

Sentence stimuli from Slevc, Rosenberg, & Patel (2009). Type indicates linguistic condition (syntactic, semantic, or filler), and the item numbers can be matched to each sentence's corresponding musical chorale on the following pages. The critical sentence regions are in italics, and the corresponding critical chords are boxed.

Item	Type	Sentence
1	syntactic	The chef / who wore / the poofy hat / remembered (that) / the recipe / <i>would</i> / require/ using / fresh basil.
2	syntactic	The scientist / wearing / thick glasses / confirmed (that) / the hypothesis / <i>was</i> / being / studied / in his lab.
3	syntactic	At the ceremony, / the director / who was very famous / accepted (that) / the award / <i>would</i> / go / to his brother / this year.
4	syntactic	The fan / of the rock band / heard (that) / the song / on the website / <i>would</i> / be played / during the concert / next week.
5	syntactic	After / the trial, / the attorney / advised (that) / the defendant / <i>was</i> / likely / to commit / more crimes.
6	syntactic	The author / with the glasses / wrote (that) / the novel / about pirates / <i>was</i> / likely / to be / a best-seller.
7	syntactic	During / finals week, / the student / forgot (that) / the solution / <i>was</i> / in the book / so / worked / on the problem / all night.
8	syntactic	At the end / of the day, / the apprentice / to the carpenter / learned (that) / the skill / <i>was</i> / quite marketable / in the city.
9	syntactic	After / Physics class, / the teacher / recalled (that) / the answer / to the hard question / <i>was</i> / written / in the back / of the book.
10	syntactic	In the movie, / the superhero / who wore / a flowing cape / promised (that) / the woman / <i>would</i> / not / get away / with the crime.
11	syntactic	During / the fourth day / of the trial, / the jury / doubted (that) / the witness / <i>would</i> / arrive / to testify / against / the defendant.

- 12 syntactic During / his lecture, / the professor / with a long beard / revealed (that) / the solution / to the difficult problem / *was* / not correct / and poorly written.
- 13 semantic The boy / noticed / the giraffe / with / the long / *neck (tail)* / at the zoo / yesterday.
- 14 semantic The Olympic diver / took / three steps / and jumped / into / *the cake (the pool)* / far below / him.
- 15 semantic The dentist / was going / to pull / his client's / damaged / *tooth (truck)* / but / the client / was late.
- 16 semantic The boss / warned / the mailman / to watch / for angry / *dogs (pigs)* / when / delivering / the mail.
- 17 semantic The vet / told / the lady / to give / a vaccine / to her / *pet (kid)* / to prevent / illness.
- 18 semantic In the winter, / the child / liked / to go / outside / to make / *a snowman (a drawing)* / before / it got dark.
- 19 semantic The princess / woke up / with / a kiss / from / the handsome / *prince (priest)* / who broke / the witch's / spell.
- 20 semantic On Valentines day, / the man / gave / his girlfriend / a large / bouquet of / *flowers (insects)* / to symbolize / his feelings / about / their relationship.
- 21 semantic To escape / the deadly / effects / of the sun, / the vampire / transforms / into a / *bat (fly)* / before / the sunrise.
- 22 semantic The stylist / thought / her client / should / shampoo / and blow-dry / her / *hair (frog)* / thoroughly / every week.
- 23 semantic The farmer / went / to the barn / to milk / the large / *cows (cats)* / before / dawn.
- 24 semantic The student / didn't / study / for her final / so she / got / a bad / *grade (lunch)* / compared to / the other students / in the class.
- 25 filler During / the exam, / the nervous student / wrote / hurriedly.
- 26 filler The new waitress / accidentally spilled / coffee / all over / the grouchy customer.
- 27 filler The students / cheered / when / the class bell / rang.

