

# Hendrix

## *The Chords Generator*

A program written by guitarists for guitarists

### **Overview**

Hendrix Overview

### **Functions**

Description of Hendrix functions

### **Video**

Description of the objects in the screen

### **Menu**

Description of menus

### **Keyboard**

Access to the program through the keyboard (Hot Keys)

### **Glossary**

Used terms

# Hendrix Overview

This program, developed by guitarists for other guitarists, allows everybody to make a series of operations that normal guitar handbooks can not allow: for instance the possibility to represent **all theoretical chords positions**.

It contains powerful elaboration and search tools that allow to generate all the positions referred to the stated performing parameters.

Hendrix was conceived as a very interactive tool, that is able to adapt, to all objects present in the screen, all changes operated.

Considering that the program will be executed together with a guitar, we have tried to find the easiest and faster way of getting results.

All functions can be carried out by the mouse, the menu and the keyboard.

Obviously, in the age of multimedias, this kind of program gives the opportunity to recreate the sound of everything represented in graphical and musical ways.

## **Most remarkable available functions in Hendrix:**

- Choose the chord type from a list of standard chords.
- Set the chord type by working directly on the musical intervals.
- Set the fret band to develop all chords positions.
- Practically modify positions on the chord fretboard window.
- Attributes possible chords naming to positions entered by user.
- Point out most suitable fingering position.
- Choose from the summary page (map) the chord position to work with.
- Develop chords position on a variable number of strings, with a minimum of three ones.
- Set the guitar tuning, by choosing among a lot of "open" tunings or to set a custom tuning.
- Show chords position and scales on piano keyboard.
- Read chords positions from chords and scales in musical notes.
- Set MIDI parameters for sound performance.
- Listen to, by the MIDI card, the chord position and the selected scale.
- Play single notes that form chords and scales on the guitar, on the staff and on the piano.
- Define the tonal context by choosing a scale among the ones including all set chord.

- Set different filters for searching a scale among the ones containing the set chord.
- Save chord sequences with all relevant contexts (tuning, number of strings, chord type, fret number, position number, ...).
- Save chords sequence in Midi File format.
- Change chord and scale performance parameters by choosing among a great number of musical rhythms.
- Use the mouse to open single chords saved in the sequences.
- Listen to chord sequences in different ways: arpeggio, rhythmic accompaniment....

***Thanks for trying Hendrix, we hope you will find it useful !!***

***The authors***

***Paolo Piga & Paolo Mereu***



# Menu

## File

Load

Open a chord sequence

Save

Save a chord sequence

Exit

Quit the program

## Tuning

Standard

Restore standard tuning

Custom Tunings

Setting program defined and user tunings

## Scale

Scales List

Choose scales among the ones containing Chord

Play Guitar Scale

Setting scale performing parameters showed on the guitar

Play Score Scale

Setting scale performing parameters showed on the five-line  
stave

## Chord

Standard chord

Choose the chord from a list of stated chords

Positions map

Shows all chords positions on the chosen button

Play chord

Setting chord performing parameters

Search

Setting search parameters of a chord position

Interpretations

Choose a chord interpretation name

The Circle of fifths

Access to modify the chord in the circle of the fifth

## Photographs

Play Photographs

Setting chord sequences performing parameters

Memorize Chord Position

Save the current chord-set in a frame

Erase Empty Frames

Ziping the film by the elimination of empty frames

Erase Photo

Procedure description

Erase all...

Remove film content

## Options

12 Strings Sound

Activate 12 strings sound option

MIDI Setting

Set MIDI parameters

Default

Restore program at the default conditions

Undo

Delete the last change

## Help

Summary

HELP references

Help Labels

Enable help yellow labels

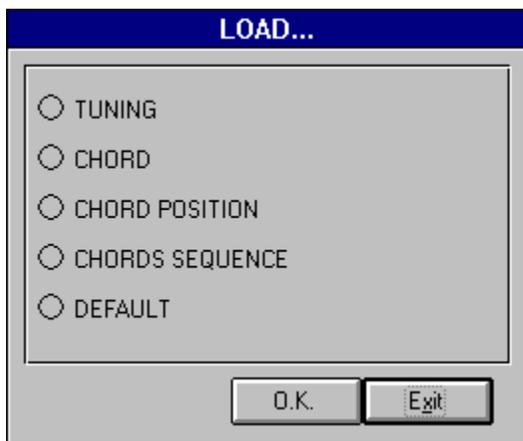
About Hendrix

Hendrix Informations

## Menu File

### Load

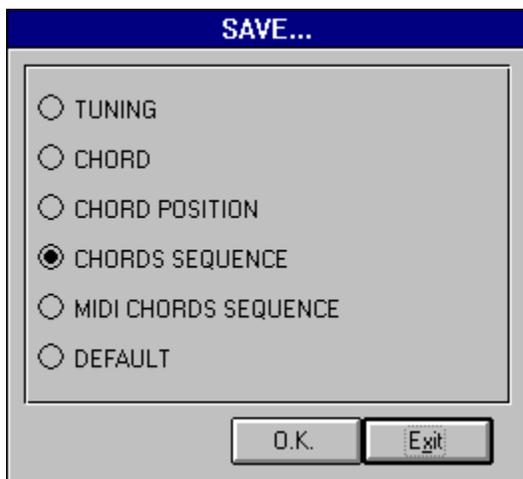
When this voice is selected you open a dialog box that allows you to choose the subject you want to load on memory.



## Menu File

### Save

When this voice is selected, you open a dialog box that allows you to choose the subject you want to save on disk.



## Menu File

### Exit

When you select this voice you quit the program **HENDRIX**.

## Menu Tuning

### Standard

When you select this voice from the menu you can restore the guitar standard tuning.

If the tuning is the standard one, the voice of the menu is disabled.

**See: Tuning**

## Menu Tuning

### Custom Tunings

When you select this voice, you open a dialog box that allows you to choose one of the program defined tunings or to set one of your owns.

**See: Tuning**

## Menu Scale

### Scales List

When you select this voice, you open a dialog box that allows you to choose one of the scales, compatible with the current chord.

