specifying `grow-direction` on a beam, will cause feathered beaming. The `\featherDurations` function can be used to adjust note durations.



`'beam-flat-retain-direction.ly'` Even very flat but slanted patterns should give slanted beams.



`'beam-forced-direction.ly'` The direction of manual beams can be forced using `_` and `^`.



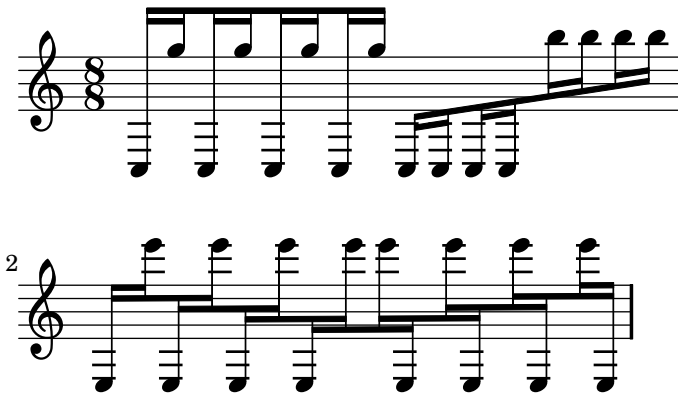
`'beam-french.ly'` In French style beaming, the stems do not go between beams.



`'beam-funky-beamlet.ly'` Funky kneed beams with beamlets also work. The beamlets should be pointing to the note head.



‘beam-funky.ly’ In complex configurations of knee beaming, according to Paul Roberts, the first stem of a beam determines the direction of the beam, and as such the way that following (kneaded) stems attach to the beam. This is in disagreement with the current algorithm.



‘beam-isknee.ly’

Beams can be placed across a PianoStaff.



‘beam-knee-symmetry.ly’ Point-symmetric beams should receive the same quanting. There is no up/down bias in the quanting code.



‘beam-length.ly’

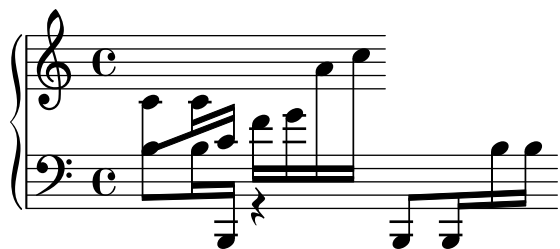
Beams should look the same.



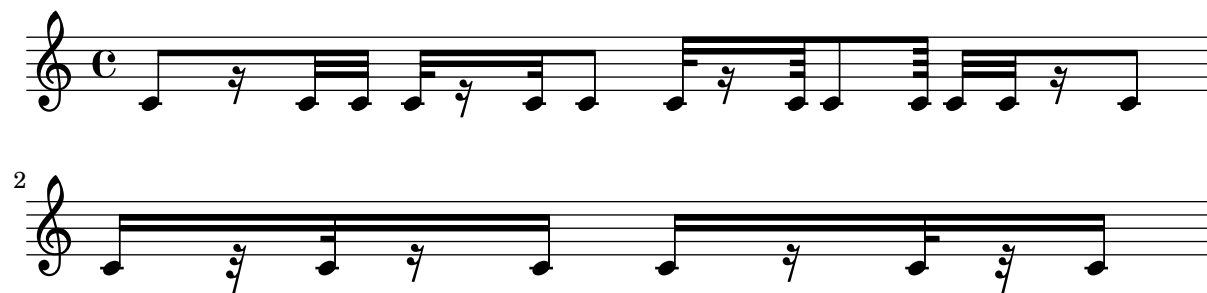
‘beam-manual-beaming.ly’ Beaming can be overridden for individual stems.



‘beam-multiple-cross-staff.ly’ Kneaded beams (often happens with cross-staff beams) should look good when there are multiple beams: all the beams should go on continuously at the staff change. Stems in both staves reach up to the last beam.



`'beam-multiplicity-over-rests.ly'` When a beam goes over a rest, there should not be any beamlets pointing towards the rest unless absolutely necessary.



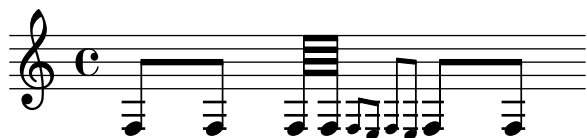
`'beam-outside-beamlets.ly'` Beams may overshoot stems. This is also controlled with `break-overshoot`.



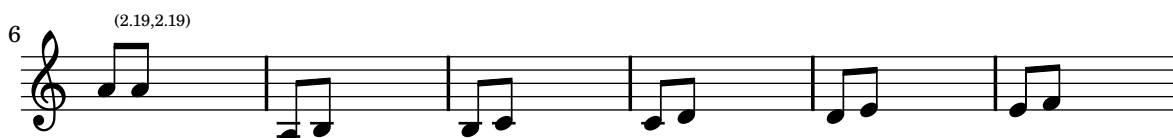
`'beam-over-barline.ly'` Explicit beams may cross barlines.

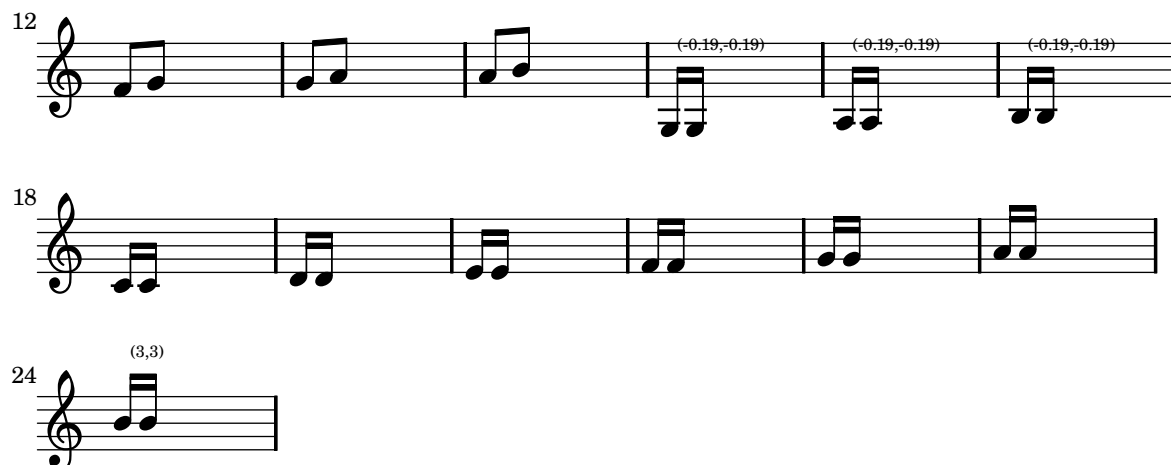


`'beam-position.ly'` Beams on ledgered notes should always reach the middle staff line. The second beam, counting from the note head side, should never be lower than the second staff line. This does not hold for grace note beams. Override with `no-stem-extend`.



`'beam-quant-standard.ly'` This file tests a few standard beam quant, taken from Ted Ross' book. If LilyPond finds another quant, the correct quant is printed over the beam.





‘beam-quanting-32nd.ly’ Stem lengths take precedence over beam quants: ‘forbidden’ quants are only avoided for 32nd beams when they are outside of the staff. However, that leads to very long stems, which is even worse.



‘beam-quanting-horizontal.ly’ In this test for beam quant positions for horizontal beams, staff lines should be covered in all cases. For 32nd beams, the free stem lengths are between 2 and 1.5.



‘beam-quarter.ly’ Quarter notes may be beamed: the beam is halted momentarily.



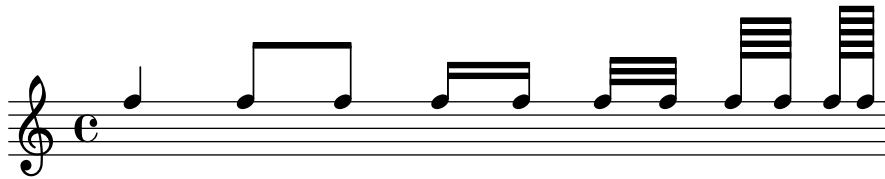
‘beam-rest.ly’ The number of beams does not change on a rest.



`'beam-second.ly'` Engraving second intervals is tricky. We used to have problems with seconds being too steep, or getting too long stems. In a file like this, showing seconds, you'll spot something fishy very quickly.



`'beam-shortened-lengths.ly'` Beams in unnatural direction, have shortened stems, but do not look too short.



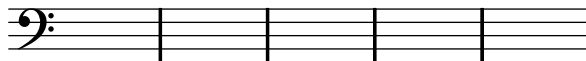
`'beam-single-stem.ly'` Single stem beams are also allowed. For such beams, clip-edges is switched off automatically.



`'beam-skip.ly'` Beams over skips do not cause a segfault.



8



`'beam-slope-stemlet.ly'` For slope calculations, stemlets are treated as invisible stems.



`'beam-unconnected-beamlets.ly'` By setting `max-beam-connect`, it is possible to create pairs of unconnected beamlets.

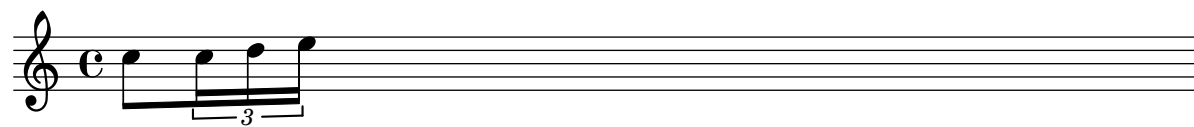


`'beaming-ternary-metrum.ly'` Automatic beaming works also in ternary time sigs. As desired, the measure is split in half, with beats 1-3 and 4-6 beamed together as a whole.



`'beaming.ly'`

Beaming is generated automatically. Beams may cross bar lines. In that case, line breaks are forbidden.



`'beams.ly'` Beaming can be also given explicitly.



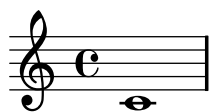
`'bend-after.ly'` Falls and doits can be created with `bendAfter`. They run to the next note, or to the next barline. Microtone bends (i.e. `\bendAfter #3.5`) are also supported.



`'bend-dot.ly'` Bends avoid dots, but only if necessary.



`'book-identifier-markup.ly'` A `\book` or `\bookpart` identifier can contain top-level markup and page-markers.



Page ?

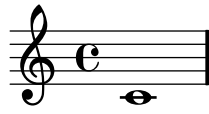
`'book-label-no-segfault.ly'`

A book(part) can contain only a label without causing a segfault.



foo

‘bookpart-variable.ly’



‘bookparts.ly’ A book can be split into several parts with different paper settings, using `\bookpart`.

Fonts are loaded into the top-level paper. Page labels are also collected into the top-level paper.

## Book with several parts

First part  
with default paper settings.

### II SECOND PART

## Book with several parts

Second part, with different margins  
and page header.



3

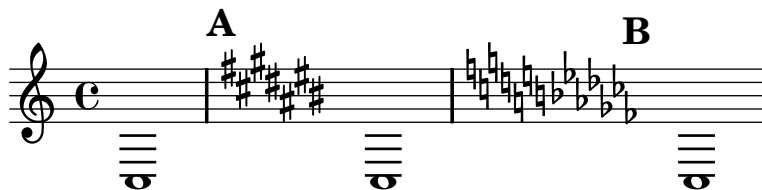
## Book with several parts

Third part

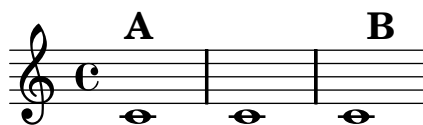
### Table of Contents

First part	1
Second part	2
Third part	3

‘`break-alignment-anchor-alignment.ly`’ The default callback for `break-align-anchor` in clefs and time/key signatures reads the `break-align-anchor-alignment` property to align the anchor to the extent of the break-aligned grob.



‘`break-alignment-anchors.ly`’ The `break-align-anchor` property of a break-aligned grob gives the horizontal offset at which other grobs should attach.

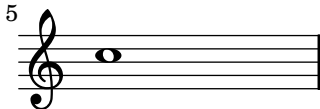


‘`break.ly`’

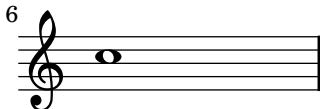
Breaks can be encouraged and discouraged using `\break` and `\noBreak`.



`break`

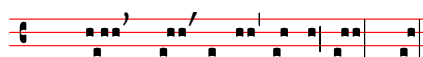


`break`



‘`breathing-sign-ancient.ly`’

Gregorian chant notation sometimes also uses commas and ticks, but in smaller font size (we call it ‘`virgula`’ and ‘`caesura`’). However, the most common breathing signs are `divisio minima`/`maior`/`maxima` and `finalis`, the latter three looking similar to bar glyphs.

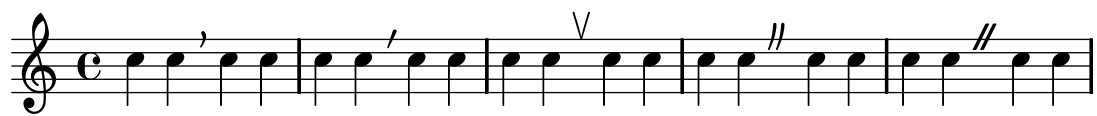


‘`breathing-sign-custom-staff.ly`’ Breathing signs are positioned correctly on custom staves which use `line-positions`.



‘`breathing-sign.ly`’

Breathing signs are available in different tastes: commas (default), ticks, vees and ‘railroad tracks’ (caesura).



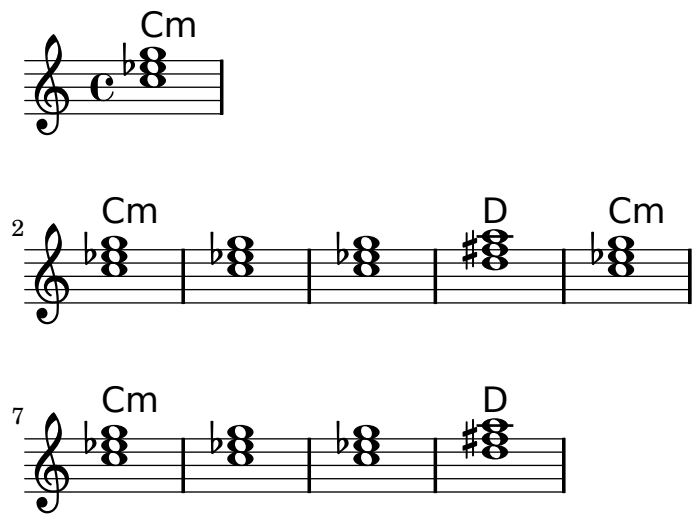
‘center-title.ly’

Long titles should be properly centered.

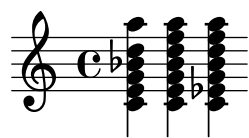
How Razorback Jumping Frogs Level Six Piqued Gymnast



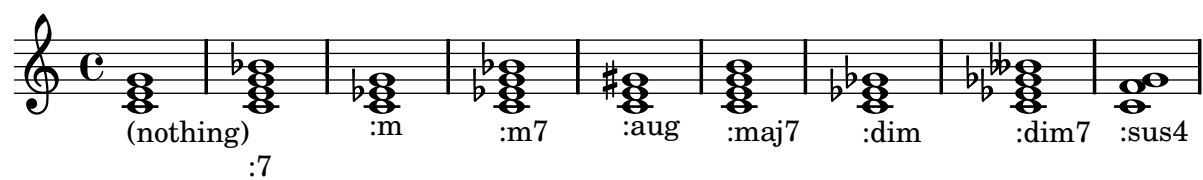
‘chord-changes.ly’ Property chordChanges: display chord names only when there’s a change in the chords scheme, but always display the chord name after a line break.



‘chord-name-entry-11.ly’ The 11 is only added to major-13 if it is mentioned explicitly.



‘chord-name-entry.ly’ Chords can be produced with the chordname entry code (\chordmode mode), using a pitch and a suffix. Here, the suffixes are printed below pitches.



‘chord-name-exceptions.ly’ The property `chordNameExceptions` can be used to store a list of special notations for specific chords.

‘chord-name-major7.ly’ The layout of the major 7 can be tuned with `majorSevenSymbol`.

$C^{\triangle}C^{j7}$


‘chord-names-bass.ly’ In `ignatzek` inversions, a note is dropped down to act as the bass note of the chord. Bass note may be also added explicitly. Above the staff: computed chord names. Below staff: entered chord name.

‘chord-names-in-grand-staff.ly’

`GrandStaff` contexts accept chord names. The chord name in this example should be printed above the top staff.

‘chord-names-languages.ly’ The english naming of chords (default) can be changed to `german` (`\germanChords` replaces B and Bes to H and B), `semi-german` (`\semiGermanChords` replaces B and Bes to H and Bb), `italian` (`\italianChords` uses Do Re Mi Fa Sol La Si), or `french` (`\frenchChords` replaces Re to R).

default	E/D	Cm	B/B	B <sup>#</sup> /B <sup>#</sup>	B <sup>b</sup> /B <sup>b</sup>
german	E/d	Cm	H/h	H <sup>#</sup> /his	B/b
semi-german	E/d	Cm	H/h	H <sup>#</sup> /his	B <sup>b</sup> /b
italian	Mi/Re	Do m	Si/Si	Si <sup>#</sup> /Si <sup>#</sup>	Si <sup>b</sup> /Si <sup>b</sup>
french	Mi/Ré	Do m	Si/Si	Si <sup>#</sup> /Si <sup>#</sup>	Si <sup>b</sup> /Si <sup>b</sup>

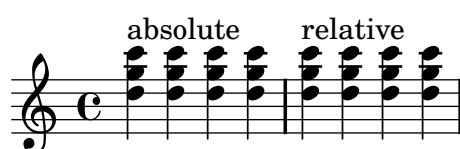


‘chord-names-lower-case-minor.ly’ Minor chords may be printed as lowercase letters, in which case the ‘m’ suffix is omitted in the output.

## Dmd

‘chord-repetition-relative.ly’

Chord repetition handles \relative mode: the repeated chords have the same octaves as the original one.

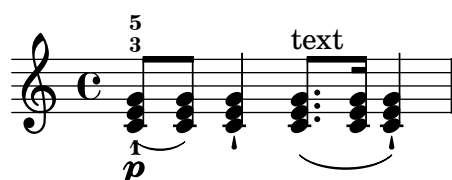


‘chord-repetition-script-stack.ly’ Post events such as fingerings and scripts added to a chord repetition follow the same basic stacking order as chords.

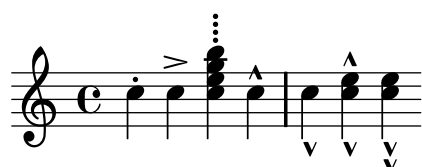


‘chord-repetition.ly’

A repetition symbol can be used to repeat the previous chord and save typing. Only note events are copied: articulations, text scripts, fingerings, etc are not repeated.

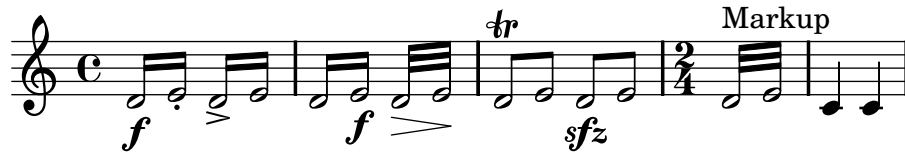


‘chord-scripts.ly’ Scripts can also be attached to chord elements. They obey manual direction indicators.



‘chord-tremolo-articulations.ly’

Articulations on chord tremolos should not confuse the time-scaling of the notes. In particular, only the number of real notes should be considered.



`'chord-tremolo-other-commands.ly'`

To calculate the total duration of chord tremolos, only real notes shall be counted, no other commands.



`'chord-tremolo-scaled-durations.ly'` Don't allow scaled durations to confuse the tremolo beaming. The tremolos should each have 3 beams.



`'chord-tremolo-short.ly'`

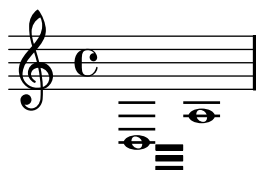
Tremolo repeats can be constructed for short tremolos (total duration smaller than 1/4) too. Only some of the beams are connected to the stems.



`'chord-tremolo-single.ly'` Chord tremolos on a single note.



`'chord-tremolo-stem-direction.ly'` Stem directions influence positioning of whole note tremolo beams.



`'chord-tremolo-whole.ly'` chord tremolos don't collide with whole notes.





‘chord-tremolo.ly’

Chord tremolos look like beams, but are a kind of repeat symbol. To avoid confusion, chord tremolo beams do not reach the stems, but leave a gap. Chord tremolo beams on half notes are not ambiguous, as half notes cannot appear in a regular beam, and should reach the stems.

In this example, each tremolo lasts exactly one measure.

(To ensure that the spacing engine is not confused we add some regular notes as well.)



‘chordnames-nochord.ly’ Rests in music passed to ChordNames context display noChordSymbol. noChordSymbol is treated like a ChordName with respect to chordChanges.

C

N.C.

N.C.

N.C.

G

C

C

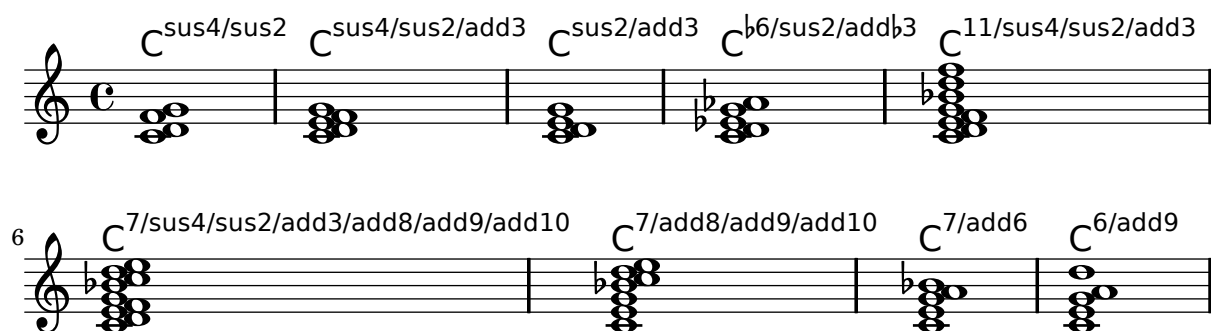
N.C.

N.C.

G

C

‘chords-funky-ignatzek.ly’ Jazz chords may have unusual combinations.



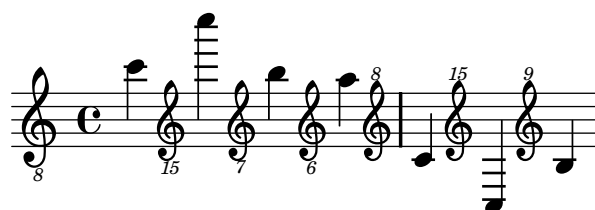
‘chromatic-scales.ly’ `staffLineLayoutFunction` is used to change the position of the notes. This sets `staffLineLayoutFunction` to `ly:pitch-semitones` to produce a chromatic scale with the distance between a consecutive space and line equal to one semitone.



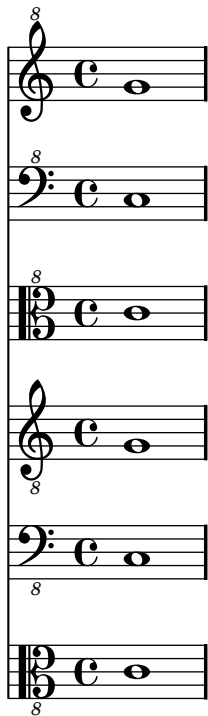
‘clef-oct-visibility.ly’ Octavation signs may be added to clefs. By default, their break-visibility is derived from the associated clef, but it may be overridden explicitly. The initial treble.8 clef should not have an 8, while the treble.8 clef after the tenor clef should. These settings also need to apply to clefs on new lines.



‘clef-oct.ly’ Octavation signs may be added to clefs. These octavation signs may be placed below or above (meaning an octave higher or lower), and can take any value, including 15 for two octaves.



‘clef-octavation.ly’ Octavate symbols should be correctly positioned close to the parent clef.



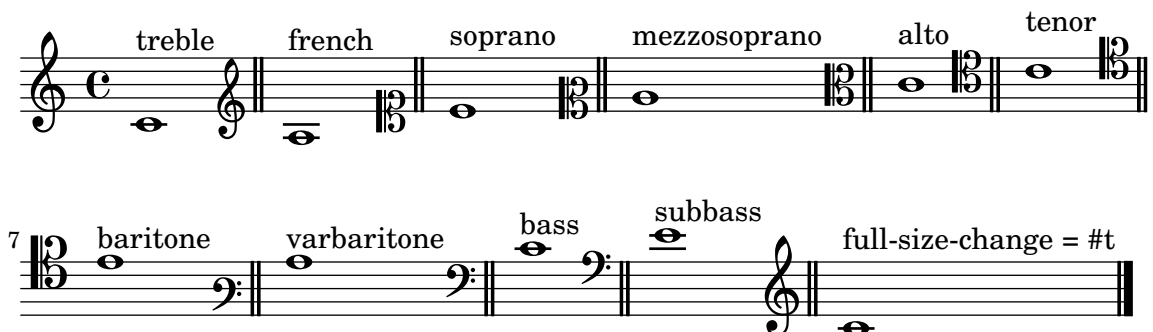
‘clef-ottava.ly’ Ottava brackets and clefs both modify Staff.middleCPosition, but they don’t confuse one another.



‘clef-warn.ly’ Unknown clef name warning displays available clefs



‘clefs.ly’ Clefs with full-size-change should be typeset in full size.



‘clip-systems.ly’ Clipping snippets from a finished score

Notes:

- If system starts and ends are included, they include extents of the System grob, eg. instrument names.
- Grace notes at the end point of the region are not included

- Regions can span multiple systems. In this case, multiple EPS files are generated.

This file needs to be run separately with `-dclip-systems`; the collated-files.html of the regression test does not adequately show the results.

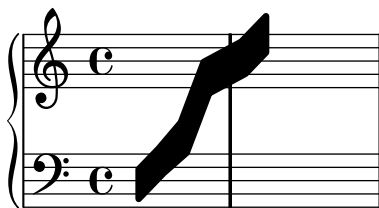
The result will be files named '`base-from-start-to-end[-count].eps`'.



`'cluster-break.ly'` Clusters behave well across line breaks.



`'cluster-cross-staff.ly'` Clusters can be written across staves.



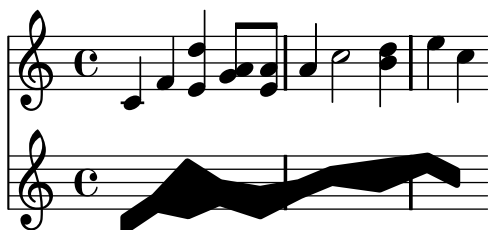
`'cluster-single-note.ly'` don't crash on single chord clusters.



`'cluster-style.ly'` Clusters behave well across line breaks.



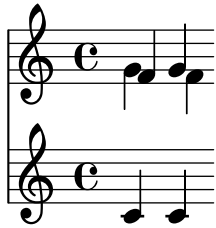
`'cluster.ly'` Clusters are a device to denote that a complete range of notes is to be played.



`'collision-2.ly'` Single head notes may collide.



`'collision-alignment.ly'` Notes in different staves should be aligned to the left-most note, in case of collisions.



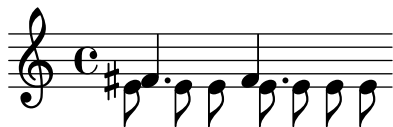
`'collision-dots-invert.ly'` When notes are colliding, the resolution depends on the dots: notes with dots should go to the right, if there could be confusion to which notes the dots belong.



`'collision-dots-move.ly'` If dotted note heads must remain on the left side, collision resolution moves the dots to the right.



`'collision-dots-up-space-dotted.ly'` For collisions where the upper note is dotted and in a space, the upper is moved to right. This behavior can be tuned by `prefer-dotted-right`.



`'collision-dots.ly'` Collision resolution tries to put notes with dots on the right side.



`'collision-harmonic-no-dots.ly'` Collision resolution involving dotted harmonic heads succeeds when dots are hidden since `rhythmic-head-interface` will only retrieve `'dot-count` from live grobs.



`'collision-head-chords.ly'` Note heads in collisions should be merged if they have the same positions in the extreme note heads.



`'collision-head-solfa-fa.ly'` The FA note (a triangle) is merged to avoid creating a block-shaped note.



`'collision-heads.ly'` Open and black note heads are not merged by default.



`'collision-manual.ly'` Collision resolution may be forced manually with `force-hshift`.



`'collision-merge-differently-dotted.ly'` If `NoteCollision` has `merge-differently-dotted = ##t` note heads that have differing dot counts may be merged anyway. Dots should not disappear when merging similar note heads.



`'collision-merge-differently-headed.ly'` If `merge-differently-headed` is enabled, then open note heads may be merged with black noteheads, but only if the black note heads are from 8th or shorter notes.



`'collision-merge-dots.ly'` When merging heads, the dots are merged too.



`'collision-mesh.ly'` Oppositely stemmed chords, meshing into each other, are resolved.



`'collision-seconds.ly'` Seconds do not confuse the collision algorithm too much. The best way to format this would be to merge the two Ds, but we will be happy for now if the upstem D does not collide with the downstem C.



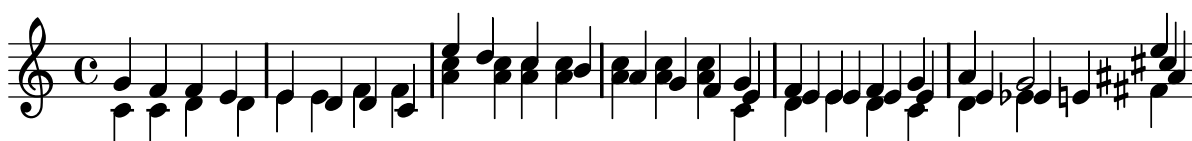


`'collision-whole.ly'` Mixed collisions with whole notes require asymmetric shifts.

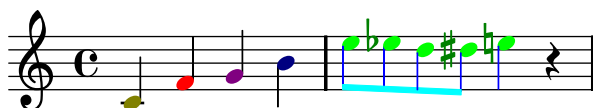


`'collisions.ly'`

In addition to normal collision rules, there is support for polyphony, where the collisions are avoided by shifting middle voices horizontally.



`'color.ly'` Each grob can have a color assigned to it. Use the `\override` and `\revert` expressions to set the color property.

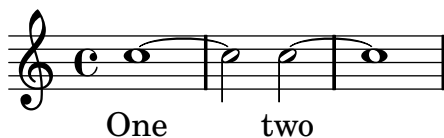


`'completion-heads-factor.ly'`

If the `Note_heads_engraver` is replaced by the `Completion_heads_engraver`, notes with a duration factor still keep their requested appearance.



`'completion-heads-lyrics.ly'` You can put lyrics under completion heads.



`'completion-heads-multiple-ties.ly'`

The `Completion_heads_engraver` correctly handles notes that need to be split into more than 2 parts.



`'completion-heads-polyphony-2.ly'`

Complex completion heads work properly in a polyphonic environment.



`'completion-heads-polyphony.ly'` Completion heads are broken across bar lines. This was intended as a debugging tool, but it can be used to ease music entry. Completion heads are not fooled by polyphony with a different rhythm.



`'completion-heads-tie.ly'` Completion heads will remember ties, so they are started on the last note of the split note.



`'completion-heads-tuplets.ly'`

Completion heads may be used with tuplets (and compressed music) too.



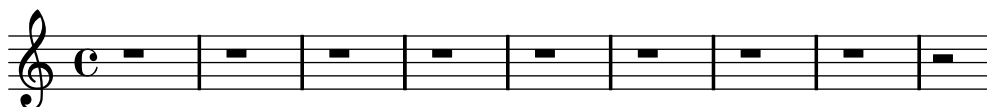
`'completion-heads.ly'`

If the `Note_heads_engraver` is replaced by the `Completion_heads_engraver`, notes that cross bar lines are split into tied notes.



`'completion-rest.ly'`

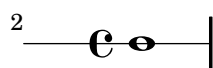
If the `Rest_engraver` is replaced by the `Completion_rest_engraver`, rests with a duration factor still keep their requested appearance.



`'compound-time-signatures.ly'` Create compound time signatures. The argument is a Scheme list of lists. Each list describes one fraction, with the last entry being the denominator, while the first entries describe the summands in the numerator. If the time signature consists of just one fraction, the list can be given directly, i.e. not as a list containing a single list. For example, a time signature of  $(3+1)/8 + 2/4$  would be created as `\compoundMeter #'((3 1 8) (2 4))`, and a time signature of  $(3+2)/8$  as `\compoundMeter #'((3 2 8))` or shorter `\compoundMeter #'(3 2 8)`.

[illegible]

'context-die-staff.ly' a staff should die if there is reference to it.

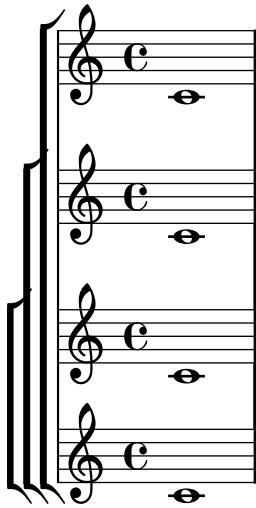


‘context-mod-context.ly’ Context modifications can be stored into a variable as a `\with` object. They can be later inserted directly into a context definition.



‘context-mod-with.ly’ Context modifications can be stored into a variable as a `\with` object. They can be later inserted into another `\with` block.

‘context-nested-staffgroup.ly’ Contexts of the same type can be nested.



‘cue-clef-begin-of-score.ly’ Clefs for cue notes at the start of a score should print the standard clef plus a small cue clef after the time/key signature.

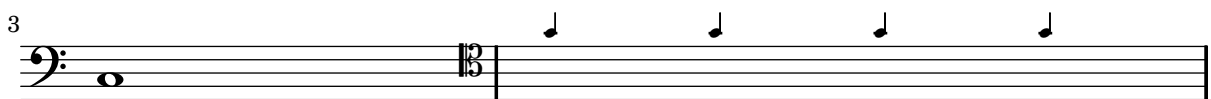
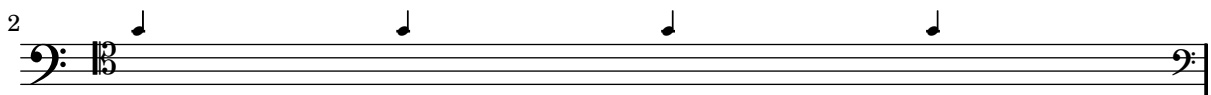
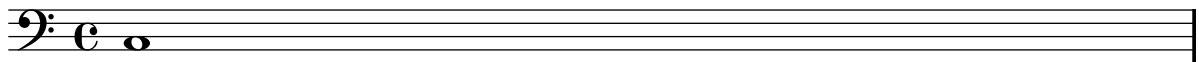


‘cue-clef-keysignature.ly’ Clefs for cue notes should not influence the printed key signature.



‘cue-clef-new-line.ly’ Clefs for cue notes and line breaks. If the cue notes start in a new line, the cue clef should not be printed at the end of the previous line. Similarly, an end clef for cue notes ending at a line break should only be printed at the end of the line.

Cue notes going over a line break should print the standard clef on the new line plus an additional cue clef after the time/key signature.



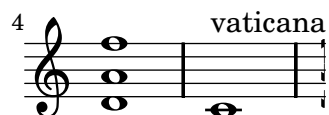
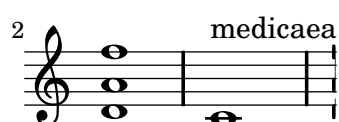
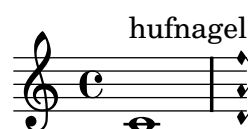
‘cue-clef-octavation.ly’ Octavation for clefs for cue notes.



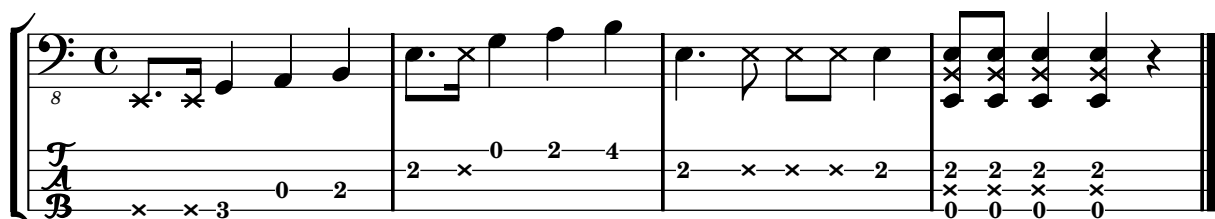
'cue-clef.ly' Clefs for cue notes: Print a cue clef at the begin of the cue notes and a cancelling clef after the cue notes.



'custos.ly' Custodes may be engraved in various styles.



'dead-notes.ly' Muted notes (also called dead notes) are supported within normal staves and tablature.



‘display-lily-tests.ly’ This is a test of the display-lily-music unit. Problems are reported on the stderr of this run.

‘dot-column-note-collision.ly’ Dots and note-heads should not collide.



‘dot-column-rest-collision.ly’ Dot columns do not trigger beam slanting too early.



‘dot-dot-count-override.ly’ The dot-count property for Dots can be modified by the user.



‘dot-flag-collision.ly’ Dots move to the right when a collision with the (up)flag happens.



‘dot-rest-beam-trigger.ly’ Dotted rests connected with beams do not trigger premature beam calculations. In this case, the beam should be sloped, and there should be no programming\_error() warnings.



‘dot-rest-horizontal-spacing.ly’ The dots on a dotted rest are correctly accounted for in horizontal spacing.



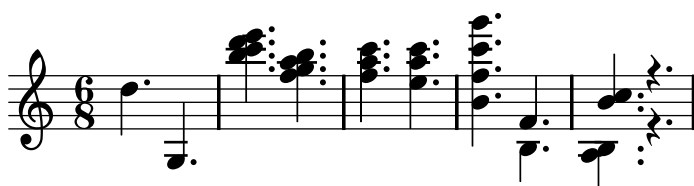
‘dot-up-voice-collision.ly’ in collisions, the stems of outer voice are added to the dot support of the inner voices.



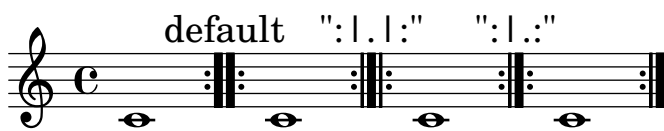
‘dots.ly’ Both noteheads and rests can have dots. Augmentation dots should never be printed on a staff line, but rather be shifted vertically. They should go up, but in case of multiple parts, the down stems have down shifted dots. In case of chords, all dots should be in a column. The dots follow the shift of rests when avoiding collisions.

The priorities to print the dots are (ranked in importance):

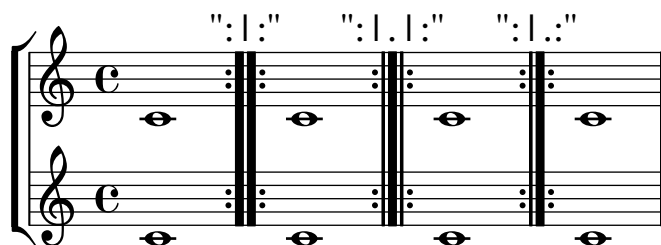
- keeping dots off staff lines,
- keeping dots close to their note heads,
- moving dots in the direction specified by the voice,
- moving dots up.



‘double-repeat-default-volta.ly’ For volte, the style of double repeats can be set using doubleRepeatType.



‘double-repeat.ly’ Three types of double repeat bar line are supported.



‘drums.ly’ In drum notation, there is a special clef symbol, drums are placed to their own staff positions and have note heads according to the drum, an extra symbol may be attached to the drum, and the number of lines may be restricted.

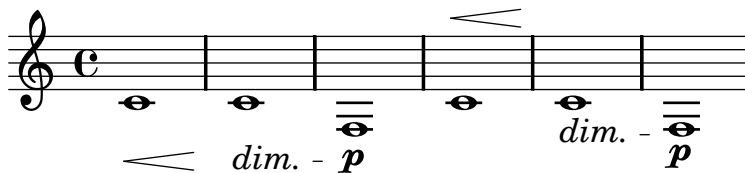




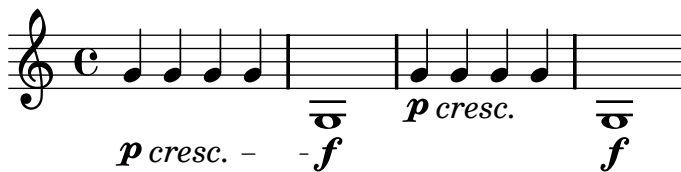
‘duration-identifier-compressed.ly’ The compression factor of a duration identifier is correctly accounted for by the parser.



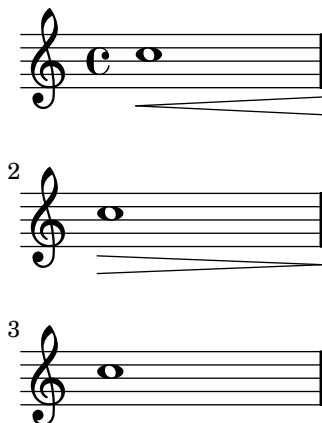
‘dynamics-alignment-breaker.ly’ Hairpins, DynamicTextSpanners and dynamics can be positioned independently using `\breakDynamicSpan`, which causes the alignment spanner to end prematurely.



‘dynamics-alignment-no-line.ly’ If the line for a DynamicTextSpanner is hidden, the alignment spanner for dynamics is ended early. This allows consecutive dynamics to be unlinked.



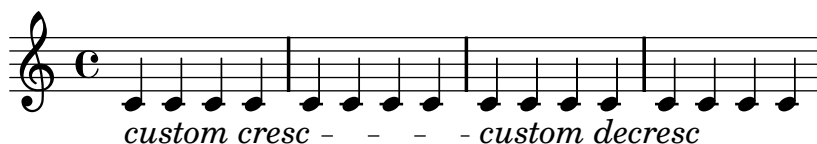
‘dynamics-broken-hairpin.ly’ Broken crescendi should be open on one side.



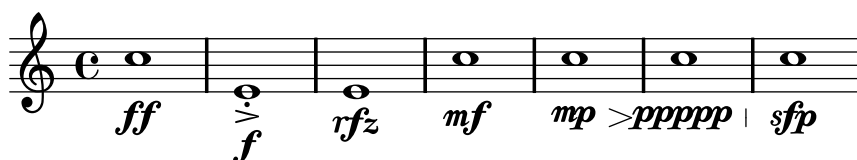
‘dynamics-context-textspan.ly’ Text spanners work in the Dynamics context.



‘dynamics-custom-text-spanner-postfix.ly’ Postfix functions for custom crescendo text spanners. The spanners should start on the first note of the measure. One has to use `-\mycresc`, otherwise the spanner start will rather be assigned to the next note.



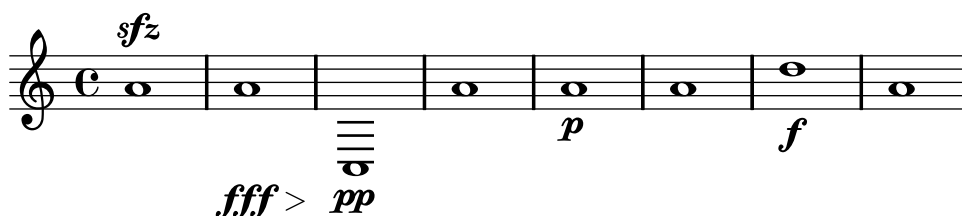
‘dynamics-glyphs.ly’ Dynamic letters are kerned, and their weight matches that of the hairpin signs. The dynamic scripts should be horizontally centered on the note head. Scripts that should appear closer to the note head (staccato, accent) are reckoned with.



