

Kapelle Scales 1.0

User Manual

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I. Introduction

An Overview of Kapelle Scales

Kapelle Scales is an application designed for working with scales and modes of all sorts. It allows the practice of writing, hearing, identifying, error-correcting, and playing scales, together with material related to key signatures such as creating or selecting key signatures.

Kapelle Scales is designed to be as extensible and flexible as possible. It is not hard-wired as to the scales and modes it understands or can present, but may be easily extended by anyone who knows how to use the application *Kapelle*.

Kapelle Scales does not hard-wire the specific exercises it presents to the user, either. Kapelle Scales exercises are text files, similar to the INI files used in Windows, which dictate how the application will create an exercise. As a result, Kapelle Scales may be tailored to

are created as plain-text files, which contain instructions that specify how a particular exercise is to be created.

This instruction file can specify the scales and modes to use in the exercise, the type of exercise (see Chapter II), the number of scales to include in a single exercise, plus a host of other options—including the use of all 7 clefs. Due to this technique of creating and presenting exercises, Kapelle Scales can be said to present unlimited possibilities for scale-related exercises.

II. The Types of Exercises in Kapelle Scales

You can do a lot with scales. Kapelle Scales has targeted no less than 12 different scale-related activities, each of which might contain a number of sub-options.

It should be stressed that in almost all types of exercises, the starting and ending degree of the scale may be specified as being other than 1. In addition, all 7 clefs may be used; the exercise may restrict itself to one clef throughout, or each presented scale may use its own clef. The selection of clefs may be specified in the exercise template file, along with every other pertinent option.

It is possible to categorize the exercise types into larger categories, which are: writing, adding accidentals, adding key signatures, identifying, error-correcting, and playing.

For full information on the options available in specifying an individual scale exercise, see the *ScaleMaker User Manual*, which gives full instruction on the creating of an exercise template file using the ScaleMaker application (which simplifies and safeguards the process in the place of writing the file using a text editor.)

Writing Scales

Writing scales involves notating a scale. The options for this activity are:

- Whether or not to give the first note.
- Whether or not to give a key signature, or require the use of accidentals.

Adding Accidentals to Scales

A scale in all naturals can be presented, with its tonic and mode identified. The user is then asked to add the appropriate accidentals in order to create the requested scale.

Adding Key Signatures to Scales

A scale in all naturals can be presented, with its tonic and mode identified. The user is then asked to either selected or create a key signature that will produce that tonic and mode from the all-naturals scale.

The scale may be *selected* from a list of possibilities, or it might be *created* by assembling accidentals onto a staff.

Identifying Scales

Scales may be shown to the user, and the user required to identify the scale.

Identifying Scales at Sight

A complete scale can be shown and the user required to identify the tonic and mode.

Identifying Scales by Ear

A complete scale can be played, and the user required to identify the scale. There are two different ways to do this:

- The first pitch can be given and the user required to identify both tonic and mode.
- No pitches given and the user required to 5 0 TD /iode.

the user.

The number of errors and the specific scale degrees on which they occur may be specified in the exercise template.

Playing Scales

Scales may be played in two different ways:

- The user may be asked to play a particular scale from scale degree to scale degree.
- The user may be asked to play a given mode from a given note as the first scale degree.

III. Opening an Exercise

Kapelle Scales does not use a traditional File Menu-based “open” command to open an exercise. Instead, the Tree Control Pane on the left side of the window displays icons for those exercises which the program can open.

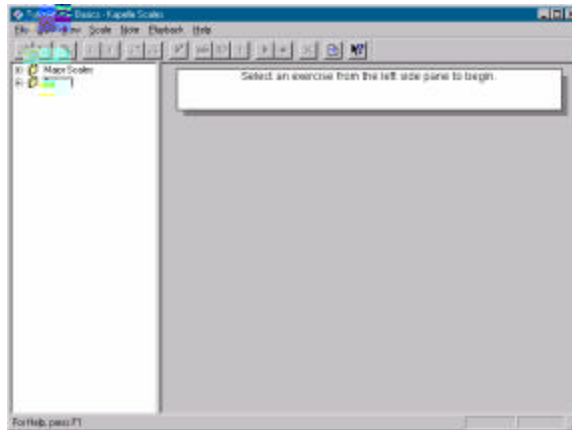


Figure 1: The Location of the Tree Control Pane

If the Exercise Names are Truncated

If the exercise names are longer than the width of the Tree Control Pane, you can read the entire name by holding the mouse pointer over the name of an exercise that is truncated by the right margin of the pane.

The full name of the exercise will be displayed in a little yellow window.

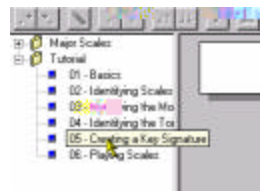


Figure 2: Viewing the Full Name of an Exercise

To adjust the size, positioned the caret over the vertical bar separating the Tree Control Pane from the Main Window. The caret will change shape to a double-headed arrow.

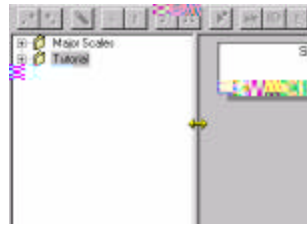



Figure 3: Adjusting the Tree Control Pane Size

Then drag the bar to the new location. When you release the mouse button, the Tree Control Pane will be the new size.

Selecting an Exercise to Open

Navigating the Tree Control Pane

There are two types of items in the Tree Control Pane: folders, and exercises.

Folders look like this: 

Exercises look like this: 

Opening Folders

A folder is closed when there is a plus sign to the left of the folder. Open such a folder by clicking on the plus sign.

Closing Folders

When a folder is open, there is a minus sign to the left of the folder. Close such a folder by clicking on the minus sign.