**See: Scale**

## Menu Scale

### Play Guitar Scale

When you select this voice you open a dialog box that allows you to set all parameters related to the scale music performance shown on the guitar keyboard.

**See: Play Guitar Scale**

## Menu Scale

### Play Score Scale

When you select this voice, you open a dialog box that allows you to set all parameters related to the scale music performance, shown on stave.

**See: Play Score Scale**

## Menu Chord

### Standard Chords

When you select this voice you open a dialog box that allows you to choose among different types of chords.

**See: Chord Setting**

## Menu Chord

### Positions Map

When you select this voice, you open a window that shows all current chord positions, availables on the current fretboard section.

When you select a position, you'll be able to process it by clicking the mouse button.

**See: [Button Map](#)**

## Menu Chord

### Play Chord

When you select this voice, you open a dialog box that allows you to set all parameters related to the current chord music performance.

**See:** [Play Chord Position](#)

## Menu Chord

### Search Chord

When you select this voice you open a dialog box that allows you to set all search parameters of a current chord position.

**See: Search Chord Position**

## **Menu Chord**

### **Chord Name Interpretation**

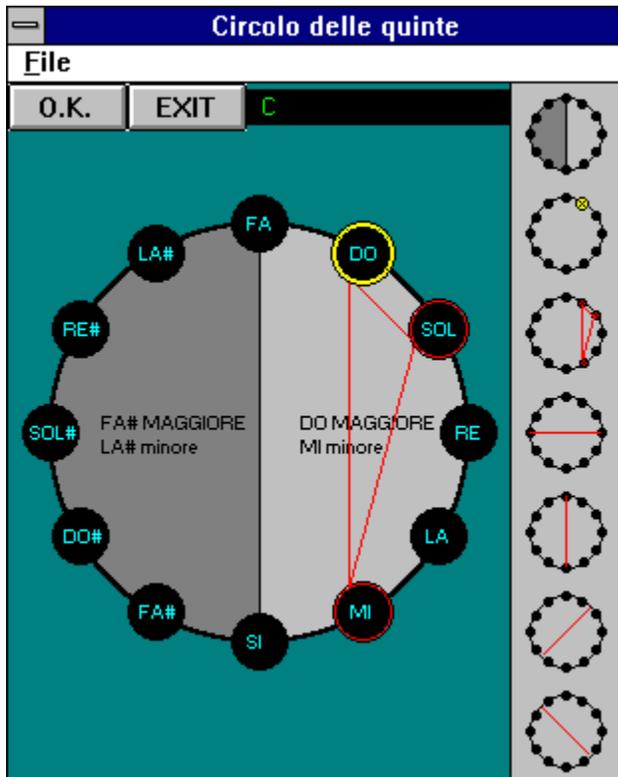
When you select this voice you open a dialog box that allows you to choose among one of the possible current chord interpretation name, taking each time as a chord root note all notes belonging to it.

**See:** **Chord Name Interpretation**

## Menu Chord

### The Circle Of The Fifths

When you select this voice, you open a window that allows you to set graphically the chord represented in the circle of the fifth.



The chord is represented by a delimited side of lines that links notes belonging to it. The chord is translated with a signature tune in the display.

When you click the left mouse button on a note, the note itself is enclosed in chord composition. If the notes already exists in the chord it is eliminated. A note is played by clicking the right mouse button.

All tools available in the extreme right of the window allow to change the chord and its context.

You can use the tools by clicking the left mouse button to decrease and the right mouse button to increase their parameters

The first tool at the top allows you to change the reference tonal context. The tonality is put in evidence in the circle of the fifth both with the name of major scale and its related minor one and with the different colour that graphically separates the circle of the fifth into two opposite semicircles. The change is shown with a rotary movement that causes an ascending and a descending gap.

The second tool allows you to change the reference root chord note. It makes "rotate" it among all notes included in the chord

The third tool allows you to lift the chord. It makes "rotate" it of about an upper or lower fifth

The remaining of the tools allow a chord transposition depending on a mirror-like movement

suggested by the dividing line present in the single tools icon.

When you click the left mouse button on each of any area of the window, the chord, represented in the circle of the fifth, is played.

The O.K and EXIT buttons allow you to confirm and cancel all modifies made in the chord.

## Menu Photographs

### Play Photographs

When you select this voice, you open a dialog box that allows you to set all parameters related to the saved chord sequence music performance.

The chord sequence is represented by a photographic film shown on the bottom of the window.

If the film does not contain any chord, this menu voice is disabled.

**See: Play Photographs**

## Menu Photographs

### Memorize Chord Position

When you select this voice from the menu, you save the chord current position in a memory area that may contain a 25 chords sequence.

The buffer is represented by a photographic film; if these frames are exposed, they will contain the miniature chord position.

Besides the chord position all parameters necessary to the performance are saved (tuning, fret number, strings number).

The film is automatically set on the next free frame.

The chord sequence, previously saved in the buffer, can be saved on disk by choosing the option **Save** from the menu **File**.

A chord sequence previously saved can be loaded in the disk by choosing the option **Load** in the menu File.

**See: Photographs**

## Menu Photographs

### Erase Empty Frames

When you select this voice from the menu, you have the possibility to remove all empty frames resulting from the elimination of sequence chords. In this way you will obtain a zipped film.

If the frame does not contain any chord this voice of the menu will be disabled.

**See:** [Photographs](#)

## Menu Photographs

### Erase Photo

When you select this voice from the menu you have the procedure description to remove a frame.

To remove a frame you have to put the mouse arrow on the frame you want to cancel and to click the right button.

If the film does not contain any chord, this voice of the menu will be disabled.

**See: Photographs**

## Menu Photographs

### Erase All

When you select this voice from the menu, you erase all film content.

This procedure is preceded by a message asking to confirm erase operation.

If the film does not contain any chords, this voice of the menu will be disabled.

**See: Photographs**

## Menu Options

### 12 Strings Sound

When you select this voice from the menu, you open a dialog box that allows you to open the 12 strings sound, by setting the additional strings tuning.