‘dynamics-hairpin-length.ly’ Hairpins extend to the extremes of the bound if there is no adjacent hairpin or dynamic-text. If there is, the hairpin extends to the center of the column or the bound of the text respectively.



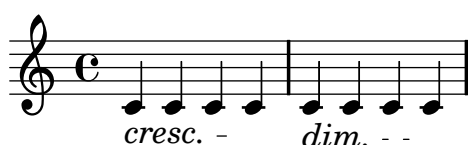
‘dynamics-line.ly’ Dynamics appear below or above the staff. If multiple dynamics are linked with (de)crescendi, they should be on the same line. Isolated dynamics may be forced up or down.



‘dynamics-rest-positioning.ly’ Text dynamics are positioned correctly on rests, i.e., centered on the parent object.



‘dynamics-text-left-text-alignment.ly’ The left text of a DynamicTextSpanner is left-aligned to its anchor note.



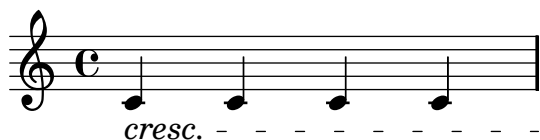
‘dynamics-text-right-padding.ly’ The space between an absolute dynamic and a dynamic text span can be changed using ‘right-padding’.



‘dynamics-text-spanner-abs-dynamic.ly’ left attach dir for text crescendi starting on an absolute dynamic is changed, so cresc. and the absolute dynamic don’t overstrike.



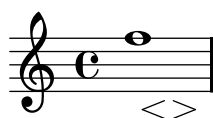
‘dynamics-text-spanner-padding.ly’ The 2nd half of the cresc. stays at a reasonable distance from the notes.



‘dynamics-text-spanner-postfix.ly’ The \cresc, \dim and \decresc spanners are now postfix operators and produce one text spanner. Defining custom spanners is also easy. Hairpin and text crescendi can be easily mixed. \< and \> produce hairpins by default, \cresc etc. produce text spanners by default.

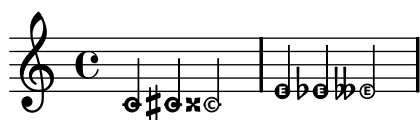


‘dynamics-unbound-hairpin.ly’ Crescendi may start off-notes, however, they should not collapse into flat lines.

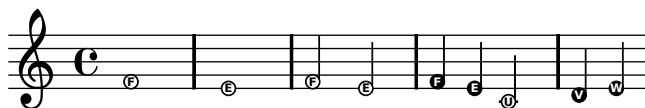


‘easy-notation-accidentals.ly’

Accidentals are positioned correctly when using Easy notation.



‘easy-notation.ly’ Easy-notation (or Ez-notation) prints names in note heads. You also get ledger lines, of course.

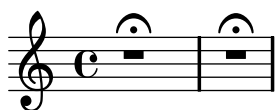


‘episema.ly’ An episema can be typeset over a single neume or a melisma. Its position is quantized between staff lines.



‘fermata-rest-position.ly’

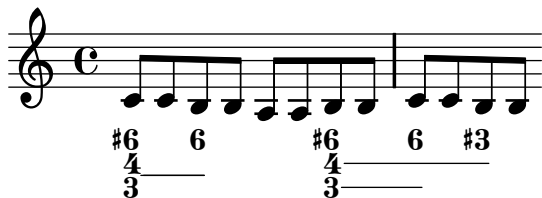
Fermatas over multimeasure rests are positioned as over normal rests.



‘figured-bass-alteration.ly’ Bass figures can carry alterations.



‘figured-bass-continuation-center.ly’ Pairs of congruent figured bass extender lines are vertically centered if `figuredBassCenterContinuations` is set to true.



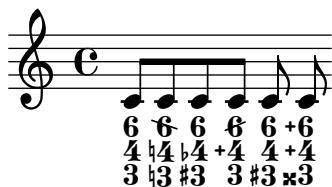
‘figured-bass-continuation-end-position.ly’ Figured bass extender for figures of different width (e.g. with alteration or two-digit figures) should still stop at the same position.



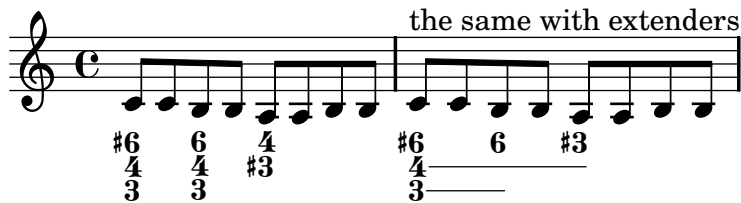
‘figured-bass-continuation-forbid.ly’ By adorning a bass figure with `\!`, an extender may be forbidden.



‘figured-bass-continuation-modifiers.ly’ Figured bass extender lines shall be broken when a figure has a different alteration, augmentation or diminishment.



‘figured-bass-continuation.ly’ Figured bass extender lines run between repeated bass figures. They are switched on with `useBassFigureExtenders`

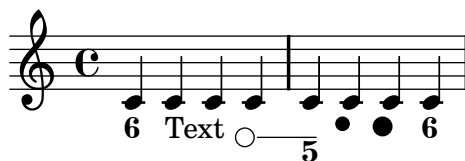


‘figured-bass-durations.ly’ Bass figures and extenders shall also work correctly if the figure has a different duration than the bass note. In particular, if a timestep does not have a new figure (because the old figure still goes on), extenders should be drawn and not be reset.



‘figured-bass-extenders-markup.ly’ When using extender lines in FiguredBass, markup objects should be treated like ordinary figures and work correctly with extender lines.

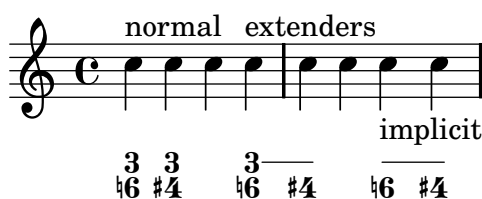
Extenders should only be used if the markup is really identical.



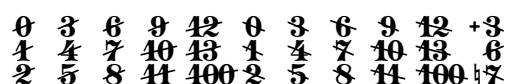
‘figured-bass-ignore-rest.ly’ When figures appear inside a voice, `ignoreFiguredBassRest` causes all figures on rests to be discarded and all spanners ended. If set to `##f`, figures on rests are printed.



‘figured-bass-implicit.ly’ Implicit bass figures are not printed, but they do get extenders.

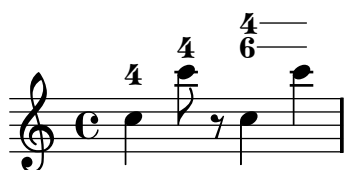


‘figured-bass-slashed-numbers.ly’ Figured bass supports numbers with slashes through them.



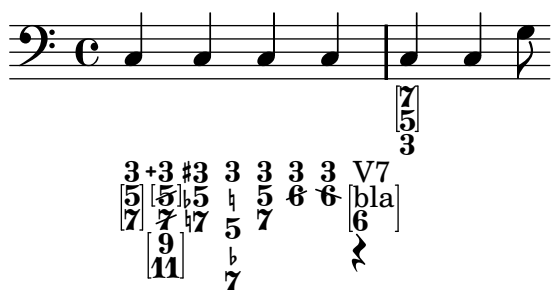
‘figured-bass-staff.ly’ Figured bass can also be added to Staff context directly. In that case, the figures must be entered with `\figuremode` and be directed to an existing `Staff` context.

Since these engravers are on **Staff** level, properties controlling figured bass should be set in **Staff** context.



‘figured-bass.ly’ Figured bass is created by the FiguredBass context which responds to figured bass events and rest events. You must enter these using the special `\figuremode { }` mode, which allows you to type numbers, like `<4 6+>` and add slashes, backslashes and pluses.

You can also enter markup strings. The vertical alignment may also be tuned.



‘fill-line-test.ly’ The fill-line markup command should align texts in columns. For example, the characters in the center should form one column.

[illegible]

‘filter-translators.ly’ Context modification via \with filters translators of the wrong type: performers for an `Engraver_group` and engravers for a `Performer_group`. In this test, the `Instrument_name_engraver` is added to a `StaffGroup`, but does not affect midi output, since it is filtered out.



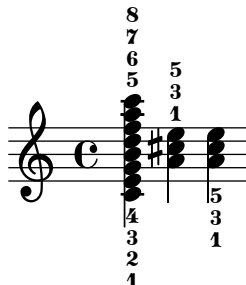
‘finger-chords-accidental.ly’ Scripts left of a chord avoid accidentals.



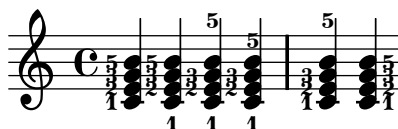
‘finger-chords-dot.ly’ Scripts right of a chord avoid dots.



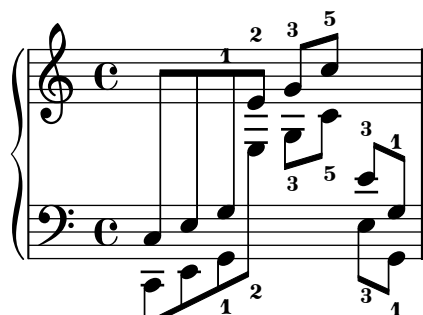
‘finger-chords-order.ly’ Ordering of the fingerings depends on vertical ordering of the notes, and is independent of up/down direction.



‘finger-chords.ly’ It is possible to associate fingerings uniquely with notes. This makes it possible to add horizontal fingerings to notes.

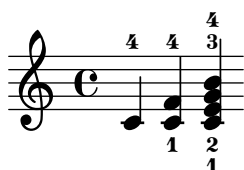


‘fingering-cross-staff.ly’ Fingerings work correctly with cross-staff beams.





`'fingering.ly'` Automatic fingering tries to put fingering instructions next to noteheads.



`'flags-default.ly'` Default flag styles: `'()`, `'mensural` and `'no-flag`. Compare all three methods to print them: (1) C++ default implementation, (2) Scheme implementation using the `'flag-style` grob property and (3) setting the `'flag` property explicitly to the desired Scheme function. All three systems should be absolutely identical.

Default flags (C++)	Symbol: 'mensural (C++)	Symbol: 'no-flag (C++)
Default flags (Scheme)	Symbol: 'mensural (Scheme)	Symbol: 'no-flag (Scheme)
Function: normal-flag	Function: mensural-flag	Function: no-flag

`'flags-in-scheme.ly'` The `'flag` property of the Stem grob can be set to a custom scheme function to generate the glyph for the flag.

Function: weight-flag (custom)	Function: inverted-flag (custom)
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`'flags-straight-stockhausen-boulez.ly'` Flags can be drawn straight in the style used by Stockhausen and Boulez.

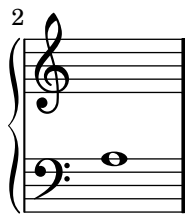
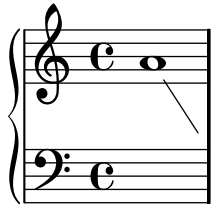


`'flags-straight.ly'` Straight flag styles.

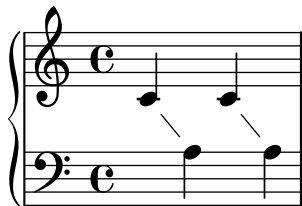
modern straight	old straight (large angles)
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`'follow-voice-break.ly'`

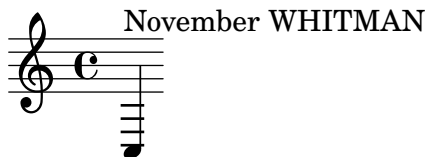
The line-spanners connects to the Y position of the note on the next line. When put across line breaks, only the part before the line break is printed.



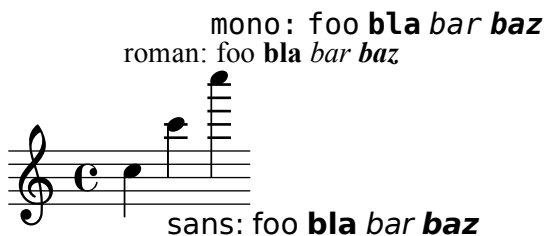
‘follow-voice-consecutive.ly’ The voice follower is not confused when set for consecutive sets of staff switches.



‘font-bogus-ligature.ly’ TM and No should not be changed into trademark/number symbols. This may happen with incorrect font versions.



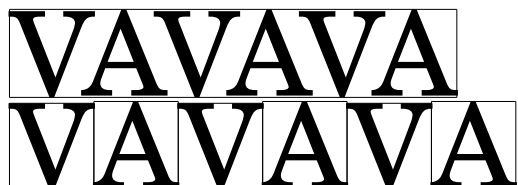
‘font-family-override.ly’ The default font families for text can be overridden with make-pango-font-tree



‘font-kern.ly’ Text set in TrueType Fonts that contain kerning tables, are kerned.

With kerning:

Without kerning:



`'font-name-font-size.ly'`

Setting the `font-name` property does not change the font size. The two strings below should be concatenated and have the same font size.

Note that 'the same font size' is related to what lilypond reports on the console if in verbose mode (3.865234375 units for this regression test). If you actually look at the two fonts the optical size differs enormously.

`pfs`*m<sub>pf</sub>sm*

`'font-name.ly'` Other fonts can be used by setting `font-name` for the appropriate object. The string should be a Pango font description without size specification.

Rest in LuxiMono

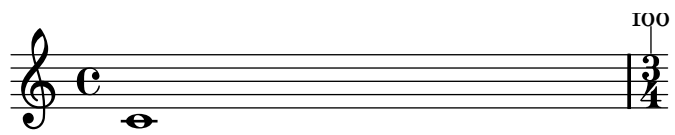


**This text is in large Vera Bold**

`'font-postscript.ly'` This file demonstrates how to load different (postscript) fonts. The file `'font.scm'` shows how to define the scheme-function `make-century-schoolbook-tree`.

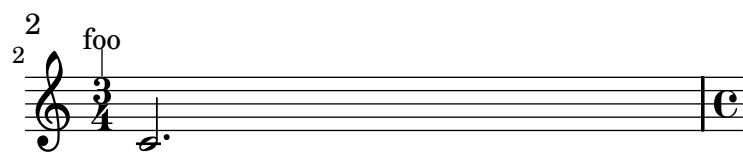


`'footnote-break-visibility.ly'` With grobs that have break visibility, footnotes will automatically print to the first line of the break. This behavior can be overridden.



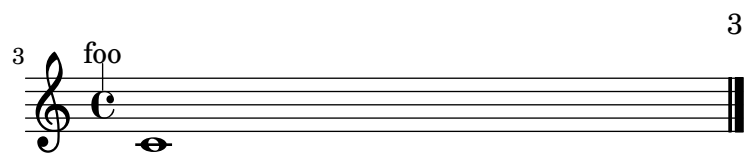
bar





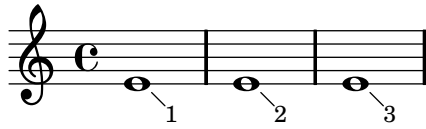
bar





bar  
Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘footnote-footer-padding.ly’ The padding between a footnote and the footer can be tweaked.



- 
1. Tiny space below.
  2. Tiny space below.
  3. Big space below.

Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)



1. Goes to the first broken spanner.

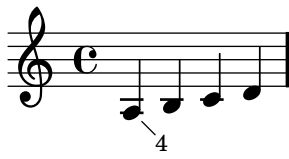






2. Goes to the last broken spanner.  
Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

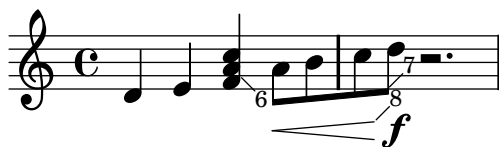
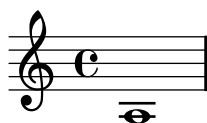
a<sup>1</sup> b<sup>2</sup> d<sup>3</sup> f<sup>3</sup>  
h i



1. c
2. e
3. g
4. j



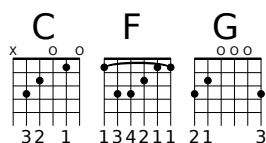
2  
kl<sup>5</sup>



5. m  
6. n  
7. o  
8. p

Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘fret-board-alignment.ly’ FretBoards should be aligned in the Y direction at the fret-zero, string 1 intersection.



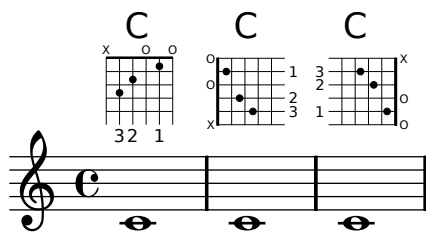
‘fret-boards.ly’ Frets can be assigned automatically. The results will be best when one string number is indicated in advance

autofrets



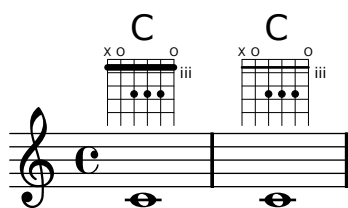
‘fret-diagram-origins.ly’

Fret diagrams of different orientation should share a common origin of the topmost fret or string.



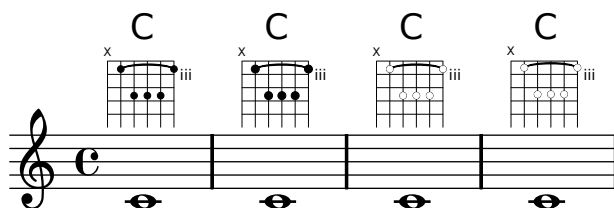
`'fret-diagrams-capo.ly'`

A capo indicator can be added with a fret-diagram-verbose string, and its thickness can be changed.



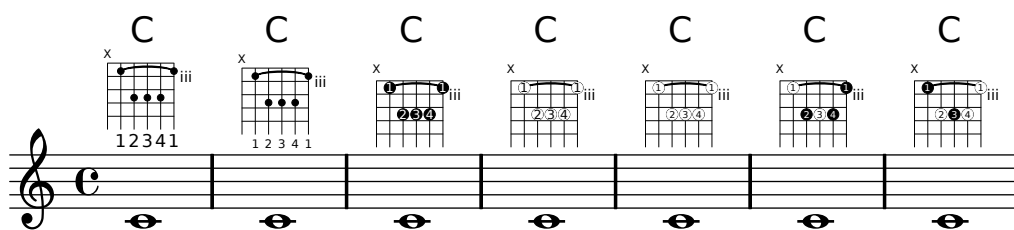
`'fret-diagrams-dots.ly'`

Dots indicating fingerings can be changed in location, size, and coloring.



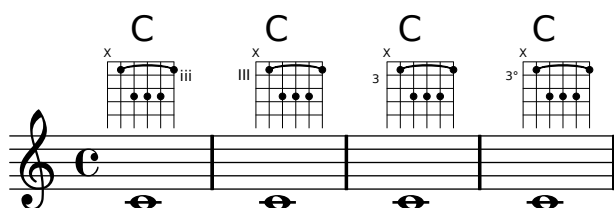
`'fret-diagrams-fingering.ly'`

Finger labels can be added, either in dots or below strings. Dot color can be changed globally or on a per-dot basis, and fingering label font size can be adjusted.



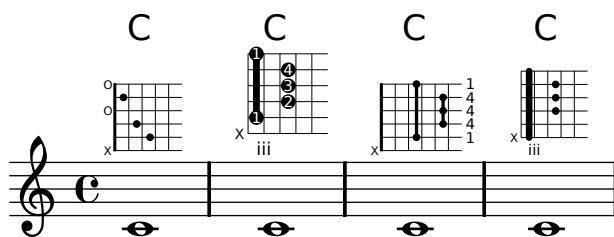
`'fret-diagrams-fret-label.ly'`

The label for the lowest fret can be changed in location, size, and number type.



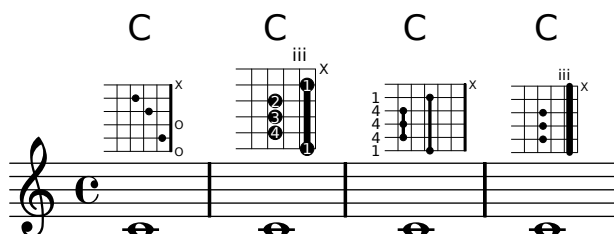
`'fret-diagrams-landscape.ly'`

Fret diagrams can be presented in landscape mode.



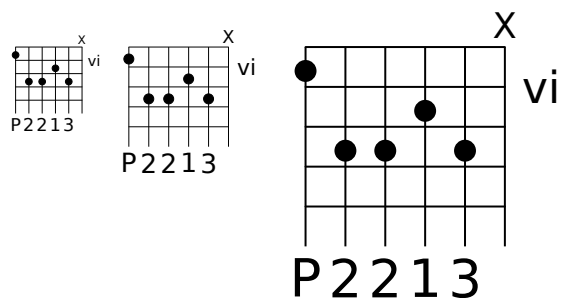
‘fret-diagrams-opposing-landscape.ly’

Fret diagrams can be presented in landscape mode.



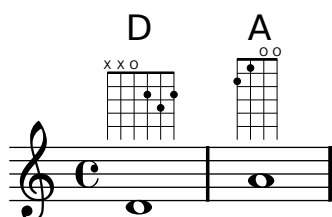
‘fret-diagrams-size.ly’

Fret diagrams can be scaled using the **size** property. The position and size of first fret label, mute/open signs, fingers, relative to the diagram grid, shall be the same in all cases.



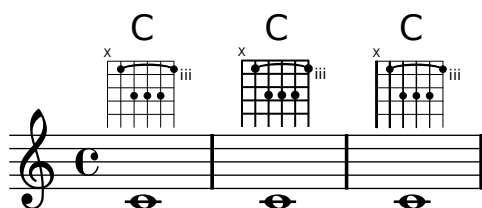
‘fret-diagrams-string-frets.ly’

Number of frets and number of strings can be changed from the defaults.



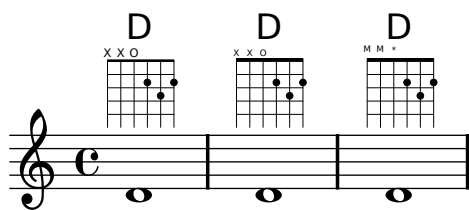
‘fret-diagrams-string-thickness.ly’

String thickness can be changed, and diagrams can have variable string thickness.



‘fret-diagrams-xo-label.ly’

The size, spacing, and symbols used to indicate open and muted strings can be changed.



‘fretboard-chordchanges.ly’ FretBoards can be set to display only when the chord changes or at the beginning of a new line.

‘full-measure-rest-fermata.ly’

Fermata over full-measure rests should invert when below and be closer to the staff than other articulations.

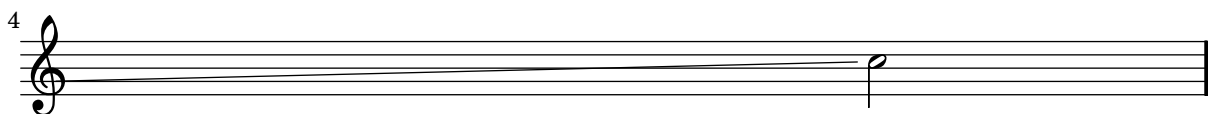
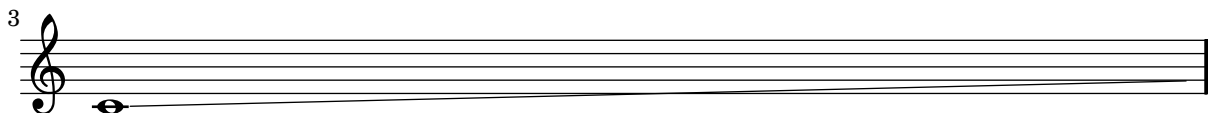
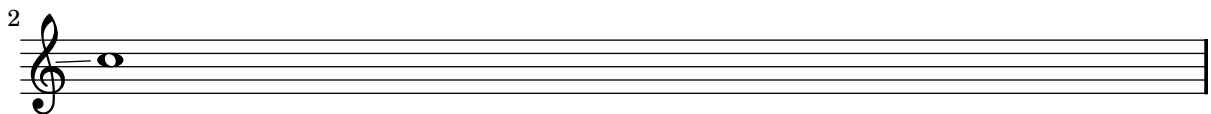
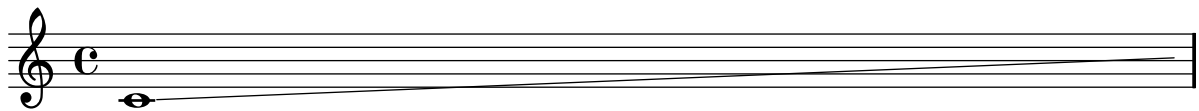
‘general-scheme-bindings.ly’ This file tests various Scheme utility functions.

‘generic-output-property.ly’

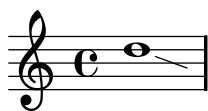
As a last resort, the placement of grobs can be adjusted manually, by setting the **extra-offset** of a grob.



‘glissando-broken-unkilled.ly’ Broken glissandi anticipate the pitch on the next line.



‘glissando-broken.ly’ If broken, Glissandi anticipate on the pitch of the next line.

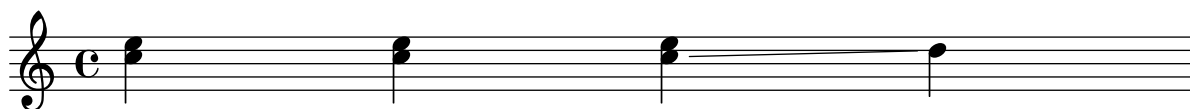




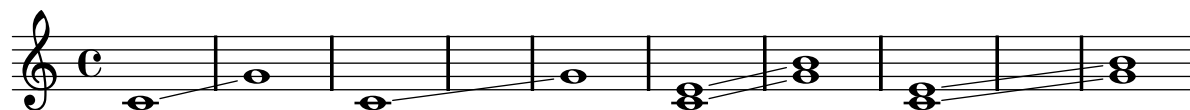


`'glissando-chord-linebreak.ly'`

A glissando between chords should not interfere with line breaks. In this case, the music should be in two lines and there should be no warning messages issued. Also, the glissando should be printed.



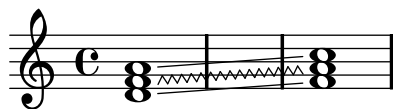
`'glissando-chord.ly'` LilyPond typesets glissandi between chords.



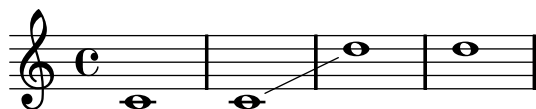
`'glissando-consecutive.ly'` Lilypond prints consecutive glissandi.



`'glissando-index.ly'` Individual glissandi within a chord can be tweaked.



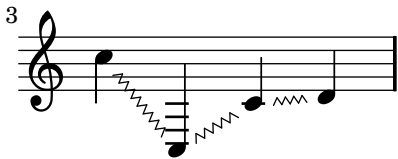
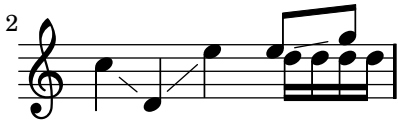
`'glissando-no-break.ly'` Glissandi are not broken. Here a `\break` is ineffective. Use `breakable` grob property to override.



`'glissando.ly'` Between notes, there may be simple glissando lines. Here, the first two glissandi are not consecutive.

The engraver does no time-keeping, so it involves some trickery to get `<< { s8 s8 s4 } { c4 \gliss d4 } >>` working correctly.

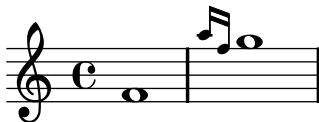




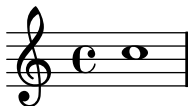
`'grace-auto-beam.ly'` The autobeamer is not confused by grace notes.



`'grace-bar-line.ly'` Bar line should come before the grace note.



`'grace-bar-number.ly'` Grace notes do tricky things with timing. If a measure starts with a grace note, the measure does not start at 0, but earlier. Nevertheless, Lily should not get confused. For example, line breaks should be possible at grace notes, and the bar number should be printed correctly.



`'grace-beam.ly'` Grace beams and normal beams may occur simultaneously. Unbeamed grace notes are not put into normal beams.



`'grace-direction-polyphony.ly'` The `\voiceOne` setting is retained after finishing the grace section.



`'grace-end-2.ly'` Grace notes at the end of an expression don't cause crashes.



‘grace-end.ly’ Grace notes after the last note do not confuse the timing code.



‘grace-nest1.ly’ Grace code should not be confused by nested sequential music containing grace notes; practically speaking, this means that the end-bar and measure bar coincide in this example.



‘grace-nest2.ly’ Grace code should not be confused by nested sequential music containing grace notes; practically speaking, this means that the end-bar and measure bar coincide in this example.



‘grace-nest3.ly’ In nested syntax, graces are still properly handled.



‘grace-nest4.ly’ Also in the nested syntax here, grace notes appear rightly.



‘grace-nest5.ly’ Graces notes may have the same duration as the main note.



‘grace-part-combine.ly’ Grace notes may be put in a partcombiner.



‘grace-partial.ly’ A `\partial` may be combined with a `\grace`.



‘grace-staff-length.ly’ Stripped version of trip.ly. Staves should be of correct length.



‘grace-start.ly’ Pieces may begin with grace notes.



‘grace-stem-length.ly’ Stem lengths for grace notes should be shorter than normal notes, if possible. They should never be longer, even if that would lead to beam quanting problems.



‘grace-stems.ly’ Here startGraceMusic should set no-stem-extend to true; the two grace beams should be the same here.



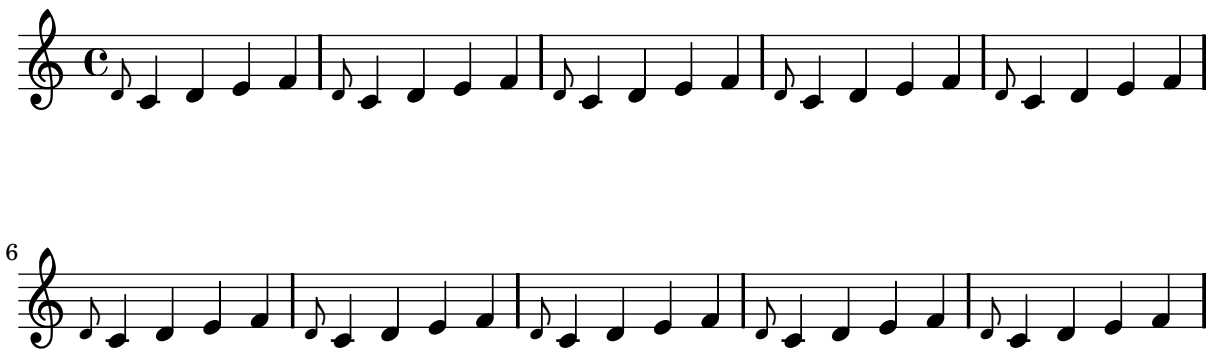
‘grace-sync.ly’ Grace notes in different voices/staves are synchronized.



‘grace-types.ly’ There are three different kinds of grace types: the base grace switches to smaller type, the appoggiatura inserts also a slur, and the acciaccatura inserts a slur and slashes the stem.

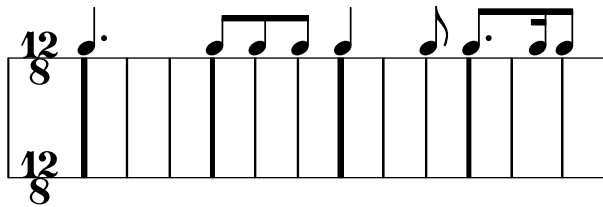


‘`grace-unfold-repeat.ly`’ When grace notes are entered with unfolded repeats, line breaks take place before grace notes.

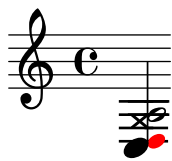




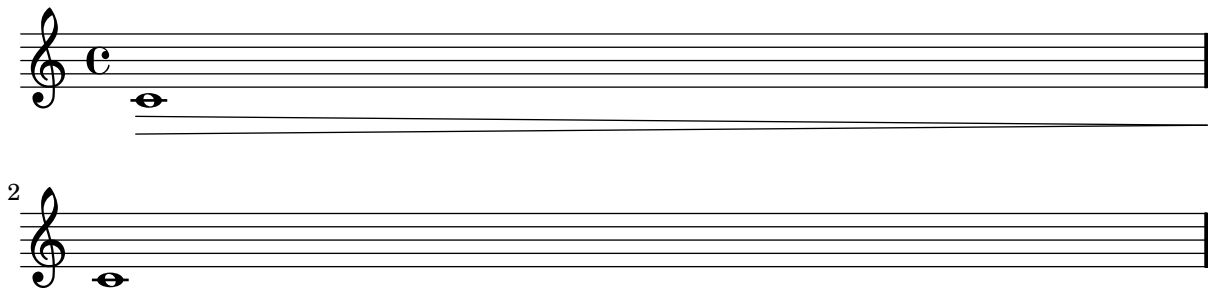
‘grid-lines.ly’ With grid lines, vertical lines can be drawn between staves synchronized with the notes.



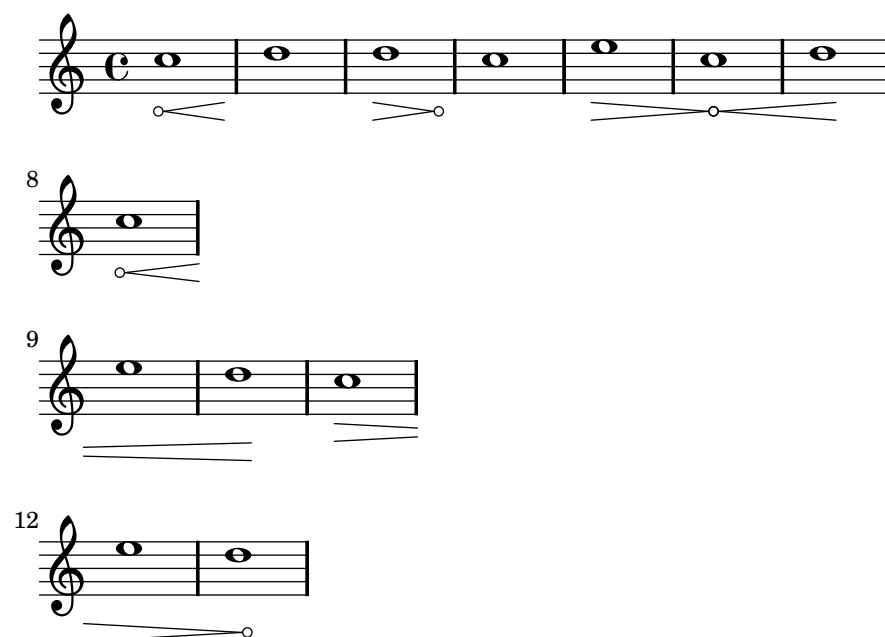
‘grob-tweak.ly’ With the `\tweak` function, individual grobs that are directly caused by events may be tuned directly.



‘hairpin-barline-break.ly’ If a hairpin ends on the first note of a new stave, we do not print that ending. But on the previous line, this hairpin should not be left open, and should end at the bar line.



‘hairpin-circled.ly’ Hairpins can have circled tips. A decrescendo del niente followed by a crescendo al niente should only print one circle.



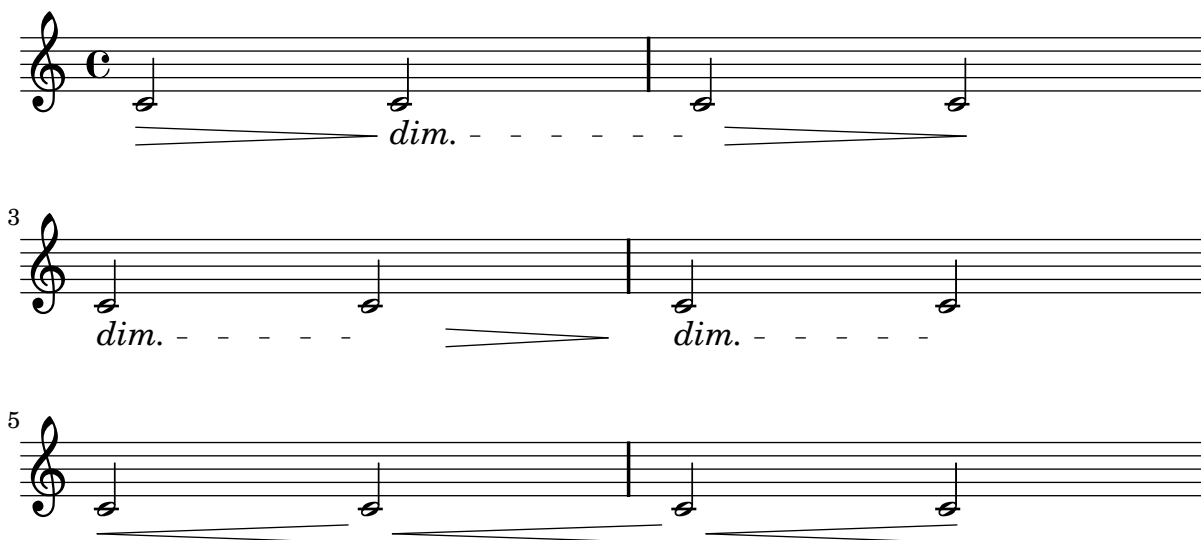
`'hairpin-dashed.ly'` Hairpin crescendi may be dashed.



`'hairpin-ending.ly'` Hairpin dynamics start under notes if there are no text-dynamics. If there are text dynamics, the hairpin does not run into them.



`'hairpin-neighboring-span-dynamics.ly'` Bound padding for hairpins also works with neighboring `DynamicTextSpanner` grobs. In this case, `bound-padding` is not scaled down.



`'hairpin-to-barline-mark.ly'` 'to-barline is not confused by very long marks.



`'hairpin-to-barline.ly'` Hairpins whose end note is preceded by a bar line should end at that bar line.

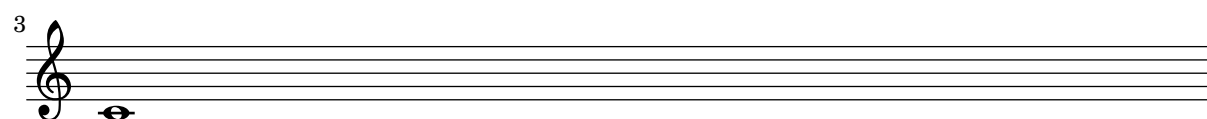
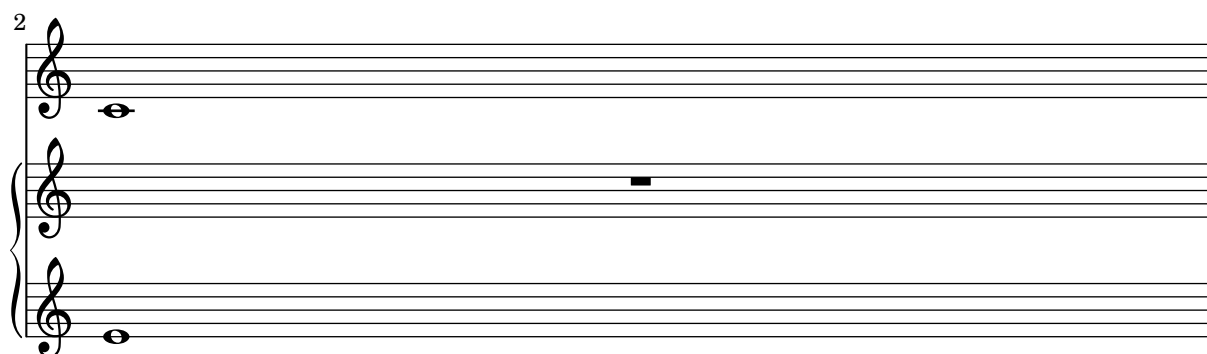
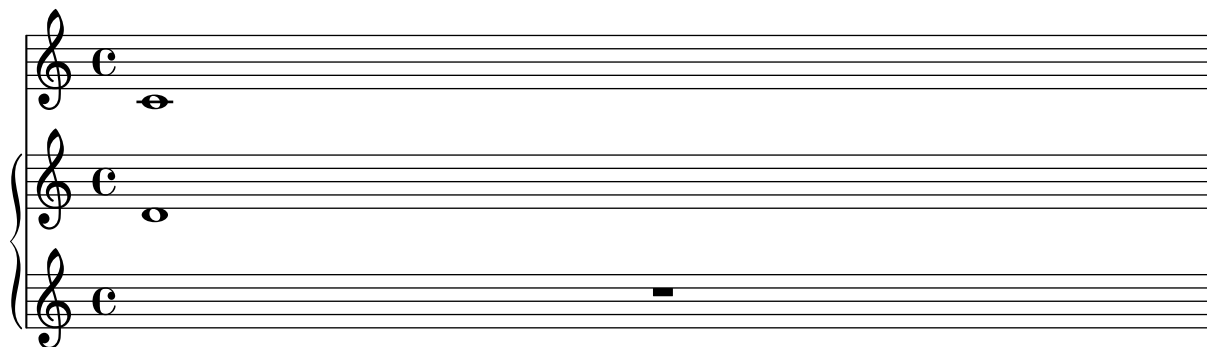


`'hairpin-to-rest.ly'` Hairpins end at the left edge of a rest.



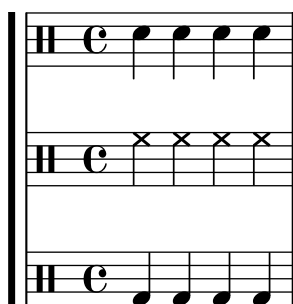


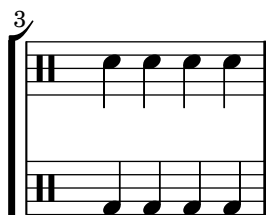
'hara-kiri-alive-with.ly' Staves in a PianoStaff remain alive as long as any of the staves has something interesting.



'hara-kiri-drumstaff.ly' Hara-kiri staves are suppressed if they are empty. This example really contains three drum staves, but as it progresses, empty ones are removed: this example has three staves, but some of them disappear: note how the 2nd line only has the bar number 2. (That the bar number is printed might be considered a bug, however, the scenario of all staves disappearing does not happen in practice.)

Any staff brackets and braces are removed, both in the single staff and no staff case.





‘hara-kiri-keep-previous-settings.ly’ Inserting the harakiri settings globally into the Staff context should not erase previous settings to the Staff context.

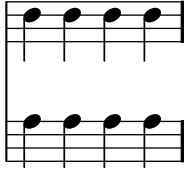


2



2

3



4



‘hara-kiri-percent-repeat.ly’ Staves, RhythmicStaves, TabStaves and DrumStaves with percent repeats are not suppressed.

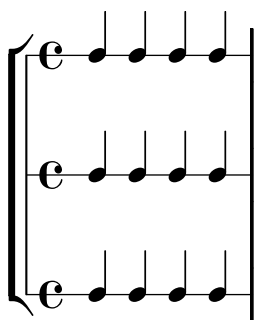
A system of five staves. The top staff is a treble clef with a common time signature 'C' and a whole note. The second staff is a treble clef with a common time signature 'C' and a whole note. The third staff is a bass clef with a common time signature 'C' and a whole note. The fourth staff is a bass clef with a common time signature 'C' and a whole note. The fifth staff is a bass clef with a common time signature 'C' and a whole note. In the second and third bars, the second, third, fourth, and fifth staves contain a percent repeat symbol (%).