Figure 4: Open and Closed Folders

Selecting Individual Exercises

Click once on the icon or name of the exercise to select it.



Figure 5: A Selected Exercise

Opening an Exercise

To open an exercise that has been selected, do any **one** of the following:

- Double-click on the exercise's name or icon.
- Select "Open Exercise" from the File Menu.
- Press Ctrl+O. (That's the letter 'O', not the zero.)
- Right-click on the exercise's name or icon, and then choose "Open Exercise" from the Context Menu.



Figure 6: Right-Clicking to Open an Exercise

What Happens After Opening an Exercise

After you have opened the exercise, Kapelle Scales goes to work creating a series of scales for you to work with, based on the instructions contained in the exercise.

While it is working, the caret will take on the standard "wait" caret shape—an hourglass on most systems. However, in all but the most extreme conditions this process will be virtually instantaneous. As soon as the collection of new scales has been created, you will be presented with the first scale to work with.

IV. Working Through an Exercise

The Parts of the Main Window

The Main Window is comprised of four primary viewing areas, or “panes”.

Not all four panes are always visible at the same time. A particular pane is visible only when it is needed.

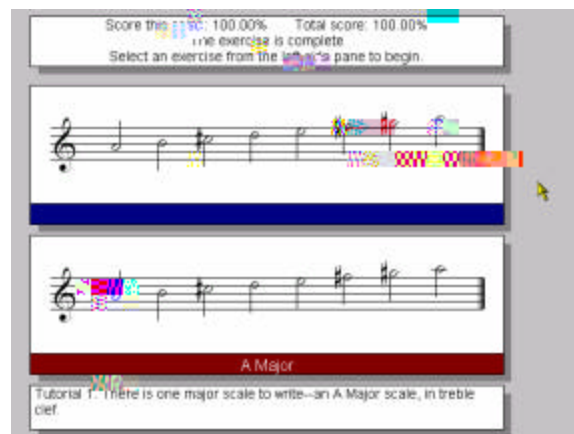


Figure 7: The Main Window

Announcements Pane

The Announcements Pane contains instructions and information.

accumulated summary.

- Directions for continuing.

Always read the Announcements Pane carefully during an exercise.

Notation Pane

The Notation Pane displays a single measure, in which the scale you are to work with is displayed.

The contents of this single measure vary depending on the type of exercise. For example, in a writing-scales exercise, it will be either blank or will contain the starting note for the exercise.

When you work with notation elements of a scale (writing notes, adding accidentals, error correction, etc.,) you work within the Notation Pane.

Directly below the Notation Pane is a narrow colored band. This band serves a number of purposes, depending on the current state of the exercise.

- It may act as an onscreen button—watch it for instructions.
- It may be used to display the tonic and/or mode of the scale.

Source Pane

The “source” is the original scale that was used to create the exercise in the first place—in other words the “correct” scale. The Source Pane displays that scale as well as its tonic and mode.

The Source Pane is never displayed unless the current scale has been evaluated by the program.

Comment Pane

Most exercises include a comment. This is a line of text which was

written by the author of the exercise, and which provides extra information about that exercise.

Most comments are short. However, the Comment Pane can sprout a vertical scroll bar if the comment is too long to fit within the space allotted.

Reading the Announcements Pane

When you start working on an exercise, be sure to read the Announcements Pane carefully: it will tell you what you need to know about carrying out the exercise.

Consider this set of instructions:

Write an ascending A Major scale. Start on degree 1 and end on degree 1.
Notate all accidentals.
Select Answer Ready (F5) when you're finished.

Figure 8: A Typical Instruction

This instruction tells you to:

- Notate an ascending A-Major scale.
- Start and end on the first scale degrees.
- Use accidentals instead of a key signature.
- Give the Answer Ready command (which can be accessed from the keyboard via F5) when you have finished.

Always be sure to check whether you are supposed to work with an ascending or descending scale.

Carrying Out the Instructions

Once you know what you need to do, you then set about doing it. This can entail a number of different activities, including:

- Notating scales
- Identifying the tonic, or mode, or both, of a given scale
- Adding accidentals to a scale
- Error-correcting a scale
- Adding a key signature
- Playing a scale

on the Toolbar.


- Right-click in the Notation Pane and select **Answer Ready** from the Context Menu.

Getting a New Scale

Most exercises consist of a series of scales. Your goal is to carry out the assigned task for each scale in turn. After you have worked through all of the scales in the exercise, your final score is tallied and recorded.

Once you complete one scale, you ask for another until the exercise is complete. *Note that the **New Scale** command is not available until the current scale has been evaluated.*

Access the **New Scale** command by any of the following techniques:

- Press **Ctrl+N**.
- Select **New Scale** from the Scale Menu.
- Click the **New Scale** icon  on the Toolbar.
- Right-click in the Notation Pane and select **New Scale** from the Context Menu.

When the Exercise Is Complete

When the exercise is complete, the Announcements Pane will change to look as follows:

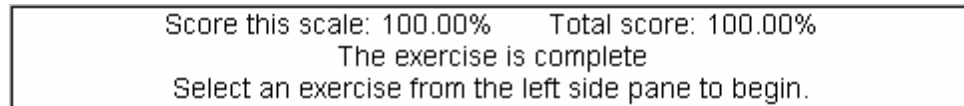


Figure 9: Exercise Complete Announcement

At this point your final score has been written to your progress report. For information about your progress report, see the chapter **Progress Reports** on page 44.

Stopping the Exercise Prematurely


If you want to stop an exercise before it has fully completed—that is, before you have worked through all of the scales in the exercise—you may give the **Stop Exercise** command, which will stop the exercise at that point.

*The **Stop Exercise** command results in your final score not being recorded.*

You will be asked if this is really your intention before continuing, since once the exercise is stopped, your accumulated score up to that point is lost.