## Menu Options

### MIDI Setting

When you select this voice from the menu, you open a dialog box that allows you to set the parameters of the MIDI device installed.

**See: MIDI**

## **Menu Options**

### **Default**

When you select this voice from the menu, you can set the program with the default parameters (tuning, number of strings, chord type, fret, ...).

## Menu Options

### Undo

When you select this voice from the menu, you return to the program condition that precedes the last confirm done by clicking the button 

This voice of the menu, is available only if you have set the program in a way that allows the button to blink. , otherwise the voice is disabled.

## Menu Help

### Summary

Shows help for using Hendrix program ... **the one you are now playing.**

## Menu Help

### Help Labels

Shows a short definition of commands present on screen, simply putting on the mouse cursor and waiting a little bit.

When this function is active the voice of the menu is preceded by a tick.

## **Menu Help**

### **About Hendrix**

Shows all informations about Hendrix.



# Keyboard

Access to the program functions through the computer keyboard

Key	Menu Voice/Button	Action
<b>Alt+F</b>	<b>File</b>	Open menu File
<b>L</b>	<b>Load...</b>	Load file...
<b>S</b>	<b>Save...</b>	Save file...
<b>E</b>	<b>Exit ...</b>	Exit from Hendrix
<b>Alt+T</b>	<b>Tuning</b>	Open menu Tuning
<b>S</b>	<b>Standard</b>	Restore standard tuning
<b>C</b>	<b>Custom ...</b>	Access to the dialog box Tuning
<b>Alt+S</b>	<b>Scale</b>	Open Menu Scale
<b>S</b>	<b>Scales List ...</b>	Access to the dialog box Scale
<b>P</b>	<b>Play Guitar Scale ...</b>	Access to the dialog box Play guitar scale
<b>L</b>	<b>Play Score Scale ...</b>	Access to the dialog box Play Score scale
<b>Alt+C</b>	<b>Chord</b>	Open Menu Chord
<b>C</b>	<b>Standard Chord ...</b>	Access to the dialog box CHORD
<b>M</b>	<b>Positions Map</b>	Open summary Window of the Chord Positions
<b>P</b>	<b>Play Chord ...</b>	Access to the dialog box Play Chord
<b>S</b>	<b>Search ...</b>	Access to the dialog box Search
<b>I</b>	<b>Interpretations...</b>	Access to the dialog box Chord Performances
<b>F</b>	<b>The Circle Of Fifths ...</b>	Open the circle of the fifth window
<b>Alt+P</b>	<b>Photos</b>	Open Menu Photos
<b>P</b>	<b>Play Photo...</b>	Access to the dialog box Play Photos
<b>M</b>	<b>Memorize Chord Position</b>	Save Chord-set and current position
<b>F</b>	<b>Erase Empty Frames</b>	Ziping film
<b>E</b>	<b>Erase Photo</b>	Procedure description
<b>A</b>	<b>Erase All ...</b>	Erase film contents
<b>Alt+O</b>	<b>Options</b>	Menu Options
<b>S</b>	<b>12 Strings Sound ...</b>	Access to the dialog box 12 Chord sound
<b>M</b>	<b>MIDI Setting ...</b>	Access to the dialog box MIDI
<b>D</b>	<b>Default</b>	Restore Program to the default conditions
<b>U</b>	<b>Undo</b>	Cancel last Change
<b>Alt+H</b>	<b>Help</b>	Menu Help
<b>S</b>	<b>Summary</b>	Consulting HELP
<b>L</b>	<b>Help Labels</b>	Shows a short help about program objects
<b>H</b>	<b>About Hendrix ...</b>	About Hendrix informations
<b>c</b>		Access to the dialog box CHORD
<b>t</b>		Access to the dialog box TUNING
<b>d</b>		Access to the dialog box MIDI

I		Musical performance of the guitar scale
Shift+I		Access to the dialog box PLAY GUITAR SCALE
m		Open MAP window
p		Musical performance of the guitar chord
Shift+p		Access to the dialog box PLAY GUITAR CHORD
r		Carring out chord search
Shift+r		Access to the dialog box SEARCH
s		Access to the dialog box SCALE
y		Musical performance of the chord sequence
Shift+y		Access to the dialog box Play Chord Sequences
Arrow <-		Previous position
Arrow ->		Next position
Up Arrow		Previous Scale
Down Arrow		Next Scale
-		Decrease fret
+		Increase fret
		
1		Change root
3		Change The Third
5		Change The Fifth Chord
7		Change The Seventh
9		Change The Ninth
4		Change The forth/eleventh
6		Change The Sixth/thirteen

?