3

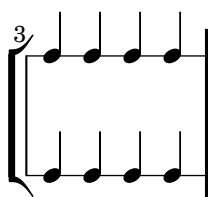
A system of five staves. The top staff is a treble clef with a common time signature 'C' and a whole note. The second staff is a treble clef with a common time signature 'C' and a whole note. The third staff is a bass clef with a common time signature 'C' and a whole note. The fourth staff is a bass clef with a common time signature 'C' and a whole note. The fifth staff is a bass clef with a common time signature 'C' and a whole note. In the second and third bars, the second, third, fourth, and fifth staves contain a percent repeat symbol (%).

‘hara-kiri-rhythmicstaff.ly’ Hara-kiri staves are suppressed if they are empty. This example really contains three rhythmic staves, but as it progresses, empty ones are removed: this example has three staves, but some of them disappear: note how the 2nd line only has the bar number 2. (That the bar number is printed might be considered a bug, however, the scenario of all staves disappearing does not happen in practice.)

Any staff brackets and braces are removed, both in the single staff and no staff case.



2

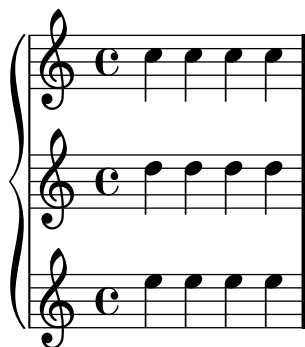


4

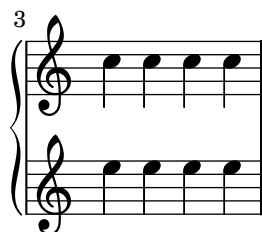


'hara-kiri-staff.ly' Hara-kiri staves kill themselves if they are empty. This example really contains three staves, but as they progress, empty ones are removed: this example has three staves, but some of them disappear: note how the 2nd line only has the bar number 2. (That the bar number is printed might be considered a bug, however, the scenario of all staves disappearing does not happen in practice.)

Any staff brackets and braces are removed, both in the single staff and no staff case.



2



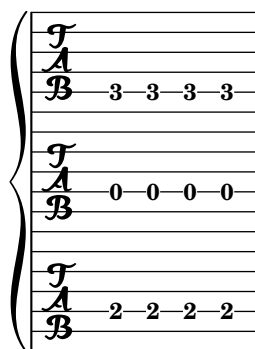
4



‘hara-kiri-stanza-number.ly’ stanza numbers remain, even on otherwise empty lyrics lines.

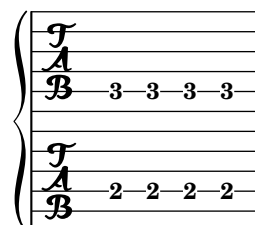


‘hara-kiri-tabstaff.ly’ Hara-kiri staves are suppressed if they are empty. This example really contains three tab staves, but as it progresses, empty ones are removed: this example has three staves, but some of them disappear: note how the 2nd line only has the bar number 2. (That the bar number is printed might be considered a bug, however, the scenario of all staves disappearing does not happen in practice.)

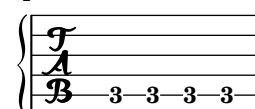


2

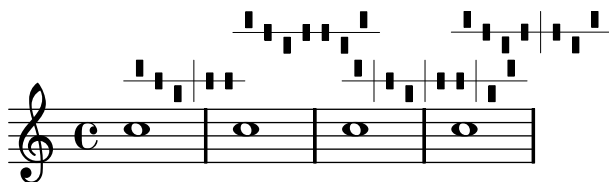
3



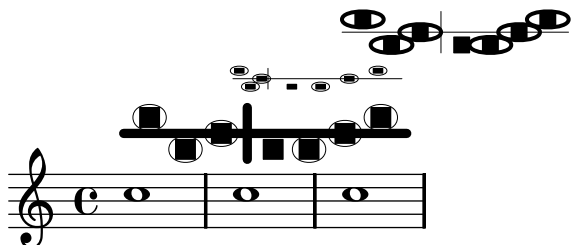
4



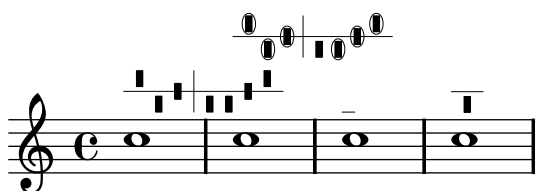
‘harp-pedals-sanity-checks.ly’ The harp-pedal markup function does some sanity checks. All the diagrams here violate the standard (7 pedals with divider after third), so a warning is printed out, but they should still look okay.



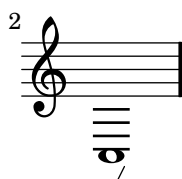
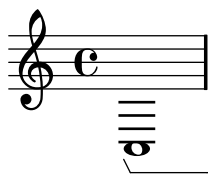
‘harp-pedals-tweaking.ly’ Harp pedals can be tweaked through the size, thickness and harp-pedal-details properties of TextScript.



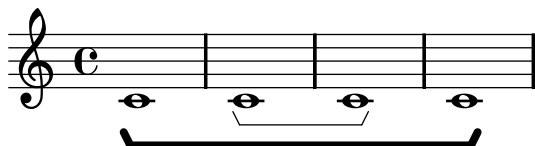
‘harp-pedals.ly’ Basic harp diagram functionality, including circled pedal boxes. The third diagram uses an empty string, the third contains invalid characters. Both cases will create warnings, but should still not fail with an error.



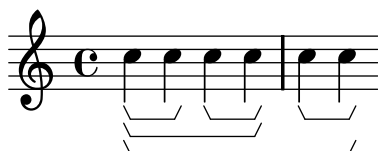
‘horizontal-bracket-break.ly’ Horizontal brackets connect over line breaks.



‘horizontal-bracket-tweak.ly’ Horizontal brackets are created with the correct event-cause, ensuring tweaks are applied to the correct spanner.



‘horizontal-bracket.ly’ Note grouping events are used to indicate where analysis brackets start and end.



`‘identifier-following-chordmode.ly’` Identifiers following a chordmode section are not interpreted as chordmode tokens. In the following snippet, the identifier ‘m’ is not interpreted by the lexer as a minor chord modifier.



`‘identifiers.ly’` test identifiers.





‘incipit.ly’ Incipits can be printed using an `InstrumentName` grob.

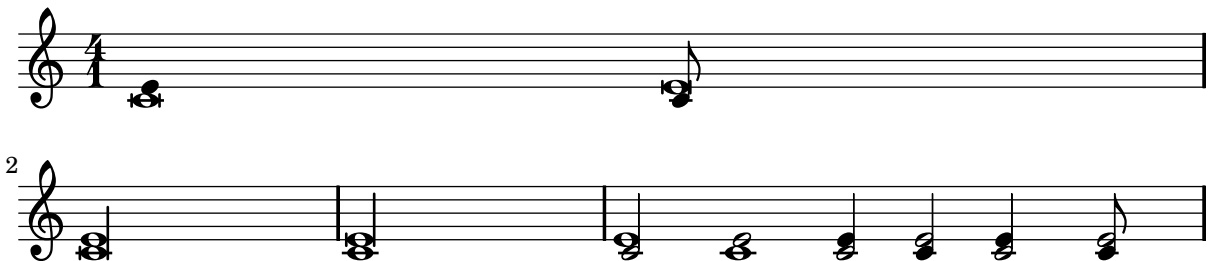


'include-string.ly' ly:parser-include-string should include the current string like a file \include.

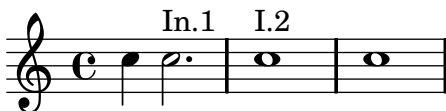


`'incompatible-stem-warning.ly'`

Combine several kinds of stems in parallel voices.

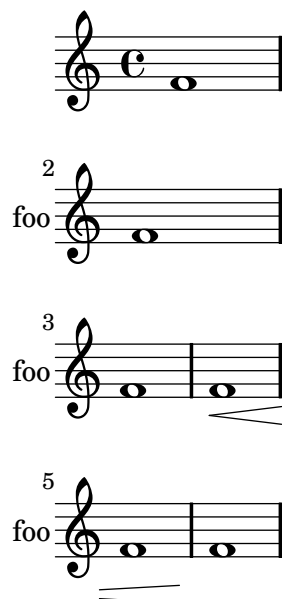


`'instrument-cue-name.ly'` The `Voice.instrumentCueName` property generates instrument names for cue notes. It can also be unset properly.



```
'instrument-name-dynamic.ly'
```

Instrument names (aligned on axis group spanners) ignore dynamic and pedal line spanners.



`'instrument-name-groups.ly'`

Instrument names can also be attached to staff groups.

The diagram illustrates different ways to group musical staves. It features a vertical sequence of staves with various groupings and labels to their left:

- PianoStaff**: A brace groups two staves, labeled 'Right' (treble clef) and 'Left' (bass clef).
- ChoirStaff**: A brace groups three staves, all with treble clefs.
- StaffGroup**: A brace groups two staves, both with treble clefs.
- GrandStaff**: A brace groups two staves, labeled 'I' (treble clef) and 'II' (bass clef).
- nested group**: A brace groups three staves, all with treble clefs.

`'instrument-name-hara-kiri.ly'` Instrument names are removed when the staves are killed off.

In this example, the second staff (marked by the bar number 2) disappears, as does the instrument name.

The diagram shows a single musical staff with a treble clef and a common time signature (C). The word "up" is written to the left of the staff. The staff is empty except for a small black oval at the bottom line.

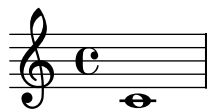
‘instrument-name-markup.ly’ Instrument names are set with `Staff.instrument` and `Staff.instr`. You can enter markup texts to create more funky names, including alterations.



‘instrument-name-partial.ly’ Instrument names are also printed on partial starting measures.



‘instrument-name-volta.ly’ Moving the `Volta_engraver` to the `Staff` context does not affect `InstrumentName` alignment.



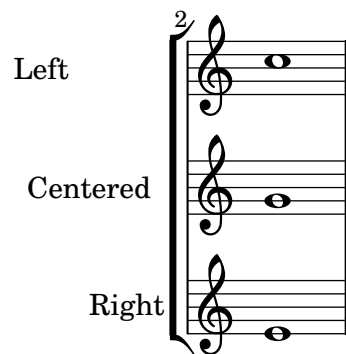
‘instrument-name-x-align.ly’ Instrument names horizontal alignment is tweaked by changing the `Staff.Instrument #’self-alignment-X` property. The `\layout` variables `indent` and `short-indent` define the space where the instrument names are aligned before the first and the following systems, respectively.

Left aligned  
instrument name

Centered  
instrument name

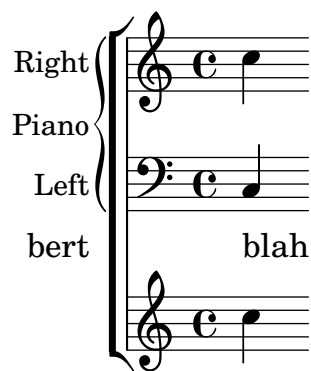
Right aligned  
instrument name

The image shows three musical staves, each with a common time signature 'C' and a whole note G4. The first staff has the instrument name 'Left aligned instrument name' to its left. The second staff has the instrument name 'Centered instrument name' centered above it. The third staff has the instrument name 'Right aligned instrument name' to its right.



`'instrument-name.ly'`

Staff margins are also markings attached to barlines. They should be left of the staff, and be centered vertically with respect to the staff. They may be on normal staves, but also on compound staves, like the PianoStaff.



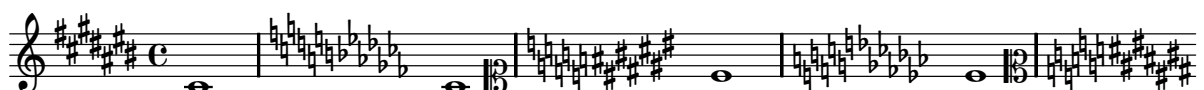
`'instrument-switch.ly'` The `switchInstrument` music function modifies properties for an in staff instrument switch.

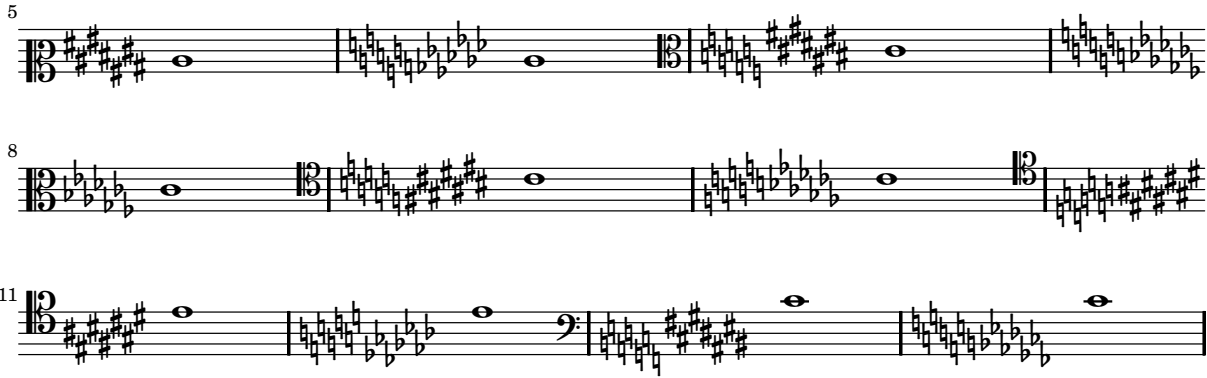


`'invalid-engraver.ly'` Engravers which do not exist produce a warning.



`'key-clefs.ly'` Each clef has its own accidental placing rules.





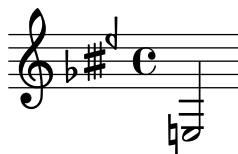
‘key-signature-cancellation.ly’ Key cancellation signs consists of naturals for pitches that are not in the new key signature. Naturals get a little padding so the stems don’t collide.



‘key-signature-left-edge.ly’ If the clef engraver is removed, the key signature shall use a proper padding > 0 to the start of the staff lines.



‘key-signature-padding.ly’ With the padding-pairs property, distances between individual key signature items can be adjusted.



‘key-signature-scordatura-persist.ly’ When a custom key signature has entries which are limited to a particular octave, such alterations should persist indefinitely or until a new key signature is set.

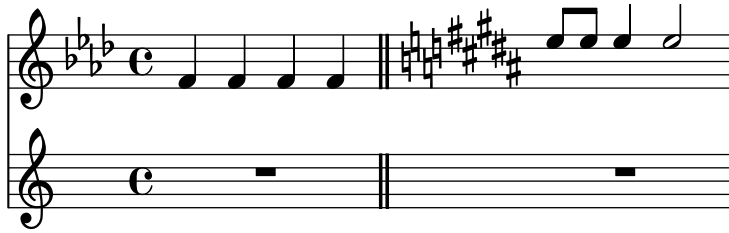
Here, only the fis’ shows an accidental, since it is outside the octave defined in `keySignature`.



‘key-signature-scordatura.ly’ By setting `Staff.keySignature` directly, key signatures can be set individually per pitch.



‘key-signature-space.ly’ Key signatures get the required amount of horizontal space.



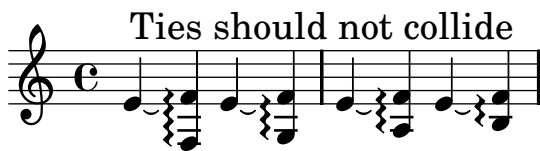
‘keys.ly’

Key signatures may appear on key changes, even without a barline. In the case of a line break, the restoration accidentals are printed at end of a line. If `createKeyOnClefChange` is set, key signatures are created also on a clef change.



‘laissez-vibrer-arpeggio.ly’

l.v. ties should not collide with arpeggio indications.



‘laissez-vibrer-tie-beam.ly’ \laissezVibrer ties on beamed notes don’t trigger premature beam slope calculation.



‘laissez-vibrer-tie-head-direction.ly’ The ‘head-direction’ of a LaissezVibrerTieColumn should be able to be set without causing a segmentation fault.

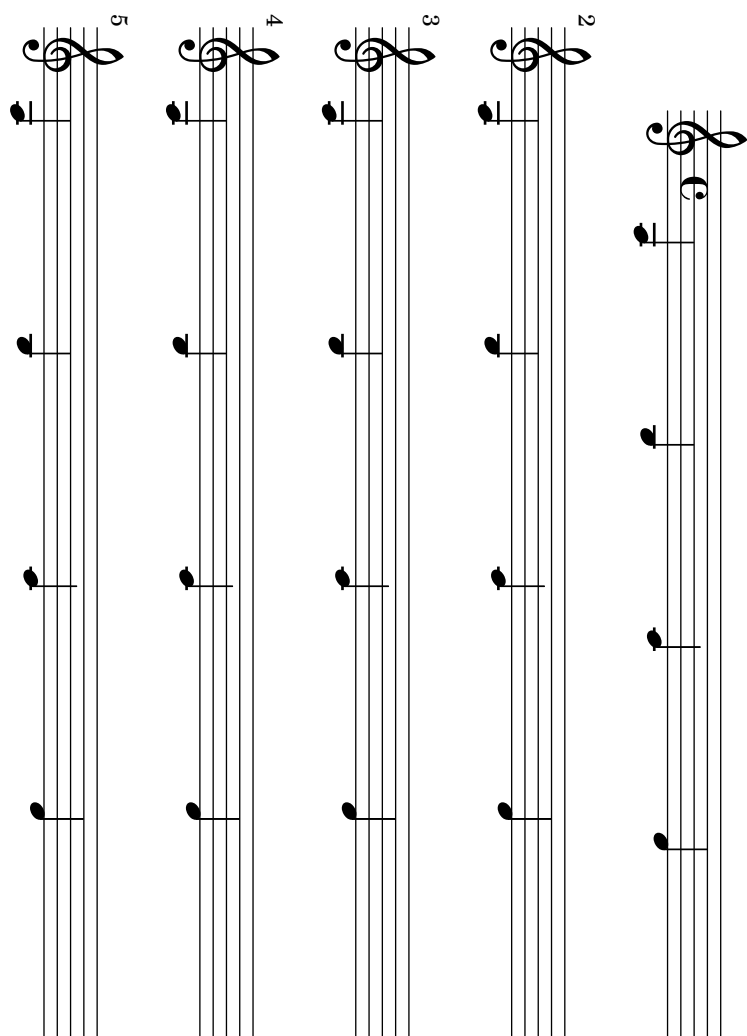


‘laissez-vibrer-ties.ly’

l.v. ties should avoid dots and staff lines, similar to normal ties. They have fixed size. Their formatting can be tuned with `tie-configuration`.



‘landscape.ly’ Scores may be printed in landscape mode.



Handwritten musical notation on five staves, numbered 2, 6, 7, 8, and 10. Each staff contains four notes, all marked with a fermata.

Staff 2: Treble clef, notes on G4, A4, B4, and C5.

Staff 6: Treble clef, notes on G4, A4, B4, and C5.

Staff 7: Treble clef, notes on G4, A4, B4, and C5.

Staff 8: Treble clef, notes on G4, A4, B4, and C5.

Staff 10: Treble clef, notes on G4, A4, B4, and C5.



Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

11 12 13 14 15

3

‘`ledger-line-minimum.ly`’ When ledgered notes are very close, for example, in grace notes, they are kept at a minimum distance to prevent the ledgers from disappearing.

‘`ledger-line-shorten.ly`’ Ledger lines are shortened when they are very close. This ensures that ledger lines stay separate.

‘`ledger-lines-varying-staves.ly`’ Ledger lines should appear at every other location for a variety of staves using both `line-count` and `line-positions`.



'les-nereides.ly' Highly tweaked example of lilypond output

# LES NÉRÉIDES

## THE NEREIDS

ARTHUR GRAY

Allegretto scherzando

The musical score is written for piano and violin in the key of D major (two sharps) and common time (C). The tempo is marked "Allegretto scherzando".

**First System:**

- Piano:** Starts with a forte (*f*) dynamic. The right hand has a whole rest, while the left hand plays a rhythmic pattern of eighth notes. A first ending bracket spans the first two measures, marked "m.g." (mezzo-giochiato) and "8va" (octave). A second ending bracket spans the last two measures, marked "m.d." (mezzo-dolce) and "2".
- Violin:** Enters in the second measure with a whole note chord, followed by a half note chord in the third measure. It then plays a series of eighth notes in the fourth measure.

**Second System:**

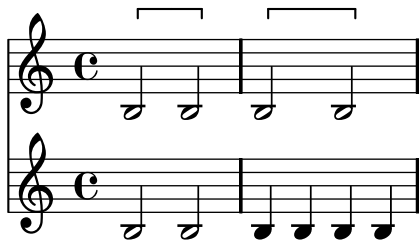
- Piano:** Continues the rhythmic pattern. A first ending bracket spans the first two measures, marked "5" and "4". A second ending bracket spans the last two measures, marked "1" and "4". The tempo is marked "rall." (rallentando) in the final measure.
- Violin:** Plays a series of eighth notes in the first measure, followed by a half note chord in the second measure. It then plays a series of eighth notes in the third measure.

**Third System:**

- Piano:** Starts with a mezzo-forte (*mf*) dynamic. The right hand plays a series of eighth notes. A first ending bracket spans the first two measures, marked "5" and "4". A second ending bracket spans the last two measures, marked "1" and "4". The tempo is marked "a tempo" in the final measure.
- Violin:** Plays a series of eighth notes in the first measure, followed by a half note chord in the second measure. It then plays a series of eighth notes in the third measure.

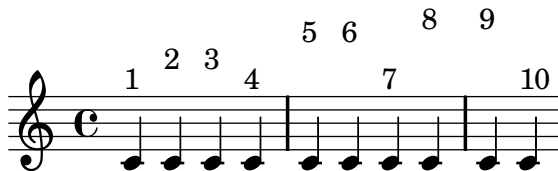
Throughout the score, there are various performance markings including "m.g.", "m.d.", "8va", "rall.", "a tempo", and "mf".

‘`ligature-bracket.ly`’ The ligature bracket right-end is not affected by other voices.



‘`lily-in-scheme.ly`’ LilyPond syntax can be used inside scheme to build music expressions, with the `#{ ... #}` syntax. Scheme forms can be introduced inside these blocks by escaping them with a `$`, both in a LilyPond context or in a Scheme context.

In this example, the `\withpaddingA`, `\withpaddingB` and `\withpaddingC` music functions set different kinds of padding on the TextScript grob.



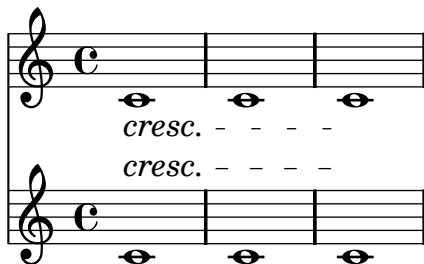
‘`line-arrows.ly`’ Arrows can be applied to text-spanners and line-spanners (such as the Glissando)



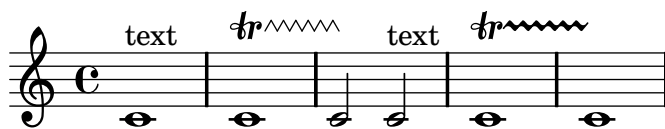
‘`line-dash-small-period.ly`’ Generate valid postscript even if dash-period is small compared to line thickness.



‘`line-dashed-period.ly`’ The period of a dashed line is adjusted such that it starts and ends on a full dash.



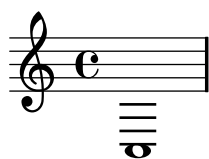
‘`line-style-zigzag-spacing.ly`’ Setting ‘`zigzag`’ style for spanners does not cause spacing problems: in this example, the first text markup and zigzag trillspanner have the same outside staff positioning as the second markup and default trillspanner.



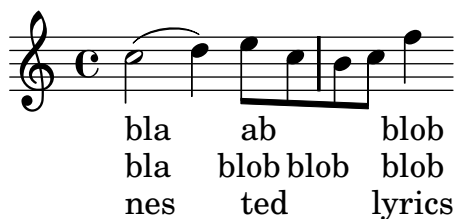
‘line-style.ly’ Cover all line styles available.



‘lyric-combine-empty-warning.ly’ If lyrics are assigned to a non-existing voice, a warning should be printed. However, if the lyrics context does not contain any lyrics, then no warning should be printed.



‘lyric-combine-new.ly’ With the `\lyricsto` mechanism, individual lyric lines can be associated with one melody line. Each lyric line can be tuned to either follow or ignore melismata.



‘lyric-combine-polyphonic.ly’ Polyphonic rhythms and rests do not disturb `\lyricsto`.



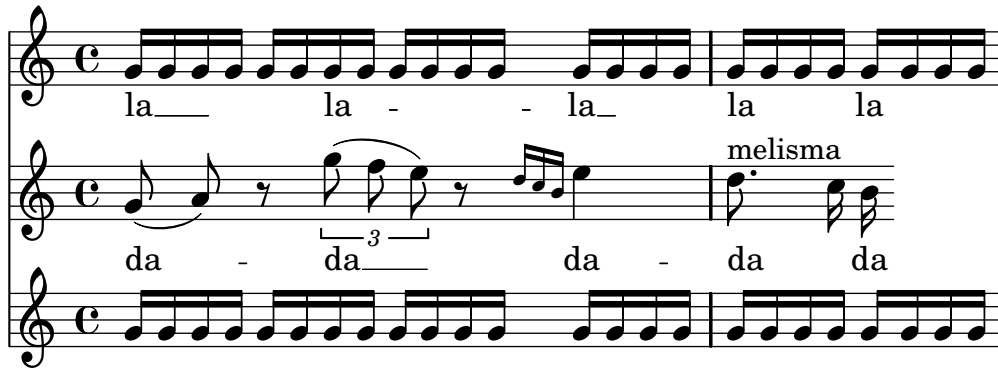
‘lyric-combine-switch-voice-2.ly’ switching voices in the middle of the lyrics is possible using `lyricsto`.



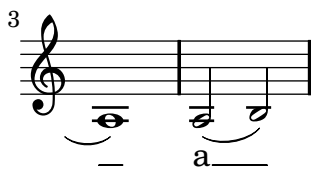
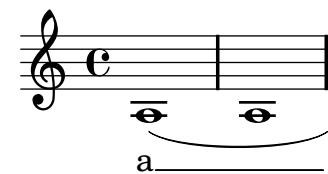
‘lyric-combine-switch-voice.ly’ Switching the melody to a different voice works even if the switch occurs together with context instantiation.



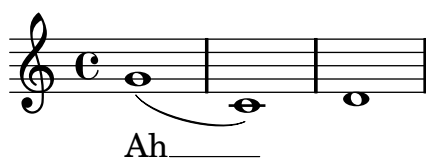
‘lyric-combine.ly’ Lyrics can be set to a melody automatically. Excess lyrics will be discarded. Lyrics will not be set over rests. You can have melismata either by setting a property `melismaBusy`, or by setting `automaticMelismas` (which will set melismas during slurs and ties). If you want a different order than first Music, then Lyrics, you must precook a chord of staves/lyrics and label those. Of course, the lyrics ignore any other rhythms in the piece.



‘lyric-extender-broken.ly’ Lyric extenders run to the end of the line if it continues the next line. Otherwise, it should run to the last note of the melisma.

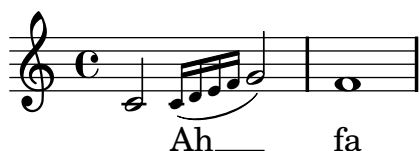


‘lyric-extender-completion.ly’ A `LyricExtender` should end at the right place even if there are more notes in the voice than lyrics.



‘lyric-extender-includegraces.ly’

If `includeGraceNotes` is enabled, lyric extenders work as expected also for syllables starting under grace notes.



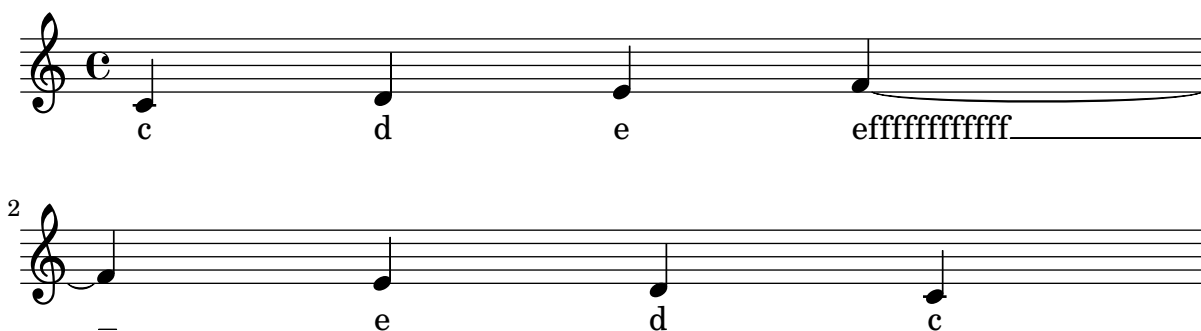
‘lyric-extender-no-heads.ly’ Extender engraver also notices the lack of note heads. Here the extender ends on the 2nd quarter note, despite the grace note without a lyric attached.



‘lyric-extender-rest.ly’ If `extendersOverRests` is set, an extender is not terminated upon encountering a rest.



‘lyric-extender-right-margin.ly’ Extenders will not protrude into the right margin



‘lyric-extender.ly’ A `LyricExtender` may span several notes. A `LyricExtender` does not extend past a rest, or past the next lyric syllable.

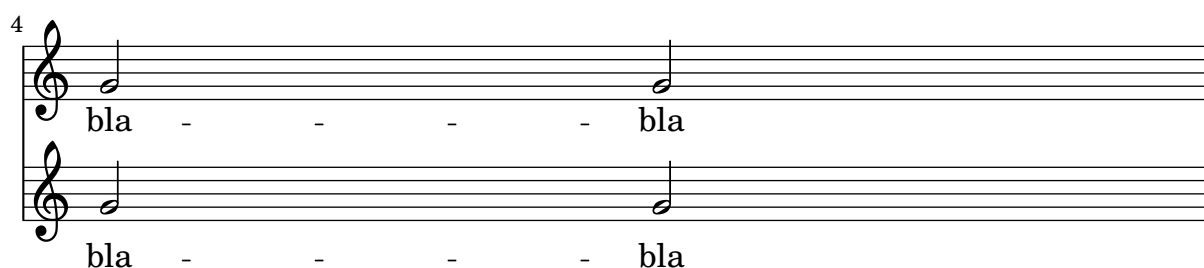
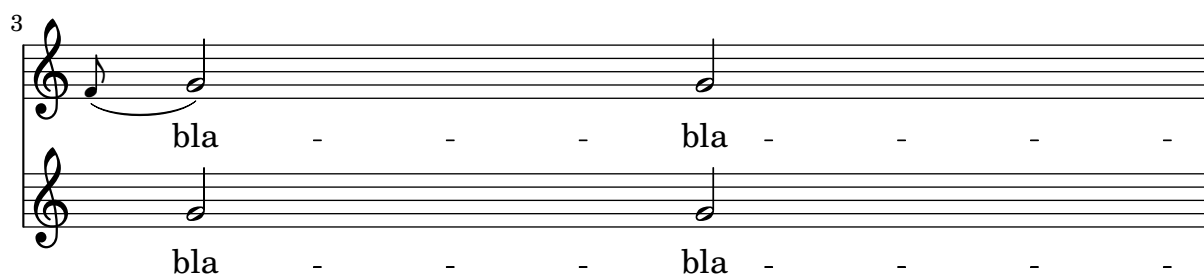
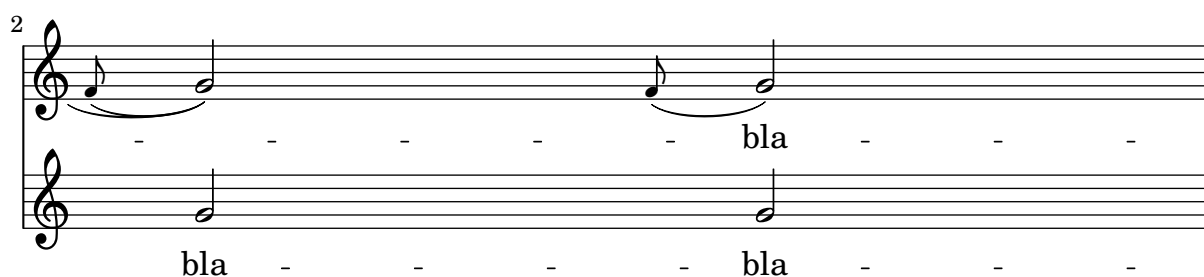


‘lyric-hyphen-break.ly’ Hyphens are printed at the beginning of the line only when they go past the first note.





‘lyric-hyphen-grace.ly’ No hyphen should be printed under a grace note at the start of a line if the grace’s main note starts a new syllable.



‘lyric-hyphen-retain.ly’ The minimum distance between lyrics is determined by the minimum-distance of LyricHyphen and LyricSpace.

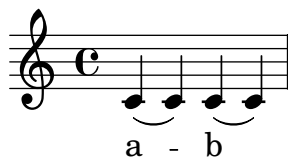
The ideal length of a hyphen is determined by its `length` property, but it may be shortened down to `minimum-length` in tight situations. If in this it still does not fit, the hyphen will be omitted.

Like all overrides within `\lyricsto` and `\addlyrics`, the effect of a setting is delayed is one syllable.

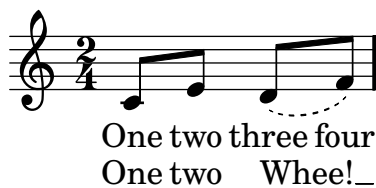




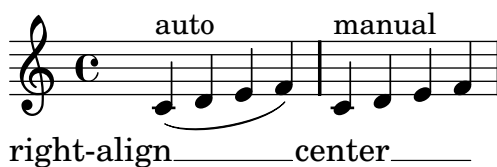
‘lyric-hyphen.ly’ In lyrics, hyphens may be used.



‘lyric-ignore-melisma-alignment.ly’ If ignoreMelismata is set, lyrics should remain center-aligned.



‘lyric-melisma-alignment.ly’ lyricMelismaAlignment sets the default alignment for melismata. It works with both automatic and manual melismata.



‘lyric-melisma-manual.ly’ Melismata may be entered manually by substituting \_ for lyrics on notes that are part of the melisma.



‘lyric-melisma-melisma.ly’ A syllable aligned with a melisma delimited with \melisma and \melismaEnd should be left-aligned.



‘lyric-no-association-rhythm.ly’ When lyrics are not associated with specific voices, the lyric placement should follow lyric rhythms. In particular, the second syllable here should not be attached to the first note of the first staff.



`'lyric-phrasing.ly'`

Normally, the lyric is centered on the note head. However, on melismata, the text is left aligned on the left-side of the note head.



`'lyric-tie.ly'` Tildes in lyric syllables are converted to tie symbols.

wa o a

`'lyrics-after-grace.ly'` Lyrics are ignored for aftergrace notes.



`'lyrics-aligned-above-stay-close-to-staff.ly'` Lyrics aligned above a context should stay close to that context when stretching. The Bass I lyric line stays with the Bass staff.

## Aligned-above lyrics should stay close to their staff

A musical score snippet with two staves. The top staff is in treble clef and the bottom staff is in bass clef, both with a common time signature 'C'. The lyrics 'Te - - - - nor' are aligned above the treble staff, and 'Bas - - - - ses' are aligned above the bass staff. Both staves have a long horizontal tie line spanning across the measures.

A musical score snippet with two staves. The top staff is in treble clef and the bottom staff is in bass clef, both with a common time signature 'C'. The lyrics are arranged in two lines: 'one!' and 'two!' for the treble staff, and 'one!' and 'two!' for the bass staff. The lyrics 'A - - - -' and 'Be - - - -' are aligned above the treble staff, and 'A - - - -' and 'Be - - - -' are aligned above the bass staff. Both staves have a long horizontal tie line spanning across the measures.

bove!  
low!  
bove!  
low!

`'lyrics-bar.ly'`

Adding a `Bar_engraver` to the Lyrics context makes sure that lyrics do not collide with barlines.

bars required  
lengthened for  
if noncollision

`'lyrics-includegraces.ly'`

Setting `includeGraceNotes` enables lyrics syllables to be assigned to grace notes.

normal case, grace case, aftergrace case, app. case, acc. case.

`'lyrics-melisma-beam.ly'` Melismata are triggered by manual beams. Notes in a melisma take their natural spacing over a long syllable.

bla blaa - bla

`'lyrics-no-notes.ly'` Lyric syllables without note attachment are not centered. Centering may cause unintended effects when the paper column is very wide.

xx  
x x

`'lyrics-tenor-clef.ly'` Lyrics are not lowered despite the presence of an octavation 8.

bla bla bla bla

`'markup-arrows.ly'` The feta font has arrow heads

► ◄ ▲ ▼ > < ˆ ˇ

‘markup-bidi-explicit-embedding.ly’

The explicit directional embedding codes, U+202A and U+202B, are supported in single-line markup strings. The embeddings must be terminated with the pop directional formatting character, U+202C.

אבה אבה "ABC" אבה אבה!  
אבה אבה "ABC!" אבה אבה!

abc def "אבה!" ghi jkl!  
abc def "אבה!" ghi jkl!

‘markup-bidi-explicit-overrides.ly’

The explicit directional override codes, U+202D and U+202E, are supported in single-line markup strings. The overrides must be terminated with the pop directional formatting character, U+202C.

אבג דהו זחט ירכ  
כרי טחז והד גבא

abc def ghi jkl  
lkj ihg fed cba

‘markup-bidi-implicit-marks.ly’

The implicit directional marks, U+200E and U+200F, are supported in single-line markup strings.

אבה "ABC" אבה  
אבה "ABC!" אבה

abc "אבה!" def  
abc "אבה!" def

‘markup-bidi-pango.ly’ A single Pango string is processed according to the Unicode Bidirectional Algorithm. The strong Hebrew characters in this example are set right-to-left, and the Latin numerals, space character, and punctuation are set according to the rules of the algorithm.

ללל1ללל, ררר2רר.

‘markup-brace-warning.ly’ If `\left-brace` or `\right-brace` cannot find a match for the given point size, it should default gracefully to either `brace0` or `brace575` and display a warning.

{

‘markup-braces.ly’ The markup command `\left-brace` selects a `fetaBraces` glyph based on point size, using a binary search. `\right-brace` is simply a `\left-brace` rotated 180 degrees.

{ }

‘markup-column-align.ly’ Fixed horizontal alignment of columns of text can be set using `\left-column`, `\center-column` and `\right-column`.

one	one	one
two	two	two
three	three	three

‘markup-commands.ly’ test various markup commands.



foo **foo** LOWER                    **normal** normal Small-Caps SMALL-CAPS  
   LOWER

justify:

This is a field containing text. Blah blah blah.

This is a field containing text. Blah blah blah.

This is a field containing text. Blah blah blah.

This is a field containing text. Blah blah blah.

This is a field containing text. Blah blah blah.

wordwrap:

This is a field containing text. Blah blah blah.

This is a field containing text. Blah blah blah.

This is a field containing text. Blah blah blah.

This is a field containing text. Blah blah blah.

This is a field containing text. Blah blah blah.

draw-line:



underlined

‘markup-diacritic-marks.ly’

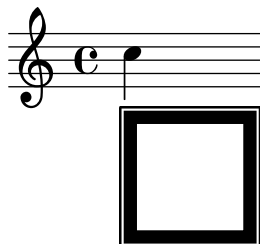
Diacritic marks are rendered and positioned correctly. The diacritic on line 1 looks like a lower-underline and is centered beneath the main character. The diacritic on line 2 is positioned to the left of the main character, with a tiny space of separation. The diacritic on line 3 is positioned directly above the main character, either centered or shifted slightly to the left.

ᵀ

ı

ı

‘markup-eps.ly’ The epsfile markup command reads an EPS file



‘markup-eyeglasses.ly’ The eyeglasses markup function prints out eyeglasses.



`'markup-line-thickness.ly'` The thickness setting between markup lines and other lines is consistent.



`'markup-lines-identifier.ly'` Text that can spread over pages is entered with the `\markuplines` command. It can be assigned to a variable and inserted at top-level with or without preceding it by `\markuplines`.

Lorem ipsum dolor sit amet, consectetur adipisicing elit,

sed eiusmod tempor incididunt ut labore et dolore

magna aliqua. ...

Lorem ipsum dolor sit amet, consectetur adipisicing elit,

sed eiusmod tempor incididunt ut labore et dolore

magna aliqua. ...

`'markup-lines.ly'` Text that can spread over pages is entered with the `\markuplines` command. Widowed and orphaned lines are avoided at the beginning and end of a `\markuplines` containing more than one line.

Il y avait en Westphalie, dans le château de M. le baron de Thunder-ten-tronckh, un jeune garçon à qui la nature avait donné les mœurs les plus douces. Sa physionomie annonçait son âme. Il avait le jugement assez droit, avec l'esprit le plus simple ; c'est, je crois, pour cette raison qu'on le nommait Candide. Les anciens domestiques de la maison soupçonnaient qu'il était fils de la sœur de monsieur le baron et d'un bon et honnête gentilhomme du voisinage, que cette demoiselle ne voulut jamais épouser parce qu'il n'avait pu prouver que soixante et onze quartiers, et que le reste de son

2  
 arbre généalogique avait été perdu  
 par l'injure du temps. (not orphaned)

Monsieur le baron était un des plus  
 puissants seigneurs de la  
 Westphalie, car son château avait  
 une porte et des fenêtres. Sa grande  
 salle même était ornée d'une  
 tapisserie. Tous les chiens de ses  
 basses-cours composaient une meute  
 dans le besoin ; ses palefreniers  
 étaient ses piqueurs; le vicaire du  
 village était son grand-aumônier. Ils  
 l'appelaient tous monseigneur, et ils  
 riaient quand il faisait des contes.

3  
 Madame la ... (may be orphaned)

'markup-music-glyph.ly' Reset fontname for musicglyph. For unknown glyphs, we print a warning.



'markup-note-dot.ly' A dotted whole note displayed via the `\note` command must separate the note head and the dot. The dot avoids the upflag.



'markup-note-grob-style.ly' The 'style property from grobs such as `TimeSignature` and `TextSpanner` does not affect the default note head style for `\note` and `\note-by-number`.



'markup-note-styles.ly' `\note-by-number` and `\note` support all note head styles.

default						
altdefault						
baroque						
neomensural						
mensural						
petrucci						
harmonic						
harmonic-black						
harmonic-mixed						
diamond						
cross						
xcircle						
triangle						
slash						

‘markup-note.ly’ The note markup function may be used to make metronome markings. It works for a variety of flag, dot and duration settings.

‘markup-path-fill.ly’  
The \path markup command supports the filled property to toggle its fill.



‘markup-path-linecap.ly’  
The \path markup command supports the line-cap-style property with values of butt, round, and square.





‘markup-path-linejoin.ly’

The `\path` markup command supports the `line-join-style` property with values of `bevel`, `round`, and `miter`.