You may prefer to save your place in the current exercise instead: this will allow you to return to the exercise at some other time, retaining your current accumulated score. To do this, see the chapter **Saving and Restoring Your Place** on page 44.

You may access the **Stop Exercise** command by any of the following techniques:

- Press **Ctrl+S**.
- Select **Stop Exercise** from the Scale Menu.
- Click on the **Stop Exercise** icon  on the Toolbar.
- Right-click in the Notation Pane and select **Stop Exercise** from the Context Menu.

V. Notation Techniques

A number of the Kapelle Scales exercise styles involve some kind of musical notation. This may be writing a complete scale, writing only part of a scale, adding accidentals, or even correcting errors on a displayed scale.

To carry out these tasks you need to learn to use the Kapelle Scales notational system.

Kapelle Scales is built on the same *Apollo* library as all of the other programs in the *Kapelle* series and therefore the notational system will be no surprise to anyone familiar with these other programs.

Moving the Caret

The onscreen caret (also called a 'caret') is a blinking rectangle in inverse video. It is displayed in the Notation Pane for those exercises which require some form of musical notation.



Figure 10: The Caret

The onscreen caret is available only when it is needed. So it is not visible at all times the Notation Pane is visible.

TIP: if you think the caret should be visible and it isn't, *click in the Notation Pane*. If the caret does not appear, then this style of exercise does not require a caret.

The vertical location of the caret determines the P75 rr-

Moving the Caret With the Mouse

To move the caret with the mouse, click on the location where you would like the caret to appear. *Note that the caret moves horizontally only to locations already occupied by notes—or it defaults to the position of the first note in the measure.*


Moving the Caret With the Arrow Keys

Entering Notes

Entering a note automatically places it at the end of the current measure.

To enter a note, first position the caret at the vertical location where the note should be placed. Then give the **Enter Note** command. A half-note (the only note value used in Kapelle Scales) will be added to the end of the measure.

The **Enter Note** command may be accessed by any of the following techniques:

- Press the **Enter** key.
- Select **Enter Note** from the Note Menu.
- Click the **Enter Note** icon  on the Toolbar.
- Right-click in the Notation Pane and select **Enter Note** from the Context Menu.

Inserting Notes

“Inserting” a note means to place a note at a particular location in the measure, instead of at the end of the measure (which is “entering” a note.)

To insert a note, first place the caret at the horizontal and vertical location (time and pitch) where you would like the new note to be positioned. Then give the **Insert Note** command. A half-note (the only note value used in Kapelle Scales) will be inserted at that location—the notes following it are pushed over to make room.

The **Insert Note** command may be accessed by any of the following techniques:

- Press **Shift+Enter**.

•

Clearing All Notes

A shortcut command for clearing out all the notes in the measure is provided. You do not have to select any notes for this to work.


To clear all the notes in the measure, give the **Clear All** command. This command may be accessed by the following technique:

- Select **Clear All** from the Edit Menu.

Flattening Notes

To flat (lower a chromatic half-step) a note or group of notes, first select the note or group of notes you wish to flat, then give the **Flat** command.

The **Flat** command may be accessed by any of the following techniques:


- Press **F7**.
- Select **Flat** from the Note Menu.
- Click the **Flat** icon  on the Toolbar.
- Right-click in the Notation Pane and select **Flat** from the Context Menu.

Sharpening Notes

To sharp (raise a chromatic half-step) a note or group of notes, first select the note or group of notes you wish to sharp, then give the **Sharp** command.

The **Sharp** command may be accessed by any of the following techniques:

- Press **F8**.


- Select **Sharp** from the Note Menu.
- Click the **Sharp** icon  on the Toolbar.
- Right-click in the Notation Pane and select **Sharp** from the Context Menu.

Moving Notes

You may move notes upwards or downwards by a line or space at a time.

To move notes, first select them, then give either the **Move Note Up** or **Move Note Down** commands.

These commands are accessed by any of the following techniques:

- Press **Ctrl+Shift+Down Arrow** or **Ctrl+Shift+Up Arrow**.
- Select **Move Note Down** or **Move Note Up** from the Note Menu.
- Click the **Move Note Down** icon  or the **Move**

Pasting Notes

Kapelle Scales allows you to paste the Clipboard contents into the Notation Pane. You have three options for the location of the pasted notes: immediately before the insertion point, immediately after the insertion point, or in place of a multiple selection.



NOTE: since Kapelle Scales displays only one single measure of notes at a time, and since no measure may contain more notes than the meter allows, the entire contents of the Clipboard may not be pasted into the Notation Pane if that would result in “overrunning” the measure.

Pasting Before the Insertion Point

Pasting before the insertion point is the default. To do this, place the insertion point where you would like the pasted note(s) to appear, and then give the **Paste** command.



NOTE: the **Paste** command will not be available if there is a rectangular selection—even if that selection encompasses only one note.

The **Paste** command can be accessed by any of the following techniques:

- Press **Ctrl+V**.
- Select **Paste** from the Edit Menu.

Pasting After the Insertion Point

If you prefer to paste in the notes after the current insertion point, use the **Paste After** command.



NOTE: the **Paste After** command will not be available if there is a rectangular selection—even if that selection encompasses only one note.

The **Paste After** command may be accessed by any of the following techniques:

- Press **Ctrl+Shift+V**.
- Select **Paste After** from the Edit Menu.

Pasting to Replace the Selection

You may insert the contents of the clipboard into a rectangular selection—replacing those contents—via the **Paste Replace** command.



NOTE: the **Paste Replace** command is enabled only if there is a rectangular selection—and, of course, if there is material on the Clipboard to paste.

The **Paste Replace** command may be accessed by any of the following techniques:

- Press **Ctrl+Alt+V**.
- Select **Paste Replace** from the Edit Menu.

VII. Undo and Redo

Kapelle Scales allows you to Undo—

- Select **Undo Multiple** from the Edit Menu.