Access to the dialog box Chord Interpretation

**Enter**



Confirm Changes

# Video

## Tuning Display



## Set Tuning Button



## Set Chord Button



## Chord Display



## Search Chord Button



## Map Button



## Modify Chord Position Button



## X Button



## X Reset Button



## Fret Number Display



## Play Chord Button



## Decrease/Increase Position number Button



## Chord Position Display



## Play Guitar Scale Button



Display Scale Button



Decrease/Increase Scale Button



OK Button



# (Sharp) and b (Flat) Buttons



Chord Intervals Buttons



Chord Name Interpretation Button



Repeated Notes Button



Scale Octave Display



Scale Speed Display



Ascending Scale Button



Descending Scale Button



Play Five-line stave Scale Button



MIDI Button



MIDI channel Display



MIDI Program Change Display



Metronomo Button



Memorize Chord Position Button



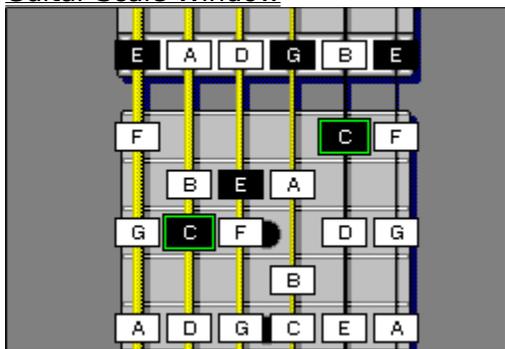
Chord Photograph Window



Play Photograph Button



Guitar Scale Window



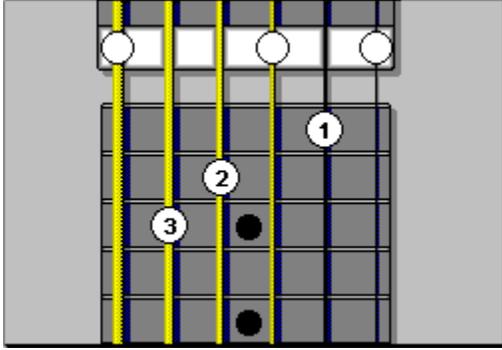
Five-line stave Scale Window



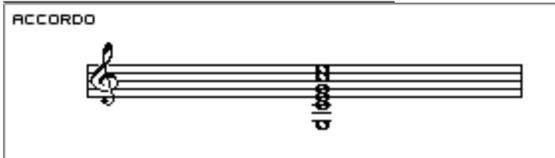
Piano Keyboard Window



Guitar Chord Window



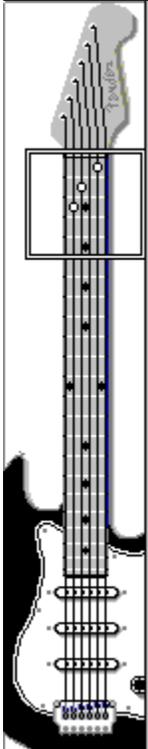
Five-line stave Chord Window



Piano Chord Window



Guitar Fret Window



## Tuning Display



This display contains the current tuning name and all notes belonging to it

**See:** Tuning

## Chord Display



It shows the current chord name.

First letter identify the chord root, possibly altered by an accidental mark.

If the chord is major, the 3rd is not declared, whereas if the chord is minor the display of the basic chord is followed by the little letter **m** .

If the chord contains a perfect 5th interval, the 5th is not declared, whereas if the 5th is diminished or augmented it is declared by the number 5 followed by a necessary alteration.

The declaration follows about other possible intervals present on the chord.

**See:** Setting Chord, Chord Position Modify

## Chord Position Display



The number shown in the display, points the order of current position, inside the position sequences developed on the chosen fret, for current chord.

You can look for the desired position number with the mouse.

You increase the position number by clicking left button, you decrease it by clicking the right button.



. This button blinks when the position number is modified.  
Press the button to confirm the choice.

**See:** [Button Map](#)

## MIDI Channel Display



It is possible to change the MIDI channel number shown in this display, by using the mouse

You decrease the MIDI channel number (1-16) by clicking the left mouse button.  
You increase it by clicking the right button.

The choice has an immediate effect and does not need a confirm.

**See:** MIDI

## MIDI Program Change Display



It is possible to change the program change code shown in this display, by using the mouse.

You decrease the Program change by clicking the left mouse button code (1-128).  
You increase it by clicking the right button.

The choice has an immediate effect and does not need a confirm.

**See:** [MIDI](#)

## Metronomo on/off



With this button you can set the metronomo.

**See:** [MIDI](#)

## Scales List Button

1'	3'	5'	2'	9'	4/11	5/13
C	M	5				

When you press the button SCALE you get the dialog box that allows you to choose one of the scales compatible with the current chord

The display shows the selected scale names for current chord

If you use the mouse in this display, scales scroll on (right button) or back (left button)  
When the search scale appears you can confirm your choice by the blinking button

1'	3'	5'	2'	9'	4/11	5/13
C	M	5				

**See:** Scala

## Repeated Notes

1'	3'	5'	7'	9'	4-11	5-13
C	M	5				

With this button you can set the repeated notes function for the musical performances.

**See:** [Scala Play Chitarra](#), [Scala Play Spartito](#)

## Scale Speed Display

1'	3'	5'	7'	9'	4-11	5-13
C	M	5				

It is possible to change the current scale speed performance shown in this display, by using the mouse

You decrease the performance speed by clicking the left mouse button speed , you increase it by clicking the right button

. The choice has an immediate effect and does not need a confirm

**See:** [Play guitar scale](#), [Play scale score](#)

## Scale Octave Display

1'	3'	5'	7'	9'	4-11	5-13
C	M	5				

It is possible to change the current octave of the scale, shown in this display, both in the musical notation and in the musical performance, by using the mouse.

You decrease the scale octave by clicking the left mouse button, you increase it by clicking the right button (1-128)

The choice has an immediate effect and does not need a confirm.

**See:** [Play scale score](#)

## Fret Display



This display selects a fret where a chord is developed  
The selected fret is shown in romanic numbers

You can get a choice with the mouse:

Left button: previous fret

Right button: next fret



This button blinks when the fret is modified  
Click on this button to confirm fret choice

**See:** [Fret](#)

## Chord Diagram Window

1'	3'	5'	2'	4'	4-11	5-13
C	M	5				

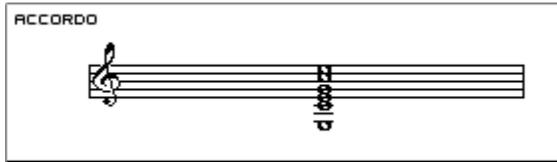
This window shows the selected chord positions

Numbers within circles indicate the suggested fingering, empty circles indicate open strings  
If the position can not be fingered all circles will be empty

It is possible to play single notes belonging to the chord by clicking the mouse on the corresponding note.

**See:** [Setting Chord](#), [Play Chord](#), [Chord Position Modify](#)

## Five-line Stave Chord Window



This window shows the chord position in a musical notation.  
Representation in musical notation is in operation of the current current selected scale

You get the corresponding sounds by clicking on single notes

**See:** [Setting Chord](#), [Chord Name Interpretation](#), [Chord Position Modify](#)

## Piano Chord Window



Keys in a green colour on the piano keyboard represent the transposition of the chord position developed on the guitar finger board.

It is possible to play each piano keys using the mouse.