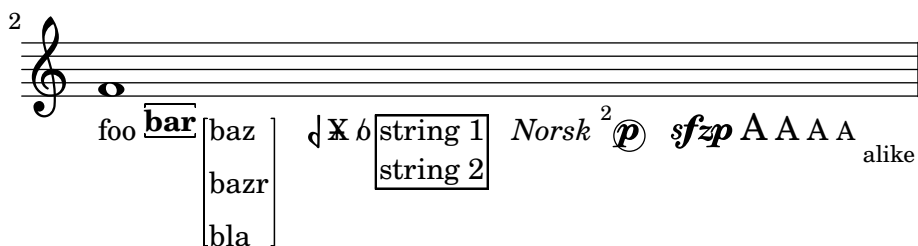
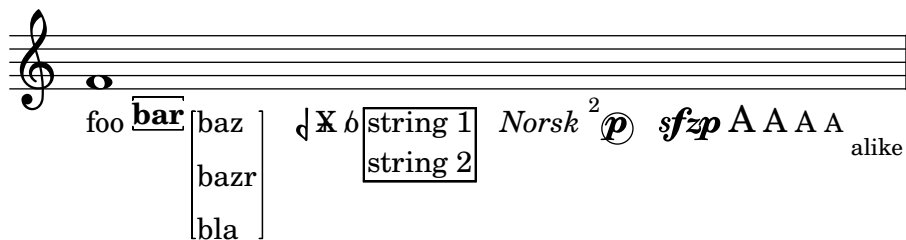


‘markup-path.ly’

The `\path` markup command allows the user to draw arbitrary paths using a simple syntax. The two paths below should be identical.



‘markup-scheme.ly’ There is a Scheme macro `markup` to produce markup texts using a similar syntax as `\markup`.



‘markup-score-multi-system.ly’ `\markup \score` displays all systems. Spacing between systems is set using `baseline-skip`.



‘markup-score.ly’ Use \score block as markup command.

# Solo Cello Suites

## Suite IV

Originalstimmung:



‘markup-stack.ly’ Markup scripts may be stacked.

a 1  
2  
3

‘markup-syntax.ly’ Demo of markup texts, using LilyPond syntax.

foo bar baz ]

bazr

bla ]

♩ X b

white-out

○ ● Norsk<sup>2</sup>

*p* Green *sfzp* A A A A

alike

string 1

string 2

fi

‘markup-user.ly’ Users may define non-standard markup commands using the `define-markup-command` scheme macro.

HELLO WORLD

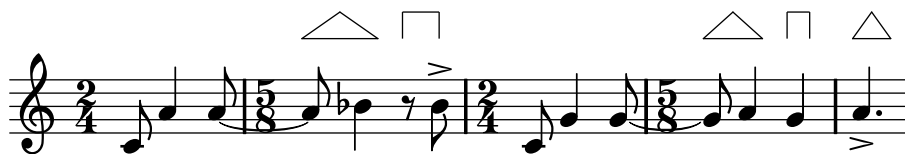
‘markup-word-wrap.ly’ The markup commands `\wordwrap` and `\justify` produce simple paragraph text.

this is normal text This is a test of the wordwrapping function. 1 This is a continuing test of the wordwrapping function. 2 This is a test of the wordwrapping function. 3 This is a test of the wordwrapping function. 4 1a111 11111 **22222** 2222

this is normal text This is a test of the wordwrapping continuing function, but with justification. 1 This is a test of the wordwrapping function, but with justification. 2 This is a test of  $\frac{a}{b}$  the wordwrapping function, but with justification. 3 This is a test of the wordwrapping function, but with justification. bla bla

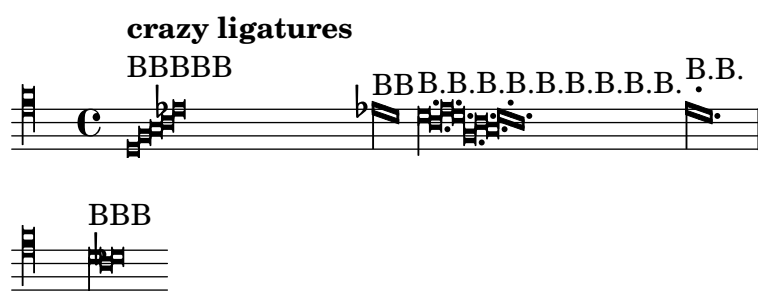
Om mani padme hum Om mani	Om mani padme hum Om mani padme
padme hum Om mani padme hum Om	hum Om mani padme hum Om mani
mani padme hum Om mani padme	padme hum Om mani padme hum Om
hum Om mani padme hum Om mani	mani padme hum Om mani padme hum
padme hum Om mani padme hum.	Om mani padme hum.
Gate Gate paragate Gate Gate	Gate Gate paragate Gate Gate
paragate Gate Gate paragate Gate	paragate Gate Gate paragate Gate
Gate paragate Gate Gate paragate	Gate paragate Gate Gate paragate
Gate Gate paragate.	Gate Gate paragate.

‘measure-grouping.ly’ The `Measure_grouping_engraver` adds triangles and brackets above beats when the beats of a time signature are grouped.

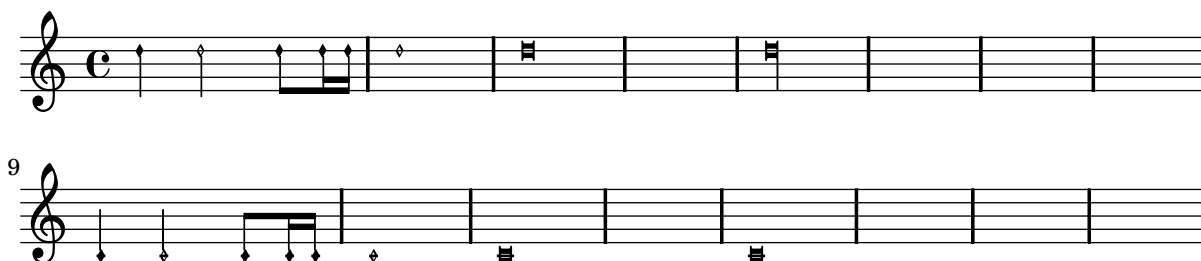


‘mensural-ligatures.ly’ Mensural ligatures show different shapes, depending on the rhythmic pattern and direction of the melody line.

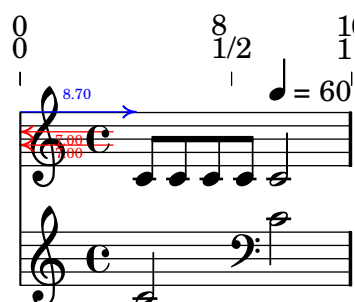




‘mensural.ly’ There is limited support for mensural notation: note head shapes are available. Mensural stems are centered on the note heads, both for up and down stems.

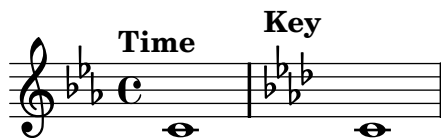


‘metronome-mark-loose-column.ly’ Metronome marks aligned on notes do not interfere with the positioning of loose columns in other staves. Here the loose column supporting the clef is correctly placed immediately before the second note in the lower staff.



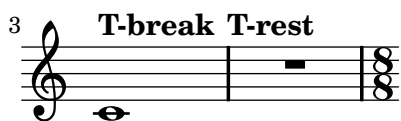
‘metronome-marking-align-order.ly’ Metronome marks respect symbol order in break-align-symbols.

In this example, the default is changed to ‘(time-signature key-signature)’: since key-signature is second in the list, the mark should only be aligned with the key signature if there is no time signature present, as in the second measure.



‘metronome-marking-break-align.ly’ \tempo marks are aligned with the time signature or first musical element unless the first element is a multi-measure rest: in this case, the tempo mark is aligned with the bar line.

By overriding `break-align-symbols` the default alignment can be changed, as shown by the final metronome mark in this snippet, aligned with a key signature.



‘metronome-marking.ly’ Here \tempo directives are printed as metronome markings. The marking is left aligned with the time signature, if there is one.



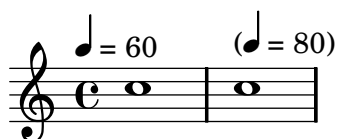
‘metronome-multimeasure-rest-no-segfault.ly’

A metronome marking can be added to a multimeasure rest whose engraver was moved to the Staff, without segfaulting.



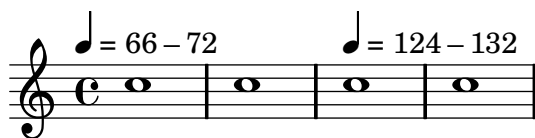
‘metronome-parenthesized.ly’

Using an empty text in the metronome marks, one can generate parenthesized tempo marks.



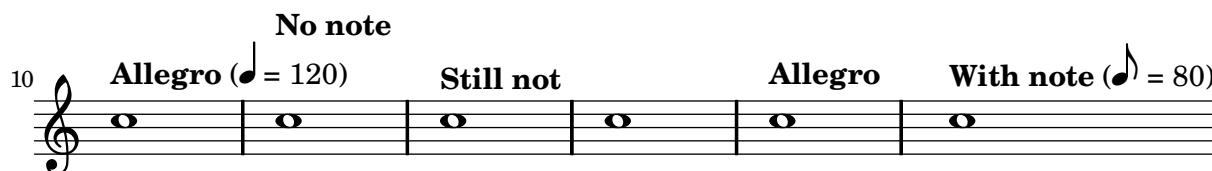
‘metronome-range.ly’

Tempo ranges are supported. By default, numbers are printed with an en-dash character, separated by thin-spaces.

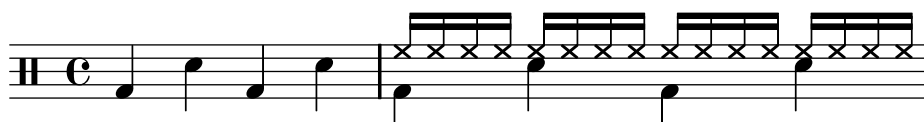


‘metronome-text.ly’

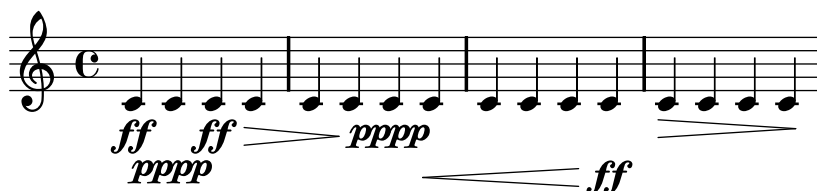
The tempo command supports text markup and/or duration=count. Using `Score.tempoHideNote`, one can hide the duration=count in the tempo mark.



‘midi-drums.ly’ Midi can create drums.



‘midi-dynamics.ly’ Midi also handles crescendo and decrescendo, either starting and ending from specified or unspecified sound level.



‘midi-grace.ly’ Grace notes don’t introduce syncing problems: the last note off will appear at tick 768 (2 \* 384).

‘midi-key-signature.ly’ MIDI key signatures are output, using an approximate key signature if MIDI format cannot represent the true key signature



‘midi-lyric-barcheck.ly’ Lyrics in MIDI are aligned to ties and beams: this examples causes no bar checks in MIDI.



‘midi-microtone-off.ly’ Microtonal shifts should be corrected before the start of the next (possibly grace) note.

‘midi-microtone.ly’ The pitch wheel is used for microtones.

‘midi-notes.ly’ A MIDI note-off event precedes a simultaneous note-on event for the same pitch in the same MIDI channel, so that all notes are heard. Run `timidity -idvvv file.midi |grep Midi` to see midi events.



‘midi-partial.ly’ MIDI and partial measures work together.

‘midi-pedal.ly’ Pedals. Run `timidity -idvvv file.midi |grep Midi` to see midi events.



‘midi-scales.ly’ Converting LilyPond input to MIDI and then again back with `midi2ly.py` is a reversible procedure in some simple cases, which mean that the original .ly -file and the one converted back from the generated .midi -file do not differ. Here are produced some scales.



18

23

28

32

36

41

46

51

56

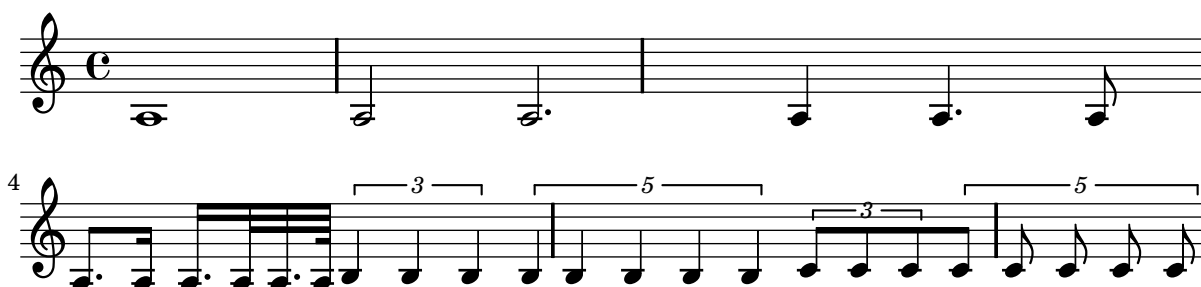
'midi-transposition.ly' should deliver f' in MIDI

'midi-tuplets.ly'

Midi2ly tuplet test.



```
python scripts/midi2ly.py --duration-quant=32 \
    --allow-tuplet=4*2/3 \
    --allow-tuplet=8*2/3 \
    --allow-tuplet=4*3/5 \
    --allow-tuplet=8*3/5 \
    tu.midi
```



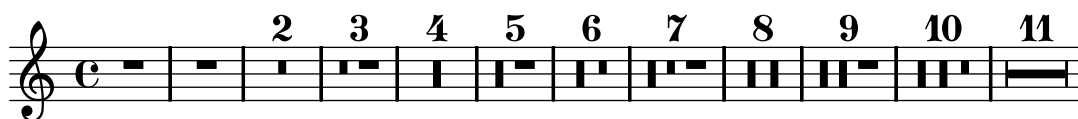
‘midi-unisons.ly’ In overlapping unisons, within a single MIDI channel, either the first note is truncated, or the notes are merged if `midiMergeUnisons` is `#t`. Run `timidity -idvvv file.midi |grep Midi` to see midi events.



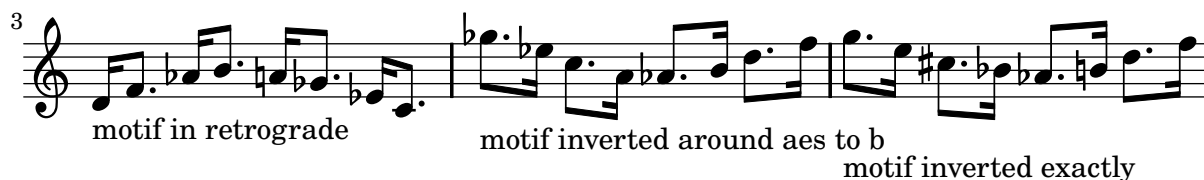
‘midi-volume-equaliser.ly’ The full orchestra plays a note, where groups stop one after another. Use this to tune equalizer settings.

‘mm-rests2.ly’

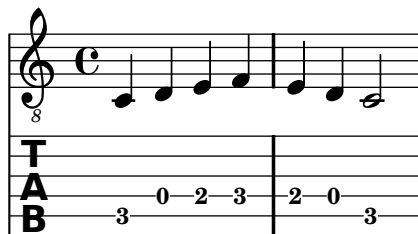
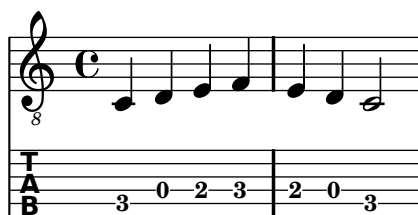
If `Score.skipBars` is set, the signs for four, two, and one measure rest are combined to produce the graphical representation of rests for up to 10 bars. The number of bars will be written above the sign.



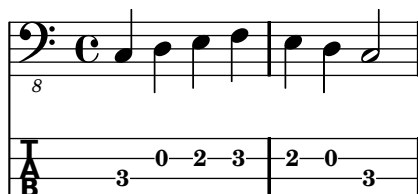
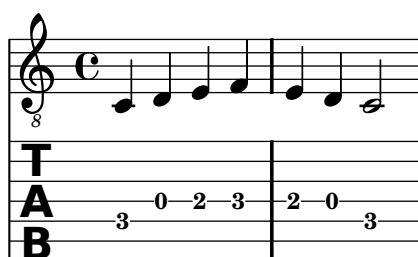
‘modal-transforms.ly’ `\modalTranspose`, `\retrograde`, `\inversion` and `\modalInversion` work for an octatonic motif.



‘modern-tab-clef-scaled.ly’ The sans serif style tab clef is automatically adjusted to different string spacings.

‘modern-tab-clef.ly’ Sans serif style tab clefs are supported by `\clef moderntab`. This alternative clef supports four- to seven-stringed instruments and is scaled automatically.

‘morgenlied.ly’ The source is a rather tightly set Peters in Edition is a heavy font. The Peters edition (4622c) was ‘herausgegeben’ by Paul Losse, whose name also appears on a 1956 edition of some other music. Strictly speaking, his editorial enhancements will not be in the PD - but I am assuming there are no notable ones in this small piece.

The original compresses the entire music onto a single page, in 4 systems. Lily does so too if you tune down spacing-increment, but chooses line breaks differently.

Further manual tweaks: the slur in measure 12 has been flattened manually. The beam in measure 3, left-hand, technically is wrong, but has been added following the original. The crescendo in measure 4 has been lowered

# Sängers Morgenlied

Franz Schubert (1797-1828)

## Lieblich, etwas geschwind

1. Sü - ßes Licht! Aus gol - denen Pfor - ten brichst du  
2. Ach, der Lie - be sanf - tes We - hen schwellt mi

2.

5

sie-gend durch — die Nacht. Schö-ner Tag, du bist er - wacht. Mit g  
das be - weg - te Herz, sanft, wie ein ge - lieb - ter Schmerz. Dürft ic

9

heim - nis - vol - len Wor - ten, in me - lo - di-schen Ak - kor - den, grüß ich  
nur auf gold - nen Hö - hen mich im Mor - gen-duft er - ge - hen! Sehn - sucht

13

dei - ne Ro - senpracht, grüß ich dei - ne Ro - senpracht.  
zieht mich him - mel-wärts, Sehn - sucht zieht mich him - mel wärts.

‘mozart-hrn-3.ly’

This is the Mozart 3 for horn. It’s from an Edition Breitkopf EB 2563, edited by Henri Kling. Henri Kling (1842-1918) was a horn virtuoso that taught in Geneva.

# Konzert Nr. 3 Es dur

für Horn und Orchester

Horn in F

Wolfgang Amadeus Mozart (1

Allegro

4 Tutti 18

**A**

29

35 3

43 *tr*

49 **B** 3 *con espressione*

57 *cresc. - - - - - f*

63 *p* *cresc. - - f* **C** *tr*

70 15 **D** *mf*

91 2

102

108 **E** 8 *rit.*

121

Detailed description: This is a page of a musical score for the Horn in F part of Mozart's Concerto No. 3 in E major. The tempo is marked 'Allegro'. The score begins with a 4-measure rest followed by a 'Tutti' marking. It contains several section markers: 'A' at measure 29, 'B' at measure 49 (with a 3-measure repeat), 'C' at measure 63 (with a trill), 'D' at measure 70 (with a 15-measure repeat and 'mf' dynamic), and 'E' at measure 108 (with an 8-measure repeat and 'rit.' marking). The key signature has one sharp (F#) and the time signature is 4/4. The notation includes various note values, rests, slurs, and trills.

2 Horn in F

127 **F** 3

135 3

144 **G**

151 *cresc.* - - - - - *f* *ff* *sem*

156 *tr* **H** 3 3 3

162 3 3 3 3 3 *f*

167 3 *tr* 8 *tutti* *f*

Cadenza ad lib.

# Romanze

*p con molto espressione*

6 **A** 8 *mf*

18 2

25 **B** 9

Horn in F

39  4

48  **C** 3 *sfp* *sfp* *sfp* *sfp* *p*

58  **D** 3 *p*

66  3

74 

Rondo

 *p*

7  13

26  7 **A** *p*

40  4

51  **B** 3

61 

68  **C**

4 Horn in F

75 *p*

82 12 **D**

101 3

114 3

124 **E** 9

139

146 **F**  
*cresc. - - - - - f*

154 *p*

160 7 **G** 4  
*mf*

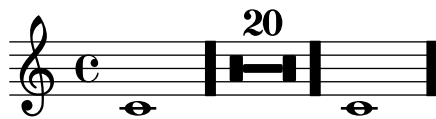
178 **H**  
*cresc. - - - - -*

186 *f* *tr* 5 *p*

198 5  
*cresc. - - - - - f*



`'multi-measure-rest-center.ly'` The multimeasure rest is centered exactly between bar lines.



`'multi-measure-rest-center2.ly'` The existence of a text mark does not affect the placement of a multimeasure rest.

foo foo foo foo foo foo



`'multi-measure-rest-grace.ly'` Multi-measure rests are centered also in the case of grace notes.



`'multi-measure-rest-instr-name.ly'` There are both long and short instrument names. Engraving instrument names should not be confused by the multimeasure rests.



`'multi-measure-rest-multi-staff-center.ly'` Though the default spacing for multi-measure rests is affected by prefatory matter in other staves, centering can be restored by overriding `spacing-pair`.



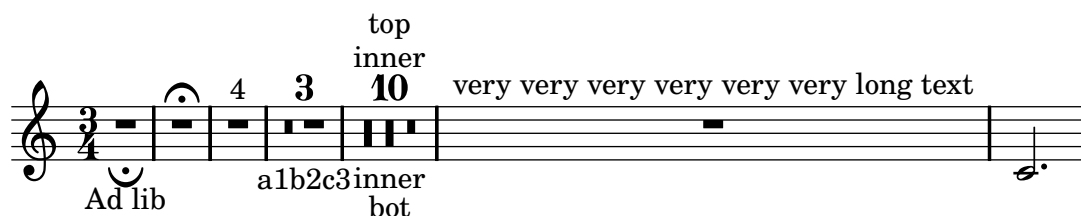
`'multi-measure-rest-spacing.ly'` By setting texts starting with a multi-measure rest, an extra spacing column is created. This should not cause problems.



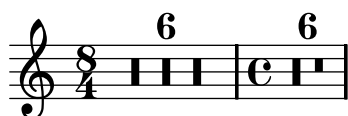
`'multi-measure-rest-text.ly'`

Texts may be added to the multi-measure rests.

By setting the appropriate `spacing-procedure`, we can make measures stretch to accomodate wide texts.



`'multi-measure-rest-usebreve.ly'` For longer measure lengths, the breve rest is used.



`'multi-measure-rest.ly'`

Multi-measure rests do not collide with bar lines and clefs. They are not expanded when you set `Score.skipBars`. Although the multi-measure-rest is a `Spanner`, minimum distances are set to stop it colliding with bar lines.

Rests over measures lasting longer than 2 wholes use breve rests. When more than 10 measures (tunable through `expand-limit`) are used then a different symbol is used.



`'multiple-time-sig-settings.ly'`

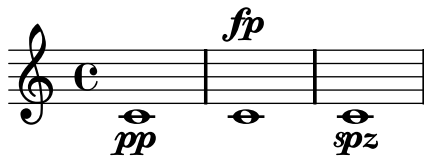
Multiple overrides to the default time signature settings can be added. In this example, notes should be beamed as indicated by the markups.



`'music-function-end-spanners.ly'` the `endSpanners` music function inserts end span events at the end of a note.



`'music-function-post-event.ly'` Music functions may be attached to notes; in this case they must be introduced by a direction indicator. If a non-neutral direction is given (i.e. anything else than a dash), then the `'direction` property of the resulting object is set accordingly.



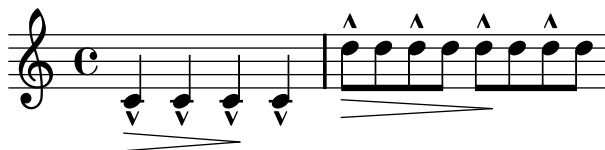
‘music-function-string-markup.ly’ Music functions accept strings as markup arguments when using the type predicate markup?



‘music-function.ly’ Music functions are generic music transformation functions, which can be used to extend music syntax seamlessly. Here we demonstrate a `\myBar` function, which works similar to `\bar`, but is implemented completely in Scheme.



‘music-map.ly’ With `music-map`, you can apply functions operating on a single piece of music to an entire music expression. In this example, the function `notes-to-skip` changes a note to a skip. When applied to an entire music expression in the 1st measure, the scripts and dynamics are left over. These are put onto the 2nd measure.



‘nested-fill-lines.ly’

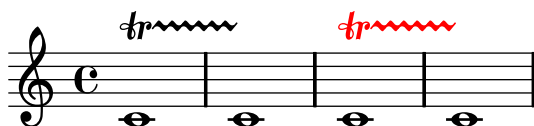
Nested fill-lines should work properly. In this example, both occurrences of FOO should be centered.

**| FOO |**  
**| FOO |**



‘nested-property-revert.ly’

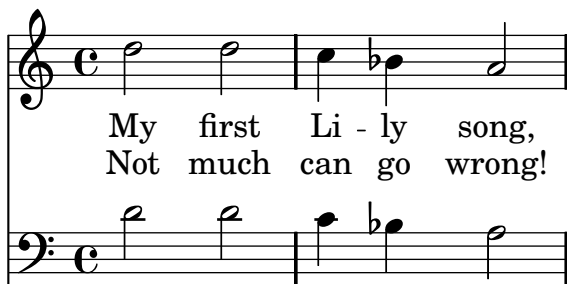
If a nested property revert follows an override in the same grob for a different property, the nested property’s default setting should not be evicted from the property alist.



‘newaddlyrics-music-identifiers.ly’ addlyrics do not need braces around their arguments, in particular if the arguments are variables.



‘newaddlyrics.ly’ newlyrics, multiple stanzas, multiple lyric voices.



MY FIRST LI - LY SONG,  
NOT MUCH CAN GO WRONG!

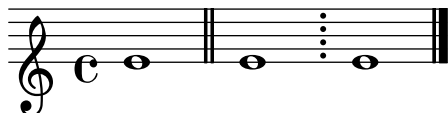
‘no-header.ly’

This regtest does not contain any header and paper blocks. Its purpose is to test whether anything breaks if these blocks are absent.

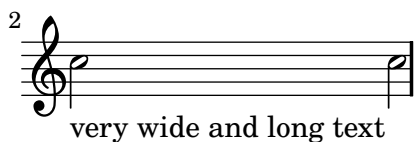
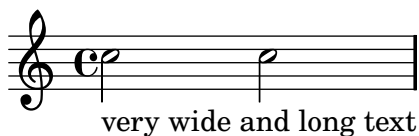
‘no-staff.ly’ The printing of the staff lines may be suppressed by removing the corresponding engraver.



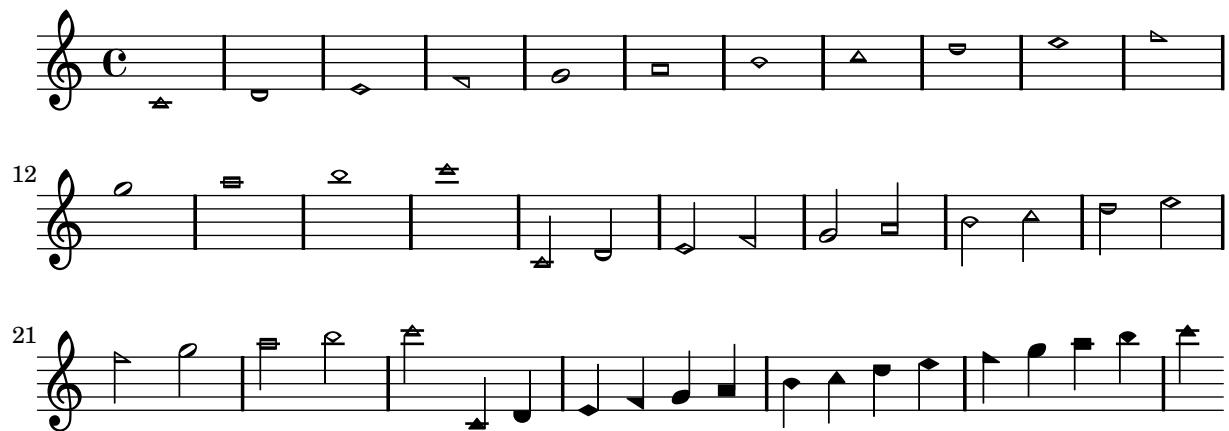
‘non-centered-bar-lines.ly’ Bar lines are positioned correctly when using custom staves which are not centered around position 0.



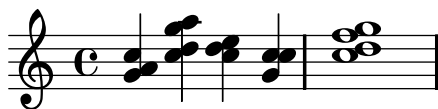
‘non-empty-text.ly’ By default, text is set with empty horizontal dimensions. The property extra-spacing-width in TextScript is used to control the horizontal size of text.



`'note-head-aiken.ly'` Notes can be set in the Aiken (Christian Harmony) style.



`'note-head-chord.ly'` Note heads are flipped on the stem to prevent collisions. It also works for whole heads that have invisible stems.



`'note-head-funk.ly'` Notes can be set in the Funk (Harmonica Sacra) style.

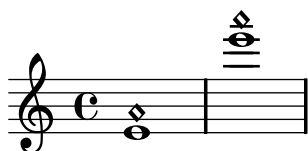


`'note-head-harmonic-dotted.ly'`

Dots on harmonic note heads can be shown by setting the property `harmonicDots`.



`'note-head-harmonic-whole.ly'` A harmonic note head must be centered if the base note is a whole note.



`'note-head-harmonic.ly'` The handling of stems for harmonic notes must be completely identical to normal note heads.

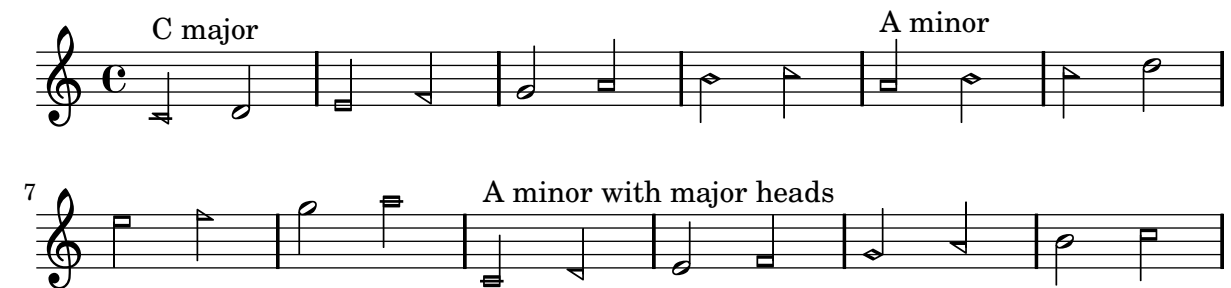
Harmonic heads do not get dots. If `harmonicAccidentals` is unset, they also don't get accidentals.



`'note-head-sacred-harp.ly'` Notes can be set in the Sacred Harp style.



`'note-head-shape-minor.ly'` Shape notes can be set to work properly in minor keys.



`'note-head-solfa.ly'` With `shapeNoteStyles`, the style of the note head is adjusted according to the step of the scale, as measured relative to the tonic property.



‘note-head-southern-harmony.ly’ Notes can be set in the Southern Harmony style.



‘note-head-style.ly’

Note head shapes may be set from several choices. The stem endings should be adjusted according to the note head. If you want different note head styles on one stem, you must create a special context.

Harmonic notes have a different shape and different dimensions.

default altdefault

9 baroque neomensural

17 mensural petrucci

25 harmonic harmonic-black

33 harmonic-mixed diamond

41 cross xcircle

‘note-head-walker.ly’ Notes can be set in the Walker (Christian Harmony) style.

**‘note-line.ly’** Note head lines (e.g. glissando) run between centers of the note heads.

```
'note-names-context.ly'
```

Allegro      Allegro      Allegro      Allegro      Allegro      Allegro

c c c c    c c c c    c c c c    c c c c    c c c c    c c c c

ly-ric ly-ric    ly-ric ly-ric    ly-ric ly-ric    ly-ric ly-ric    ly-ric ly-ric    ly-ric ly-ric

7 



`'note-names.ly'` Various languages are supported for note names input. Selecting another language within a music expression is possible, and doesn't break point-and-click abilities.



`'number-staff-lines.ly'` The number of stafflines of a staff can be set. Ledger lines both on note heads and rests, as well as barlines, are adjusted accordingly.



`'optimal-page-breaking-hstretch.ly'` The optimal page breaker will make trade-offs between horizontal and vertical stretching so that the overall spacing will be more acceptable. The `page-spacing-weight` parameter controls the relative importance of vertical/horizontal spacing. Because `ragged-last-bottom` is on, there is no penalty for odd vertical spacing on the final page. As a result, only the first page should be horizontally stretched.

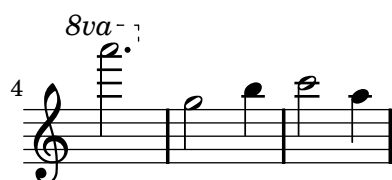




Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

`'option-help.ly'` Print the option help text, for comparison against previous releases.

`'ottava-broken.ly'` At line breaks, ottava brackets have no vertical line and their horizontal line does not stick out. The dashed line runs until the end of the line (regardless of prefatory matter).

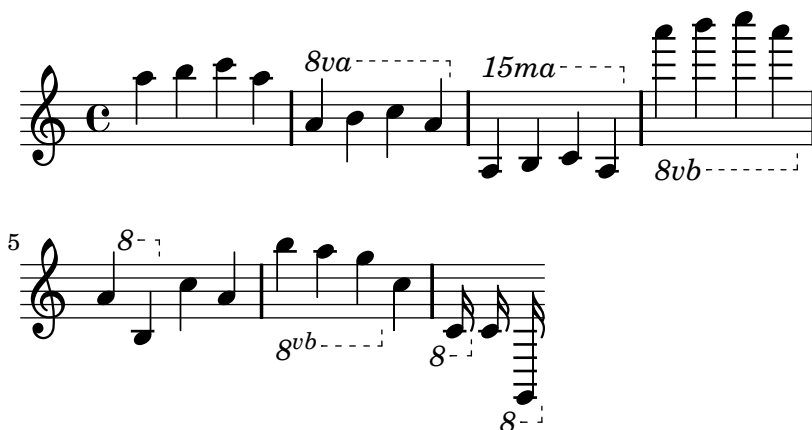


‘ottava-edge.ly’ Both edge heights of an ottava bracket can be specified.



‘ottava.ly’ Ottava brackets are supported, through the use of the music function `\ottava`.

The spanner should go below a staff for 8va bassa, and the ottavation markup can be tuned with `Staff.ottavation`.



‘override-nest-scheme.ly’ A sublist of grob property lists may be overridden within a callback. This test uses a custom stencil callback which changes the Y coordinate of the right bound of the glissando spanner.



‘override-nest.ly’ Sublist of grob property lists may be also tuned. In the next example, the beamed-lengths property of the `Stem` grob is tweaked.



‘page-break-between-scores.ly’ Page breaks work when they are placed at the end of a score, or between scores.



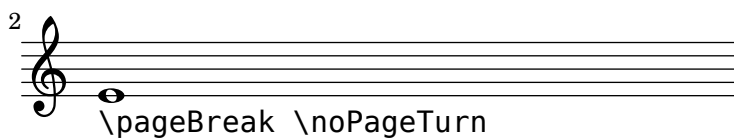
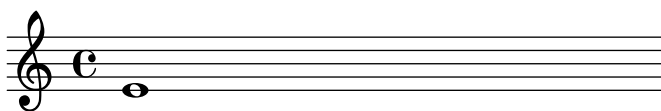
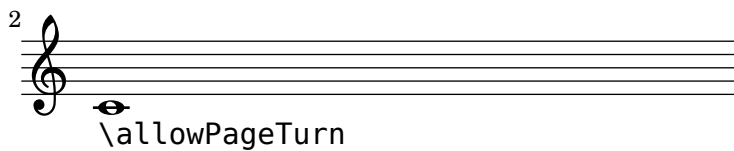
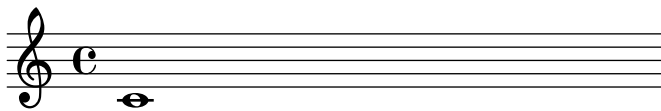
2

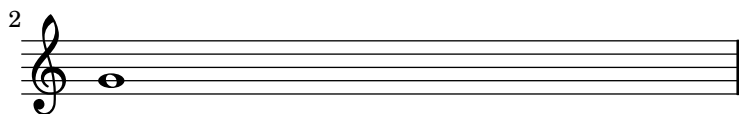
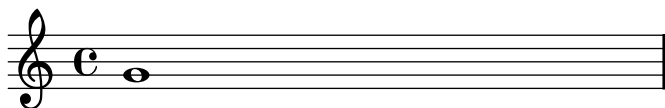




Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘page-break-turn-toptlevel.ly’ Page breaking and page turning commands (`\pageBreak`, `\noPageBreak`, etc), can be used at top level.





‘page-break-warn-forbidden.ly’ If a page break is forced where it is forbidden, a warning is printed.



‘page-breaking-good-estimation.ly’ The page breaking algorithm can handle clefs combined with lyrics. That is, the Y-extent approximations are a little more accurate than just using bounding boxes. In particular, everything should fit on one page here.

4

Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘page-breaking-markup-padding.ly’ Padding between markups is honored by the page breaker. This should take up two pages.

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Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘page-breaking-markup-padding2.ly’ Padding between a markup and a system is honored by the page breaker. This should take up two pages.

00

01

2



Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘page-breaking-markup-padding3.ly’ Padding between a score and a markup is honored by the page breaker. This should take up two pages.

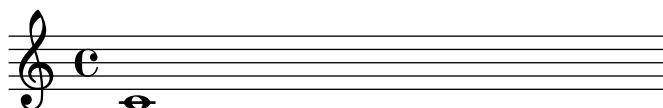
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01



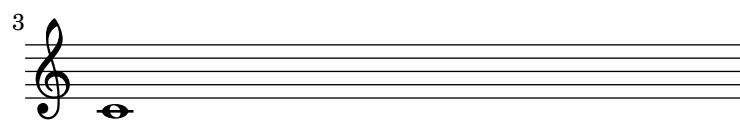
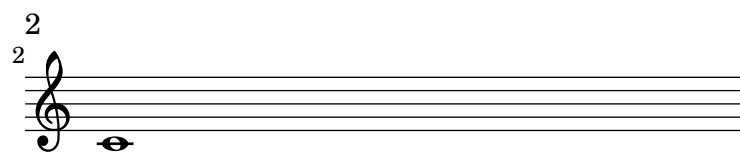
Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

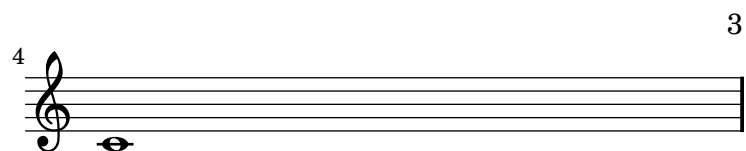
‘`page-breaking-max-systems-per-page.ly`’ The `max-systems-per-page` variable prevents more than a given number of systems from being on a page. Titles are not counted as systems. `\noPageBreak` can override `max-systems-per-page` in unusual situations.

## Title



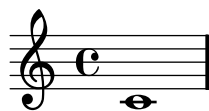
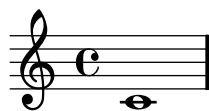


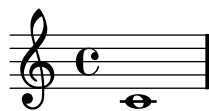




Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

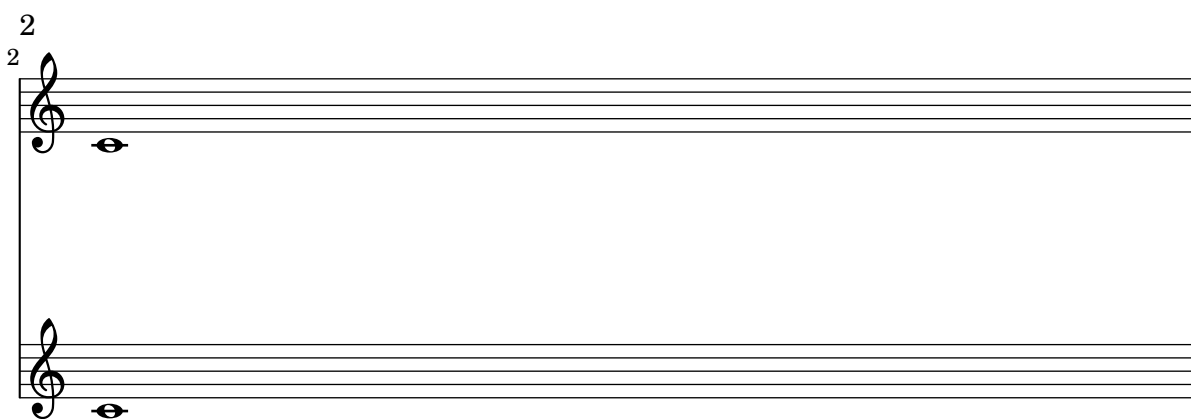
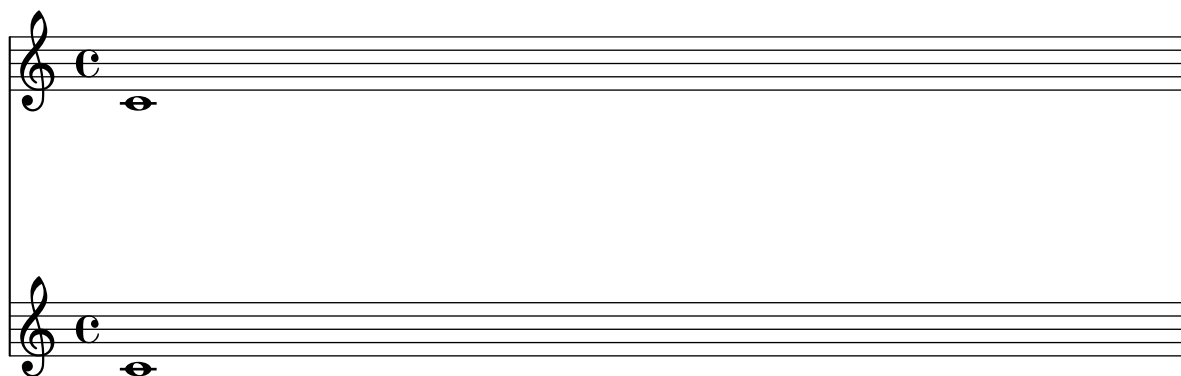
‘page-breaking-min-distance.ly’ minimum-distance is correctly accounted for in page breaking.