This will produce the Undo Multiple Dialog Box:

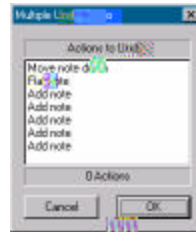


Figure 15: Undo Multiple Dialog Box

Select the last action you wish to Undo by clicking on it. This will automatically select all actions up to the most recent one—Undo must be carried out sequentially to avoid corrupting the data. In this example, the third action down (“Add note”) has been clicked on; note how the first two actions (“Move note down” and “Flat note”) have been included in the selection:

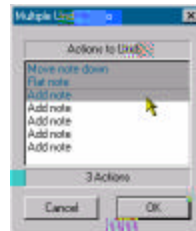


Figure 16: Undo Multiple with Three Actions Selected

To Redo a Single Action

After you Undo an action, you can “take back” the Undo—which is a Redo. To Redo a single action, use the **Redo <Action>** command, where **<Action>** is the name of the most recent Undo task.

The **Redo** command can be accessed by any of the following techniques:

- Press **Ctrl+R**.
- Select **Redo** from the Edit Menu.

To Redo Multiple Actions

You may redo multiple undone actions via the **Redo Multiple** command.

The **Redo Multiple** command can be accessed by the following technique:

- The **Redo Multiple**

VIII. Identifying a Scale

A number of scale activities involve identifying scales. You may be asked to identify a scale's mode, its tonic, or both its tonic and mode.

In any scale activity which involves identifying a scale, the color bar beneath the Notation Pane will become a double-clickable button. The caption on that bar will change, depending on the action you will be carrying out:



Figure 17: Double-Clicking to Identify Tonic and Mode

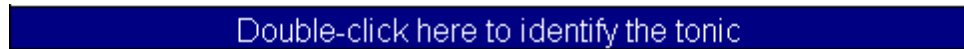


Figure 18: Double-Clicking to Identify the Tonic



Figure 19: Double-Clicking to Identify the Mode

Identifying Mode Only

When asked to identify the mode of a scale, you give the **Identify Mode** command.

The **Identify Mode** command can be accessed by any of the following techniques:

- Double-click on the Notation Pane color bar.
- Press **Ctrl+D**.
- Select **Identify Mode** from the Scale Menu.
- Right-click in the Notation Pane and select **Identify Mode** from the Context Menu.

This command produces the Identify Mode Dialog Box.

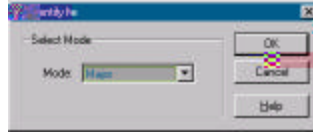


Figure 20: Identify Mode Dialog Box

Select the mode from the drop-down list box, then click OK (or press **Enter**).



TIP: type the first letter of the mode's name to automatically select the mode. Since there might be more than one mode starting with that letter, you might need to type the letter more than once—the selected names will cycle.




NOTE: the drop-down list box will contain only those modes which are used in this particular exercise, not all possible modes.

Identifying Tonic and Mode

When asked to identify both the tonic and mode of a scale, you give the **Identify Scale** command.

The **Identify Scale** command can be accessed by any of the following techniques:

- Double-click on the Notation Pane color bar.
- Press **Ctrl+I**.
- Select **Identify Scale** from the Scale Menu.
- Click the **Identify Scale** icon  on the Toolbar.
- Right-click in the Notation Pane and select **Identify Scale** from the Context Menu.

This will produce the Identify Scale Dialog Box.

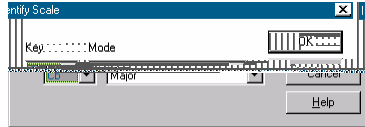


Figure 21: Identify Scale Dialog Box

Select the tonic pitch from the *Key* drop-down list box, and the mode from the *Mode* drop-down list box, then click OK (or press **Enter**).



TIP: you may move from list box to list box via the Tab key.



TIP: you can select the key or mode by typing in the first letter when the respective drop-down list box is selected. If there is more than one entry beginning with that letter, the list box will cycle through the available selections. For example, typing 'c' for the *Key* drop-down list box will result in selecting **Cb,C,C#** in sequence.



NOTE: the *Key* drop-down list box will list all available tonic pitches—even highly unlikely ones like F#. The *Mode* drop-down list box, on the other hand, lists only those modes which are used in this exercise.

Identifying Tonic Only

When asked to identify the tonic of a scale, give the **Identify Tonic** command.

The **Identify Tonic** command can be accessed by any of the following techniques:

- Double-click the Notation Pane color bar.
- Press **Ctrl+Y**.
- Select **Identify Tonic** from the Scale Menu.
- Right-click in the Notation Pane and select **Identify Tonic** from the Context Menu.

This command will produce the Identify Tonic Dialog Box.

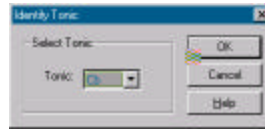


Figure 22: Identify Tonic Dialog Box

Select the tonic from the drop-down list box and click OK (or press **Enter**).




TIP: typing the first letter of the tonic pitch will select the first candidate in the drop-down list box that matches. Typing the first letter repeatedly will cycle through the available matches. For example, typing 'f' will select **Fb**, **F**, and **F#** sequentially.

IX. Key Signatures

There are two exercise styles which require the selection or creation of key signatures.

When you *select* a key signature, you indicate the number of sharps or flats you require. An exercise requiring this action will use the Notation Pane color bar as a double-clickable button, with this text:



Double-click here to create the signature



Figure 25: Select Key Signature Dialog Box

Use the *Number of accidentals* slider control to select the number of accidentals, from 0 to 7, that the key signature will have.

Use the *Type of accidentals* radio buttons to select whether the key signature is composed of flats or sharps.

The text under the *Number of accidentals* slider control will change to reflect both the number and type of accidentals in the key signature.