**See:** [Setting Chord](#), [Chord Name Interpretation](#), [Chord Position Modify](#)

## Chord Photographs Window



Each frame represents a photographed position

It is possible to photograph 25 positions using this button .

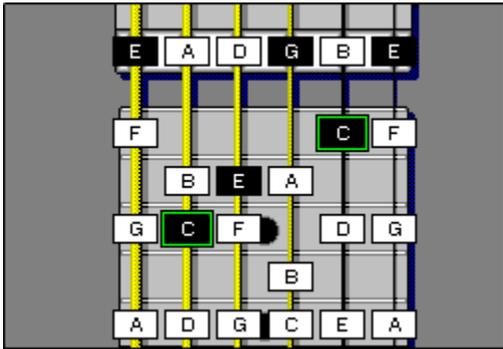
Pointing the mouse cursor on a frame you get an image of the position

When you press the right mouse button on a frame you get the tools that allow to select, to play or to cancel a position

When you press the left mouse button on a frame you select/play/cancel the chord for the chosen instrument

**See:** [Photographs](#)

## Scale Diagram Window



. All available notes of a selected scale will appear in a sector of the fretboard, among the ones that you can use with the chosen chord..

The shadowed rectangles indicate the chord notes in the scale, the green ones indicate the root.

When you click on the notes you'll get the corresponding sounds.

**See:** [Scale](#)

## Scale Five-lines Stave Window

1'	3'	5'	2'	4'	6-11	5-13
C	M	5				

. Scales compatible with the chosen chord will appear in musical notation  
| All characters put at the bottom of the five-line stave, next to some basic notes of the scale, indicate corresponding degrees of the current chord.  
**1**= root, **3M**= the third major...

When you click on the notes, you'll get the corresponding sounds.

**See:** Scale

## Piano Scale Window



. All keys in a yellow colour represent the selected scale notes on the piano keyboard.

It is possible to play each key of the piano keyboard with the mouse.

**See:** Scale

## Set Fret Number Window



When the mouse opens this window its cursor take an upright double arrows shape. By clicking and scrolling up and down the frame along the finger board, you choose a finger board section where it is possible to develop the chosen chord position.

You will automatically get a confirm of the chosen button, when you exit from the window that contains the guitar.

**See:** [Fret](#)

## Set Tuning Button



When you click on this button you get a dialog box that allows you to select one of the available tuning in the list or to set one of your own.

**See:** [Tuning](#)

## Set Chord Button



When you click on this button you get a dialog box that allows you to select one of the program defined chords available in the list.

**See:** [Setting Chord](#)

## Set Chord By Intervals Buttons



You can obtain some chords by a sum of intervals: you can include the perfect corresponding interval or omit it by clicking on these buttons

The root of a chord is an exception because it cannot be omitted

It is possible to change all contents of a dialog box, if you point the mouse cursor on the displays and click the left mouse button to decrease the interval or the right mouse button to increase it.

You have to notice that "sus 4" is considered alternative of the third so it is set by the display as an interval of the third

You can use the computer keyboard instead of the mouse



. This button blinks when a chord interval is changed  
Click on this button to confirm the changed chord

## Sharp and Flat Buttons



You can choose to perform all notes alteration, as sharp or flat, with this switch.

For instance, **C#** (**C sharp**) as **Db** (**D flat**).

## Memorize Chord Position Button



When you click on this button with the left mouse button you can save the current chord in a buffer that can memorize a sequence of 25 chords

The buffer is represented by a film. Its frames, if exposed, contain a very small chord position image.

The film gets on the first free frame when you photograph it.

All parameters that the program needs to process a chord position (tuning, fret number, strings number, position number) are saved.

The chord sequences may be saved in the hard disk by choosing the option "Save" in the File menu

When you click on this button you get a dialog box that allows you to load a chord sequence, previously saved, in the film.

**See:** Photographs

## Play Photograph Button



When you click on this button you get a dialog box that allows you to set the musical performance parameters of a chord sequence in a film.

When you click on this with the left mouse button you will get the musical performance of the chord sequence in the film

**See:** [Photographs](#)

## Chord Name Interpretation Button

1'	3'	5'	2'	9'	4/11	5/13
C	M	5				

When you click on this button you get a dialog box that allows you to choose among all possible chord interpretation

You get a list which contains the names of notes by taking every time as Root each of the notes belonging to the chord

It also indicates the omitted degrees and the ones that can not be classified.

**See:** [Chord Name Interpretation](#)

## Modify Chord Position Button



When you click on this button you get the set chord mode that allows you to define graphically the chosen position, You can draw your position by dragging the notes with the mouse.

Click again the button to exit from this mode



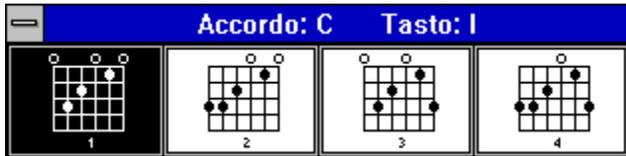
It will be possible to click this button to confirm all changes, if a position is changed and the button blinks

**See:** [Change Position Chord](#)

## Map Button



When you click on this button you get a dialog box that allows you to show all current chord positions that can be referred to the chosen fret .



. When you open this window it is possible to get one of the shown positions by clicking a mouse button or to select the position with the computer arrows keys confirming your choice pressing Enter.

The current position is shown inside the window.

Click a mouse button outside the window to exit from it without making a choice; or press Esc on the computer keyboard.