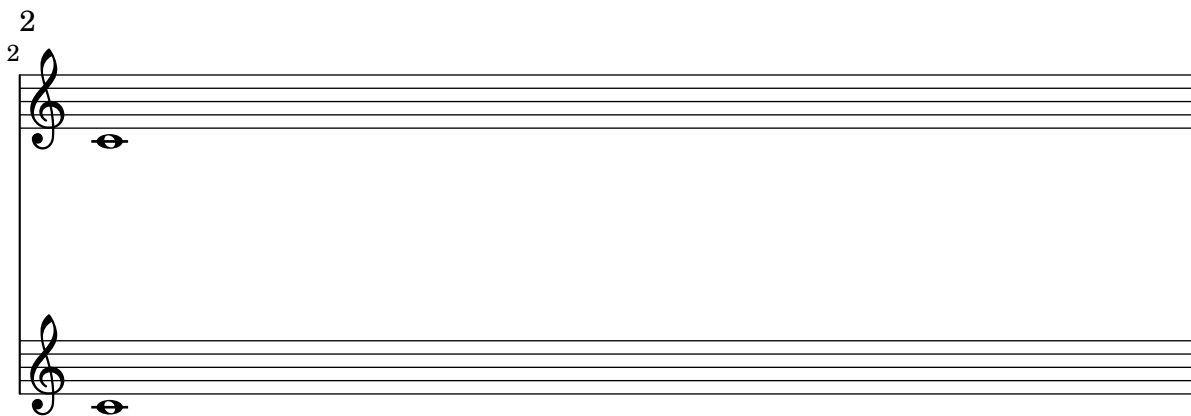
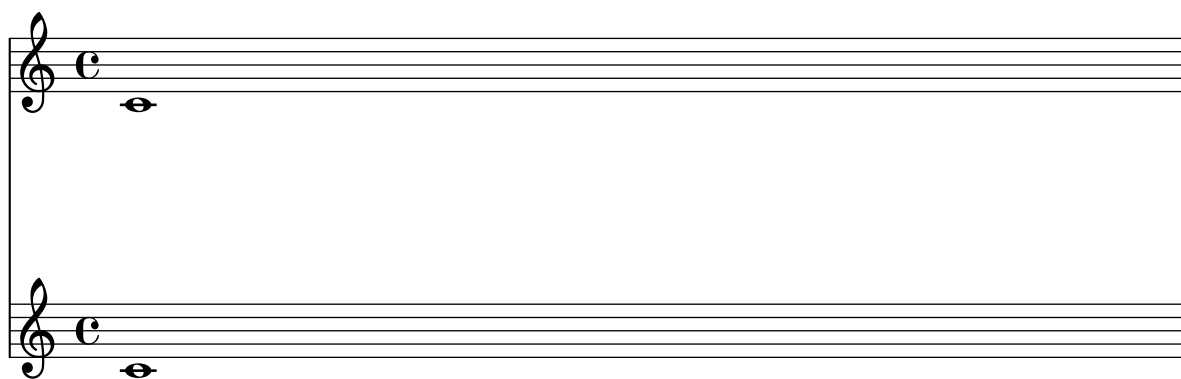
Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘page-breaking-min-distance2.ly’ minimum-distance within a system is correctly accounted for in page breaking.



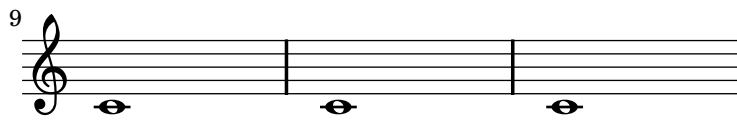
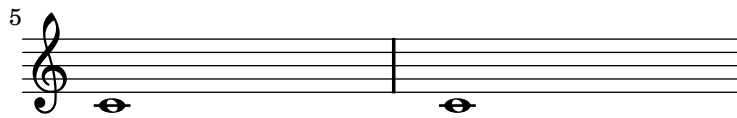
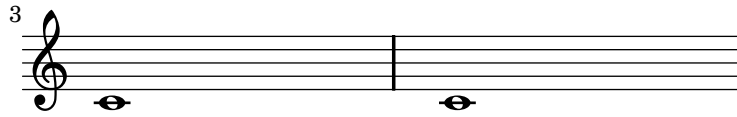
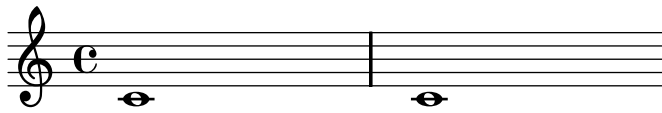
Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘page-breaking-min-distance3.ly’ minimum-distance within a system is correctly accounted for in page breaking.



Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

# Title





Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

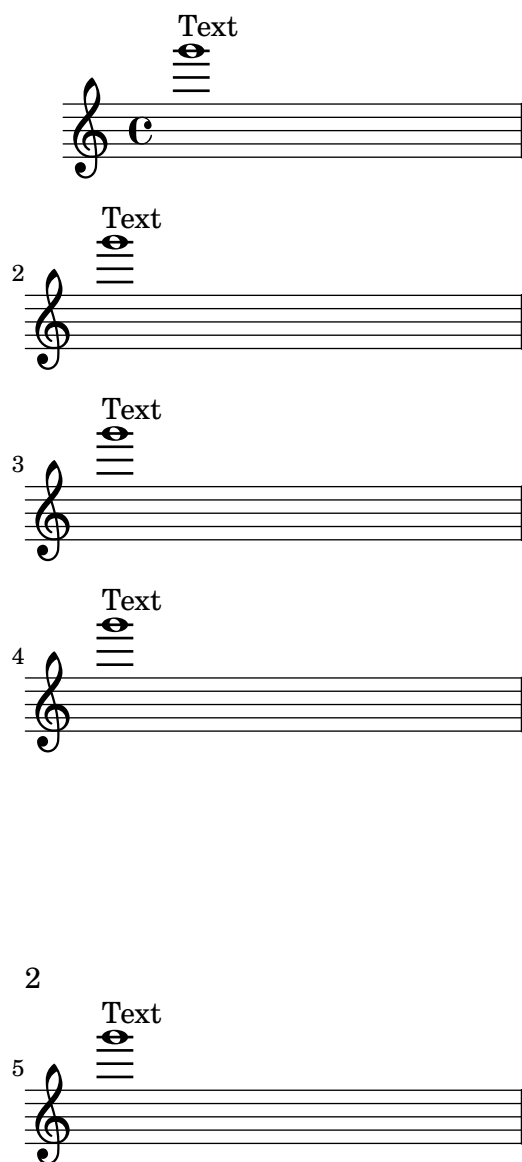
`'page-breaking-min-systems-per-page2.ly'`

The min-systems-per-page variable takes precedence over the desire not to overfill a page. In this case, systems will overlap because they are forced to be on the page.

3  
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Music engraving by LilyPond 2.14.2—www.lilypond.org

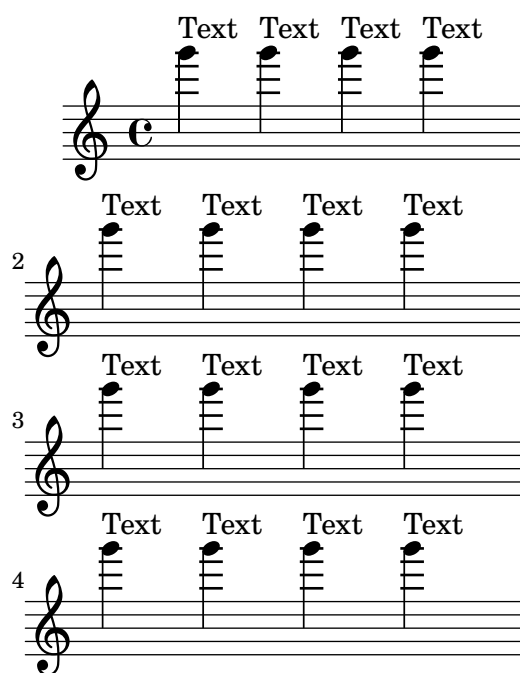
‘page-breaking-outside-staff-estimation.ly’ The height-estimation routine takes into account the fact that the TextScript needs to be moved up to avoid the note. This should be spaced on two pages.



Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

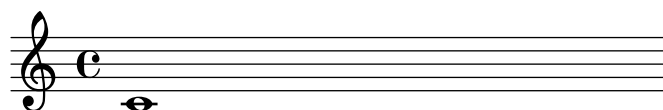
‘page-breaking-outside-staff-estimation2.ly’ The height-estimation routine doesn’t get confused by multiple outside-staff grobs in the same measure.

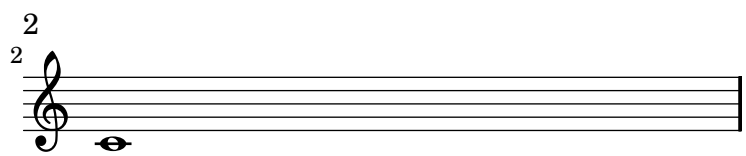




Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

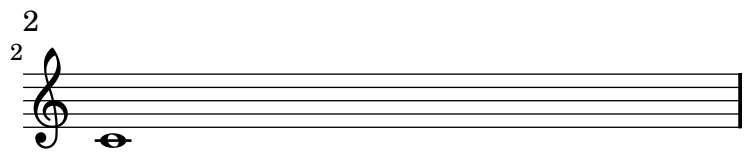
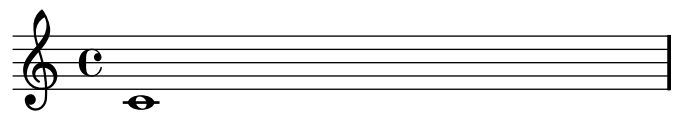
‘page-breaking-page-count1.ly’ The number of pages in a score can be forced by setting page-count in the (book-level) paper block.





Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘`page-breaking-page-count2.ly`’ The number of pages in a score can be forced by setting `page-count` in the (book-level) paper block. If there are too few systems for the number of pages, we append blank pages.



Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

`'page-breaking-page-count3.ly'` The number of pages in a score can be forced by setting `page-count` in the (book-level) paper block. Even if there are too many systems for that number of pages, we will squeeze them in.

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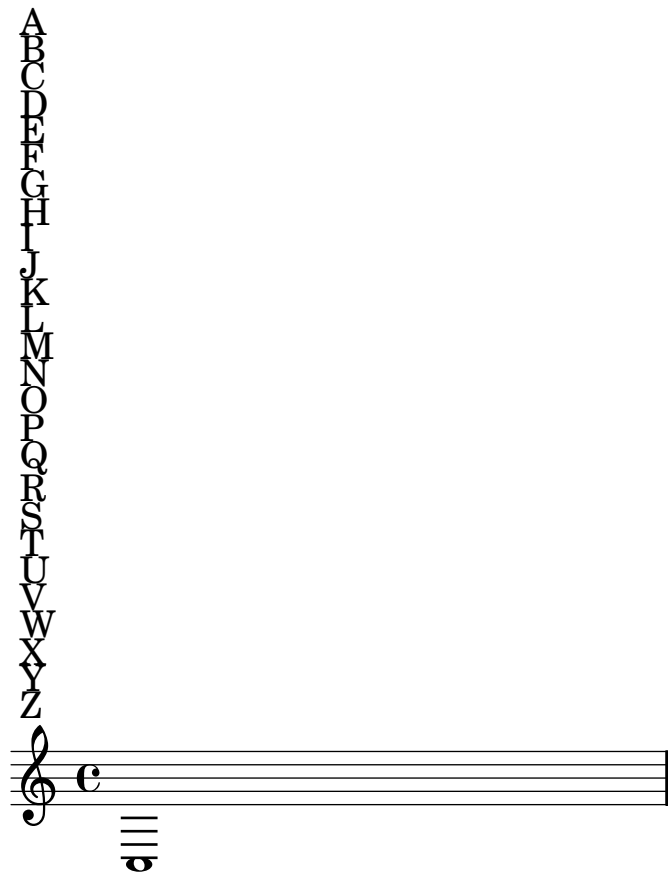
8

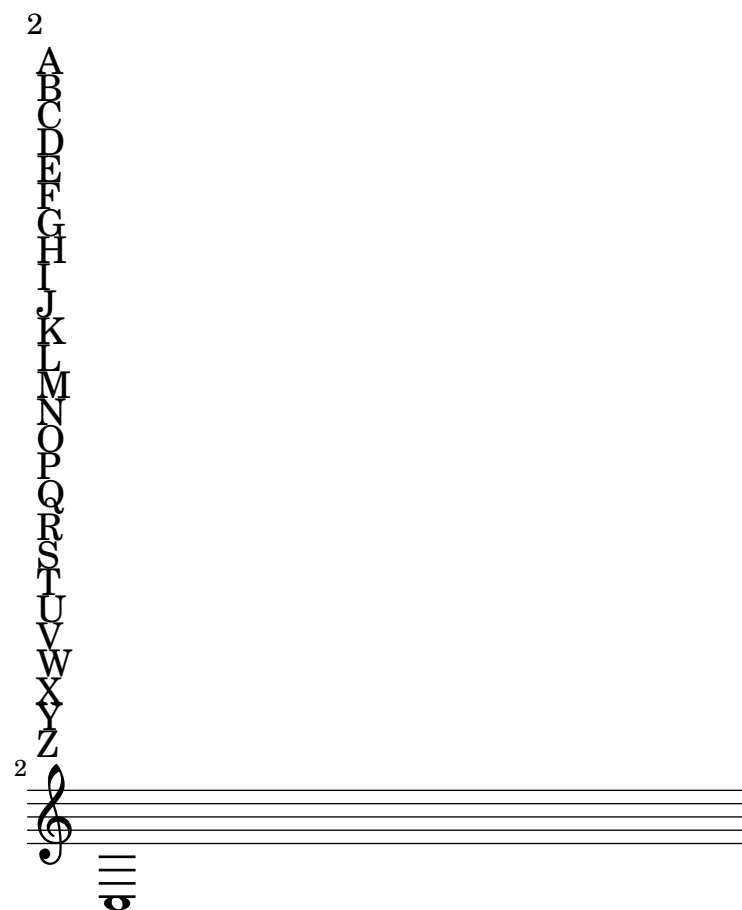
9

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Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

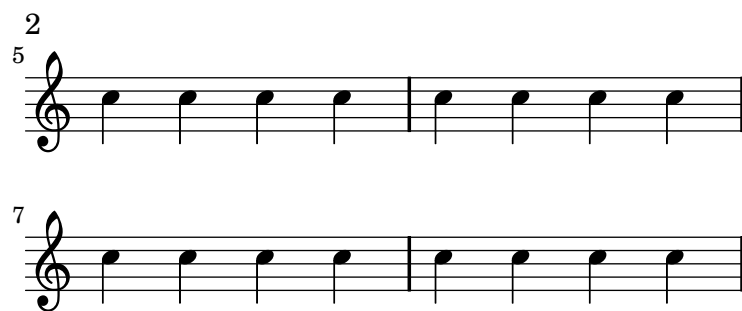
‘page-breaking-rehearsal-mark.ly’ The height of RehearsalMarks is taken into account during page breaking.





Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)



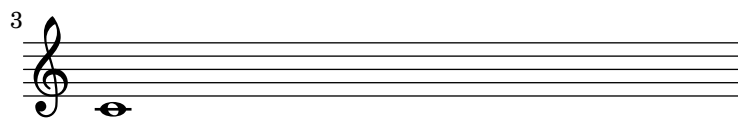
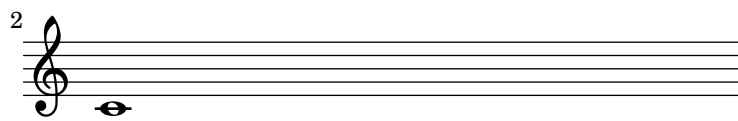
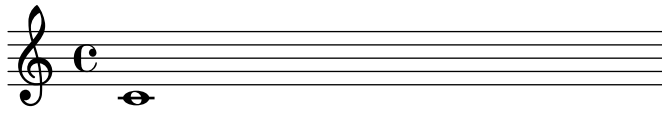


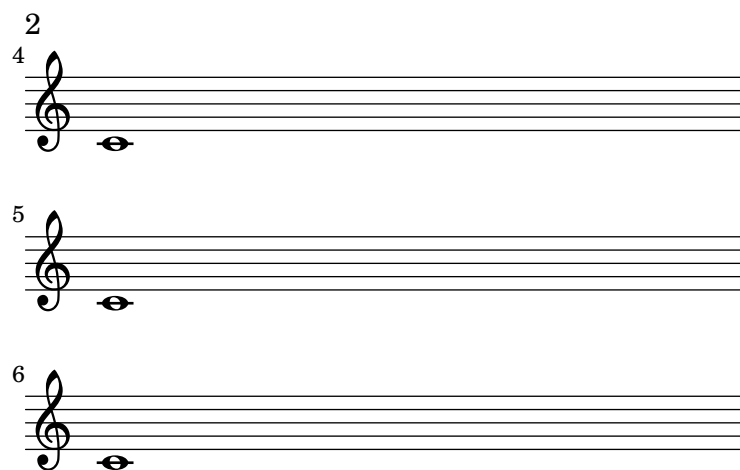
Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘page-breaking-systems-per-page.ly’ The systems-per-page variable forces a certain number of systems per page. Titles are not counted as systems.



# Title






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2

Instrument


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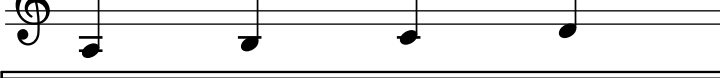
8



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Instrument 3

11 

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15 

Music engraving by LilyPond 2.14.2 4  
[www.lilypond.org](http://www.lilypond.org)

‘page-label-loose-column.ly’ Page labels on loose columns are not ignored: this includes both mid-line unbreakable columns which only contain labels and columns with empty bar lines (and no other break-aligned grobs).

## Table of Contents

Mid-line	1
Empty bar line	1



Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

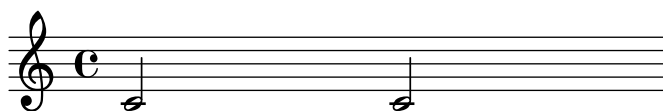
‘page-label.ly’ Page labels may be placed inside music or at top-level, and referred to in markups.

## Title Page

2

### Table of contents

Table of contents	2
First Score	3
Mark A	3
Mark B	4
Mark C	4
Unknown label	?



A (page 3)

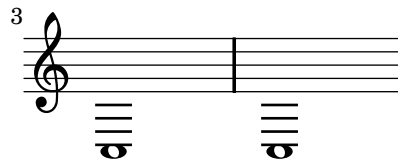
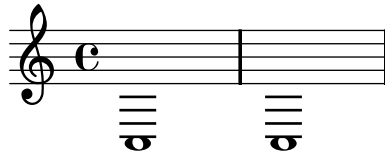




Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘page-layout-manual-position.ly’ By setting `Y-offset` and `X-offset` for the `line-break-system-details` of `NonMusicalPaperColumn`, systems may be placed absolutely on the printable area of the page.





this is the tagline

‘page-layout.ly’ This shows how different settings on `\paper` modify the general page layout. Basically `\paper` will set the values for the whole paper while `\layout` for each `\score` block.

This file is best viewed outside the collated files document.

0.00 space 0.00 min-dist 1.00 padding 0.00 extent

# Title

(and (the) subtitle)

17.04 bottom-of-extent Sub sub title

Poet

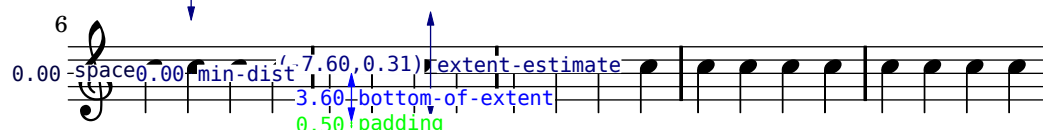
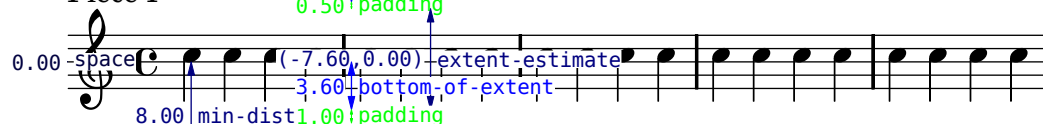
Instrument

Compo

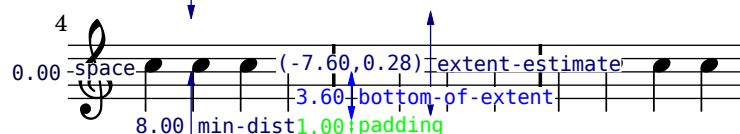
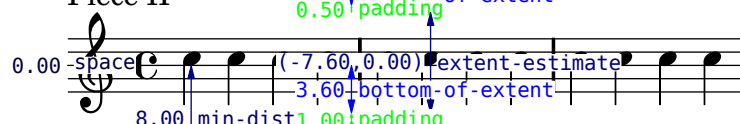
Arran

Meter  
Piece I

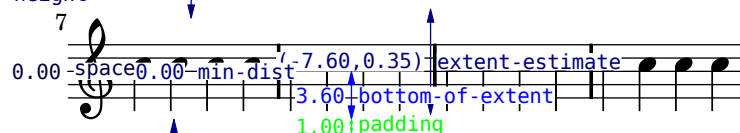
0.00 space 0.00 min-dist 0.50 padding 1.64 bottom-of-extent



0.00 space 0.00 min-dist 1.64 bottom-of-extent 0.50 padding



169.01 paper-height

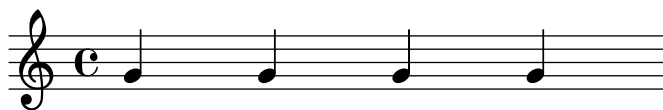


63.39 space left

`'page-limited-space.ly'` The space between systems can be limited when there is too much space left on the page by setting `page-limit-inter-system-space`.

page top

1



2



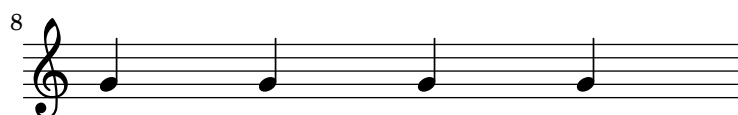
page bottom

page top

2



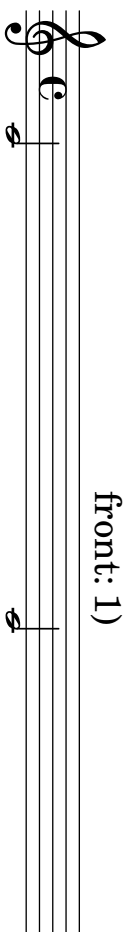
page bottom



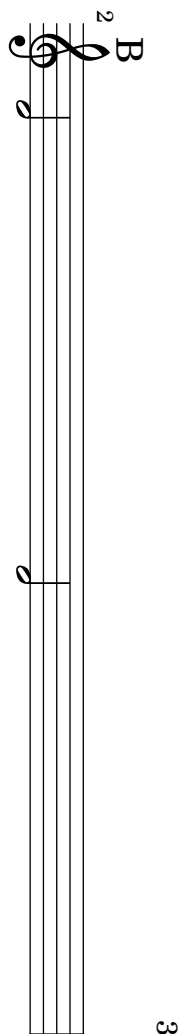
Link to non-existing label

‘page-links.ly’ Links to labels and explicit page number (PDF backend only).

Link to page 2 with label #‘second.  
Explicit link to page 3  
Link to mark B







Text

Text

2

Text

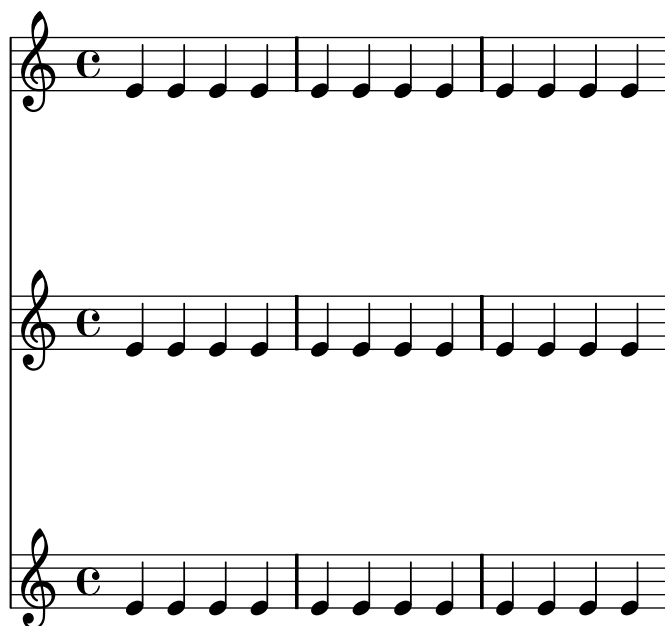
Text

Tagline

‘page-minimal-page-breaking.ly’ The minimal page breaker stacks as many lines on pages,  
only accounting for manual page break commands.



2



3

4

\noPageBreak

Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘page-overflow-compression.ly’

Layouts that overflow a page will be compressed in order to fit on the page, even if it causes collisions. In this example, the tagline should not collide with the bottom staff.

Long Text

Long Text

Long Text

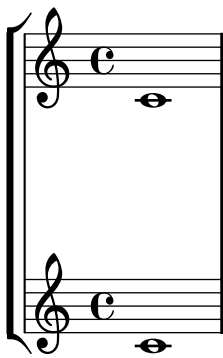
Long Text

Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘page-spacing-bass-figures.ly’ *alignment-distances* applies to the toplevel VerticalAlignment but not to BassFigureAlignment. The 4 in the bass figure line should be directly below the 6.

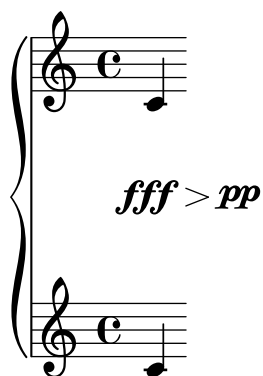


‘page-spacing-bottom-spring.ly’ The spring at the bottom of a page is fairly flexible (much more so than the one at the top), so it does not drag the staff to the bottom of the page. However, it is sufficiently stiff to cause stretching.



Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘page-spacing-dynamics.ly’ Dynamic centering still works with alignment-distances.

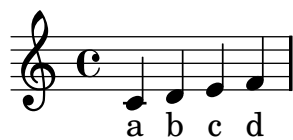


‘page-spacing-markups.ly’ Adjacent lines of markup are placed as closely together as possible.

A  
B  
C  
D  
E

Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

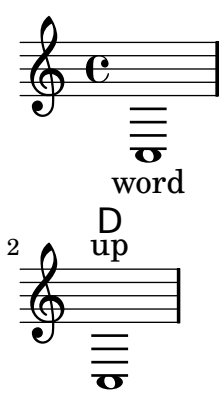
‘page-spacing-nonstaff-lines-and-markup.ly’ Having markup after a non-staff line doesn’t confuse the page layout engine.



blah blah blah

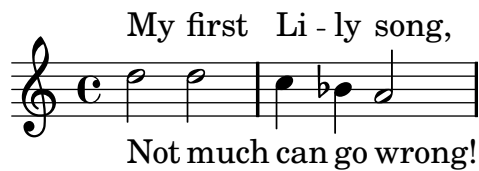
Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

`'page-spacing-nonstaff-lines-between-systems.ly'` The vertical spacing engine is not confused by a non-staff line below a system followed by a loose line above the next system.





‘page-spacing-nonstaff-lines-between.ly’ Non-staff lines between two systems don’t confuse the layout engine. In particular, they don’t interfere with **system-system-spacing**, which controls the flexible spacing between the two closest staves of consecutive systems.

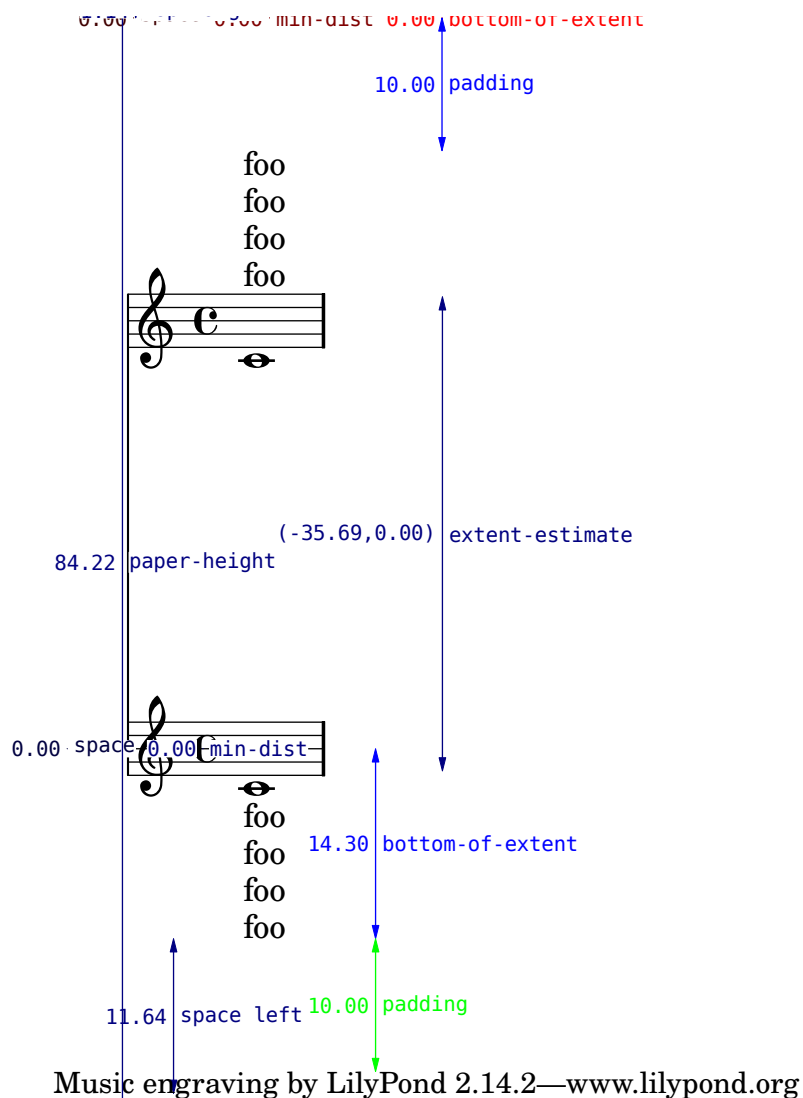


‘page-spacing-nonstaff-lines-bottom.ly’ A non-staff line (such as Lyrics) at the bottom of a system gets spaced appropriately.

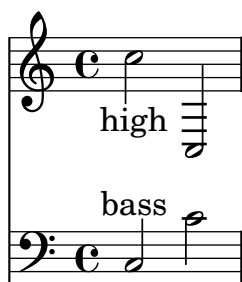


Not much can go wrong!

‘page-spacing-nonstaff-lines-header-padding.ly’ Padding from the header and footer is measured to the first non-staff line, whether or not it is spaceable.

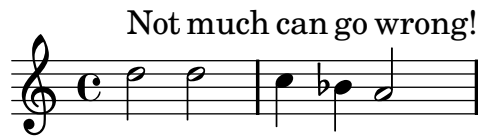


‘page-spacing-nonstaff-lines-independent.ly’ Spacing rules between Staves coexist with rules affecting non-staff lines. Here, the **padding** separating items on different staves is larger than the **padding** for associated lyrics.

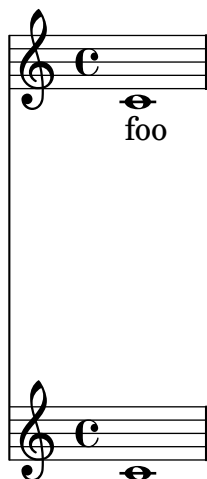


‘page-spacing-nonstaff-lines-top.ly’ A non-staff line (such as Lyrics) at the top of a system is spaced appropriately.

My first Li - ly song,



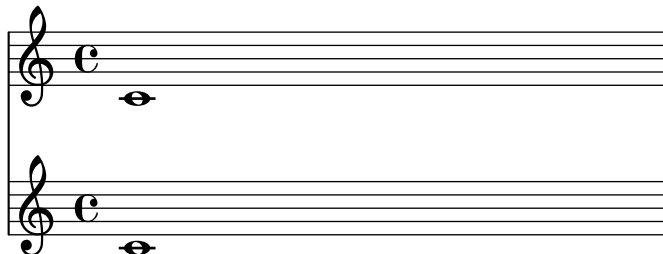
`'page-spacing-nonstaff-lines-unrelated.ly'` Non-staff lines (such as Lyrics) can specify their padding or minimum-distance to the staff for which they don't have affinity.



`'page-spacing-rehearsal-mark.ly'` The space taken up by rehearsal marks is correctly accounted for, even though they live in the Score context.

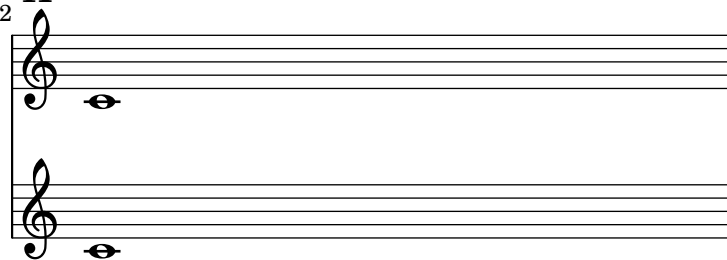
header

T  
A  
L  
L  
M  
A  
R  
K



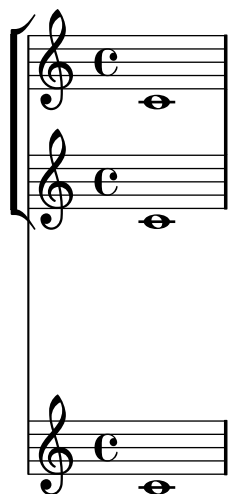
T  
A  
L  
L  
M  
A  
R  
K

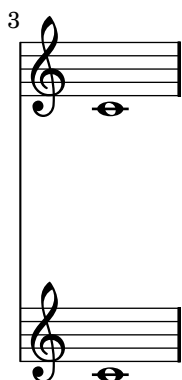
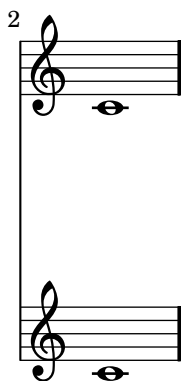
2



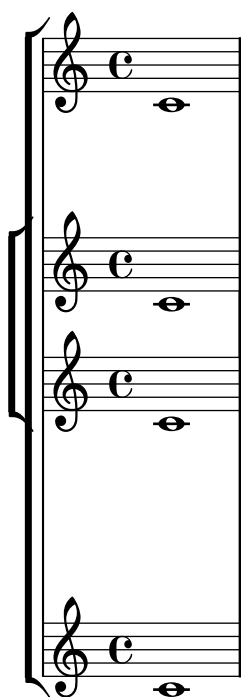
Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘page-spacing-staff-group-hara-kiri.ly’ StaffGrouper interacts correctly with `\RemoveEmptyStaffContext`. In both systems, there should be a large space between the staff groups.

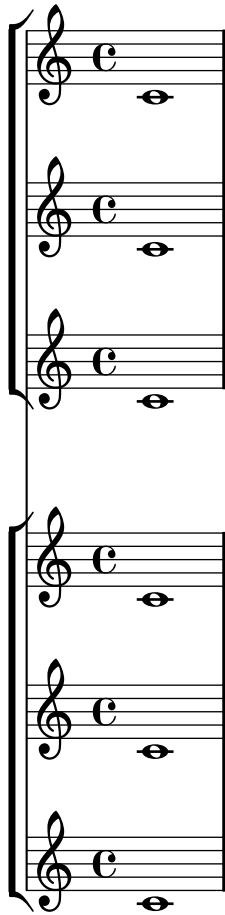




‘page-spacing-staff-group-nested.ly’ StaffGroups can be nested, in which case the inner StaffGroup wins.

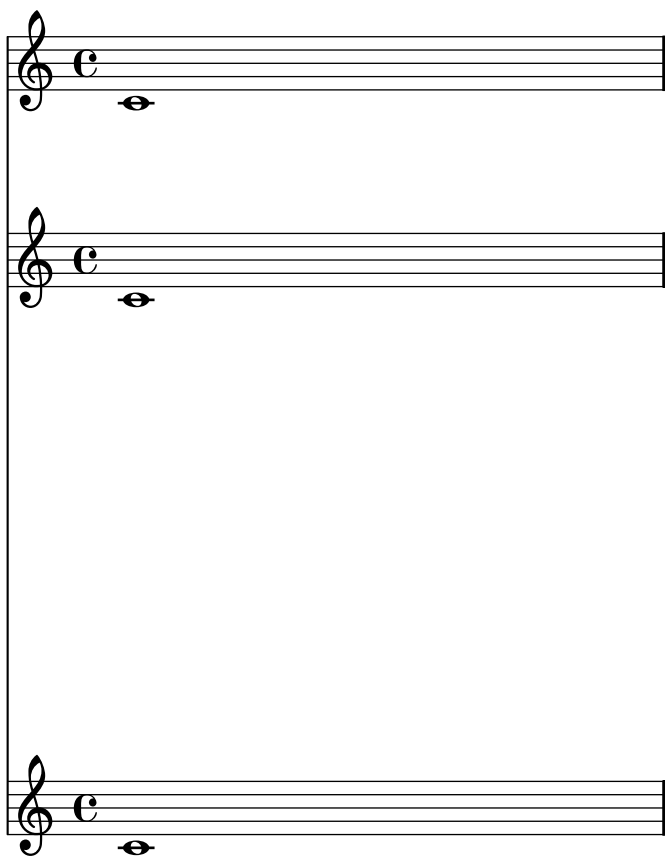


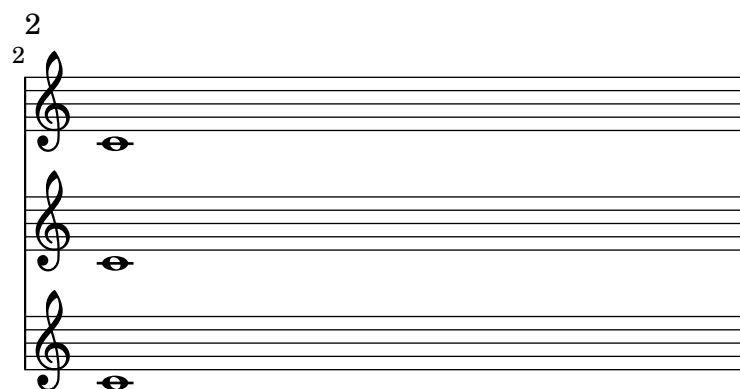
‘page-spacing-staff-group.ly’ By default, the staves within a StaffGroup are spaced more closely than staves not in a StaffGroup.



Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘page-spacing-stretchability.ly’ The stretchability property affects the amount that staves will move under extreme stretching, but it does not affect the default distance between staves.





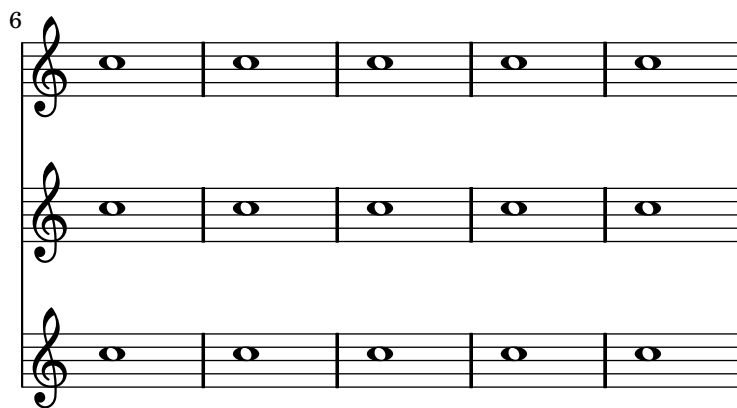
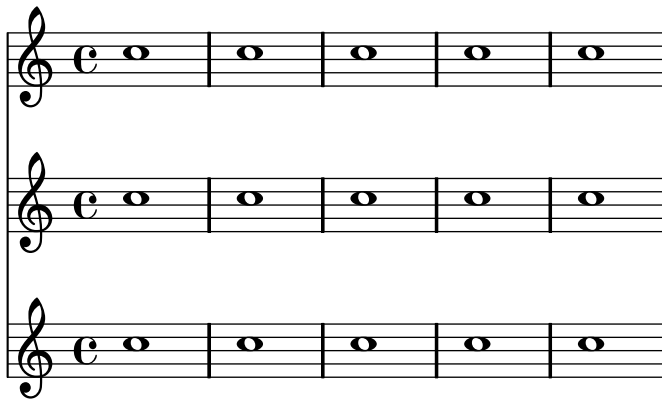
Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘page-spacing-system-count-overfull.ly’ Page breaking doesn’t crash when the line-breaking is invalid.





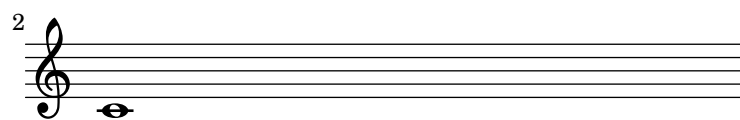
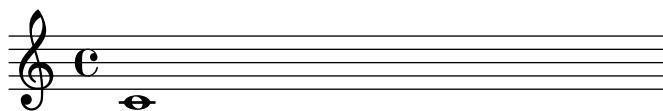
‘page-spacing-system-count.ly’ Page layout and stretching work with system-count enabled.



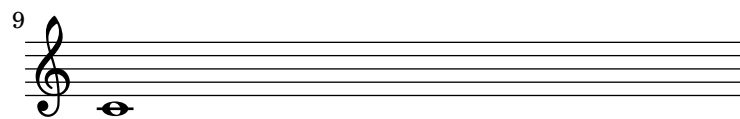
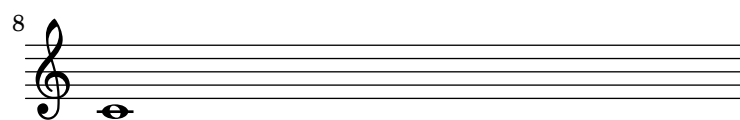
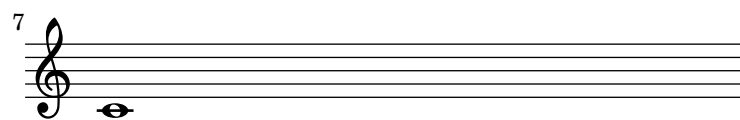
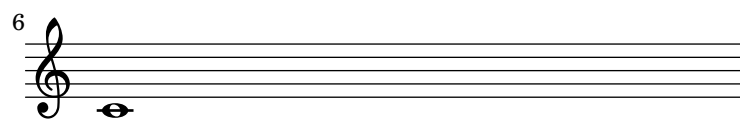
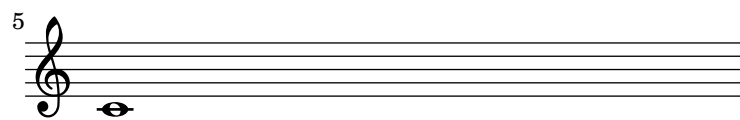
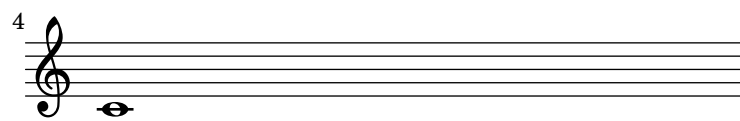
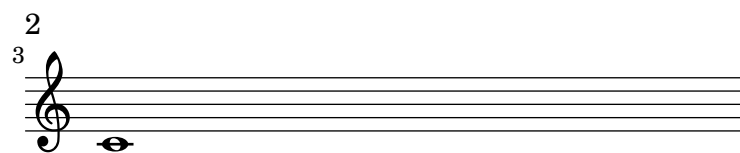
Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘page-spacing-tall-headfoot.ly’ Both the page breaking and the page layout take account of the heights of the header and footer.

t  
a  
l  
l  
h  
e  
a  
d  
e  
r

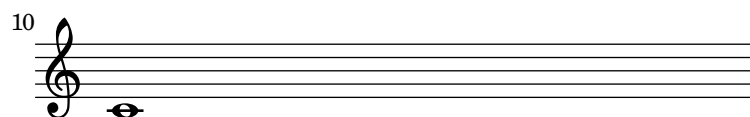


t  
a  
l  
l  
f  
o  
o  
t  
e  
r



small footer

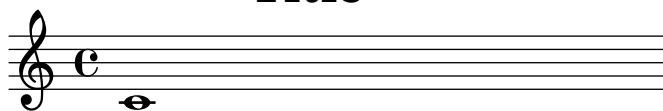
t  
a  
l  
l  
h  
e  
a  
d  
e  
r

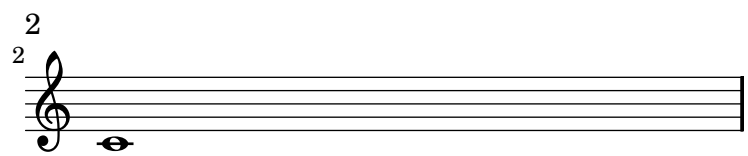


t  
a  
l  
l  
f  
o  
o  
t  
e  
r

‘page-spacing-top-markup-spacing.ly’ `top-markup-spacing` controls the spacing from the top of the printable area (i.e. the bottom of the top margin) to a title or markup, when it is the first item on a page.