When you have selected the key signature, click OK (or press **Enter**.)



TIP: when the *Number of accidentals* slider control is selected (it has a light gray rectangle around it) you may move the slider control with the left and right arrow keys.



TIP: the tab control allows you to select the dialog box controls in turn.

Creating Key Signatures

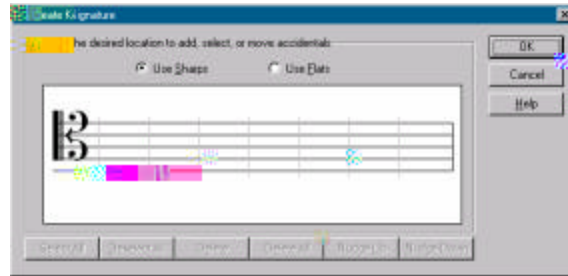
When asked to create a key signature, use the **Create Key Signature** command.

The **Create Key Signature** command can be accessed by any of the following techniques:

- Double-click on the Notation Pane color bar.
- Press **Ctrl+E**.

- Select **Create Key Signature** from the Scale Menu.
- Right-click in the Notation Pane and select **Create Key Signature** from the Context Menu.

This command produces the Create Key Signature Dialog Box.



- If the column contains an accidental and the mouse click is directly on that accidental, the accidental will be selected—it will turn red. (If the accidental is already selected, then clicking on it will deselect it.)

Command Buttons

The command buttons are enabled and disabled according to conditions in the Working Area.

Select All

The Select All button selects all accidentals in the working area. It is not enabled if the Working Area is empty.

Deselect All

The Deselect All button deselects all accidentals in the Working Area. It is not enabled if the Working Area is empty, or if none of the accidentals have been selected.

Delete

The Delete button will result in the deletion of any selected accidental. It is enabled only if there is at least one selected accidental in the Working Area.

Delete All

The Delete All button results in the deletion of all accidentals in the Working Area. It is enabled if there is at least one accidental present. Selection or non-selection of accidentals has no bearing on this button.

Nudge Up

The Nudge Up button will move any selected accidental(s) upwards by one line or space. It is enabled if there is at least one selected accidental in the Working Area.

Nudge Down

The Nudge Down button will move any selected accidental(s) downwards by one line or space. It is enabled if there is at least one selected accidental in the Working Area.

Confirming Your Work and Exiting

When you have created a key signature and are satisfied that it is correct, click the OK button (or press **Enter**.)

If the Dialog Box Will Not Close

You may see the following message when you attempt to exit the Create Key Signature dialog box:



Figure 27: Invalid Key Signature Dialog Box

This means that your key signature wasn't a valid one. *Your key signature must be valid or else the dialog box will not close.*

A key signature can be invalid for a number of reasons, including:

- Accidentals placed on the incorrect line or space.
- Skipping one of the columns—accidentals must be adjacent to one another.

Kapelle Scales follows the guidelines set forth in *Music Notation, Second Edition*, by Gardner Read (Boston: Crescendo Publishers, 1969) for the proper placement of accidentals within a key signature.

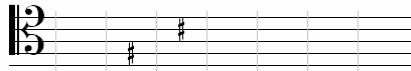
Here are some examples of invalid key signatures, with the reasons they are invalid:

Signature



Why Invalid

The F# should be positioned on the 2nd line of the staff, and not the top space.



The first column has been skipped.



This is an unknown key signature (perhaps the bass clef wasn't being observed.)

X. Playing a Scale

Some exercise styles require you to play a scale on an attached MIDI keyboard.



Figure 28: The Scale Playback Dialog

A horizontal row of *Degree Buttons* show you the following information:

- Which scale degree is currently selected (is the target for the next note you play, in other words.) The selected scale degree is drawn in RED.
- Whether you have played a note already for that scale degree, or whether it has not yet been played. A “filled” scale degree is drawn in WHITE. An “empty” scale degree is GRAY.



NOTE: the numbers in the degree buttons are important. It is perfectly possible for a scale-playing task to specify that you start on a scale degree other than 1, and end on a scale degree other than 1. The numbers in the degree buttons will have been set to match the exercise requirements.

Playing the Scale

Playing the scale is simple enough: simply play the notes on the MIDI instrument and you will see the selected scale degree move one step ahead for every note you play. Once you reach the last note, the selected scale degree will loop around to rest once again at the first note.

Don't worry about which octave to use: Kapelle Scales will make the necessary adjustments once you've finished. *But don't go leaping around.*

Selecting a Scale Degree to Play

If you want to play a note for a specific scale degree, simply click on the scale degree button and it will become selected. Then play the note. (The selected scale degree will then move one step ahead.)

Playing Your Input

After you have played the scale, you may want to audit your performance. To do this, click on the **Play My Input** button and the scale will be played. You may stop the playback before the end of the scale is reached with the **Stop Play** button.



NOTE: the **Play My Input** button is not enabled until every scale degree contains a MIDI pitch—there must be no degree buttons in GRAY.

Confirming Your Input and Exiting

Once you are satisfied that you have performed the scale properly, click the OK button. Kapelle Scales will *then* notate the scale you have just played and will evaluate your work.


Octave Considerations in Scale Playback

You may play the scale in any octave you wish. Kapelle Scales will ensure that the octave in which the scale is notated (and thus evaluated) lies properly within the confines of the clef.