## MIDI Button



When you click on this button you get a dialog box that allows you to set all MIDI parameters

It is possible to modify some MIDI parameters if an audio card or a MIDI port are regularly installed in Window

**See:** MIDI

## O.K. Button



This button blinks when a change needing a confirm is done

Press OK or Enter to confirm the changes

You have to select UNDO from Options Menu or press Del in the computer keyboard to undo the last change

## Play Chord Button



When you click on this button you get a dialog box that allows you to set the musical performance parameters of the chord positions

When you click on it with the left mouse button you get the musical performance, with all previously defined parameters of the current chord position

The chord will be automatically played each time you change it, if the flag Autoplay is set (Play will appear in a green colour)

It is possible to modify all parameters of the Program Change and the Midi Channel, on the display that is at the top of the piano keyboard

**See:** Play Chord

## Play Guitar Scale Button



When you click on this button with the right mouse button you get a dialog box that allows you to set all scale musical performance parameters

When you click on it with the left mouse button you get the musical performance, with all previously defined parameters of the current scale

The scale will be automatically played each time you change it, if the flag Autoplay is set (Play will appear in a yellow colour)

**See:** [Play Guitar Scale](#)

## Play Five-Line Stave Scale Button



When you click on this button with the right mouse button you get a dialog box that allows you to set all scale musical performance parameters

When you click on it with the left mouse button you get the musical performance, with all previously defined parameters of the current scale

The scale will be automatically played each time you change it, if the flag Autoplay is set (Play will appear in a yellow colour)

**See:** [Play Score Scale](#)

## Find Chord Position Number Buttons



When you click on the left button you decrease the number of the current chord position

When you click on the right button you increase the number of the current chord position



This display shows the number of the chord position

The choice has an immediate effect and does not need a confirm

All chord windows, the five line stave and the piano that can be referred to the guitar are brought up to date

**See:** [Map Button](#)

## Search: Set Filters Button



When you click on this button with the right mouse button you get a dialog box that allows you to set all search parameters of a current chord position

When you click on this button with the left mouse button you search a chord position as the previously set search parameters

**See:** [Search Position Chord](#)

## K Scales List Button



When you click on this button you get a dialog box that allows you to choose a scale among the ones that are compatible with the current chord

**See:** Scale

## Ascending Scale Button



When you click on this button you get a scale musical performance that goes from the lowest note to the highest one.

It is possible to activate this mode at the same time with the descending performance  
It is not possible to disable both choices

**See:** [Play Guitar Scale](#), [Play Score Scale](#)

## Descending Scale Button



When you click on this button you get a scale musical performance that goes from the highest note to the lowest one.

It is possible to activate this modality at the same time with the ascending performance. It is not possible to disable both choices.

**See:** [Play Guitar Scale](#), [Play Score Scale](#)

## Decrease Scale Button

1'	3'	5'	7'	9'	4/11	5/13
C	M	5				

When you click on this button you get the previous scale to the current one among the scales compatible with the current chord

**See:** [Scale](#)

## Increase Scale Button

1'	3'	5'	7'	9'	11'	13'
C	M	5				

Decrease

Increase

When you click on the button at the top you get the previous scale among the ones belonging to the chord

When you click on the button at the bottom you get the following scale among the ones belonging to the chord

**See:** Scale

## Set Strings Number (X) Button



When you press this button the icon will disappear from the button and the mouse cursor will take an **X** shape that allows you to change the string numbers and to develop all chord positions

Press again the button to exit from this mode

**See:** [Choice Strings](#)

## Reset Strings Number (X) Button



When you press this button you will restore the string numbers (six) used to develop the chord

All disabled strings will be enabled

This button will disappear after pressing it. Its presence depends on at least one string disabled

**See:** [Choice Strings Number](#)



# Functions

## Tuning

Chord Setting

Chord Interpretation

Chord Position Modify

Chord Position Play

Chord Position Search

Strings Choose

Photos

Photos Play

MIDI

Scale

Scale Guitar Play

Scale Score Play

Fret

# Tuning

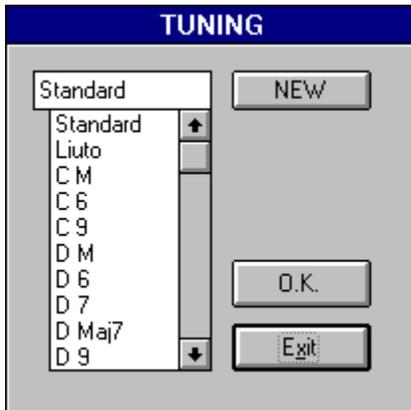


The tuning display shows the chord name and all notes belonging to it.



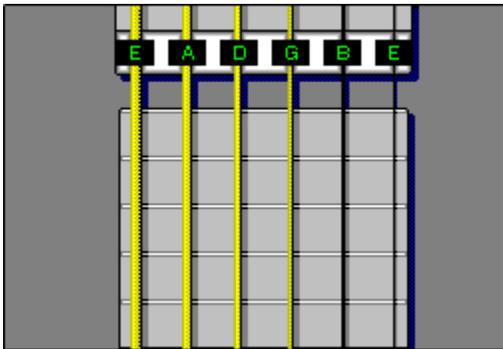
When you press this button you get the Dialog Box **TUNING** that allows you to modify current tuning.

You can open the dialog box **TUNING** even from the menu or the computer keyboard.



It is possible to choose a tuning.

- by selecting it from a list of program defined tunings.
- by clicking on button **NEW** to create your own tuning.



When you choose option **NEW**, the dialog box **TUNING** will be closed and you can set a change on the single notes shown in a green colour on the guitar *capotasto*.

**The left mousebutton decreases note.**

**The right mousebutton increases note.**



Sharp and Flat buttons allow you to change the way the alteration of notes are shown.



When you press this button you obtain the tuning sound.



This button blinks awaiting a confirm when a tuning is changed.

Press this button to confirm tuning change.

It is possible to restore the standard tuning by choosing the corresponding voice of the menu.

## Setting Chord Formula

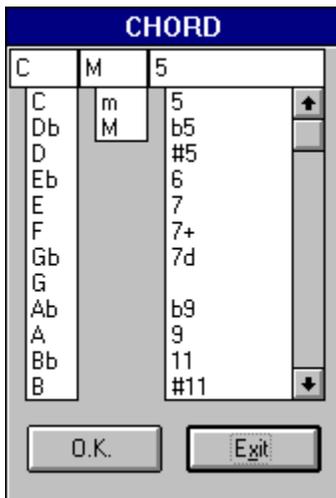


The display **CHORD** shows the new selected chord name.