**Title**

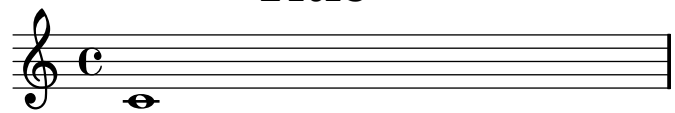


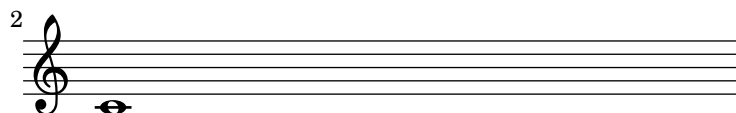


Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘`page-spacing-top-system-spacing.ly`’ `top-system-spacing` controls the spacing to the first non-title staff on every page.

**Title**



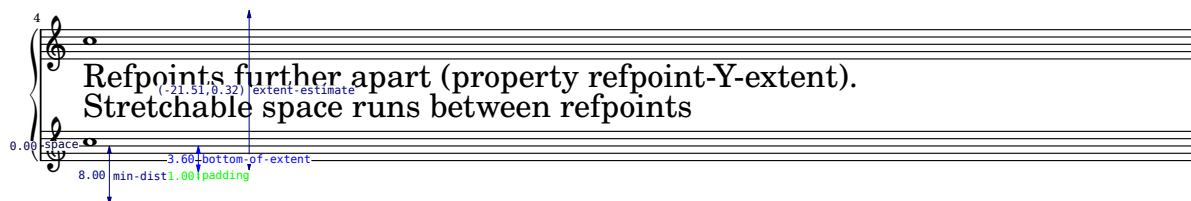
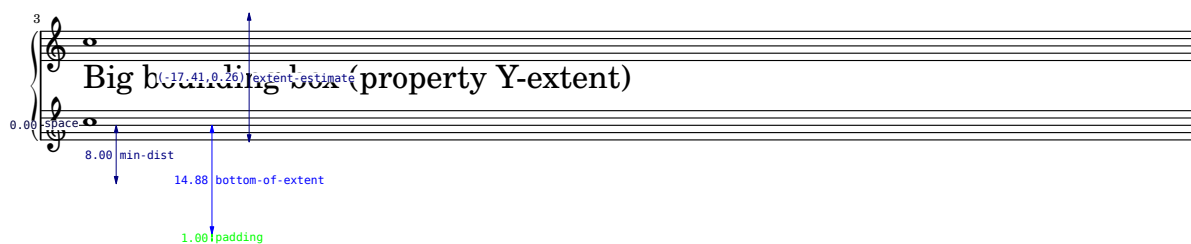
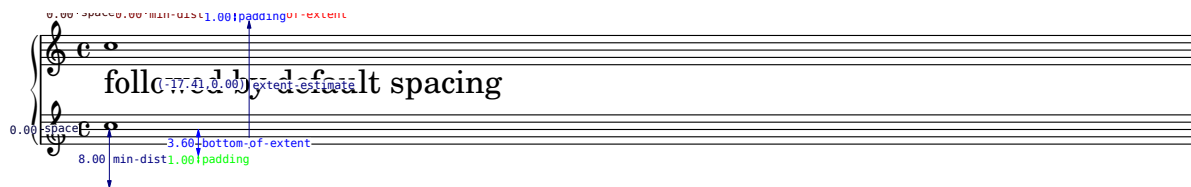


Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

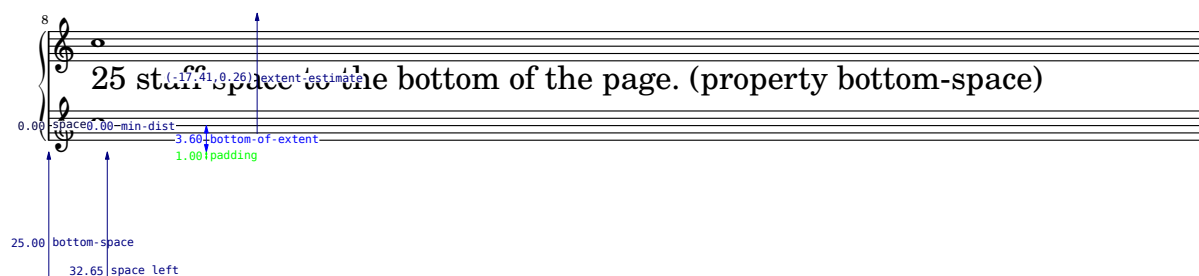
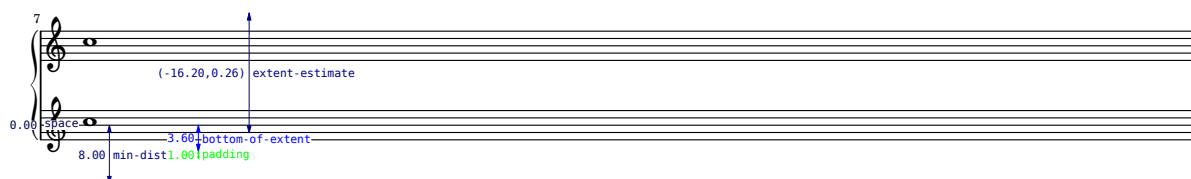
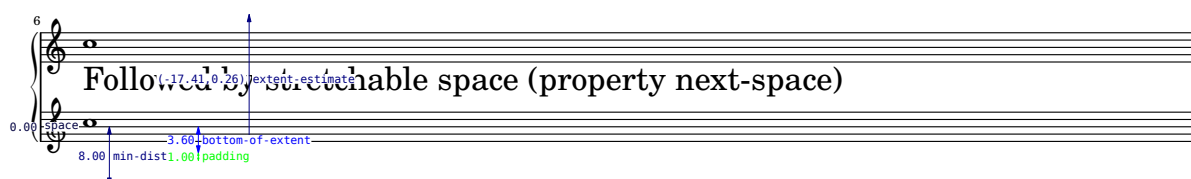
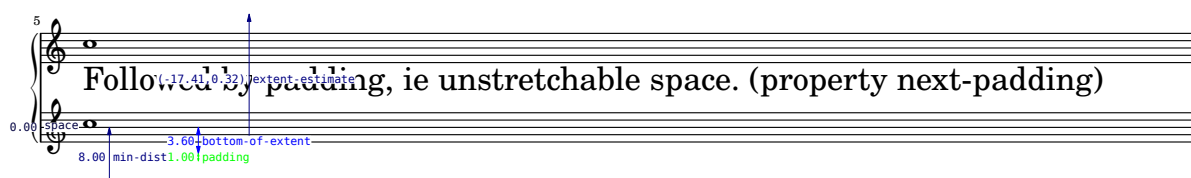
‘`page-spacing.ly`’ By setting properties in `NonMusicalPaperColumn`, vertical spacing of page layout can be adjusted.

For technical reasons, `overrideProperty` has to be used for setting properties on individual object. `\override` may still be used for global overrides.

By setting `annotate-spacing`, we can see the effect of each property.

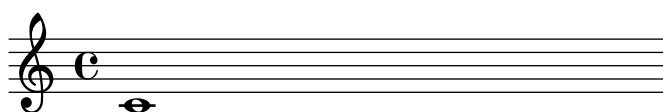


307.29 paper-height

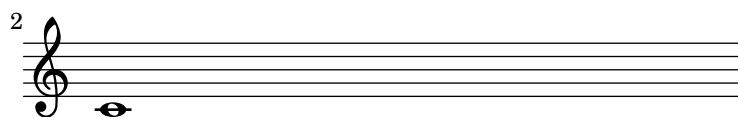


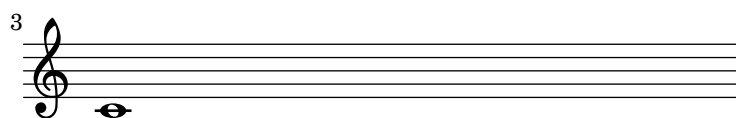


`'page-top-space.ly'` By setting `page-top-space`, the Y position of the first system can be forced to be uniform.

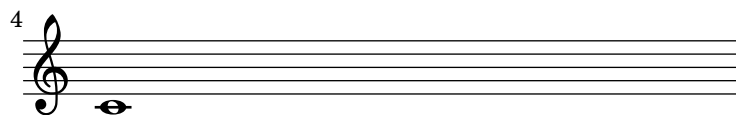


2





4  
bla



Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘page-turn-page-breaking-auto-first-page.ly’ By default, we start with page 1, which is on the right hand side of a double page. In this example, auto-first-page-number is set to `##t` and the music won’t fit on a single page, so we should automatically set the first page number to 2 in order to avoid a bad page turn.

2



5



10



15



20



25



29



33





Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘page-turn-page-breaking-auto-first-page2.ly’ By default, we start with page 1, which is on the right hand side of a double page. In this example, auto-first-page-number is set to `##t`. Although the first measure could go on a page by itself, this would require stretching the first page badly, so we should automatically set the first page number to 2 in order to avoid a bad page turn.

2



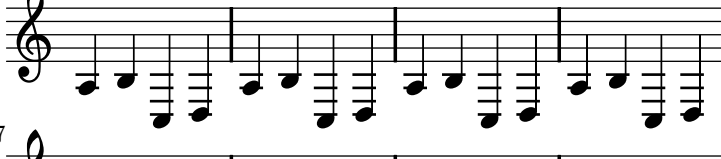
5



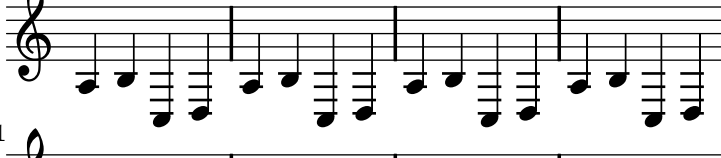
9



13



17



21



25



[illegible]

Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

`‘page-turn-page-breaking-badturns.ly’` If there are no good places to have a page turn, the optimal-breaker will just have to recover gracefully. This should appear on 3 pages.

Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

`‘page-turn-page-breaking-repeats.ly’` The page-turn engraver will not count potential page turns if they occur in the middle of a repeat unless there is a long gap at the beginning or at the end of the repeat.

Handwritten musical score in treble clef, common time (C), featuring a continuous eighth-note melody. The score is divided into systems, with measure numbers 6, 10, 20, 25, 27, 30, 32, 44, and 48 marked at the beginning of their respective lines. The melody consists of a repeating eighth-note pattern (C4, D4, E4, F4, G4, A4, B4, C5) with occasional rests and a final triplet ending. The notation includes a repeat sign at measure 27 and a final double bar line with a repeat sign at the end of the piece.

‘page-turn-page-breaking.ly’ The page-turn breaker will put a page turn after a rest unless there is a ‘special’ barline within the rest, in which case the turn will go after the special barline.

2



3



4

9



14



18

6



22



26

8



35



Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘palm-mute.ly’ The palm mute technique for stringed instruments is supported by triangle-shaped note heads.



▲ = palm mute

‘paper-default-margins-a6.ly’ Default values for margins, indents, and offsets are accessible in paper-defaults-init.ly and apply to the default paper size returned by (ly:get-option ‘paper-size’). For other paper sizes, they are scaled linearly.

For other paper sizes, margins are scaled accordingly.

4

8

12

15

18

Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

‘paper-default-margins-def.ly’ Default values for margins, indents, and offsets are accessible in paper-defaults-init.ly and apply to the default paper size returned by (ly:get-option ‘paper-size’). For other paper sizes, they are scaled linearly.

If the paper size remains default, the margin values from paper-defaults-init.ly remain unchanged



`'paper-margins-consistency.ly'` Margin values must fit the line-width, that means:  $\text{paper-width} = \text{line-width} + \text{left-margin} + \text{right-margin}$ . In case they do not, default margins are set and a warning is printed.



`'paper-margins-left-margin.ly'` Here only left-margin is given, right-margin will remain default.



`'paper-margins-line-width.ly'` If only line-width is given, systems are horizontally centered.





`'paper-margins-no-checks.ly'` All checks can be avoided by setting `check-consistency` to `##f` in `\paper`.



`'paper-margins-overflow.ly'` Normally, margin settings must not cause systems to run off the page.



`'paper-margins-right-margin.ly'` Here only right-margin is given, left-margin will remain default.

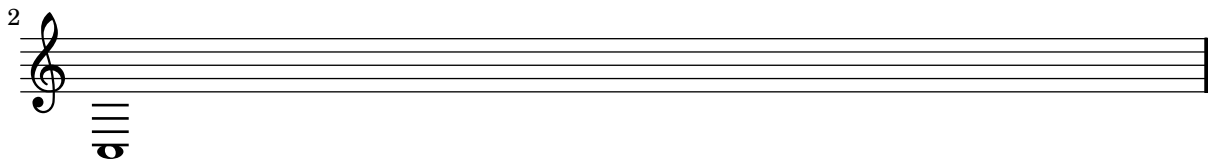
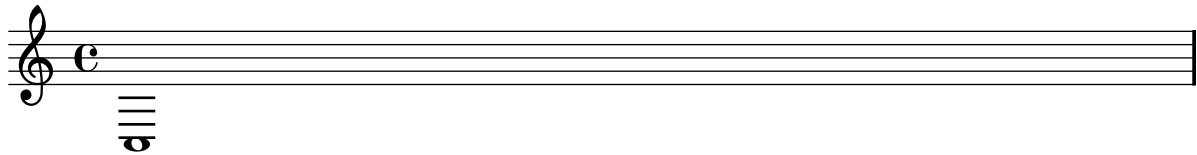


`'paper-margins.ly'` Paper margin settings do not have to be complete. Missing values are added automatically. If no paper settings are specified, default values are used.

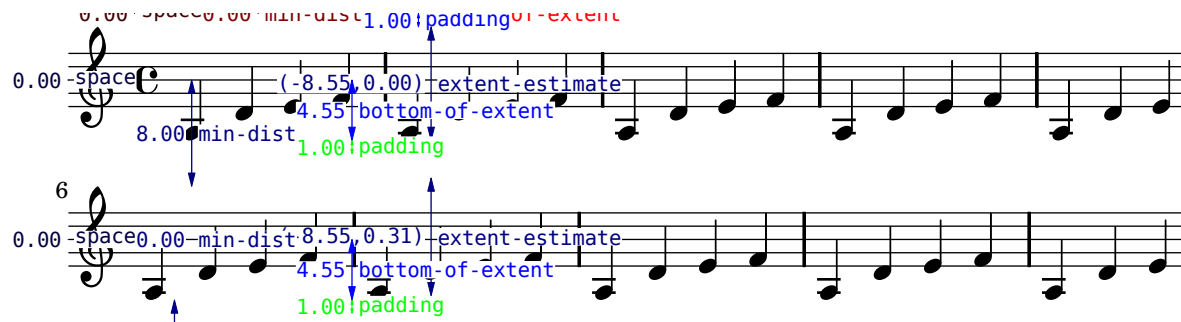




‘paper-nested-override.1y’ Nested properties can be set in the paper block.



‘paper-nested-override2.1y’ Setting individual nested paper properties does not remove existing settings or break spacing annotation.



169.01 paper-height

140.76 space left

`'paper-twosided-bcorr.ly'` In two-sided mode, a binding offset can be specified, which is added to the inner margin automatically.



2

99



106



113



120



127



134



141



148



155



162



169



177



185



193



`'paper-twosided.ly'` Two-sided mode allows you to use different margins for odd and even pages.



2

99

106

113

120

127

134

141

148

155

162

169

177

185

193

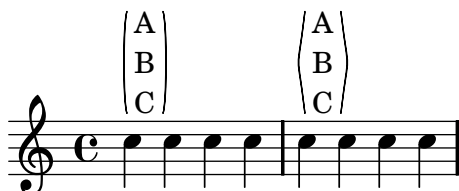
This image displays a musical score for a single melodic line, consisting of 14 staves of music. The notation is written on a five-line staff with a treble clef. The key signature is one flat (B-flat), and the time signature is 4/4. The melody is composed of eighth and sixteenth notes, with rests. The score is divided into measures by vertical bar lines. The first staff begins with a measure rest for two measures, indicated by the number '2' above the staff. The measure numbers 99, 106, 113, 120, 127, 134, 141, 148, 155, 162, 169, 177, 185, and 193 are placed at the beginning of each staff. The music continues across the 14 staves, with the final staff ending with a double bar line.



`'parenthesize-markup.ly'`

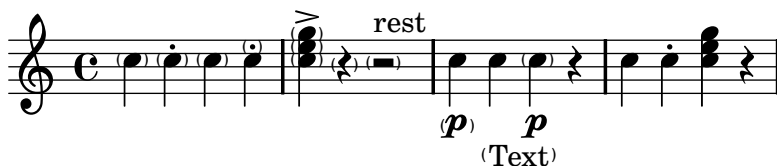
The parenthesize markup will place parentheses around any stencil.

The angularity of the parentheses can be adjusted.



`'parenthesize-singlenotes-chords-rests.ly'` The parenthesize function should also work on single notes (not inside chords), rests and on whole chords (each note of the chord is parenthesized). Also, parenthesizing articulations, dynamics and text markup is possible. On all other music expressions, parenthesize does not have an effect.

Measure 1: Three parenthesized notes (staccato not parenthesized), one note with staccato in parentheses; Measure 2: Chord and two rests in parentheses (accent and markup not); Measure 3: note (no parentheses) with `\p` in parentheses, with text in parentheses, and note in parentheses with `p` not in parentheses, rest (no parentheses); Measure 4: shows that `\parenthesize` does not apply to other expressions like `SequentialMusic`



`'parenthesize.ly'` The parenthesize function is a special tweak that encloses objects in parentheses. The associated grob is `Score.ParenthesesItem`.



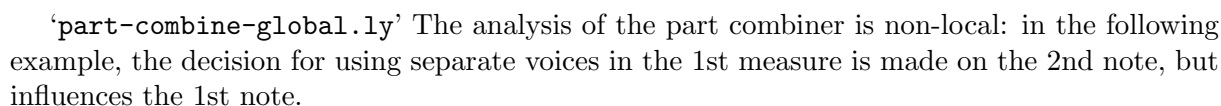
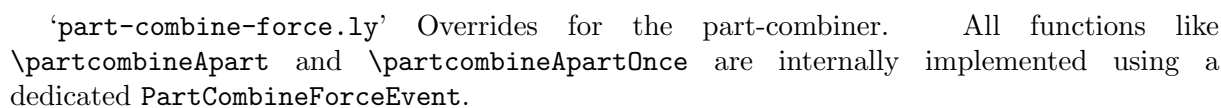
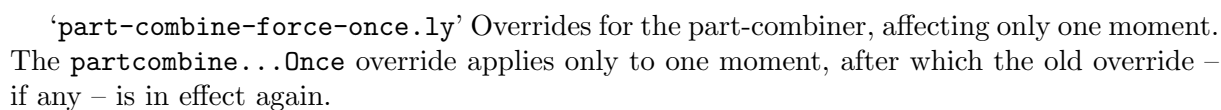
`'part-combine-a2.ly'` The `a2` string is printed only on notes (i.e. not on rests), and only after chords, solo or polyphony.



`'part-combine-cross.ly'` The part combiner stays apart for crossing voices.



`'part-combine-force-mmrest-position.ly'` If the part-combiner shows two separate voices, multi-measure rests are supposed to use the same settings as `\voiceOnce` and `\voiceTwo`.



The first system of the musical score is written on a single staff in treble clef with a common time signature (C). The melody consists of the following notes: C4 (quarter), D4 (quarter), E4 (quarter), F4 (quarter), G4 (half), A4 (quarter), B4 (quarter), and C5 (half). Above the staff, the Roman numerals **I°** and **II** are placed above the first and second measures respectively. A box containing the text **a 2** is positioned above the staff, spanning the final two measures (G4 and A4).

The musical notation shows two sections: 'Solo II' and 'Solo'. 'Solo II' consists of four measures: a whole note G4, a whole note A4, a half note B4, and a half note A4. 'Solo' consists of three measures: a whole note G4, a whole note A4, and a whole note B4.

**Solo II**



`'part-combine-solo-global.ly'` In this example, solo1 should not be printed over the 1st note, because of the slur which is present from the one-voice to the two-voice situation.



`'part-combine-solo.ly'` A solo string can only be printed when a note starts. Hence, in this example, there is no Solo-2 although the 2nd voice has a dotted quarter, while the first voice has a rest.

A Solo indication is only printed once; (shared) rests do not require reprinting a solo indication.

Solo 1/2 can not be used when a spanner is active, so there is no solo over any of the tied notes.



`'part-combine-text-wait.ly'` Wait for the next real note for part-combine texts (i.e. don't print part-combine texts on rests). This is needed because the part-combiner needs an override if one voice has a full-bar rest while the other has some rests and then a solo.



`'part-combine-text.ly'` The part combiner detects a2, solo1 and solo2, and prints texts accordingly.



`'part-combine-tuplet-end.ly'` End tuplets events are sent to the starting context, so even after a switch, a tuplet ends correctly.



`'part-combine-tuplet-single.ly'` Tuplets in combined parts only print one bracket.



`'part-combine.ly'` The new part combiner stays apart from:

- different durations,

- different articulations (taking into account only slur/beam/tie), and
- wide pitch ranges.



‘partial-polymetric.ly’ \partial works with polymetric staves.



‘pdfmark-metadata-unicode.ly’ PDF metadata need either Latin1 encoding (not UTF8) or full UTF-16BE with BOM. The title field uses full UTF-16 (russian characters, euro, etc), while the composer uses normal european diacrits (which need to be encoded as Latin1, not as UTF8). Closing parenthesis need to be escaped by a backslash AFTER encoding!

**UTF-16BE title:** € ÅÆRÛ ù )\ ;

UTF-16BE with parentheses: ) € ÅÆRÛ ù Latin1 composer (with special chars): Jöhåññ Strauß



‘pdfmark-metadata.ly’ The PDF backend uses several header fields to store metadata in the resulting PDF file. Header fields with the prefix pdf override those without the prefix for PDF creation (not for visual display on the page).

***Title of the piece***  
**Subtitle of the piece**

**The Genius Composer**  
 The Arranger

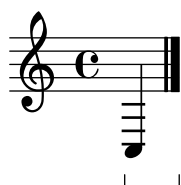


‘pedal-bracket.ly’ The brackets of a piano pedal should start and end at the left side of the note. If a note is shared between two brackets, these ends are flared.

At a line-break, there are no vertical endings.



‘pedal-end.ly’ Unterminated piano pedal brackets run to the end of the piece.

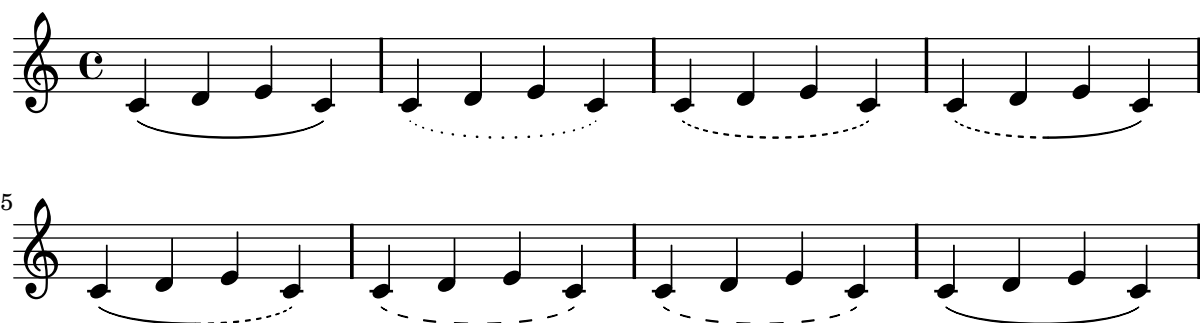


‘pedal-ped.ly’ The standard piano pedals style comes with Ped symbols. The pedal string can be also tuned, for example, to a shorter tilde/P variant at the end of the melody.



‘phrasing-slur-dash.ly’

The appearance of phrasing slurs may be changed from solid to dotted or dashed.



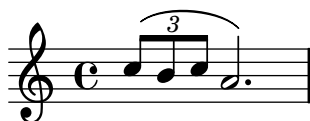
‘phrasing-slur-multiple.ly’ LilyPond does not support multiple concurrent phrasing slurs with the parentheses syntax. In this case, warnings will be given and the nested slur will not be generated. However, one can create a second slur with a different spanner-id.



‘phrasing-slur-slur-avoid.ly’ PhrasingSlurs go over normal slurs.

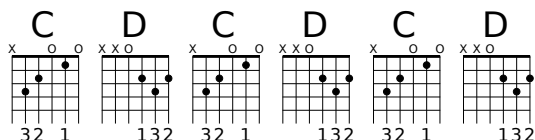


‘phrasing-slur-tuplet.ly’ Phrasing slurs do not collide with triplet numbers.

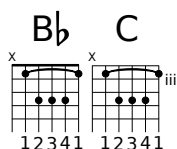


‘predefined-fretboards-transpose.ly’

Transposition by less than one octave up or down should not affect predefined fretboards.



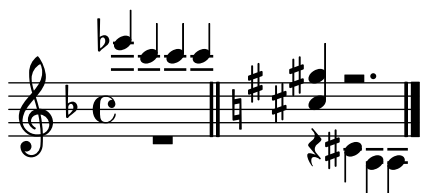
‘predefined-fretboards.ly’ Predefined fretboards and chord shapes can be added.



‘prefatory-empty-spacing.ly’ The A is atop an invisible barline. The barline, although invisible, is also translated because it is the last one of the break alignment.



‘prefatory-separation.ly’ Prefatory items maintain sufficient separation from musical notation for readability, even in tight spacing. The notes should remain generally on the correct side of the time signature, key signature and barlines. A key change to G major should be legible.



‘prefatory-spacing-matter.ly’ Distances between prefatory items (e.g. clef, bar, etc.) are determined by engraving standards. These distances depend on which items are combined. Mid-line, the order for clef and bar-line is different from the start of line.



‘profile-property-access.ly’

heavily mutilated Edition Peters Morgenlied by Schubert

# LilyPond demo

Lieblich, etwas geschwind

1. Sü - ßes  
2. . . . . כיף



3  
Licht! Aus gol - de-nen Pfor - ten brichst du\_



5  
sie - gend durch\_ die Nacht. Schö - ner  
זה . . . . . כיף . . . . .

*cresc.* - - - - -



7  
Tag, du\_ bist er - wacht.\_

*f*





‘property-grace-polyphony.ly’ Property overrides and reverts from `\grace` do not interfere with the overrides and reverts from polyphony.



‘property-nested-override.ly’ Nested properties may be overridden using Scheme list syntax. This test performs two property overrides: the first measure uses standard `\override` syntax; the second uses a list.



‘property-nested-revert.ly’ nested properties may also be reverted. This uses Scheme list syntax.



‘property-once.ly’ Once properties take effect during a single time step only.



‘quote-cue-during.ly’ The `cueDuring` form of quotation will set stem directions on both quoted and main voice, and deliver the quoted voice in the `cue Voice`. The music function `\killCues` can remove all cue notes.

Spanners run to the end of a cue section, and are not started on the last note.



‘quote-cue-event-types.ly’ The `cueDuring` and `quoteDuring` forms of quotation will use the variables `quotedCueEventTypes` and `quotedEventTypes` to determine which events are quoted. This allows different events to be quoted for cue notes than for normal quotes.

`quotedEventTypes` is also the fallback for cue notes if `quotedCueEventTypes` is not set.

Quoted Voice

quoteDuring

cueDuring

Fallback

‘quote-cyclic.ly’ Two quoted voices may refer to each other. In this example, there are notes with each full-bar rest.

‘quote-during.ly’ With `\cueDuring` and `\quoteDuring`, fragments of previously entered music may be quoted. `quotedEventTypes` will determines what things are quoted. In this example, a 16th rest is not quoted, since `rest-event` is not in `quotedEventTypes`.

quoteMe

orig

orig+quote

‘quote-grace.ly’ Quotes may contain grace notes. The grace note leading up to an unquoted note is not quoted.

quoted

quoted

original

‘quote-kill-cues.ly’ `\killCues` shall only remove real cue notes generated by `\cueDuring`, but not other music quoted using `\quoteDuring`.



‘quote-overrides.ly’ The `\quoteDuring` command shall also quote correctly all `\override`, `\once \override`, `\revert`, `\set`, `\unset` and `\tweak` events. The first line contains the original music, the second line quotes the whole music and should look identical.

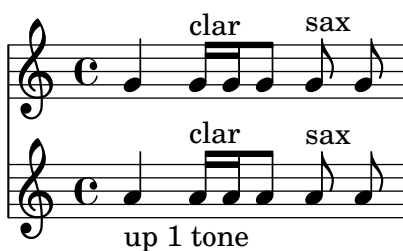
By default, not all events are quoted. By setting the quoted event types to `'(StreamEvent)`, everything should be quoted.



‘quote-tie.ly’ Voices from different cues must not be tied together. In this example, the first note has a tie. This note should not be tied to the second visible note (following the rest). Note that this behavior will not hold for cues in direct succession, since only one `CueVoice` context is created (with `context-id` ‘cue’).



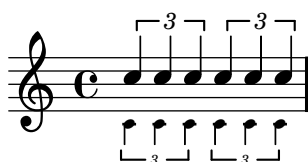
‘quote-transposition.ly’ Quotations take into account the transposition of both source and target. In this example, all instruments play sounding central C, the target is an instrument in F. The target part may be `\transposed`. In this case, all the pitches (including the quoted ones) will be transposed as well.



‘quote-tuplet-end.ly’ Tuplet bracket ends properly when quoting.



‘quote-tuplet.ly’ In cue notes, Tuplet stops are handled before new tuplets start.



‘quote.ly’ With `\quote`, fragments of previously entered music may be quoted. `quotedEventTypes` will determines what things are quoted. In this example, a 16th rest is not quoted, since `rest-event` is not in `quotedEventTypes`.

quoteMe

orig

orig+quote

‘ragged-bottom-one-page.ly’ For a one-page score, `ragged-bottom` should have the same effect as `ragged-last-bottom`.

‘ragged-right-compressed.ly’ When a score takes up only a single line and it is compressed, it is not printed as ragged.

6

‘ragged-right-disabled.ly’ When `ragged-right` is specifically disabled, a score with only one line will not be printed as ragged.

‘ragged-right-one-line.ly’ When a score takes up only a single line and it is stretched, it is printed as ragged by default.

‘rehearsal-mark-align-priority.ly’ When the break-align-symbols property is given as a list, the alignment depends on which symbols are visible.



‘rehearsal-mark-align-staff-context.ly’ RehearsalMarks still align correctly if Mark\_engraver is moved to another context.



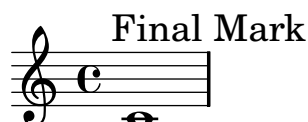
‘rehearsal-mark-align.ly’ The rehearsal mark is put on top a breakable symbol, according to the value of break-align-symbols value of the RehearsalMark. The same holds for BarNumber grobs.



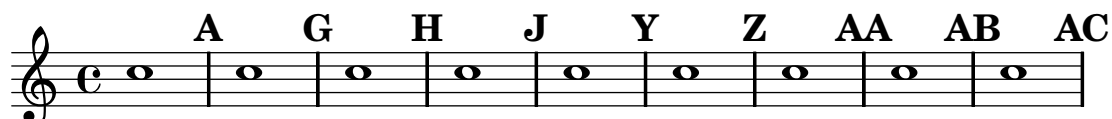
‘rehearsal-mark-direction.ly’ Rehearsal marks with direction DOWN get placed at the bottom of the score.



‘rehearsal-mark-final-score.ly’ Rehearsal marks at the end of the last measure of a score are automatically made visible.

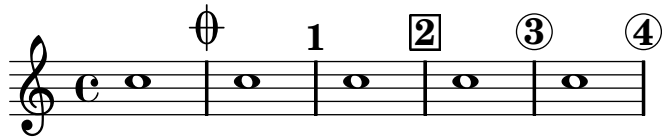


‘rehearsal-mark-letter.ly’ Rehearsal marks in letter style: the I is skipped, and after Z, double letters are used. The mark may be set with \mark NUMBER, or with Score.rehearsalMark.



‘rehearsal-mark-number.ly’

Marks can be printed as numbers. By setting `markFormatter` we may choose a different style of mark printing. Also, marks can be specified manually, with a markup argument.

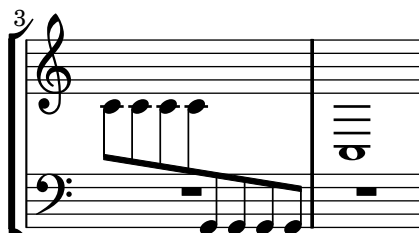


`'relative-repeat.ly'` Relative mode for repeats uses order of entry.



`'remove-empty-staves-auto-knee.ly'`

`RemoveEmptyStaves` should keep the pre-existing value of `auto-knee-gap`. In this case, the cross-staff beam should be between the two staves.



`'remove-empty-staves-with-rests.ly'`

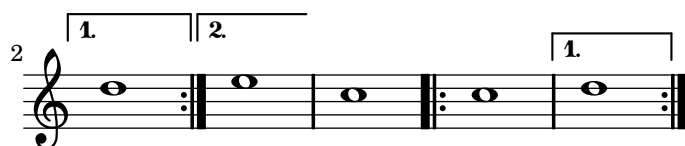
Rests should not keep staves alive when `\RemoveEmptyStaffContext` is active. The following example should have only one staff.



`'repeat-line-break.ly'`

Across linebreaks, the left edge of a first and second alternative bracket should be equal.





`'repeat-percent-count-visibility.ly'`

Percent repeat counters can be shown at regular intervals by setting `repeatCountVisibility`.



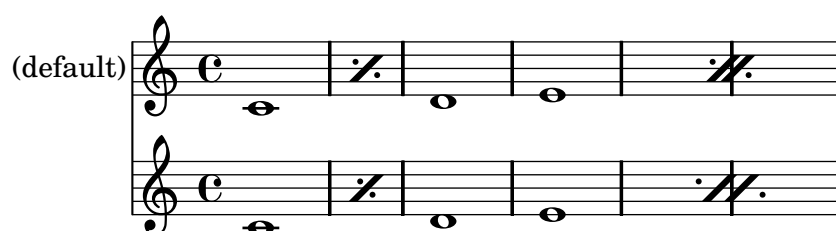
`'repeat-percent-count.ly'` Percent repeats get incremental numbers when `countPercentRepeats` is set, to indicate the repeat counts, but only if there are more than two repeats.



`'repeat-percent-grace.ly'` Percent repeats are also centered when there is a grace note in a parallel staff.



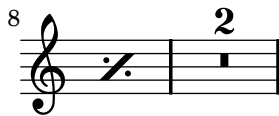
`'repeat-percent-kerning.ly'` The positioning of dots and slashes in percent repeat glyphs can be altered using `dot-negative-kern` and `slash-negative-kern`.



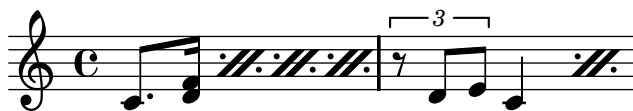
`'repeat-percent-skipbars.ly'` Percent repeats are not skipped, even when `skipBars` is set.



`'repeat-percent.ly'` Measure repeats may be nested with beat repeats.



`'repeat-slash-mixed.ly'` Beat repeats for patterns containing mixed durations use a double percent symbol.



`'repeat-slash-multi.ly'` Beat repeats for patterns containing identical durations shorter than an eighth note use multiple slashes.



`'repeat-slash.ly'` Within a bar, beat repeats denote that a music snippet should be played again.

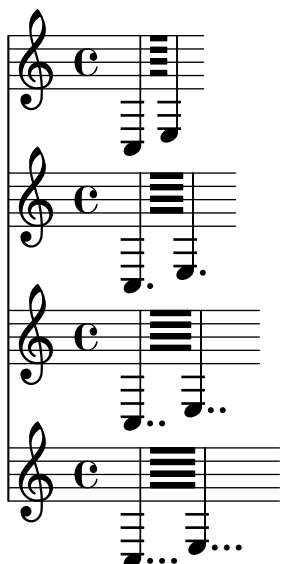


`'repeat-tie.ly'` Repeat ties are only connected on the right side to a note head.



`'repeat-tremolo-beams.ly'` Each of the staves here should have four tremolo beams.





`'repeat-tremolo-chord-rep.ly'` Tremolos work with chord repetitions.



`'repeat-tremolo-dots.ly'` Dots are added to tremolo notes if the durations involved require them.



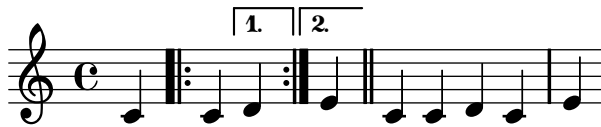
`'repeat-tremolo-one-note-articulation.ly'` A tremolo repeat containing only one note (no sequential music) shall not be scaled. An articulation or dynamic sign on the note should not confuse Lilypond.



`'repeat-tremolo-three-notes.ly'` A tremolo can have more than two notes. Also check that linebreaks between tremolos still work and that empty tremolos don't crash.



`'repeat-unfold-all.ly'` Volta repeats may be unfolded through the music function `\unfoldRepeats`.



‘repeat-unfold-tremolo.ly’ Unfolding tremolo repeats. All fragments fill one measure with 16th notes exactly.

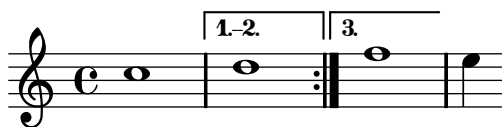


‘repeat-unfold.ly’ LilyPond has two modes for repeats: unfolded and semi-unfolded. Unfolded repeats are fully written out. Semi unfolded repeats have the body written and all alternatives sequentially. If the number of alternatives is larger than the repeat count, the excess alternatives are ignored. If the number of alternatives is smaller, the first alternative is multiplied to get to the number of repeats.

Unfolded behavior:

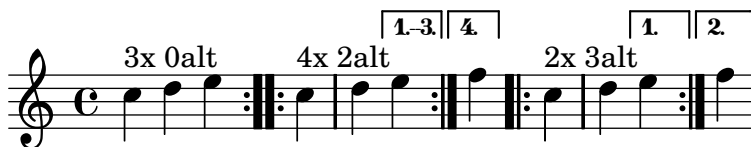


‘repeat-volta-skip-alternatives.ly’ When too few alternatives are present, the first alternative is repeated, by printing a range for the 1st repeat.

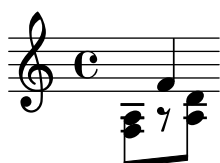


‘repeat-volta.ly’

Volta (Semi folded) behavior. Voltas can start on non-barline moments. If they don’t barlines should still be shown.



‘rest-collision-beam-note.ly’ Beam/rest collision resolution and normal rest/note collisions can be combined.



‘rest-collision-beam-quantized.ly’ Rests under beams are moved by whole staff spaces.



‘rest-collision-beam-restdir.ly’ Beam/rest collision takes offset due to Rest #’direction into account properly.



‘rest-collision-beam.ly’ Rests under beams are shifted upon collision.

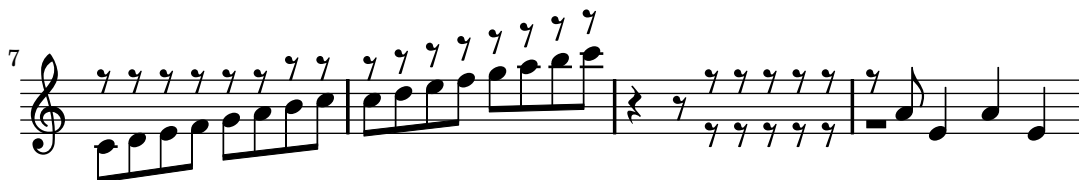


‘rest-collision-note-duration.ly’ Vertical rest positions in a multi-voice staff should obey the duration of notes; this is, they shouldn’t return to a default position too early.

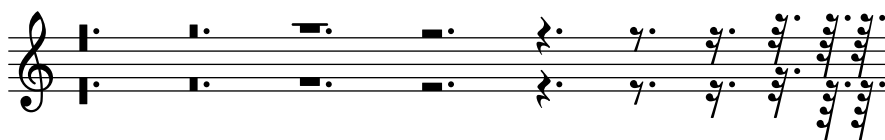
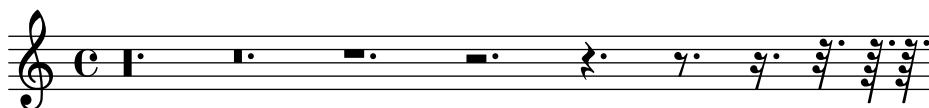


‘rest-collision.ly’

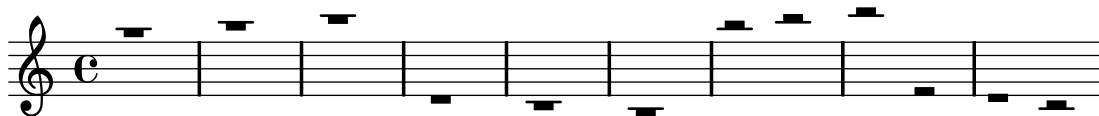
Rests should not collide with beams, stems and noteheads. Rests may be under beams. Rests should be move by integral number of spaces inside the staff, and by half spaces outside. Notice that the half and whole rests just outside the staff get ledger lines in different cases.



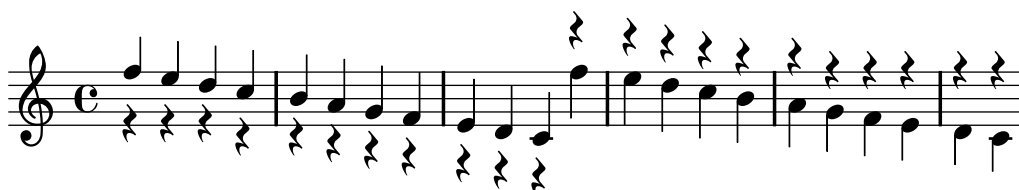
‘rest-dot-position.ly’ Dots of rests should follow the rest positions.



‘rest-ledger.ly’ Whole and half rests moving outside the staff should get ledger lines.



‘rest-note-collision.ly’ In rest-note collisions, the rest moves in discrete steps, and inside the staff, it moves in whole staff spaces.



‘rest-pitch.ly’ Rests can have pitches—these will be affected by transposition and relativization. If a rest has a pitch, rest/rest and beam/rest collision resolving will leave it alone.



‘rest-pitched-beam.ly’ Pitched rests under beams.



‘rest-polyphonic-2.ly’ Rests avoid notes. Each rest is moved in the direction of the stems in its voice. Rests may overlap other rests in voices with the same stem direction, in which case a warning is given, but is suppressed if the rest has a pitch.

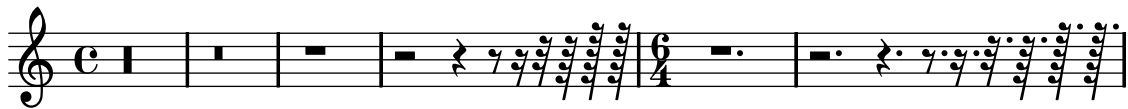


‘rest-polyphonic.ly’ In polyphonic situations, rests are moved down even if there is no opposite note or rest. The amount is two staff-spaces.



‘rest.ly’

There is a big variety of rests. Note that the dot of 8th, 16th and 32nd rests rest should be next to the top of the rest. All rests except the whole rest are centered on the middle staff line.