XI. Progress Reports

Accessing Your Progress Report

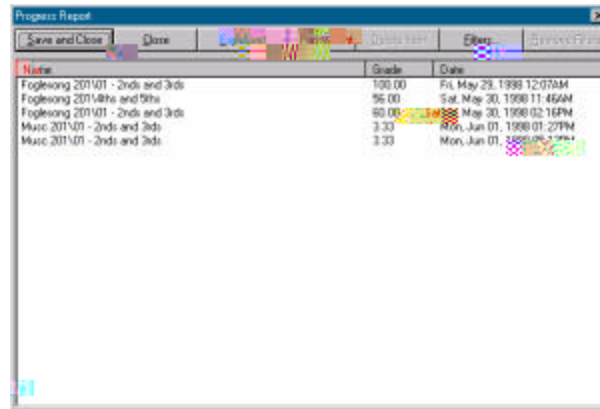
To access your progress report, use the **Show Progress Report** command. You may access this command by any of the following techniques:

- Press **Ctrl+P**.
- Select **Show Progress Report** from the File Menu.
- Click the **Show Progress Report** icon  on the Toolbar.

The Contents of Your Progress Report

A progress report is a special file created for you automatically by Kapelle Scales the first time you used the application. It contains a

Understanding the Progress Report Window



The screenshot shows a window titled "Progress Report" with a menu bar containing "Save and Close", "Close", "Print", "Filter", and "Refresh". Below the menu bar is a table with three columns: "Name", "Grade", and "Date". The table contains five rows of data:

Name	Grade	Date
Fuglesong 201101 - 2nds and 3rds	100.00	Fri, May 29, 1998 12:07AM
Fuglesong 201101 - 2nds and 3rds	96.00	Sat, May 30, 1998 11:46AM
Fuglesong 201101 - 2nds and 3rds	60.00	Sat, May 30, 1998 02:16PM
Music 201101 - 2nds and 3rds	3.33	Mon, Jun 01, 1998 01:27PM
Music 201101 - 2nds and 3rds	3.33	Mon, Jun 01, 1998 01:27PM

Figure 29: The Progress Report Window

The main area of the progress report window is devoted to a list box which displays each entry in the progress report. Each entry represents a single exercise, and each entry contains the following fields:

Figure 30: Sorting Entries by Date

Selecting Entries

To select an entry, click on the Name field for that entry:



Name	Grade	Date
Foglesong 2011/01 - 2ndz and 3rdz	100.00	Fri, May 29, 1998 12:07AM
Foglesong 2011/4thz and 5thz	56.00	Sat, May 30, 1998 11:46AM
Foglesong 2011/01 - 2ndz and 3rdz	60.00	Sat, May 30, 1998 02:16PM
Muzz: 2011/01 - 2ndz and 3rdz	3.33	Mon, Jun 01, 1998 01:27PM
Muzz: 2011/01 - 2ndz and 3rdz	3.33	Mon, Jun 01, 1998 05:13PM

Figure 32



NOTE: the item will not be permanently deleted unless you click on the “Save/Close” button, which saves the changes you have made in your progress report. If you click on the “Close” button instead, you will be given the option to close your report without saving changes.

Filtering Entries

You may filter the entries in the progress window—that is, include only those entries which you want to see. This feature can be very useful if you are printing a progress report since reports can grow very long quickly. You may filter by Date, by Exercise, or by Grade.

Note that filtering does not remove the items from your Progress Report: it determines how they are displayed and printed only; the contents of the actual file remain unchanged.

To reach the filters, click on the “Filter” button:



Figure 35: Location of the Progress Report Buttons

You will be presented with the Filters property sheet, which is a “tabbed” dialog box—each tab controls one specific filter. Go to each property page by clicking on its tab:

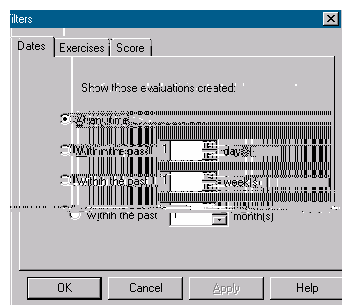


Figure 36: The Filters Property Sheet

Filter by Date

You may filter entries to those occurring within a specific time frame, measured from the present:

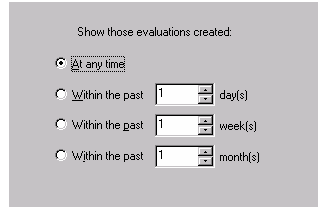


Figure 37: Filter by Date Property Page

To select an option, click on the radio button that selects that filter, and then select a range of options. In this illustration, only those exercises which have been done within the last 3 days will be displayed:

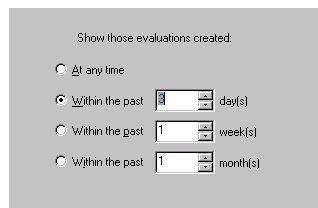


Figure 38: A Sample Filter

Date filters operate up to a year in the past—you may show those entries created up the last 365 days, or the last 52 weeks, or the last 12 months.

Filter by Exercise

You may restrict the display to only those exercises you choose:

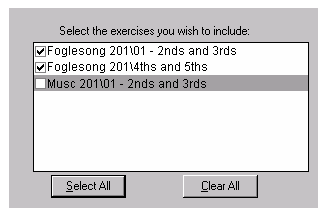


Figure 39: Filter by Exercises Property Page

Select exercises to be displayed by clicking on the check box to the left of the exercise. Checked exercises are displayed, unchecked ones are not. Note that you may select or deselect all of the items quickly by using the **Select All** and **Clear All** buttons.

Filter by Grade

Finally, you may restrict your display to just those exercises that fall within a range of scores:

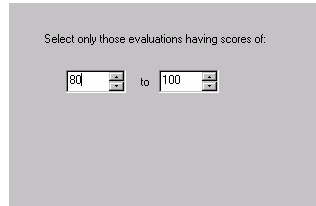


Figure 40: The Filter by Score Property Page

Removing Filters

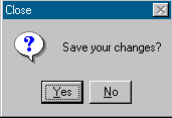
If you have filtered your progress report, you may remove the

NOTE: Kapelle Scales uses WordPad, which is installed automatically along with Windows, for printing. If WordPad is not installed, an error message will result and you will not be able to print.