28 filler At the circus, / fifteen clowns / managed / to fit / into a Volkswagen Beetle.  
29 filler The farmer / was / concerned / about / the lack / of rain.  
30 filler As / the parade / passed by / the school, / the kids / cheered.  
31 filler While / the guard / watched / the television, / the prisoner / escaped.  
32 filler As / the musician / practiced / the violin, / the baby / cried.  
33 filler The bored spectators / jeered / when / the quarterback / fumbled / the ball.  
34 filler The guy / was / so hungry, / he ate / three cheeseburgers / and a milkshake.  
35 filler The computer / froze / before / the document / was / saved.  
36 filler The weather forecast / predicted / rain, / but / it was / a sunny day.  
37 filler The baseball manager / turned away / and spat / after / the star player / struck out.  
38 filler The jury / debated / for three days / before / returning / a guilty verdict.  
39 filler After / watching / the movie, / the critic / wrote / a negative review.  
40 filler When / the monster / suddenly / appeared, / the audience / shrieked.  
41 filler While / the dog / chased / the ball, / the boy / talked / to his friends.  
42 filler While / at the zoo, / the kid / saw / a bunch / of monkeys / eating bananas.  
43 filler The old man / was / furious / when / the kids / ran / across his lawn.  
44 filler The motivated student / studied / all night long, / but then / overslept / and missed / the test.  
45 filler While / the construction worker / fixed / the house, / the family / went / on vacation / to Florida.  
46 filler As / the professor / lectured / about / the boring topic, / the students / tried / to stay awake.  
47 filler During / the football game, / my girlfriend / went shopping / and / bought / three pairs / of shoes.  
48 filler After / the party / last weekend, / everyone / felt / terrible / at work / on Monday.

1

in-key



out-of-key



2

in-key



out-of-key



3

in-key



out-of-key



4

in-key

out-of-key

5

in-key

out-of-key

6

in-key

out-of-key

Measure 4 musical score. The in-key version (top) shows a sequence of chords: C4-E4, C4-G4, F4-A4, E4-G4, D4-F4, and a boxed D4-F4. The out-of-key version (bottom) shows the same sequence but with a sharp sign on the F4 in the boxed D4-F4 chord.

Measure 5 musical score. The in-key version (top) shows a sequence of chords: C4-E4, C4-G4, F4-A4, E4-G4, D4-F4, and a boxed D4-F4. The out-of-key version (bottom) shows the same sequence but with a flat sign on the F4 in the boxed D4-F4 chord.

Measure 6 musical score. The in-key version (top) shows a sequence of chords: C4-E4, C4-G4, F4-A4, E4-G4, D4-F4, and a boxed D4-F4. The out-of-key version (bottom) shows the same sequence but with a sharp sign on the F4 in the boxed D4-F4 chord.

7

in-key  
out-of-key

Measure 7 comparison. The in-key version (top) has a boxed chord of G4 (treble) and B3 (bass). The out-of-key version (bottom) has a boxed chord of F#4 (treble) and Bb3 (bass).

8

in-key  
out-of-key

Measure 8 comparison. The in-key version (top) has a boxed chord of G4 (treble) and B3 (bass). The out-of-key version (bottom) has a boxed chord of F#4 (treble) and Bb3 (bass).

9

in-key  
out-of-key

Measure 9 comparison. The in-key version (top) has a boxed chord of G4 (treble) and B3 (bass). The out-of-key version (bottom) has a boxed chord of F#4 (treble) and Bb3 (bass).

10

in-key

out-of-key

This block contains the musical notation for exercise 10. It consists of two systems of staves. The top system is labeled 'in-key' and the bottom system is labeled 'out-of-key'. Each system has a grand staff with a treble and bass clef. The 'in-key' system shows a sequence of chords in a major key, with a box highlighting the final chord. The 'out-of-key' system shows the same sequence of chords, but with a flat sign on the final chord, indicating a change in key. The exercise number '10' is positioned to the left of the staves.

11

in-key

out-of-key

This block contains the musical notation for exercise 11. It consists of two systems of staves. The top system is labeled 'in-key' and the bottom system is labeled 'out-of-key'. Each system has a grand staff with a treble and bass clef. The 'in-key' system shows a sequence of chords in a major key, with a box highlighting the final chord. The 'out-of-key' system shows the same sequence of chords, but with a flat sign on the final chord, indicating a change in key. The exercise number '11' is positioned to the left of the staves.