‘rhythmic-staff.ly’ In rhythmic staves stems should go up, and bar lines have the size for a 5 line staff. The whole rest hangs from the rhythmic staff.



‘safe.ly’ This should not survive lilypond –safe-mode

‘scheme-book-scores.ly’ Scores can be generated with scheme, too, and inserted into the current book(part). Generated and explicit scores can be mixed, the header informations from top- and booklevel stack correctly.

## Main Title

### Main subtitle

Score with a c

Piecetitle



## Title 1

### Sub1

Score with a d

Piecetitle



Piecetitle



Score with a e

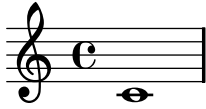
Piecetitle



# Main Title

## Main subtitle

Piecetitle



Score with a f

Piecetitle



# Main Title

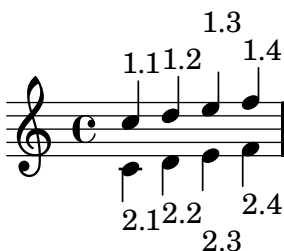
## Main subtitle

Score with a g

Piecetitle



‘scheme-engraver-instance.ly’ Scheme engravers may be instantiated, with instance-scoped slots, by defining a 1 argument procedure which shall return the engraver definition as an alist, with the private slots defined in a closure. The argument procedure argument is the context where the engraver is instantiated.



‘scheme-engraver.ly’ \consists can take a scheme alist as arguments, which should be functions, which will be invoked as engraver functions.



‘scheme-text-spanner.ly’ Use `define-event-class`, scheme engraver methods, and grob creation methods to create a fully functional text spanner in scheme.



‘score-text.ly’ Markup texts are rendered above or below a score.

High up above

My first Li - ly song,

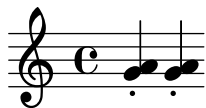
Not much can go wrong!

The image shows two staves of musical notation in bass clef with a common time signature 'C'. The first staff contains the lyrics 'My first Li - ly song,' with notes corresponding to each word. The second staff is preceded by a '3' and contains the lyrics 'Not much can go wrong!' with notes corresponding to each word.

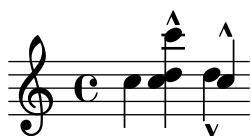
2. My next Li-ly verse  
Now it's getting worse!
3. My last Li-ly text  
See what will be next!



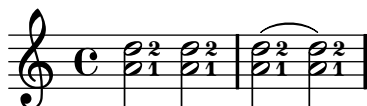
`'script-center-seconds.ly'` Scripts on chords with seconds remain centered on the extremal note head



`'script-collision.ly'` Scripts are put on the utmost head, so they are positioned correctly when there are collisions.



`'script-horizontal-slur.ly'` Horizontal scripts don't have `avoid-slur` set.



`'script-shift.ly'` The `toward-stem-shift` property controls the precise horizontal location of scripts that are placed above an upstem or below a downstem note (0.0 means centered on the note head, 1.0 means centered on the stem).



`'script-stack-horizontal.ly'` horizontal scripts are ordered, so they do not overlap. The order may be set with `script-priority`.

The scripts should not be folded under the time signature.



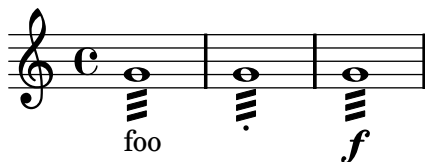
`'script-stack-order.ly'` Scripts can be stacked. The order is determined by a priority field, but when objects have the same priority, the input order determines the order. Objects specified first are closest to the note.



`'script-stacked.ly'` Scripts may be stacked.



‘script-stem-tremolo.ly’ Scripts avoid stem tremolos even if there is no visible stem.

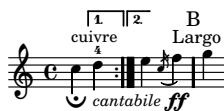


‘semi-tie-manual-direction.ly’ Semi tie directions may be forced from the input.



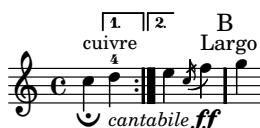
‘size11.ly’

Different text styles are used for various purposes.



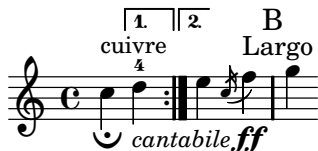
‘size13.ly’

Different text styles are used for various purposes.



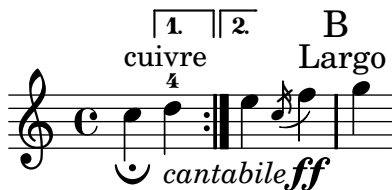
‘size16.ly’

Different text styles are used for various purposes.



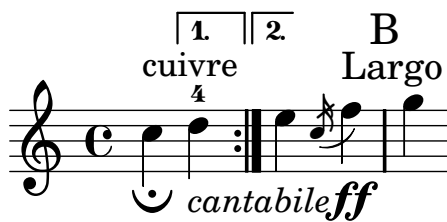
‘size20.ly’

Different text styles are used for various purposes.



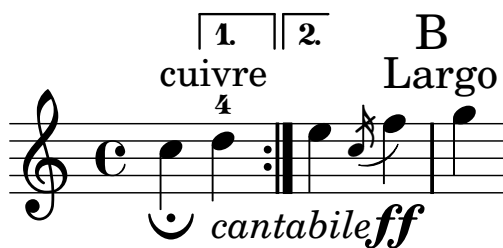
‘size23.ly’

Different text styles are used for various purposes.

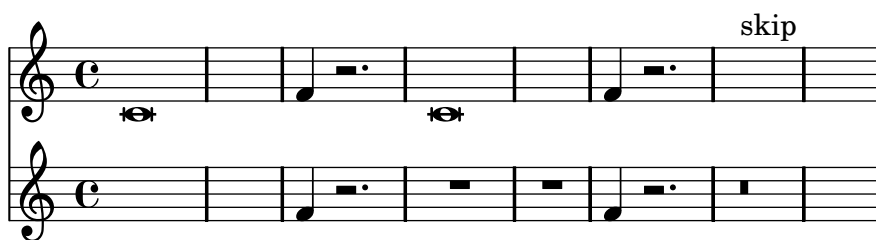


‘size26.ly’

Different text styles are used for various purposes.



‘skip-of-length.ly’ skip-of-length and mmrest-of-length create skips and rests that last as long as their arguments.



‘skiptypesetting-all-true.ly’

A score with skipTypesetting set for the whole score will not segfault.

‘skiptypesetting-bar-check.ly’ skipTypesetting doesn’t affect bar checks.

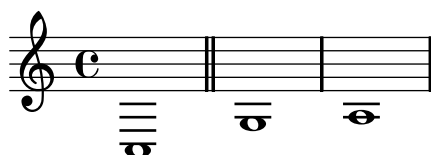


‘skiptypesetting-multimeasurerest.ly’

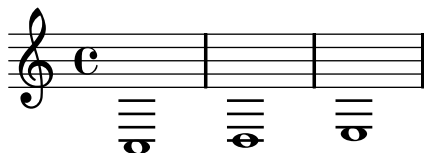
When skipTypesetting is set during a skipBars-induced MultiMeasureRest spanner, no segfault occurs.



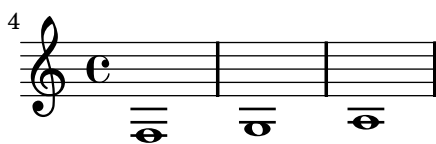
‘skiptypesetting-show-first-and-last.ly’ showFirstLength and showLastLength may be set at the same time; both the beginning and the end of the score will be printed.



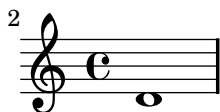
`'skiptypesetting-show-first.ly'` `showFirstLength` will only show the first bit of a score



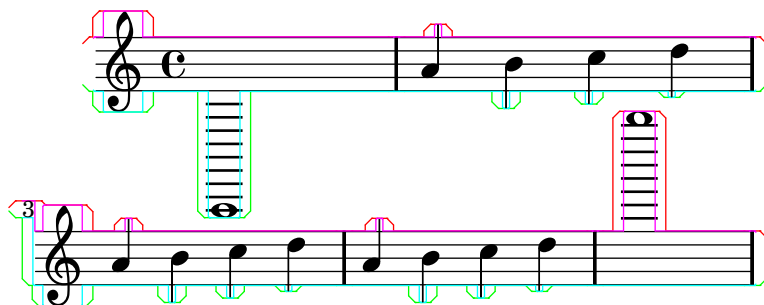
`'skiptypesetting-show-last.ly'` `showLastLength` will only show the last bit of a score



`'skiptypesetting-tuplet.ly'` Tuplet brackets are also skipped with `skipTypesetting`.



`'skyline-debug.ly'` `-ddebug-skyline` draws the outline of the skyline used.



`'skyline-horizontal-padding.ly'`

The `skyline-horizontal-padding` property can be set for `System` in order to keep systems from being spaced too closely together. In this example, the low notes from a system should not be interleaved with the high notes from the next system.

5 3 1 5 3 1

2 5 3 1 5 3 1


3 5 3 1 5 3 1

The image displays three staves of musical notation, each with a treble clef. The first staff is labeled with a '1' to its left. The second staff is labeled with a '2' to its left. The third staff is labeled with a '3' to its left. Each staff contains a sequence of notes: a whole note on the first line (F4), a quarter note on the second line (G4), a quarter note on the second space (A4), and a whole note on the third line (B4). Above the first staff, the numbers '5' and '3' are written above the first and second notes, and '1' is written below the first note. Above the second staff, the numbers '5' and '3' are written above the first and second notes, and '1' is written below the first note. Above the third staff, the numbers '5' and '3' are written above the first and second notes, and '1' is written below the first note. To the right of each staff, there is a vertical line with a series of horizontal tick marks, and a '1' is written below the line.

‘skyline-vertical-placement.ly’ Grobs that have outside-staff-priority set are positioned using a skyline algorithm so that they don’t collide with other objects.

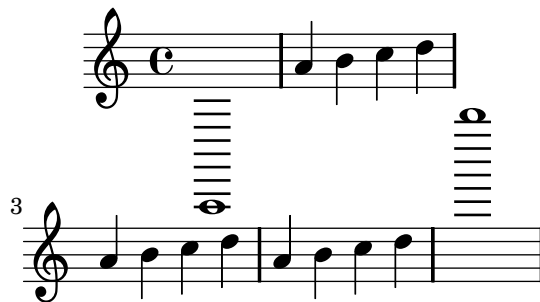
this goes above the previous markup

this doesn't collide with the c



this goes below the dynamic

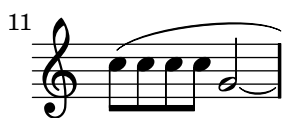
‘skyline-vertical-spacing.ly’ We use a skyline algorithm to determine the distance to the next system instead of relying only on bounding boxes. This keeps gaps between systems more uniform.



Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

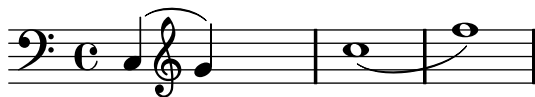
‘slur-broken-trend.ly’

Across line breaks, slurs behave nicely. On the left, they extend to just after the preferatory matter, and on the right to the end of the staff. A slur should follow the same vertical direction it would have in unbroken state.





‘slur-clef.ly’ Slurs avoid clefs, but don’t avoid barlines.

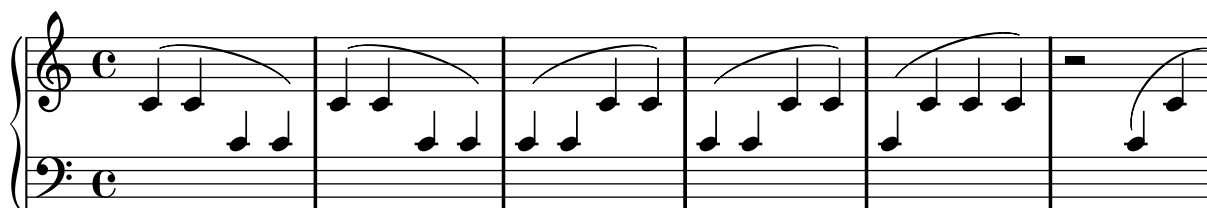


‘slur-cross-staff-beam.ly’ Slurs that depend on a cross-staff beam are not calculated until after line-breaking.



‘slur-cross-staff.ly’

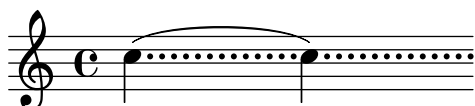
Slurs behave decently when broken across a linebreak.



‘slur-dash.ly’ The appearance of slurs may be changed from solid to dotted or dashed.



‘slur-dots.ly’ Slurs should not get confused by augmentation dots. With a lot of dots, the problems becomes more visible.

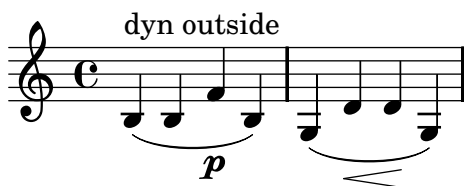




`'slur-double.ly'` Some composers use slurs both above and below chords. This can be typeset by setting `doubleSlurs`

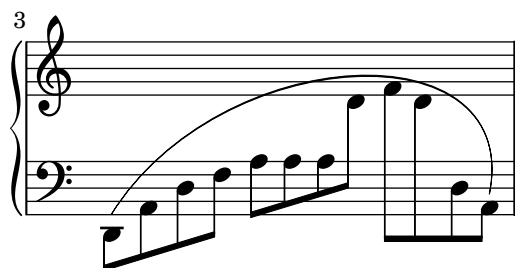
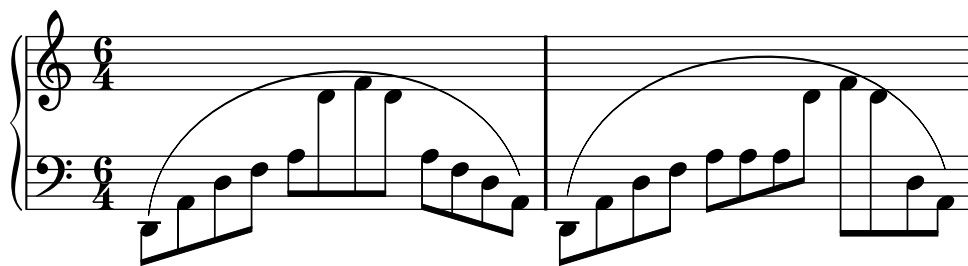


`'slur-dynamics.ly'` Dynamics avoid collision with slur.



`'slur-extreme.ly'`

Extreme slurs are scaled to fit the pattern, but only symmetrically. Asymmetric slurs are created by setting `eccentricity`.



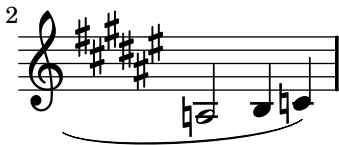
`'slur-grace.ly'` Appoggiatura and acciaccaturas use a different slur than the default, so they produce a nested slur without warnings.



`'slur-manual.ly'` Setting `positions` overrides the automatic positioning of the slur. It selects the slur configuration closest to the given pair.



`'slur-multiple-linebreak.ly'` An additional opening slur during a running slur should be ignored (and a warning printed), but never influence the slur's extents.



`'slur-multiple.ly'` LilyPond does not support multiple concurrent slurs with the parentheses syntax. In this case, warnings will be given and the nested slur will not be generated. However, one can create a second slur with a different spanner-id.



`'slur-nice.ly'`

Slurs should look nice and symmetric. The curvature may increase only to avoid noteheads, and as little as possible. Slurs never run through noteheads or stems.



`'slur-rest.ly'` Slurs may be placed over rests. The slur will avoid colliding with the rests.



‘slur-scoring.ly’ Slur formatting is based on scoring. A large number of slurs are generated. Each esthetic aspect gets demerits, the best configuration (with least demerits) wins. This must be tested in one big file, since changing one score parameter for one situation may affect several other situations.

Tunable parameters are in ‘scm/slur.scm’.

4

7

12

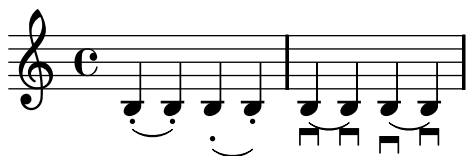
17

21 slurs forced down

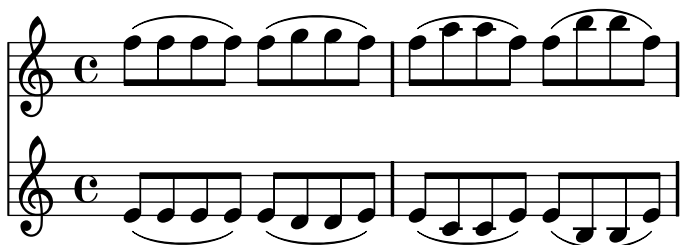
27

‘slur-script-inside.ly’ Slurs avoid scripts with avoid-slur set to inside, scripts avoid slurs with avoid-slur set to around. Slurs and scripts keep a distance of slur-padding.

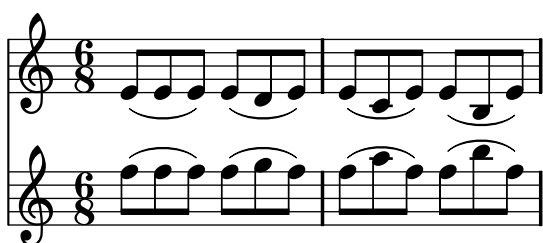
‘slur-script.ly’ A slur avoids collisions with scripts, which are placed either inside or outside the slur, depending on the script. The slur responds appropriately if a script is moved.



`'slur-symmetry-1.ly'` Symmetric figures should lead to symmetric slurs.



`'slur-symmetry.ly'` Symmetric figures should lead to symmetric slurs.



`'slur-tilt.ly'` The attachment point for strongly sloped slurs is shifted horizontally slightly. Without this correction, slurs will point into one note head, and point over another note head.



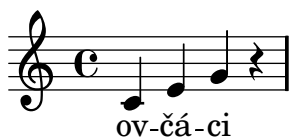
`'slur-tuplet.ly'` TupletNumber grobs are always inside slurs. This may not work if the slur starts after the tuplet.



`'song-associated-voice.ly'` Festival song synthesis output supports associated voices.



`'song-basic-nonenglish.ly'` Festival song synthesis output supports non-english syllabels.



`'song-basic.ly'` Festival song synthesis output supports basic songs.



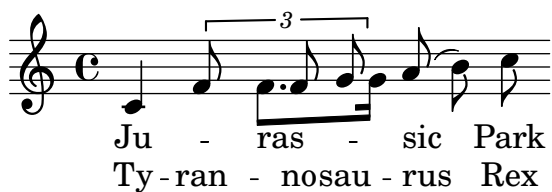
'song-breathe.ly' Festival song synthesis output supports breath marks.



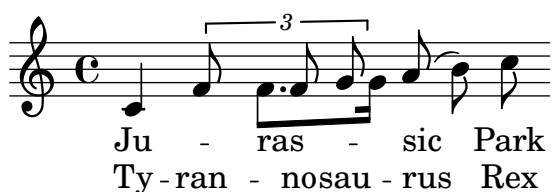
'song-melisma.ly' Festival song synthesis output supports melismas.



'song-reordering.ly' Festival song synthesis output supports reordered lyrics.



'song-reordering2.ly' Festival song synthesis output supports reordered lyrics.



'song-repetition.ly' Festival song synthesis output supports repeat signs.



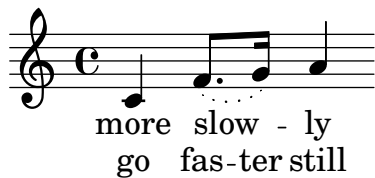
'song-skip-noword.ly' Festival song synthesis output supports lyrics which are not complete words.



'song-skip.ly' Festival song synthesis output supports skips.



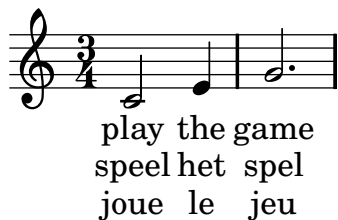
‘song-slurs.ly’ Festival song synthesis output supports slurs.



‘song-splitpart.ly’ Festival song synthesis output supports divided voices.



‘song-stanzas.ly’ Festival song synthesis output supports multiple stanzas.



‘song-tempo.ly’ Festival song synthesis output supports changing tempo in the middle of a piece.



‘spacing-accidental-rest.ly’ Accidentals don’t collide with shifted-down rests.



‘spacing-accidental-staffs.ly’ Accidentals in different staves do not affect the spacing of the eighth notes here.



‘spacing-accidental-stretch.ly’ Accidentals do not influence the amount of stretchable space. The accidental does add a little non-stretchable space.



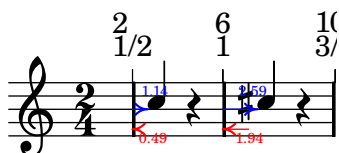
‘spacing-accidental-tie.ly’ Horizontal spacing works as expected on tied notes with accidentals. No space is reserved for accidentals that end up not being printed, but accidentals that are printed don’t collide with anything.



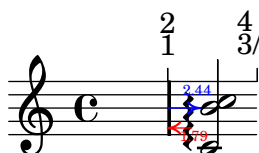
‘spacing-accidental.ly’ Accidentals sticking out to the left of a note will take a little more space, but only if the spacing is tight.



‘spacing-bar-accidental.ly’ An accidental following a bar gets space so the left edge of the acc is at 0.3 - 0.6 staff space of the bar line

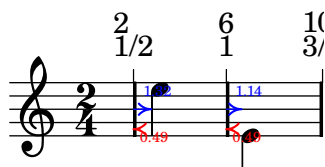


‘spacing-bar-arpeggio.ly’ An arpeggio following a bar gets space

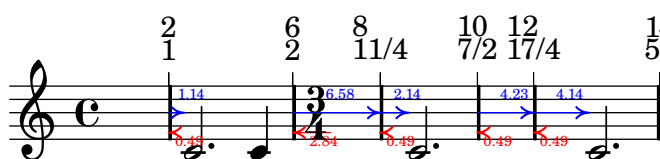


‘spacing-bar-stem.ly’ Downstem notes following a barline are printed with some extra space. This is an optical correction similar to juxtaposed stems.

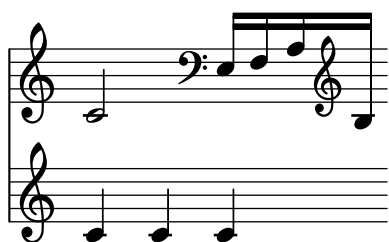
The bar upstem should be approx 1.1 staff space, the bar downstem 1.3 to 1.5 staff space.



‘spacing-bar-whole-measure.ly’ Notes that fill a whole measure are preceded by extra space.



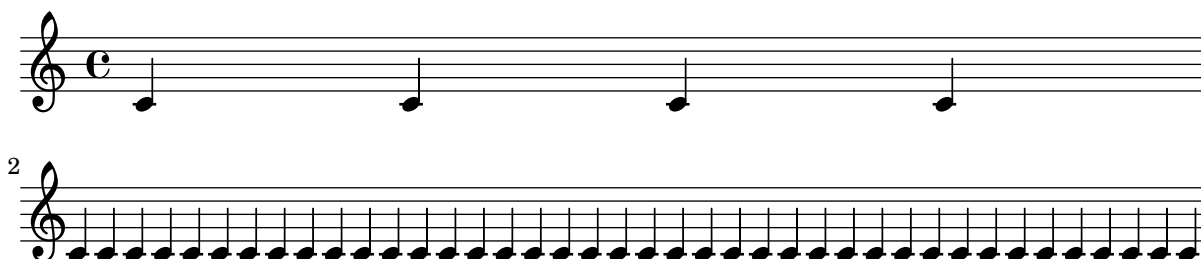
‘spacing-clef-first-note.ly’ Clef changes at the start of a line get much more space than clef changes halfway the line.



‘spacing-correction-accidentals.ly’ If right hand stems have accidentals, optical spacing correction is still applied, but only if the stem directions are different.



‘spacing-empty-bar.ly’ Empty barlines do not affect spacing.



‘spacing-end-of-line.ly’ Broken engraving of a bar at the end of a line does not upset the space following rests and notes.







`'spacing-ended-voice.ly'`

A voicelet (a very short voice to get polyphonic chords correct) should not confuse the spacing engine.



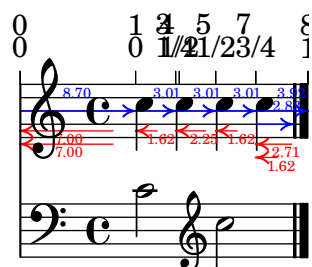
`'spacing-folded-clef-cross-staff.ly'` Clefs are also folded under cross staff constructs.



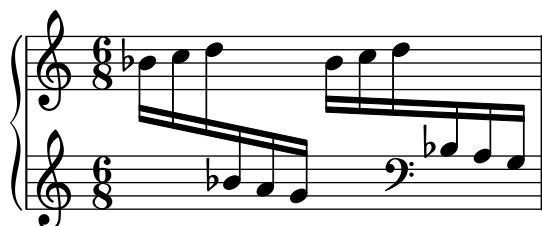
`'spacing-folded-clef.ly'` A clef can be folded below notes in a different staff, if this does not disrupt the flow of the notes.



`'spacing-folded-clef2.ly'` A clef can be folded below notes in a different staff, if there is space enough. With `Paper_column` stencil callbacks we can show where columns are in the score.



`'spacing-folded-clef3.ly'` Voices that go back and forth between staves do not confuse the spacing engine.



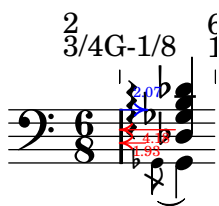
‘spacing-grace-duration.ly’ Spacing uses the duration of the notes, but disregards grace notes for this. In this example, the 8ths around the grace are spaced exactly as the other 8th notes.



‘spacing-grace.ly’ Grace note runs have their own spacing variables in Score.GraceSpacing. So differing grace note lengths inside a run are spaced accordingly.



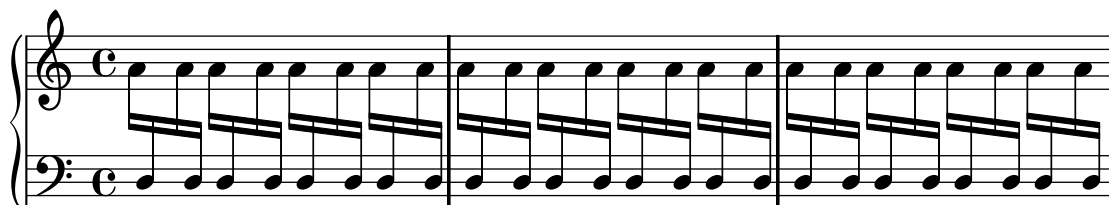
‘spacing-horizontal-skyline-grace.ly’ Skyline horizontal spacing may fold non-adjacent columns together, but they still do not collide. In this case, the arpeggio and the barline do not collide.



‘spacing-horizontal-skyline.ly’ accidentals may be folded under preceding notes.



‘spacing-knee-compressed.ly’ Spacing corrections for kneed beams still work when compression is involved.



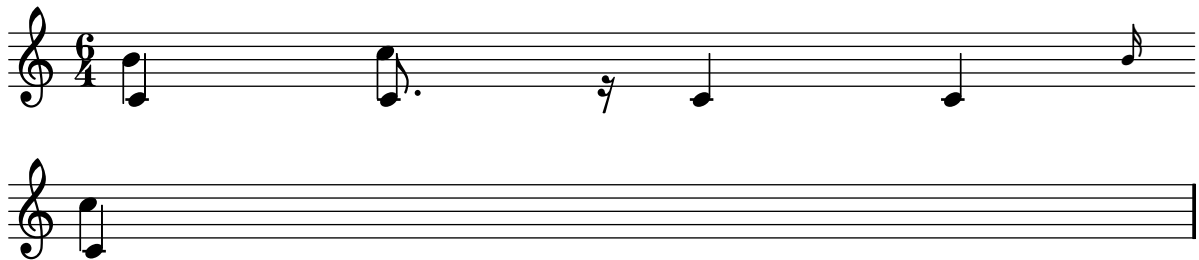
‘spacing-knee.ly’ For knees, the spacing correction is such that the stems are put at regular distances. This effect takes into account the width of the note heads and the thickness of the stem.



‘spacing-loose-grace-error.ly’ Even in case of incorrect contexts (eg. shortlived contexts) that break linking of columns through spacing wishes, **strict-note-spacing** defaults to a robust solution.



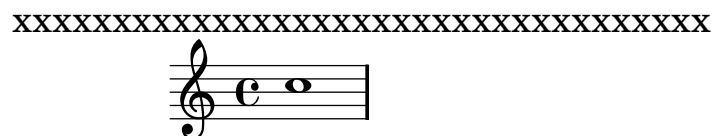
‘spacing-loose-grace-linebreak.ly’ If a floating grace spacing section attaches to a note across a line break, it gets attached to the end of line.



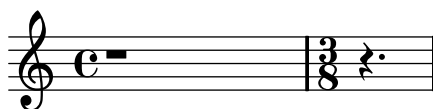
‘spacing-loose-grace.ly’ With **strict-grace-spacing**, grace notes don’t influence spacing.



‘spacing-mark-width.ly’ Width of marks does not affect spacing.



‘spacing-measure-length.ly’ Horizontal spacing is bounded by the current measure length. This means that the 3/8 setting does not affect the whole rest spacing.



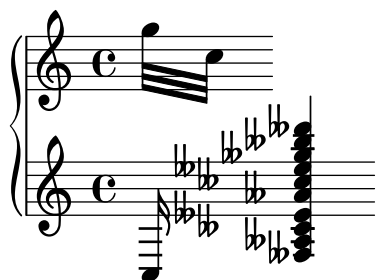
‘spacing-multi-tuplet.ly’ Concurrent tuplets should be equidistant on all staves. Such equidistant spacing is at odds with elegant engraver spacing; hence it must be switched on explicitly with the **uniform-stretching** property of **SpacingSpanner**.



‘spacing-no-note.ly’ In the absence of NoteSpacings, wide objects still get extra space. In this case, the slash before the barline gets a little more space.



‘spacing-non-adjacent-columns1.ly’ The spacing engine avoids collisions between non-adjacent columns.



‘spacing-non-adjacent-columns2.ly’ The spacing engine avoids collisions between non-adjacent columns.



‘spacing-note-flags.ly’ The flags of 8th notes take some space, but not too much: the space following a flag is less than the space following a beamed 8th head.



‘spacing-packed.ly’

In packed mode, pack notes as tight as possible. This makes sense mostly in combination with ragged-right mode: the notes are then printed at minimum distance. This is mostly useful for ancient notation, but may also be useful for some flavours of contemporary music. If not in ragged-right mode, lily will pack as many bars of music as possible into a line, but the line will then be stretched to fill the whole linewidth.



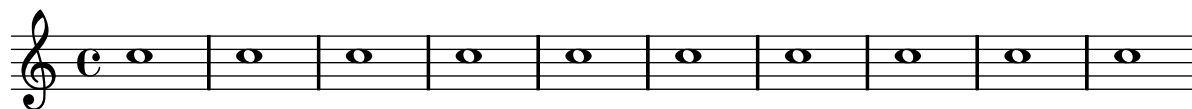
‘spacing-paper-column-padding.ly’ The space after a paper column can be increased by overriding the padding property.



‘spacing-proportional.ly’ Proportional notation can be created by setting `proportionalNotationDuration`. Notes will be spaced proportional to the distance for the given duration.



‘spacing-ragged-last.ly’ If `ragged-last` is set, the systems are broken similar to paragraph formatting in text: the last line is unjustified.



‘spacing-rest.ly’ Rests get a little less space, since they are narrower. However, the quarter rest in feta font is relatively wide, causing this effect to be very small.



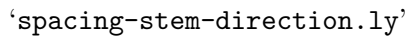
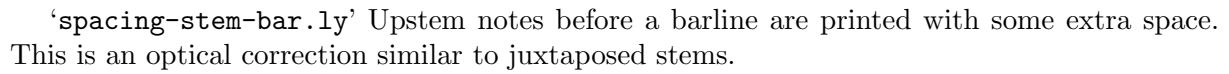
‘spacing-section.ly’ New sections for spacing can be started with `\newSpacingSection`. In this example, a section is started at the 4/16, and a 16th in the second section takes as much space as a 8th in first section.



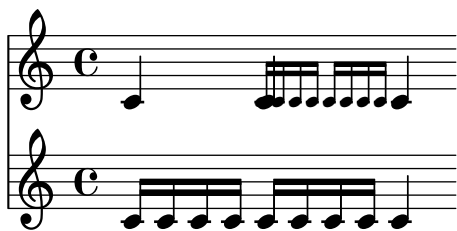
‘spacing-short-notes.ly’ Notes that are shorter than the common shortest note get a space (i.e. without the space needed for the note) proportional to their duration. So, the 16th notes get 1/2 of the space of an eighth note. The total distance for a 16th (which includes note head) is 3/4 of the eighth note.



‘spacing-space-to-barline.ly’ When `space-to-barline` is false, we measure the space between the note and the start of the clef. When `space-to-barline` is true, we measure the space between the note and the start of the barline.



`'spacing-strict-spacing-grace.ly'` With `strict-note-spacing` spacing for grace notes (even multiple ones), is floating as well.



‘spacing-to-empty-barline.ly’ An empty barline does not confuse the spacing engine too much. The two scores should look approximately the same.



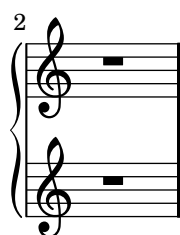
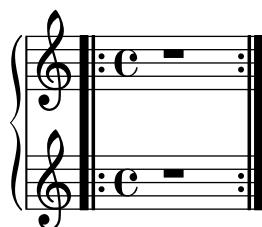
‘spacing-to-grace.ly’ Space from a normal note (or barline) to a grace note is smaller than to a normal note.



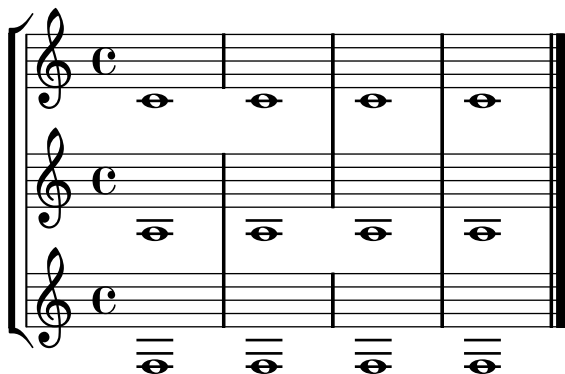
‘spacing-uniform-stretching.ly’ Notes are spaced exactly according to durations, if uniform-stretching is set. Accidentals are ignored, and no optical-stem spacing is performed.



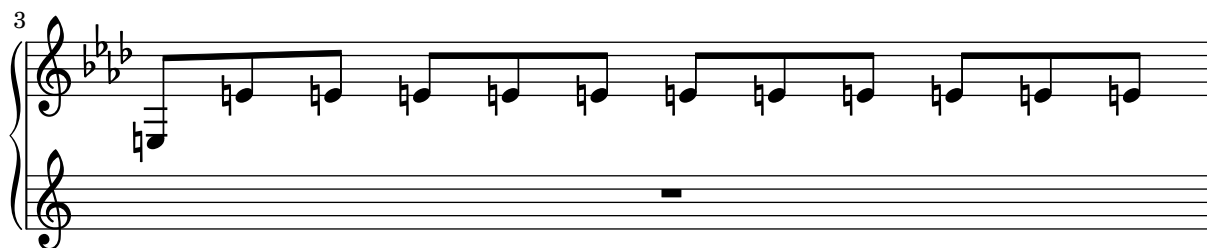
‘span-bar-break.ly’ At the beginning of a system, the |: repeat barline is drawn between the staves, but the :| is not.



‘span-bar-partial.ly’ Span bars can be turned on/off on a staff-by-staff basis.

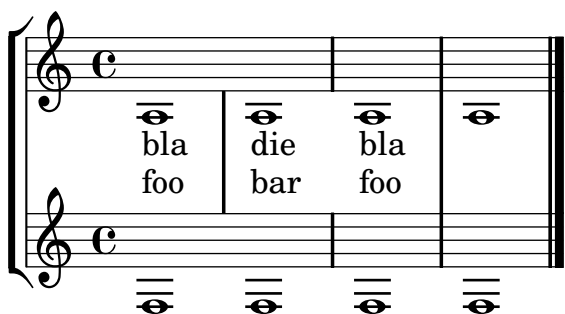


‘span-bar-spacing.ly’ SpanBars participate in the horizontal collision system; the accidentals should not collide with the bar lines.



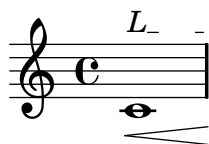
‘span-bar.ly’ Span bars are drawn only between staff bar lines. By setting bar lines to transparent, they are shown only between systems.

Setting SpanBar transparent removes the barlines between systems.

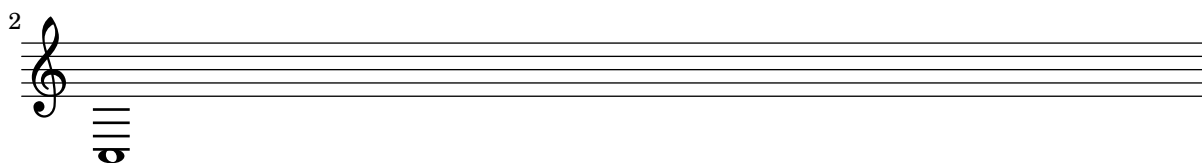
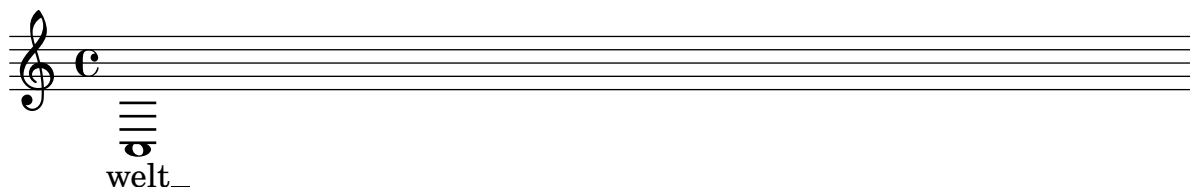


‘spanner-after-line-breaking.ly’ The visibility of left-broken line spanners and hairpins which end on the first note (i.e., span no time between bounds) is controlled by the callback `ly:spanner::kill-zero-spanned-time`.





‘spanner-break-beyond-parent.ly’ Spanners parts that extend beyond their parents are killed in case of line breaks.

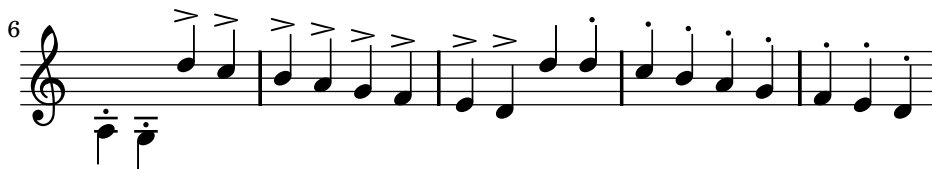


‘spanner-break-overshoot.ly’ The `break-overshoot` property sets the amount that a spanner (in this case: the beam and tuplet bracket) in case of a line break extends beyond the rightmost column and extends to the left beyond the prefatory matter.



‘staccato-pos.ly’ Some scripts must have quantized postions. VErtical position descend monotonously for a descending scale. The staccato dot is close to the notehead. If the head is in a space, then the dot is in the space next to it.





‘staff-halfway.ly’ Staves can be started and stopped at command.



‘staff-line-positions.ly’ The vertical positions of staff lines may be specified individually, by setting the `line-positions` property of the `StaffSymbol`.



‘staff-mixed-size.ly’ Staves may be present in several sizes within a score. This is achieved with an internal scaling factor. If the scaling factor is forgotten in some places, objects generally become too thick or too large on smaller staves.



‘staff-online-symbol-absence.ly’ Symbols that need on-staffline info (like dots and ties) continue to work in absence of a staff-symbol.



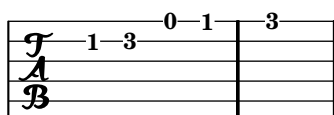
‘staff-tabstaff-spacing.ly’

The space between scores containing `Staffs` and `TabStaffs` should be consistent. In this example, all of the spacings should be equivalent.

Title 1



Title 2



### Title 3



`'staff-tweak.ly'` The staff is a grob (graphical object) which may be adjusted as well, for example, to have 6 thick lines and a slightly large `staff-space`. However, beams remain correctly quantized.



`'stanza-number.ly'` Stanza numbers are put left of their lyric. They are aligned in a column.



`'stem-direction-context.ly'` Stem directions for notes on the middle staff line are determined by the directions of their neighbors.

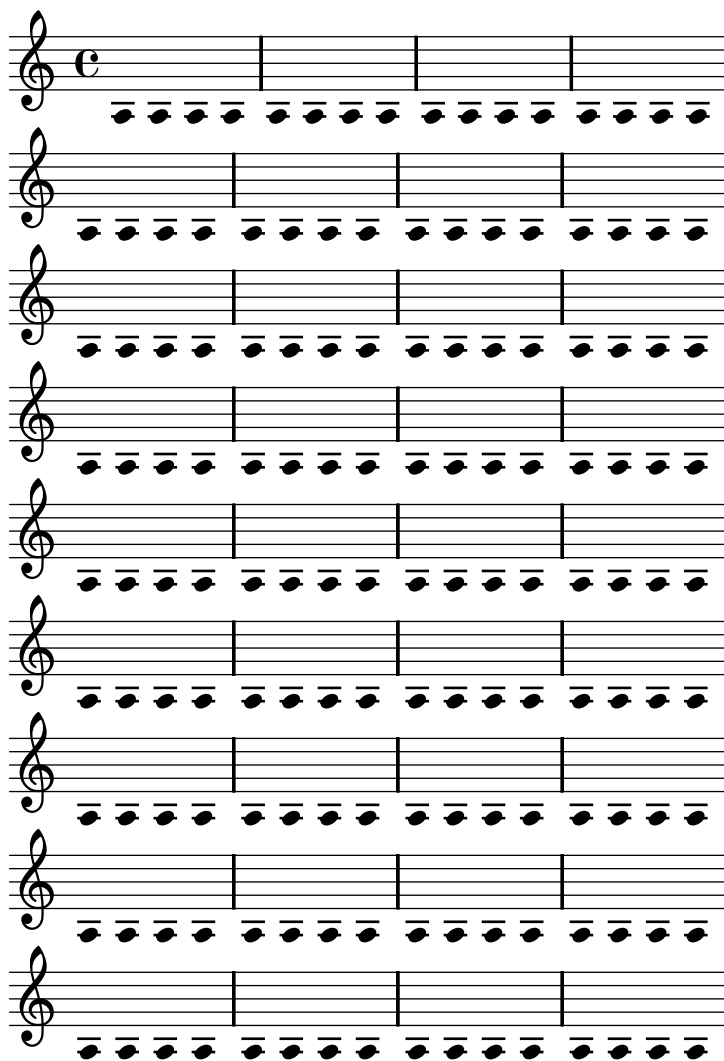


`'stem-direction.ly'`

Stems, beams, ties and slurs should behave similarly, when placed on the middle staff line. Of course stem-direction is down for high notes, and up for low notes.



`'stem-length-estimation.ly'` Stems with overridden `'length` should not confuse height estimation. This example should fit snugly on one page.



`'stem-shorten.ly'` If note head is 'over' the center line, the stem is shortened. This happens with forced stem directions, and with some chord configurations.