Exporting Your Progress Report

You may export your progress report to a plain-text, tab-delimited file, suitable for importing into a spreadsheet or database application.

To export your progress report, click on the "Export" button. Youj 38.25 0 e1 Tw 6



XII. Saving and Restoring Your Place

You might need to pause for a while when working through an exercise and come back to it later. For that purpose, Kapelle Scales allows you to save and restore your place in an exercise.

Saving Your Place in an Exercise

To save your place in an exercise, select **Save Your Place...** from the File Menu.

An information box will tell you what you are about to do:



Figure 46: Save Your Place Information Dialog

The critical information here is that the current exercise will be removed once you have saved your place—in other words, you cannot save your place and just continue working on the exercise.

Click **Yes** (or press **Enter**) to confirm this action, or **No** if you would rather not.

Restoring Your Place in an Exercise

If you have saved your place in any exercises previously, the **Return to Your Place...** command on the File Menu will be enabled.

To return to your place in a previous exercise, give this command. The following informative dialog box will be presented:



Figure 47: Return to Your Place Information Dialog

The critical issue here is that the current exercise will be closed if you restore a previous exercise. Click **Yes** if this is all right with you, or **No** if you would rather not restore an exercise right now.

If you have saved your placed in only *one* exercise previously, the restoration will happen immediately upon clicking **Yes**.

However, if there are multiple saved exercises available, Kapelle Scales will present you with a list from which you can choose:

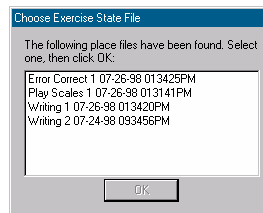


Figure 48: Choose Exercise State File Dialog Box

The name of the “Exercise State File” reflects the following information:

- The name of the exercise.
- The date on which you saved your place in this exercise.
- The time at which you saved your place in this exercise. (The time format is hhmmssAM/PM—so it might be a bit tricky to read).

Select the exercise you wish to restore, and click **OK**.



NOTE: you can restore your place in an exercise only once. Once it has been restored, the exercise state file that contained the information is automatically deleted. You may, of course, save your place again.



NOTE: the “restored” exercise may not contain precisely the same scales as the one you saved. The actual notation material itself is not saved when you save your place—just the information about where you were in a particular exercise, the exercise to create, and your scores. Restoring your place generates a new exercise from the same template as previously, and sets up your place and scores in the exercise to match that when you saved your place.

XIII. Adjusting MIDI Settings

The MIDI Settings Dialog Box

Kapelle Scales's MIDI Settings are all reached via the MIDI Settings dialog box. Use th

Setting Output Channels

The MIDI Output Channel determines which of the standard 16 MIDI channels Kapelle Intervals uses for MIDI output. Kapelle Scales's playback is always through one single MIDI channel. Use the Channel slider to select a value between 1 and 16:



Figure 51: MIDI Output Channel selector

Setting Output Programs

Kapelle Scales will set your MIDI device to play using any one of its available programs, from 1 through 256. You may use the slider to set the program, or you may select the output by name.



Figure 53: Select Program dialog box

Select an instrument from the Instrument drop down list, then select a program from the list of available programs by clicking on the program name and then clicking on the OK button (or double-click on the program's name).

Setting MIDI Thru

The MIDI Thru setting is automatic in Kapelle Scales, since MIDI Input (and hence MIDI Thru) is enabled only for a few exercise

styles. MIDI Thru is taken in at the Input channel, and out at the playback channel—there is no other setting possible. (Both the MIDI Thru button and channel sliders are disabled.)


XIV. Playback

In a number of exercise styles scales are played. In other styles, you may wish to play the scale that you have notated (or played).

Playing a Scale

To play a scale, use the **Play Scale** command on the Playback Menu.


The **Play Scale** command can be accessed by any of the following techniques:

- Press the **Spacebar**.
- Select **Play Scale** from the Playback Menu.
- Click the **Play Scale** icon  on the Toolbar.
- Right-click in the Notation Pane and select **Play Scale** from the Context Menu.

Playing Your Notated Scale

After a scale has been evaluated, you may wish to play your version of the scale to make an aural comparison with the “correct” scale. To do this, use the **Play My Scale** command.

The **Play My Scale** command may be accessed by any of the following techniques:

- Press **Ctrl+Spacebar**.
- Select **Play My Scale** from the Playback Menu.
- Click the **Play My Scale** icon  on the Toolbar.

XV. Setting Colors

You may select many of the colors used for the interface in Kapelle Scales.

Parts of the Interface With User-Selected Color

You may set the color for the following interface elements:

- User Area Background: the background color for the Notation Pane.
- User Area Text: the color of the text in the Notation Pane color bar.
- User Area Color Bands: the color of the Notation Pane color bar.
- User Area Notation: the color of the music notation in the Notation Pane.
- Source Area Background: the background color for the Source Pane.
- Source Area Text: the color of the text in the Source Pane color bar.
- Source Area Color Bands: the color of the Source Pane color bar.
- Source Area Notation: the color of the music notation in the Source Pane.
- Background: the color of the Main Window background (all areas not filled by a pane.)

Accessing the Colors Command

To set the interface colors, use the **Colors...** command, located on

the View Menu. This command displays the Colors Dialog Box.

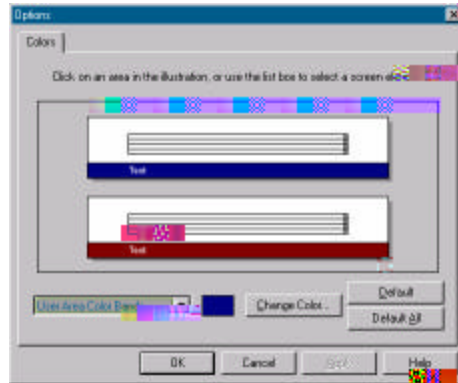


Figure 55: Colors Dialog Box

Using the Colors Dialog Box

Selecting an Interface Element

You may select an interface element by either:

- Selecting the element from the drop-down list, then clicking the **Change Color** button.
- Clicking on the element in the display area. Double-clicking will both select the element and click the **Change Color** button automatically.