12

in-key

out-of-key

This block contains the musical notation for exercise 12. It consists of two systems of staves. The top system is labeled 'in-key' and the bottom system is labeled 'out-of-key'. Each system has a grand staff with a treble and bass clef. The 'in-key' system shows a sequence of chords in a major key, with a box highlighting the final chord. The 'out-of-key' system shows the same sequence of chords, but with a flat sign on the final chord, indicating a change in key. The exercise number '12' is positioned to the left of the staves.

13

in-key

out-of-key

14

in-key

out-of-key

15

in-key

out-of-key

Exercise 13, measures 13-14. The score is for piano, with two staves (treble and bass clef) grouped by a brace. The key signature is one sharp (F#). The melody is in the treble clef, and the bass line is in the bass clef. A box highlights the transition from measure 13 to 14, where the key signature changes to one flat (Bb).

Exercise 14, measures 14-15. The score is for piano, with two staves (treble and bass clef) grouped by a brace. The key signature is one sharp (F#). The melody is in the treble clef, and the bass line is in the bass clef. A box highlights the transition from measure 14 to 15, where the key signature changes to one flat (Bb).

Exercise 15, measures 15-16. The score is for piano, with two staves (treble and bass clef) grouped by a brace. The key signature is one sharp (F#). The melody is in the treble clef, and the bass line is in the bass clef. A box highlights the transition from measure 15 to 16, where the key signature changes to one flat (Bb).



16

in-key

out-of-key

17

in-key

out-of-key

18

in-key

out-of-key

Exercise 16 consists of two systems of piano accompaniment. Each system has a treble and bass staff. The first system is labeled 'in-key' and the second 'out-of-key'. Both systems show a sequence of chords: C major (C4-E4-G4), D minor (F4-A4-Bb4), E minor (G4-Bb4-D5), F major (F4-A4-C5), G major (Bb4-D5-F5), and A major (C5-E5-G5). In the 'out-of-key' system, the A major chord in measure 6 is altered to A# major (C#5-E5-G5), which is highlighted by a black box.

Exercise 17 consists of two systems of piano accompaniment. Each system has a treble and bass staff. The first system is labeled 'in-key' and the second 'out-of-key'. Both systems show a sequence of chords: C major (C4-E4-G4), D minor (F4-A4-Bb4), E minor (G4-Bb4-D5), F major (F4-A4-C5), G major (Bb4-D5-F5), and A major (C5-E5-G5). In the 'out-of-key' system, the A major chord in measure 6 is altered to A# major (C#5-E5-G5), which is highlighted by a black box.

Exercise 18 consists of two systems of piano accompaniment. Each system has a treble and bass staff. The first system is labeled 'in-key' and the second 'out-of-key'. Both systems show a sequence of chords: C major (C4-E4-G4), D minor (F4-A4-Bb4), E minor (G4-Bb4-D5), F major (F4-A4-C5), G major (Bb4-D5-F5), and A major (C5-E5-G5). In the 'out-of-key' system, the A major chord in measure 6 is altered to A# major (C#5-E5-G5), which is highlighted by a black box.

19

in-key

out-of-key

20

in-key

out-of-key

21

in-key

out-of-key

Measure 19 musical score. The in-key version (top) shows a sequence of chords: C4-E4, C4-G4, F4-A4, E4-G4, D4-F4, C4-E4, and a boxed C4-G4. The out-of-key version (bottom) shows the same sequence, but the boxed chord is C#4-G4, and the final chord is Bb3-D4.

Measure 20 musical score. The in-key version (top) shows a sequence of chords: C4-E4, C4-G4, F4-A4, E4-G4, D4-F4, C4-E4, and a boxed C4-G4. The out-of-key version (bottom) shows the same sequence, but the boxed chord is C#4-G4, and the final chord is Bb3-D4.