When you press this button you get the Dialog Box **CHORD**.  
In the Dialog Box **CHORD** you can choose the chord to elaborate among a list of program defined chords.

You can open the dialog box **CHORD** even from the menu or the computer keyboard.



The dialog box **CHORD** allows you to set a chord by choosing the root, the third and the chord type.

You can choose the root of a chord from a list containing all chromatic notes.

Altered notes are represented with a diesis or a flat mark as shown on the button.



You can choose the third of a chord from a list containing major (M) and minor (m) procedures.

You can choose the quality of a chord from a list containing all defined chords.

This is the faster way to choose a chord among the most common ones.



You can use the single interval button to set more complex chords.

When you set a chord, you have the choice to eliminate or to activate the interval you want, by clicking on one of these buttons.

The Root of a chord can not be ommitted.

You can point the arrow of the mouse on corresponding displays to obtain an alteration of

single intervals.

You can press the left mouse button to decrease an interval, and the right mouse button to increase it.

The same action may be done using the corresponding keys of the computer keyboard.



This button blinks awaiting a confirm when a chord interval is changed.

Press this button to confirm the chord changes.

However the two displays are linked together, they show all changes made on set chords.

## Interpretation Chord Name

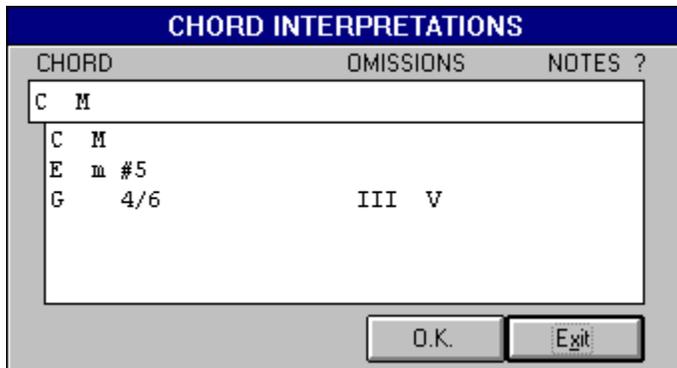
A chord may be considered like a blend of notes that, when linked together, have a particular "texture" and, as in a picture all sensations are transmitted by a combination of colours, so the harmonic feelings come out from a chord succession.

The present software, from this point of view, allows you to generate all possible changes in each chord and it also allows you to process chords, taking as a point of reference ([root](#)) each single note belonging to it.



When you press this button you get the dialog box that allows you to see and then to choose the possible interpretations of the name of the current chord.

You can open the dialog box [INTERPRETATION CHORD](#) even from the [menu](#) or the [computer keyboard](#)



The dialog box shows a list of possible chords interpretation. The list contains so many chords as the notes of current chord.

Interpretation contains: the [root](#); the chord definition, and all omissions. You can choose the interpretation by clicking the left mousebutton and the [OK](#) button.

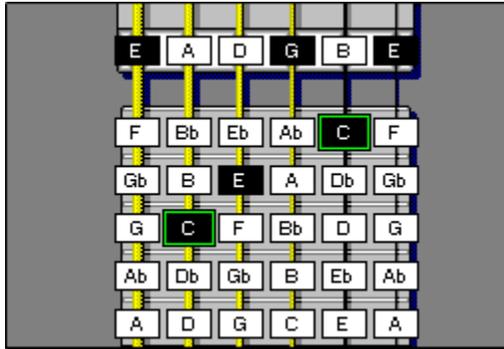
Omissions of the [third](#) and the fifth and the number of notes that can not be performed are shown in the interpretation list.

These ones can be revealed in the presence of [cluster semitones](#) of the chord.

## Modify Chord Position



When you press this button you get the graphic function to modify a chord position.



A chromatic scale will be shown on a sector of the fretboard in the mode **SCALE**.

You can set a new chord position clicking the left mouse button on a note of a string, then confirming the action with the **OK** button.

This option is useful when you know a chord position on the fretboard but you do not know its name.

The shape of the mouse pointer changes and it is transformed in a hand; in this way, you can drag the notes upon the strings to have a new input for next processing.



You can change every position both in the fretboard **SCALE** or **CHORD**.

The chord is automatically performed when the position is changed, and its new name is shown in the corresponding display.



When you press this button you can go to other new informations connecting the chord to a root one chosen among the note belonging to it.



You can exit from this option by clicking on the button containing the hand (in this way it will appear empty).

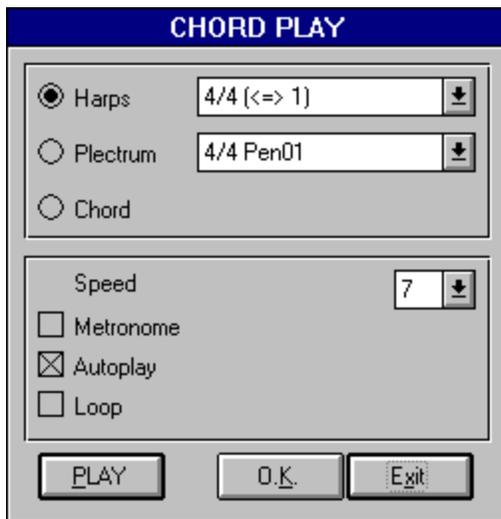
If the position has been changed you have to click the button  to confirm changes.

## Play Chord Position



When you press this with the left mouse button you get a musical performance of the current chord position.

When you press this with the right mouse button, you get the dialog box to set all parameters of chord musical performances.



You can open the dialog box even from the [menu](#) or the [computer keyboard](#).

*When you choose one of the following performing parameters you are excluding the others two, i.e. they are optional*

The parameters you can change are:

**Arpeggio** : allows you to choose an arpeggio from a list of defined arpeggios to apply to a chord position performance.

**Plectrum** : allows you to choose a rhythm from a list of defined rhythms to apply to a chord position performance.

**Chord** : determines a chord position performance.

### Selecting Options

**Performance Speed** : allows you to change chord performance speed choosing this option among a list of speed values that goes from 1 to 9.