`'stem-stemlet-whole.ly'` Stemlets don't cause stems on whole notes.



`'stem-stemlet.ly'` Stemlets are small stems under beams over rests. Their length can be set with `stemlet-length`.



`'stem-tremolo-forced-dir.ly'` Tremolo works even when a stem is forced in a particular direction.



`'stem-tremolo-position.ly'` Tremolos are positioned a fixed distance from the end of the beam. Tremolo flags are shortened and made rectangular on beamed notes or on stem-up notes with a flag. Tremolo flags are tilted extra on stem-down notes with a flag.



`'stem-tremolo-staff-space.ly'` stem tremolo vertical distance also obeys staff-space settings.

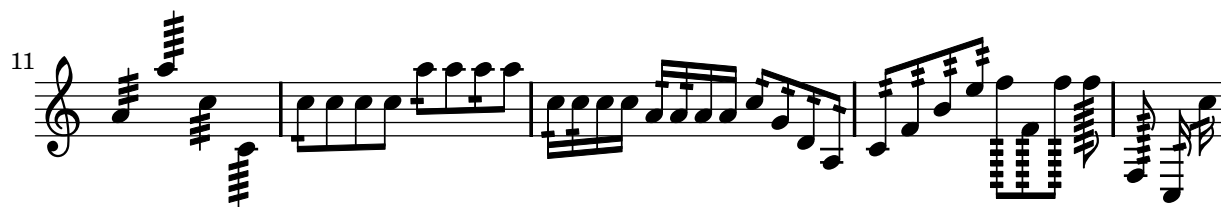
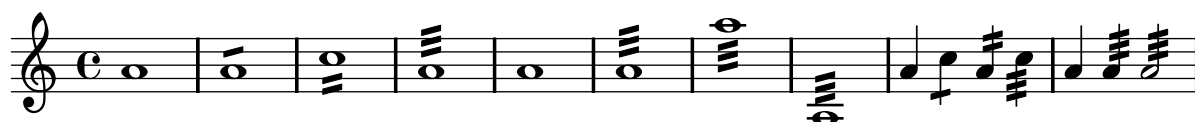


`'stem-tremolo.ly'`

Stem tremolos or rolls are tremolo signs that look like beam segments crossing stems. If the stem is in a beam, the tremolo must be parallel to the beam. If the stem is invisible (e.g. on a whole note), the tremolo must be centered on the note. If the note has a flag (eg. an unbeamed 8th note), the tremolo should be shortened if the stem is up and tilted extra if the stem is down.

The tremolos should be positioned a fixed distance from the end of the stems unless there is no stem, in which case they should be positioned a fixed distance from the note head.

:4 :8 :16 :32 x :



`'stencil-color-rotation.ly'` Combinations of rotation and color do work.



`'stencil-hacking.ly'` You can write stencil callbacks in Scheme, thus providing custom glyphs for notation elements. A simple example is adding parentheses to existing stencil callbacks.

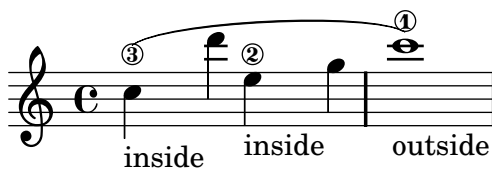
The parenthesized beam is less successful due to implementation of the Beam. The note head is also rather naive, since the extent of the parens are also not seen by accidentals.



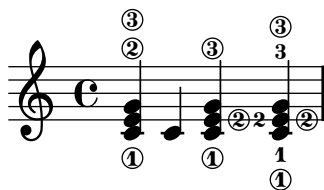
`'stencil-scale.ly'` Stencils can be scaled using `ly:stencil-scale`. Negative values will flip or mirror the stencil without changing its origin; this may result in collisions unless the scaled stencil is realigned (e.g., the time signature in this test).



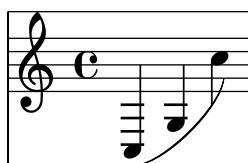
`'string-number-around-slur.ly'` String numbers should only be moved outside slurs when there is a collision.



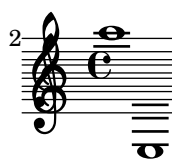
`'string-number.ly'` String numbers can be added to chords. They use the same positioning mechanism as finger instructions.



`'system-extents.ly'` The size of every system is correctly determined; this includes post-script constructs such as slurs.

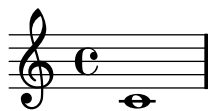
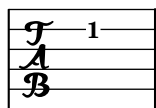


`'system-overstrike.ly'` By setting the padding between systems to a negative value, it is possible to eliminate the anti-collision constraints.



`'system-separator-spaceable-staves.ly'` System separator positioning works with all spaceable staff contexts.





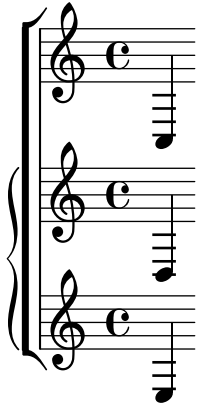
`'system-separator.ly'` System separators may be defined as markups in the `system-separator-markup` field of the paper block. They are centered between the boundary staves of each system.

First system of a musical score. It consists of two staves joined by a brace on the left. Both staves have a treble clef and a common time signature 'C'. The first measure contains a half note on the second line (D4) in the upper staff and a half note on the first line (C4) in the lower staff. The second measure contains a half note on the second line (D4) in the upper staff and a half note on the first line (C4) in the lower staff.

Second system of a musical score. It consists of two staves joined by a brace on the left. Both staves have a treble clef. A double bar line with a repeat sign is placed before the first measure. The first measure contains a half note on the second line (D4) in the upper staff and a half note on the first line (C4) in the lower staff. The second measure contains a half note on the second line (D4) in the upper staff and a half note on the first line (C4) in the lower staff.

Third system of a musical score. It consists of two staves joined by a brace on the left. Both staves have a treble clef. A double bar line with a repeat sign is placed before the first measure. The first measure contains a half note on the second line (D4) in the upper staff and a half note on the first line (C4) in the lower staff. The second measure contains a half note on the second line (D4) in the upper staff and a half note on the first line (C4) in the lower staff.

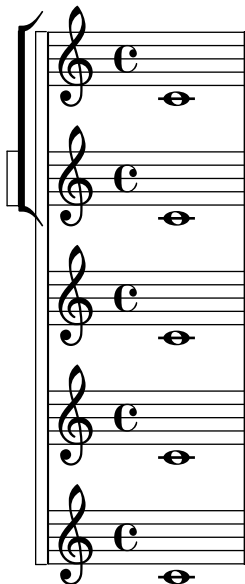
`'system-start-bracket.ly'` A piano context included within a staff group should cause the piano brace to be drawn to the left of the staff angle bracket.



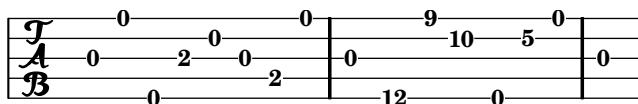
`'system-start-heavy-bar.ly'` A heavy-bar system start delimiter may be created by tuning the `SystemStartBar` grob.



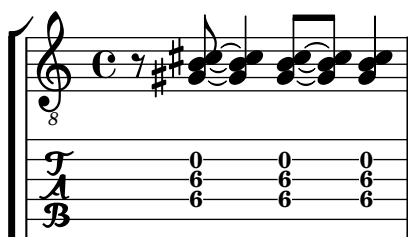
`'system-start-nesting.ly'` Deeply nested system braces, brackets, etc., may be created with the `systemStartDelimiterHierarchy` property.



‘`tablature-banjo.ly`’ Tablature may also be tuned for banjo.



‘`tablature-chord-repetition.ly`’ In a `TabStaff`, the chord repetition function needs to save the string information. This is handled by `\tabChordRepetition`.



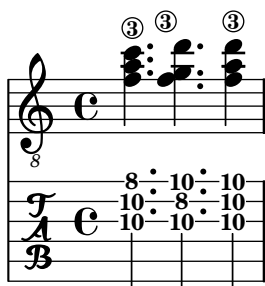
‘`tablature-default-strings.ly`’

Context property `defaultStrings` defines desired strings for fret calculations if no strings are defined explicitly.



‘`tablature-dot-placement.ly`’

With full notation, the dots on the tablature heads should respect two-digit fret numbers.



‘`tablature-fretboard-open-string.ly`’ Tablatures derived from stored fretboard diagrams display open strings as fret 0 in the tablature. The tablature and fretboard should match.

`'tablature-full-notation.ly'` As default, tablature staves show only the fret numbers, because in most situations, they are combined with normal staves. When used without standard notation, `tabFullNotation` can be used.

`'tablature-glissando.ly'` Glissando lines in tablature have the right slope.

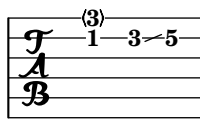
`'tablature-grace-notes.ly'` Fret numbers belonging to grace notes are smaller.

`'tablature-harmonic-functions.ly'`

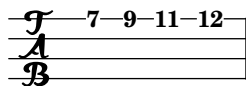
Harmonics can be specified either by ratio or by fret number.



‘`tablature-slide.ly`’ Tab supports slides.

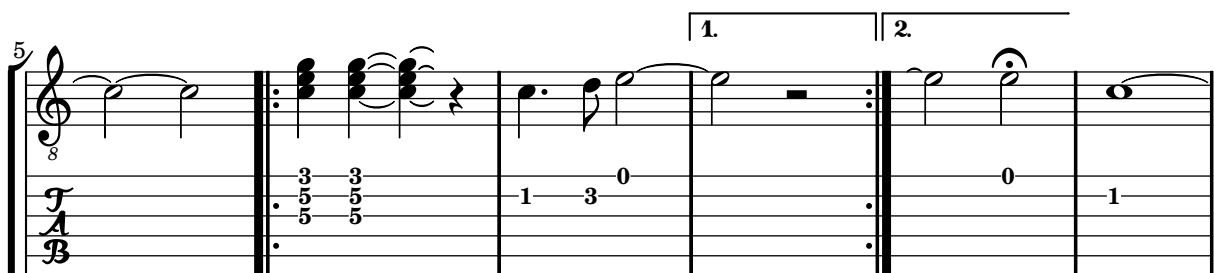
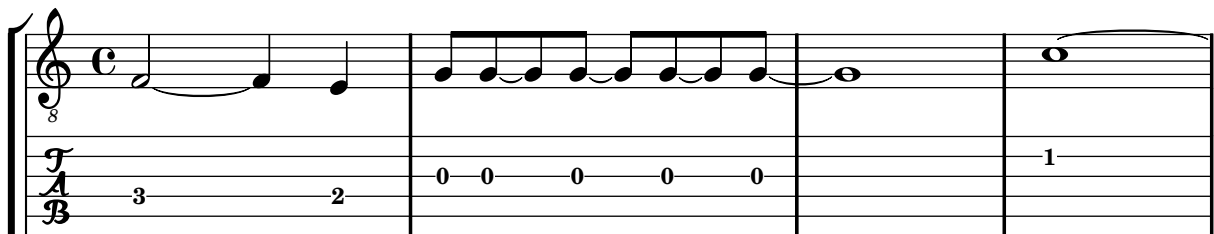
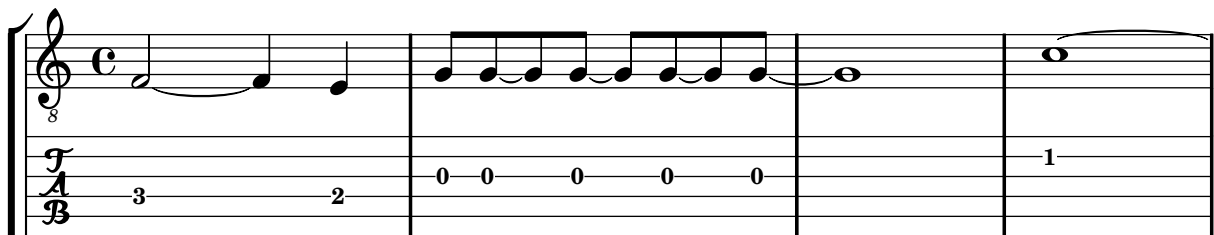


‘`tablature-string-tunings.ly`’ For other tunings, it is sufficient to set `stringTunings`. The number of staff lines is adjusted accordingly.



‘`tablature-tie-behaviour.ly`’ In tablature, notes that are tied to are invisible except after a line break or within a second volta; here, the fret number is displayed in parentheses.

As an option, the notes that are tied to may become invisible completely, even after line breaks.





`'tablature-tie-spanner.ly'`

If a slur or a glissando follows a tie, the corresponding fret number is displayed in parentheses.

`'tablature-tremolo.ly'`

Tremolos will appear on tablature staves only if `\tabFullNotation` is active. Otherwise, no tremolo indications are displayed on the TabStaff. Also, tablature beams are the same thickness on TabStaff and Staff.

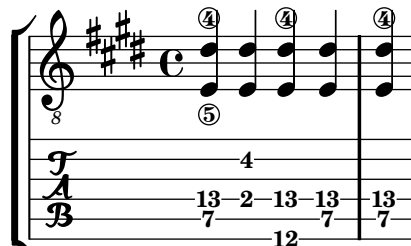
`'tablature-zero-finger.ly'`

A fingering indication of zero counts as an open string for fret calculations. An inappropriate request for an open string will generate a warning message and set the requested pitch in the tablature.

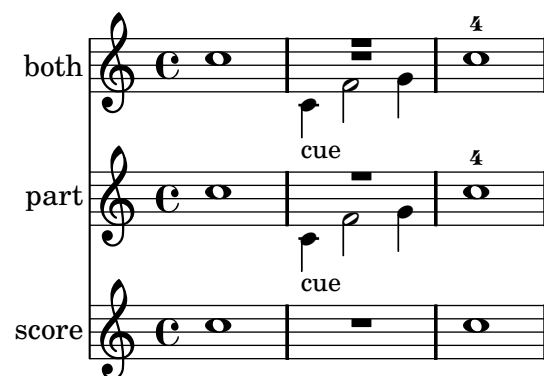
`'tablature.ly'` A sample tablature, with both normal staff and tab.

Tablature is done by overriding the note-head formatting function, and putting it on a 6-line staff. A special engraver takes care of going from string-number + pitch to number.

String numbers can be entered as note articulations (inside a chord) and chord articulations (outside a chord)



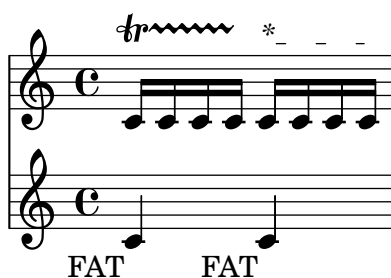
‘tag-filter.ly’ The `\tag` command marks music expressions with a name. These tagged expressions can be filtered out later. This mechanism can be used to make different versions of the same music. In this example, the top staff displays the music expression with all tags included. The bottom two staves are filtered: the part has cue notes and fingerings, but the score has not.



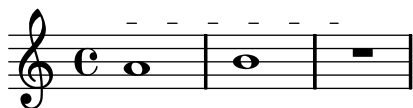
‘test-output-distance.ly’ This file gives a different result each time it is run, so it should always show up in the output-distance testing.



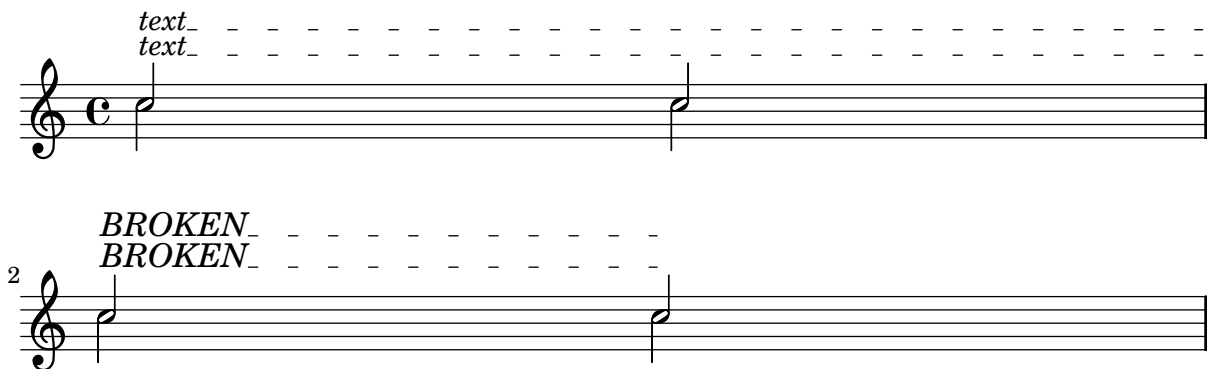
‘text-spanner-attachment-alignment.ly’ Text and trill spanners are attached to note columns, so attachments in other staves have no effect on them.



‘text-spanner-full-rest.ly’ Text spanners ending on full-measure rests do not stop prematurely on preceding note heads.



‘text-spanner-override-order.ly’ The order of setting nested properties does not influence text spanner layout.



‘text-spanner.ly’ Text spanners should not repeat start text when broken.



‘tie-accidental.ly’

lilypond should flip the tie’s direction to avoid a collision with the sharp.



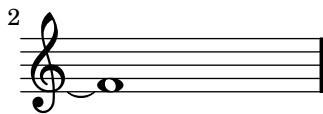
‘tie-arpeggio-collision.ly’ Advanced tie chord formatting also works with arpeggiated ties. Due to arpeggios, tie directions may be changed relative to the unarpeggiated case.



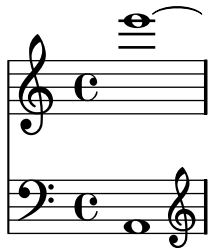
‘tie-arpeggio.ly’ when tieWaitForNote is set, the right-tied note does not have to follow the left-tied note directly. When tieWaitForNote is set to false, any tie will erase all pending ties.



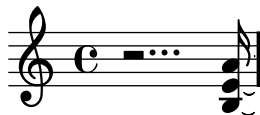
‘tie-broken-minimum-length.ly’ Broken ties honor minimum-length also. This tie has a minimum-length of 5.



‘tie-broken-other-staff.ly’ Broken tie lengths are not affected by clefs in other staves.

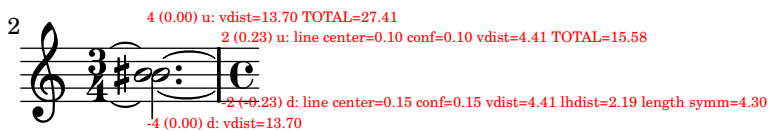
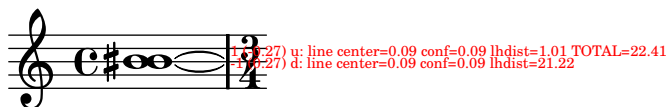


‘tie-broken.ly’ Ties behave properly at line breaks.



‘tie-chord-broken-extremal.ly’

Tie detail property multi-tie-region-size controls how many variations are tried for the extremal ties in a chord.



3

1 (-0.06) u: minlength=17.96 conf=17.96 rhdist=15.97 TOTAL=67.85  
2 (-0.06) d: minlength=17.96 conf=17.96 rhdist=15.97

‘tie-chord-debug.ly’ Switching on debug-tie-scoring annotates the tie scoring decisions made.

5 (0.25) u: vdist=1.21 TOTAL=29.95  
4 (0.23) u: vdist=1.08 lhdist=12.76  
1 (-0.18) u: lhdist=1.01 rhdist=1.79  
2 (-0.23) d: vdist=1.08 lhdist=2.19 length symm=8.58 pos symmetry=0.25

‘tie-chord-partial.ly’ Individual chord notes can also be tied

‘tie-chord.ly’ In chords, ties keep closer to the note head vertically, but never collide with heads or stems. Seconds are formatted up/down; the rest of the ties are positioned according to their vertical position.

The code does not handle all cases. Sometimes ties will printed on top of or very close to each other. This happens in the last chords of each system.

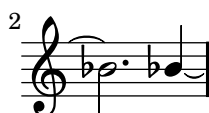
3  
6  
12  
18  
23  
28  
34



‘tie-dash.ly’ The appearance of ties may be changed from solid to dotted or dashed.



‘tie-direction-broken.ly’ In the single tie case, broken ties peek across line boundaries to determine which direction to take.



‘tie-direction-manual.ly’ Tie directions can be set with `_` and `^`. This makes correction in complex chords easier.



‘tie-dot.ly’ Ties avoid collisions with dots.



‘tie-grace.ly’ Tying a grace to a following grace or main note works.

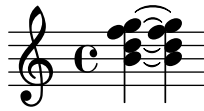


‘tie-manual-vertical-tune.ly’ If using integers, the tie will vertically tune for staff line avoidance. If using a floating point number, this is taken as the exact location.



‘tie-manual.ly’ Tie formatting may be adjusted manually, by setting the `tie-configuration` property. The override should be placed at the second note of the chord.

You can leave a Tie alone by introducing a non-pair value (eg. `#t`) in the `tie-configuration` list.



`'tie-pitched-trill.ly'` The pitch of a pitched trill should not trigger a warning for unterminated ties.



`'tie-semi-single.ly'` Like normal ties, single semities (`LaissezVibrerTie` or `RepeatTie`) get their direction from the stem direction, and may be tweaked with `#'direction`.



`'tie-single-chord.ly'` Tie directions are also scored. In hairy configurations, the default rule for tie directions is overruled.



`'tie-single-manual.ly'` Individual ties may be formatted manually by specifying their direction and/or staff-position.



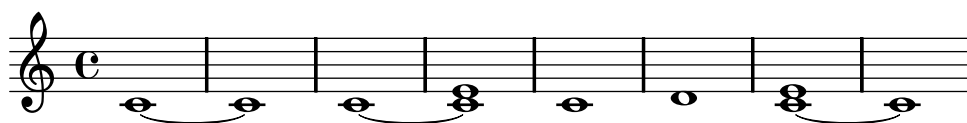
`'tie-single.ly'` Formatting for isolated ties.

- short ties are in spaces
- long ties cross staff lines
- ties avoid flags of left stems.
- ties avoid dots of left notes.
- short ties are vertically centered in the space, as well those that otherwise don't fit in a space
- extremely short ties are put over the noteheads, instead of inbetween.

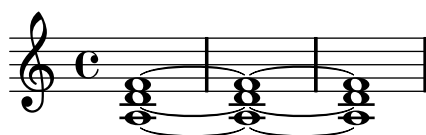




‘tie-unterminated.ly’ When a tie is followed only by unmatched notes and the tie cannot be created, LilyPond prints out a warning unless `tieWaitForNote` is set.

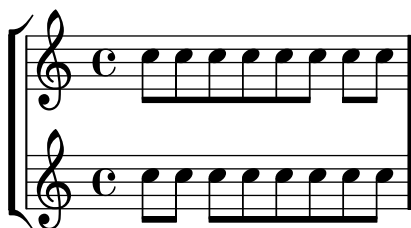


‘tie-whole.ly’ For whole notes, the inside ties do not cross the center of the note head, horizontally.



‘time-signature-settings-by-staff.ly’

Default values for time signature settings can vary by staff if the `Timing_translator` and `Default_bar_line_engraver` are moved from `Score` to `Staff`. In this case, the upper staff should be beamed 3/4, 1/4. The lower staff should be beamed 1/4, 3/4.



‘to-xml.ly’ The input representation is generic, and may be translated to XML.



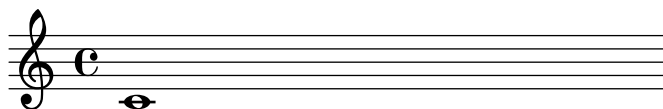
‘toc.ly’ A table of contents is included using `\markuplines \table-of-contents`. The toc items are added with the `\tocItem` command. In the PDF backend, the toc items are linked to the corresponding pages.

## Table of Contents

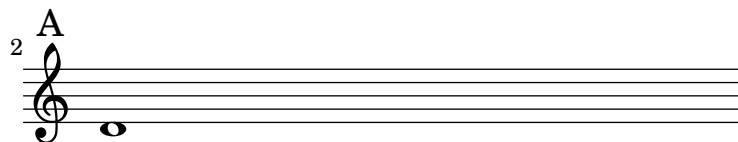
The first score	2
Mark A	3
The second score	4



2

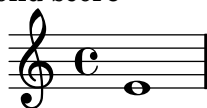


3



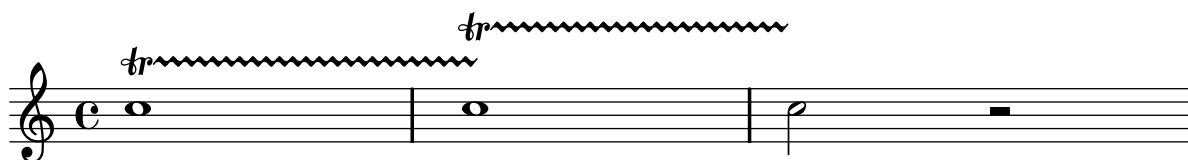
4

Second score



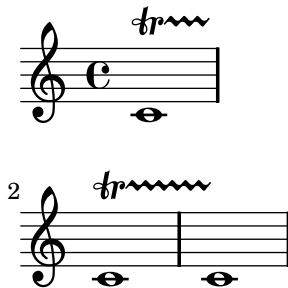
Music engraving by LilyPond 2.14.2—[www.lilypond.org](http://www.lilypond.org)

`'trill-spanner-auto-stop.ly'` Consecutive trill spans work without explicit `\stopTrillSpan` commands, since successive trill spanners will automatically become the right bound of the previous trill.

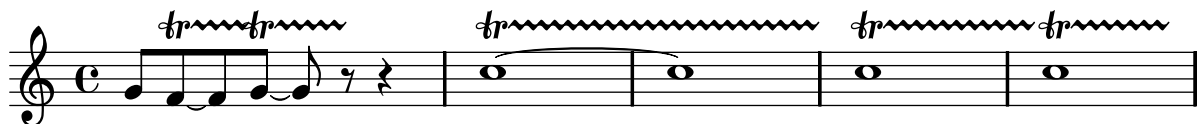


`'trill-spanner-broken.ly'`

A TrillSpanner crossing a line break should restart exactly above the first note on the new line.



‘trill-spanner-chained.ly’ Chained trills end at the next trill or barline. Collisions can be prevented by overriding bound-details.



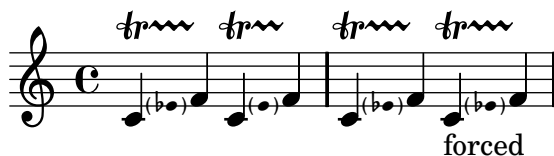
‘trill-spanner-grace.ly’ Trill spanner can end on a grace note



‘trill-spanner-pitched-consecutive.ly’ Pitched trills on consecutive notes with the same name and octave should not lose accidentals; in the following example, accidentals should be visible for all trill-pitches.



‘trill-spanner-pitched-forced.ly’ Pitched trill accidentals can be forced.

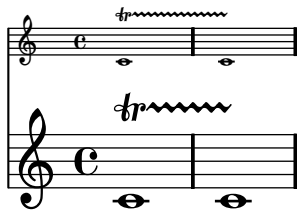


‘trill-spanner-pitched.ly’ Pitched trills are denoted by a small note head in parentheses following the main note. This note head is properly ledgered, and parentheses include the accidental.

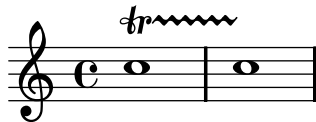


‘trill-spanner-scaled.ly’

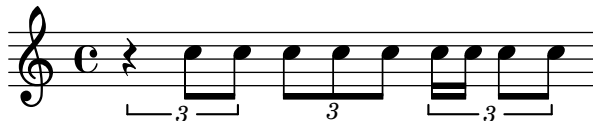
The horizontal position of the beginning of a trill spanner is positioned correctly relative to the note head it is attached to, even if scaled to a smaller size.



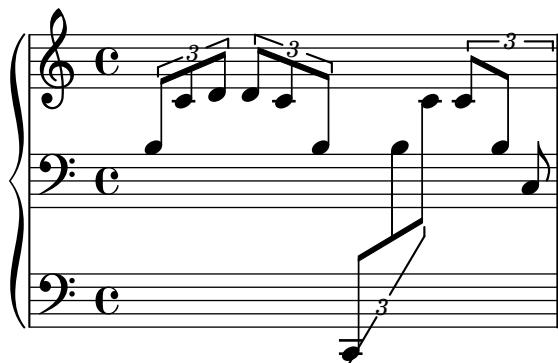
‘trill-spanner.ly’ The trill symbol and the wavy line are neatly aligned: the wavy line should appear to come from the crook of the r



‘tuplet-beam.ly’ In combination with a beam, the bracket of the tuplet bracket is removed. This only happens if there is one beam, as long as the bracket.



‘tuplet-bracket-cross-staff.ly’ Cross-staff tuplets are drawn correctly, even across multiple staves.



‘tuplet-bracket-visibility.ly’ The default behavior of tuplet-bracket visibility is to print a bracket unless there is a beam of the same length as the tuplet. Overriding ‘**bracket-visibility**’ changes the bracket visibility as follows:

- **#t** (always print a bracket)
- **#f** (never print a bracket)
- **#'if-no-beam** (only print a bracket if there is no beam)



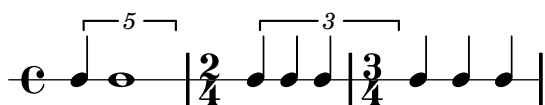
‘tuplet-broken.ly’ Broken tuplets are adorned with little arrows. The arrows come from the **edge-text** property, and thus be replaced with larger glyphs or other text.



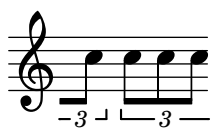
‘tuplet-full-length-extent.ly’ With `full-length-to-extent`, the extent of the attaching column for a full-length tuplet bracket can be ignored.



‘tuplet-full-length-note.ly’ tuplet can be made to run to prefatory matter or the next note, by setting `tupletFullLengthNote`.



‘tuplet-full-length.ly’ If `tupletFullLength` is set, tuplets end at the start of the next non-tuplet note.



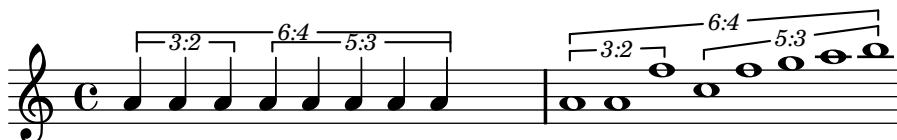
‘tuplet-gap.ly’ The size of the tuplet bracket gap is adjusted to the width of the text.



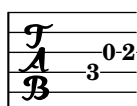
‘tuplet-nest-beam.ly’ Nested tuplets do collision resolution, also when they span beams.



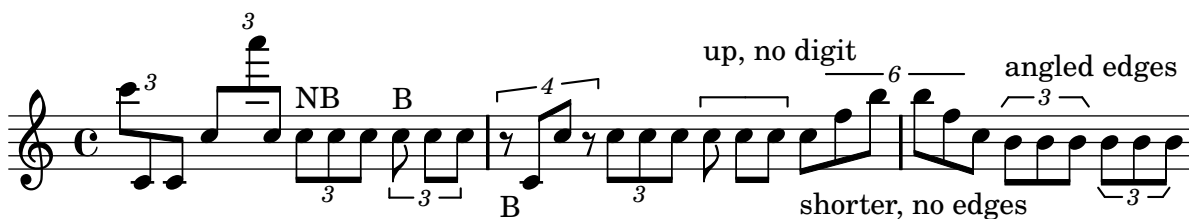
`'tuplet-nest.ly'` Tuplets may be nested.



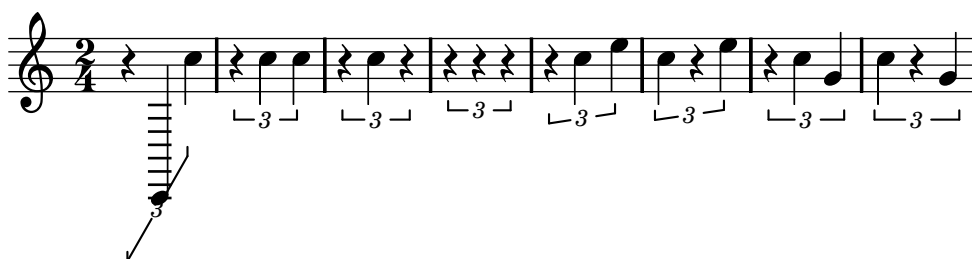
`'tuplet-no-stems.ly'` Removing Stem\_engraver doesn't cause crashes.



`'tuplet-properties.ly'` Tuplet bracket formatting supports numerous options, for instance, bracketed (B) and non-bracketed (NB).



`'tuplet-rest.ly'` Tuplets may contain rests.



`'tuplet-single-note.ly'` Show tuplet numbers also on single-note tuplets (otherwise the timing would look messed up!), but don't show a bracket. Make sure that tuplets without any notes don't show any number, either.



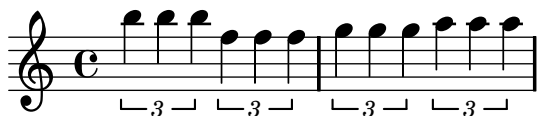
`'tuplet-slope.ly'` Tuplet brackets stay clear of the staff. The slope is determined by the graphical characteristic of the notes, but if the musical pattern does not follow graphical slope, then the bracket is horizontal

The bracket direction is determined by the dominating stem direction.





‘tuplet-staffline-collision.ly’ Horizontal tuplet brackets are shifted vertically to avoid staff line collisions.



‘tuplet-text-different-numbers.ly’ Non-standard tuplet texts: Printing other tuplet fractions than the ones actually assigned.



‘tuplet-text-fraction-with-notes.ly’ Non-standard tuplet texts: Printing a tuplet fraction with note durations assigned to both the denominator and the numerator.



‘tuplet-text-note-appended.ly’ Non-standard tuplet texts: Appending a note value to the normal text and to the fraction text.



‘tuplets.ly’

Tuplets are indicated by a bracket with a number. There should be no bracket if there is a beam exactly matching the length of the tuplet. The bracket does not interfere with the stafflines, and the number is centered in the gap in the bracket.

The bracket stops at the end of the stems, if the stems have the same direction as the bracket. The endings can be adjusted with **bracket-flare**.



‘typography-demo.ly’

heavily mutilated Edition Peters Morgenlied by Schubert

# LilyPond demo

Liebllich, etwas geschwind

1. Sü - ßes  
2. . . . . כיף

3  
Licht! Aus gol - de-nen Pfor - ten brichst du\_

5  
sie - gend durch\_ die Nacht. Schö - ner  
זה . . . . . כיף . . . . .

7  
Tag, du\_ bist er - wacht.\_

*cresc.*

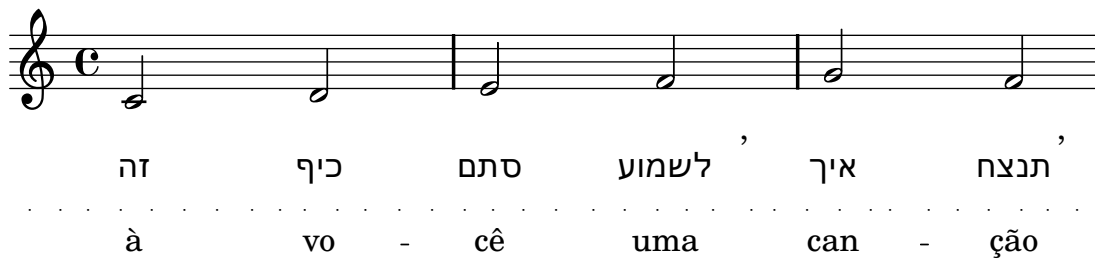
*f*

The musical score is written for a vocal line and piano accompaniment in 6/8 time. The key signature has one sharp (F#). The tempo/mood is 'Liebllich, etwas geschwind'. The score is divided into systems, with measure numbers 2, 3, 5, and 7 indicated at the beginning of the vocal staves. The lyrics are in German and Hebrew. The piano part features a prominent eighth-note accompaniment in the right hand and a more rhythmic bass line in the left hand. Dynamic markings include 'cresc.' and 'f'.

‘utf-8-mixed-text.ly’ words in mixed font in a single string are separated by spaces as in the input string. Here a Russian word followed by a roman word.

Hallo

‘utf-8.ly’ Various scripts may be used for texts (like titles and lyrics) introduced by entering them in UTF-8 encoding, and using a Pango based backend. Depending on the fonts installed, this fragment will render Bulgarian (Cyrillic), Hebrew, Japanese and Portuguese.



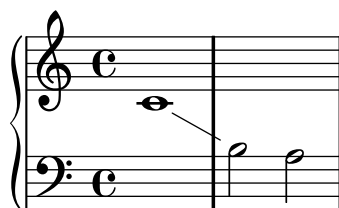
זה כיף סתם לשמוע , איך תנצח ,  
à vo - cê uma can - ção



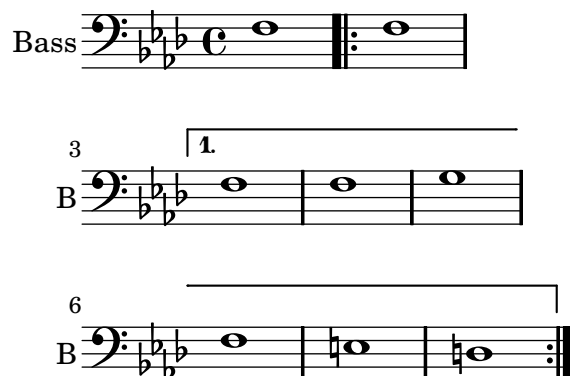
קרפד  
legal

‘voice-follower.ly’

Whenever a voice switches to another staff a line connecting the notes can be printed automatically. This is enabled if the property `followVoice` is set to true.

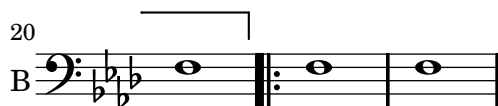
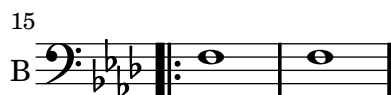
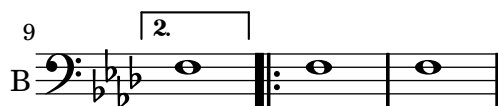


‘volta-broken-left-edge.ly’ Broken volta spanners behave correctly at their left edge in all cases.



Bass

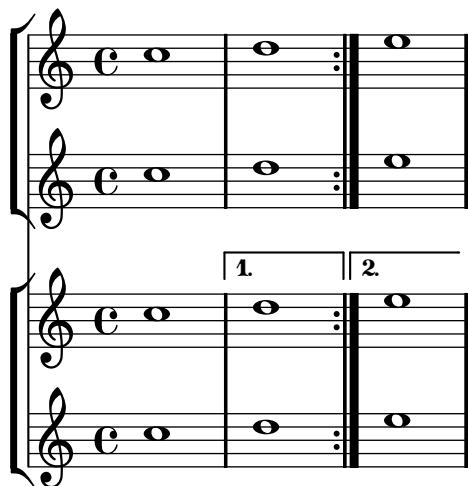




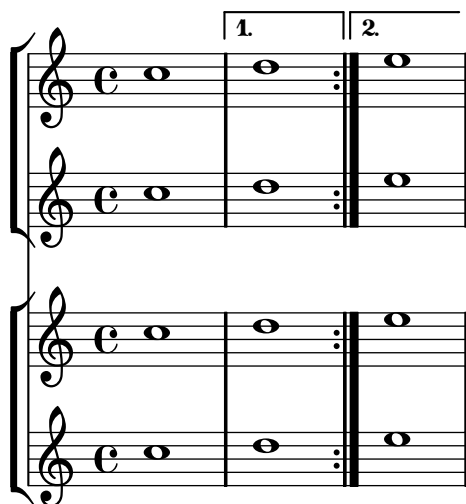
‘volta-markup-text.ly’ Volte using `repeatCommands` can have markup text.



‘volta-multi-staff-inner-staff.ly’ By putting `Volta_engraver` in a staff context, one can get volta brackets on staves other than the topmost one.



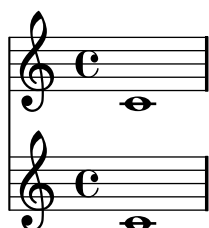
‘volta-multi-staff.ly’ By default, the volta brackets appear only in the topmost staff.



`'warn-conflicting-key-signatures.ly'` If you specify two different key signatures at one point, a warning is printed.



`'warn-unterminated-span-dynamic.ly'` A warning is printed if a dynamic spanner is un-terminated.



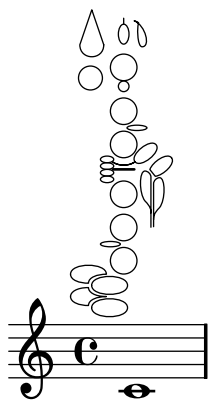
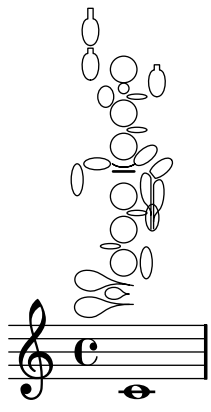
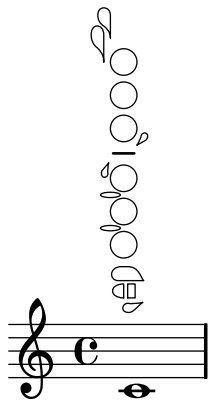
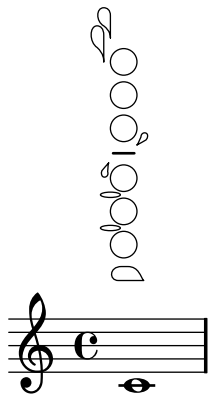
`'whiteout-lower-layers.ly'` If the `'whiteout` property of a grob is set to `#t`, that part of all objects in lower layers which falls under the extent of the grob is whited out. Here the `TimeSignature` whites out the `Tie` but not the `StaffSymbol`.

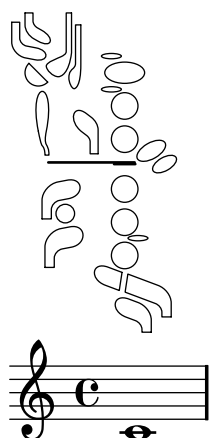
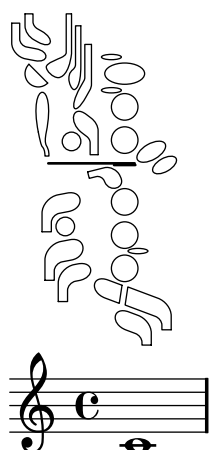
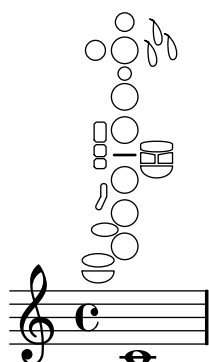
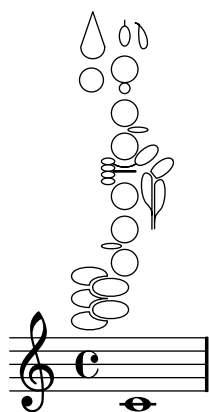


`'whiteout.ly'` The `whiteout` command underlays a white box under a markup. The whitening effect only is only guaranteed for staff lines, since staff lines are in a lower layer than most other grobs.



`'woodwind-diagrams-empty.ly'` Empty woodwind diagrams for all instruments in `woodwind-diagrams.scm`.





‘woodwind-diagrams-key-lists.ly’ Lists all possible keys for all instruments in woodwind-diagrams.scm

‘zero-staff-space.ly’

Setting staff-space to 0 does not cause a segmentation fault.