Measure 21 musical score. The in-key version (top) shows a sequence of chords: C4-E4, C4-G4, F4-A4, E4-G4, D4-F4, C4-E4, and a boxed C4-G4. The out-of-key version (bottom) shows the same sequence, but the boxed chord is Bb3-D4, and the final chord is Bb3-D4.

22

in-key

out-of-key

23

in-key

out-of-key

24

in-key

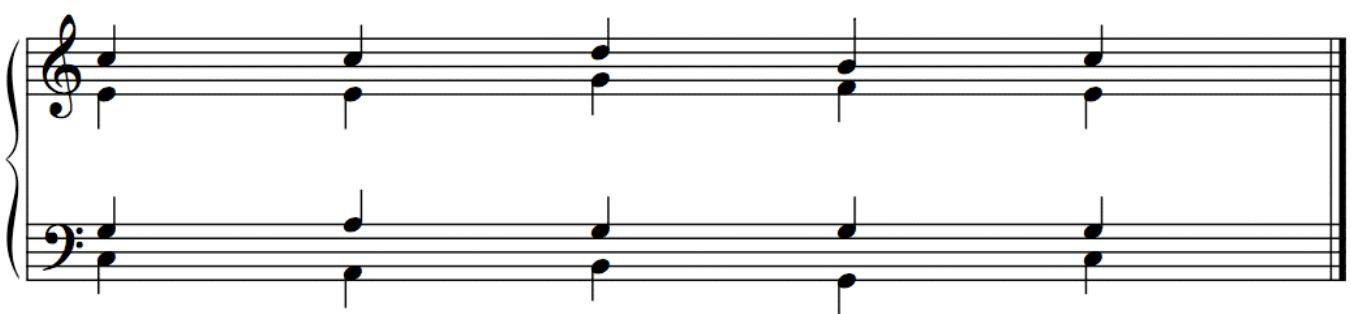
out-of-key

Exercise 22, measures 1-8. The score is in 2/4 time. Measures 1-7 are in the key of C major. Measure 8 is boxed and contains a B-flat in the treble clef and a B-flat in the bass clef, indicating a modulation to B-flat major. Measures 9-10 continue in B-flat major.

Exercise 23, measures 1-8. The score is in 2/4 time. Measures 1-7 are in the key of C major. Measure 8 is boxed and contains a C-sharp in the treble clef and a C-sharp in the bass clef, indicating a modulation to C minor. Measures 9-10 continue in C minor.

Exercise 24, measures 1-8. The score is in 2/4 time. Measures 1-7 are in the key of C major. Measure 8 is boxed and contains a B-flat in the treble clef and a B-flat in the bass clef, indicating a modulation to B-flat major. Measures 9-10 continue in B-flat major.

25



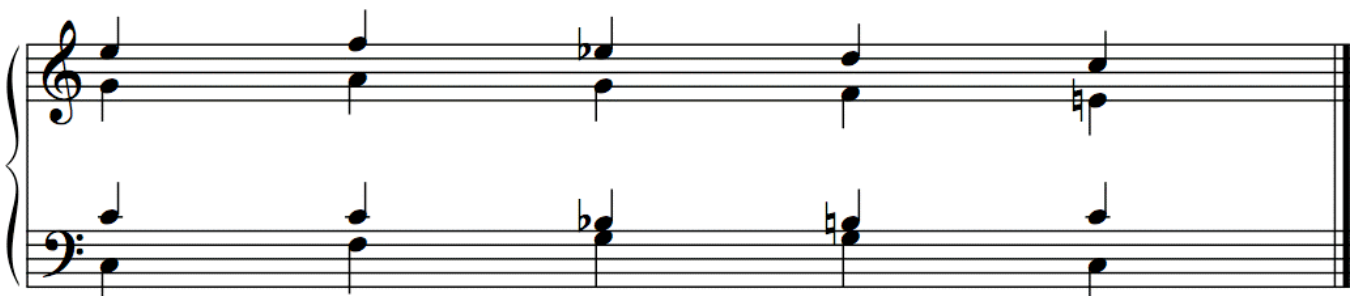
Measure 25: Treble and bass staves. Treble staff: G4 (quarter), A4 (quarter), B4 (quarter), C5 (quarter), D5 (quarter). Bass staff: G3 (quarter), A3 (quarter), B3 (quarter), C4 (quarter), D4 (quarter).