Changing the Color

Select the color you want from the pre-selected list of colors, or create a custom color using the color dialog.

Setting a Single Element to Default

If you wish to set an interface element back to its default color:

- Select the element from the drop-down list (or click on it in the display), then click the **Default** button.

Setting All Elements to Default

If you wish to set all interface elements back to their defaults, click

on the **Default All** button.

XVI. About the Scales.kpl File

The file Scales.kpl is a Kapelle-format file which must be present in Kapelle Scales's application directory for the program to operate.

Scales.kpl contains a music notation document which specifies the scales known to Kapelle Scales together with their names.

The format of the files is as follows:

- One measure lists the ascending form of the scale, notated upwards from middle 'c'.
- The next measure lists the descending form of the scale, notated downwards from 'c' on the third space of the treble clef.

The measure containing the ascending form of the scale contains one TextBlock object which gives the mode's name in two forms: a long form used in the Kapelle Scales program, and a short form which is used in exercise template files to specify the use of that mode. *The names are case-specific, and therefore 'M' is different from 'm'.* The colon character (:) is used to separate the two.

For example, the Dorian mode is listed as "Dorian:do".

At shipment, Scales.kpl contains the following scales:

Full Name	Abbreviated Name
Major	M
Natural Minor	nm
Harmonic Minor	hm
Melodic Minor	mm
Ionian	io
Dorian	do
Phrygian	ph
Lydian	ly
Mixolydian	mx
Aeolian	ao
Locrian	lo
Super Locrian	sl

Neapolitan Minor
Neapolitan Major

pm
pM 1678

using the format [LongForm]: [ShortForm]. For example, Roumanian Minor would be "Roumanian Minor:rm"

Observe the following precautions when naming modes:

- Do not use names which have already been used: carefully check through the list, especially checking the short forms.
- Retain the use of 'm' for minor and 'M' for major in short forms.
- Retain the use of numbers for non-seven-tone scales (thus 5 for pentatonic, 6 for hexatonic, and so forth.)

Be sure to give the mode the appropriate names! If you do not name the mode properly, it will be listed as "Unknown Scale" when it is loaded in by the application.

Before adding any new modes to Scales.kpl, it is strongly recommended that you open the file using Kapelle and study its organization and nomenclature style.

For MIDI Input, Kapelle Scales requires a MIDI instrument of some sort connected to the computer, via either the sound card or a separate MIDI interface card. Most modern sound cards provided a MIDI input/output port as part of the external joystick connection; MIDI cables can be attached to this via an inexpensive cable converter.

XVIII. Technical Information

Kapelle Scales is written in the C++ programming language, using Microsoft Visual C++.

The application is written using the *Microsoft Foundation Classes* (MFC) library.

Kapelle Scales is linked to the *Apollo* music notation library, by the same author, which provides it with its music notation and playback capabilities.

Exercise Template Files

Exercise template files have the extension "ksi" and consist of single lines of text. Each line begins with a *keyword*, followed by an equals sign, and then the appropriate information for that keyword.

The structure of the keywords and their possible values is as follows:

Keyword	Meaning	Values
style	The actual style for the exercise. The value must be ONE of the possibilities.	writeDegree, writeStartNote, addAccs, addSig, idSightKeySig, idSightAccs, singleDegree, idEarKey, idEarModeOnly, errorCorrect, playScaleKey, playScaleStartNote
keySig	Whether or not to use a key signature when drawing a scale.	TRUE/FALSE
selKeySig	Whether or not for the user to select a key signature from a list of possibilities.	TRUE/FALSE
createKeySig	Whether or not for the user to create a key signature from scratch.	TRUE/FALSE
clefs	A list of clefs to use with the exercise. May be any or all of the value list.	treble, soprano, mezzo, alto, tenor, baritoneC,

		baritoneF, bass
degreeBounds	The first number indicates the starting scale degree, and the second number the ending scale degree. Numbers must be 1 through the highest possible scale degree. As many pairs may be specified as desired.	a:b, c:d, e:f...y:z
ascend	Whether or not to use ascending scales.	TRUE/FALSE
descend	Whether or not to use descending scales.	TRUE/FALSE
degreesSingle	The specified degrees which are used in 'singleDegree' style. The degree must be within the scale—1 through the highest possible scale degree.	1,2,3,4,5,6,7...n
numErrorsPerScale	The number of errors which may be added to a scale in errorCorrect style. If the number is preceded by *, then the scale MUST contain that many errors. The number is from 1 to the maximum number of notes in the scale.	1 thro. a:b:000 the num 0arCorrecdegree is precar

DefaultPath.txt File

The file DefaultPath.txt must be present in the application directory if the set of exercise template files is located elsewhere than in the application directory.

The file contains one line of text, which is the full path to the top directory where the exercise template files are to be found.

Executable Program Size and Memory Requirements

The Kapelle Scales executable is self-contained and requires no external DLLs. It is 829KB in size.

The program's memory requirements vary during operation, but the average memory requirement is between 3.5MB and 4.0MB.

Error Reporting

Kapelle Scales contains a very robust error-reporting mechanism that should help to protect the user against any foreseeable problems.

The application responds to error conditions in three different modes of severity:

- In the least severe mode, the error is written to a file ErrorLog.log in the application directory. The entry contains the date and time of the posting, an error ID number, and the name of the error. The error is not reported to the user given that it should not impact significantly on the program operation from the user's point of view.
- In the next highest mode, the error is reported to the user in addition to being written to the log. The user is warned that this error might impact on the program's operation.