26



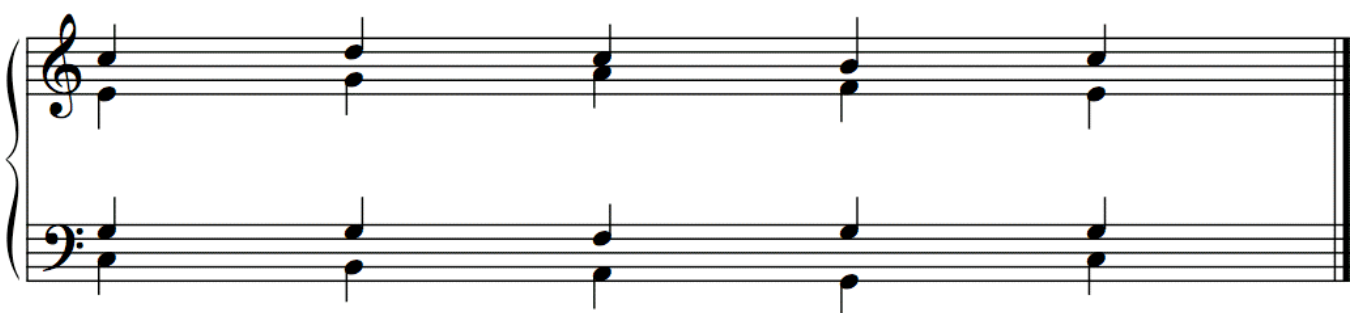
Measure 26: Treble and bass staves. Treble staff: G4 (quarter), A4 (quarter), B4 (quarter), C5 (quarter), D5 (quarter). Bass staff: G3 (quarter), A3 (quarter), B3 (quarter), C4 (quarter), D4 (quarter).

27



Measure 27: Treble and bass staves. Treble staff: G4 (quarter), A4 (quarter), Bb4 (quarter), C5 (quarter), D5 (quarter). Bass staff: G3 (quarter), A3 (quarter), Bb3 (quarter), C4 (quarter), D4 (quarter).

28



Measure 28: Treble and bass staves. Treble staff: G4 (quarter), A4 (quarter), B4 (quarter), C5 (quarter), D5 (quarter). Bass staff: G3 (quarter), A3 (quarter), B3 (quarter), C4 (quarter), D4 (quarter).

29



Measure 29: Treble and bass staves. Treble staff: G4 (quarter), A4 (quarter), B4 (quarter), C5 (quarter), D5 (quarter). Bass staff: G3 (quarter), A3 (quarter), B3 (quarter), C4 (quarter), D4 (quarter).

30

Measure 30: Treble clef has a half note chord of G4 and B4. Bass clef has a half note chord of G3 and B2. The measure is divided into two equal parts by a vertical line.

31

Measure 31: Treble clef has a half note chord of A4 and C5. Bass clef has a half note chord of A2 and C3. The measure is divided into two equal parts by a vertical line.

32

Measure 32: Treble clef has a half note chord of B4 and D5. Bass clef has a half note chord of B2 and D3. The measure is divided into two equal parts by a vertical line.

33

Measure 33: Treble clef has a half note chord of C5 and E5. Bass clef has a half note chord of C3 and E3. The measure is divided into two equal parts by a vertical line.

34

Measure 34: Treble clef has a half note chord of D5 and F#5. Bass clef has a half note chord of D3 and F#3. The measure is divided into two equal parts by a vertical line.

35



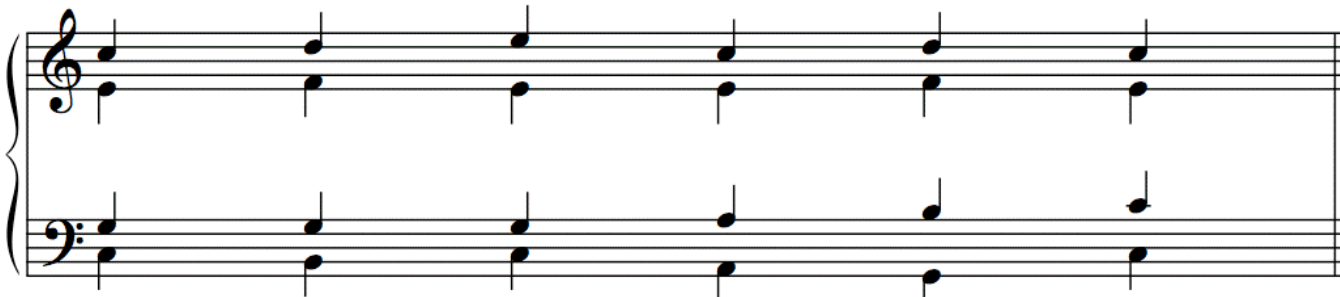
Measure 35: Treble and bass staves. Treble: G4, A4, B4, C5, B4, A4. Bass: G3, A3, B3, C4, B3, A3. All notes are quarter notes.

36



Measure 36: Treble and bass staves. Treble: G4, A4, B4, C5, B4, A4. Bass: G3, A3, B3, C4, B3, A3. All notes are quarter notes.

37



Measure 37: Treble and bass staves. Treble: G4, A4, B4, C5, B4, A4. Bass: G3, A3, B3, C4, B3, A3. All notes are quarter notes.

38



Measure 38: Treble and bass staves. Treble: G4, A4, B4, C5, B4, A4. Bass: G3, A3, B3, C4, B3, A3. All notes are quarter notes.

39



Measure 39: Treble and bass staves. Treble: G4, A4, B4, C5, B4, A4. Bass: G3, A3, B3, C4, B3, A3. All notes are quarter notes.

40

Measures 40-41: Treble and bass staves with chords. Measure 40: Treble (G4, A4), Bass (F3, G3). Measure 41: Treble (G4, A4), Bass (F3, G3).

41

Measures 42-43: Treble and bass staves with chords. Measure 42: Treble (G4, A4), Bass (F3, G3). Measure 43: Treble (G4, A4), Bass (F3, G3).

42

Measures 44-45: Treble and bass staves with chords. Measure 44: Treble (G4, A4), Bass (F3, G3). Measure 45: Treble (G4, A4), Bass (F3, G3).

43

Measures 46-47: Treble and bass staves with chords. Measure 46: Treble (G4, A4), Bass (F3, G3). Measure 47: Treble (G4, A4), Bass (F3, G3).

44

Measures 48-49: Treble and bass staves with chords. Measure 48: Treble (G4, A4), Bass (F3, G3). Measure 49: Treble (G4, A4), Bass (F3, G3).

45

Measure 45: Treble clef contains a series of eighth notes (G4, A4, B4, C5, D5, E5, F5, G5). Bass clef contains a series of eighth notes (F3, E3, D3, C3, B2, A2, G2, F2). The measure ends with a double bar line.

46

Measure 46: Treble clef contains a series of eighth notes (A4, B4, C5, D5, E5, F5, G5, A5). Bass clef contains a series of eighth notes (E3, D3, C3, B2, A2, G2, F2, E2). The measure ends with a double bar line.

47

Measure 47: Treble clef contains a series of eighth notes (B4, C5, D5, E5, F5, G5, A5, B5). Bass clef contains a series of eighth notes (D3, C3, B2, A2, G2, F2, E2, D2). The measure ends with a double bar line.

48

Measure 48: Treble clef contains a series of eighth notes (C5, D5, E5, F5, G5, A5, B5, C6). Bass clef contains a series of eighth notes (C3, B2, A2, G2, F2, E2, D2, C2). The measure ends with a double bar line.