**Metronome** : with this option a metronome will beep on each chord position. Metronome [MIDI](#) parameters. (Program Change, notes, speed) can be set from the dialog box [MIDI](#)

**Autoplay** : You get automatically a chord performance every time you choose a new position.

When you choose this option the colour of **PLAY** text in the button will change from a white to a green colour.

**PLAY** This button allows you to listen to the chord performance inside the dialog box together to all new chords settled.

All parameters, set in the dialog box, begin active if confirmed. They determine the chord

performance way by clicking the button...

1'	3'	5'	2'	9'	4-11	6-13
C	M	5				

## Search Chord Position



When you press it with the left mouse button, a search is done about the chord position, depending on all parameters set in the dialog box shown near here.

You can select all options of [SEARCH CHORD](#) by clicking this button



with the right mouse button.

You can open the dialog box [SEARCH CHORD](#) even from the [menu](#) or the [computer keyboard](#).



All parameters of a search position chord are set inside the dialog box [SEARCH CHORD](#); four alternative ways of searching are available and a filter works upon all positions to be shown.

**Search Frets** : looks for a chord position on the fret following the current one. If a complete chord position is not identified on the next fret, searching will continue on the following frets.

**Search Strings** : looks for a complete chord position into the current used fret, showing all positions found on a certain group of strings.

**Bass Note** : When you select this mode it is possible to set a search and to decide what kind of note among the chords ones, will be played on bass.

List contains all [intervals](#) belonging to the current chord and they are represented by roman numbers (I, III, V..) ; the search will be done first on the current fret, then on the following frets.

**Highest Note** : The same as above but it is referred to the highest note.

**Only Fingering Position** : this filter allows you to show only fingering positions identified by the program.

A search will begin when you click on the [OK](#) button on the dialog box [SEARCH](#).

**The selected setting, when confirmed, will be always active, so it is possible to search fastly chords position that correspond to the preset parameters pressing**

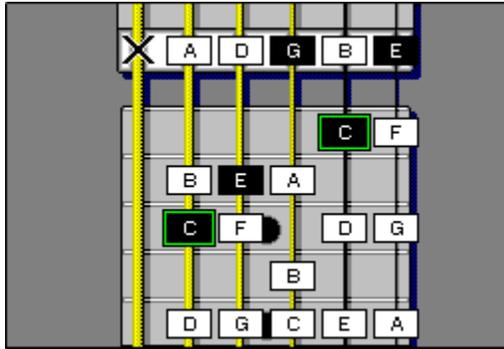
with the left mouse button, the following button



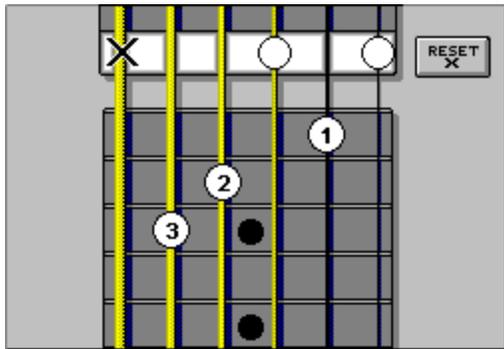
## Choose Strings Number



When you press this button the cursor of the mouse gets a **X** shape. The cursor allows you to activate or deactivate one or more strings.



You have to point the cursor on a string and to press the left mouse button to activate or deactivate it.



If the number of the strings is below to 6, this window will show the button **RESET** that allows you a fast reset of all 6 strings.



The right mouse button is always available to play the chord notes.

To exit the function **CHOOSE STRINGS** press again the button



## Photos



When you press this button with the left mouse button, you memorize a chord and its context (tuning, chord number, fret...). You can go to this function even from the [menu](#) or the [computer keyboard](#). The memorized position will fill the first free frame of the film shown at the bottom of the window.



At present 25 frames can be memorized

When you point the left mouse button on a frame you get the enlargement of the position that it contains.

When you click the right mouse button on any one of the frame you get a box that contains three tools:  
an **arrow**, a **musical note** and a **rubber**.

You can use these tools by clicking the left mouse button on the frame you need.

The tool functions are:

**Arrow:** it allows you to elaborate a memorized position and its context;

**Note:** it allows a memorized position musical performance ;

**Rubber:** it allows you to erase a memorized position ;

The memorized positions represent a chord sequence.



When you press this button with the left mouse button you get the chord sequence musical performance.

With the right mouse button you get the play parameters modifies.

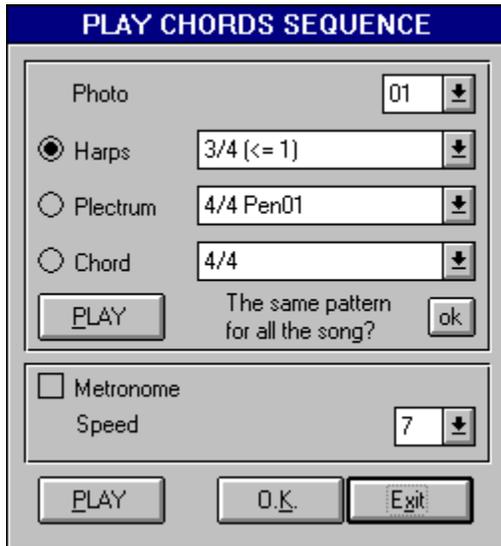
It is possible to save or to load a chord sequence by choosing the options from the [menu](#)

## Play Photos



When you press this button you get the chord sequences musical performance.

When you press it with the left mouse button, you get the dialog box **PLAY CHORD SEQUENCE**.



You can open the dialog box that sets all performance parameters even from the menu or the computer keyboard

**Frames** : It allows you to choose in which sequence frame you can set performance parameters.

**Arpeggio** : It allows you to assign an arpeggio to the selected frame musical performance.

**Plectrum** : It allows you to assign a rhythm to the selected frame musical performance.

**Chord** : It allows you to listen only once to the chord performance.

**Play** : It allows you to listen to the musical performance of a single selected frame.

**Metronome** : You get a metronome beat during the musical performance.

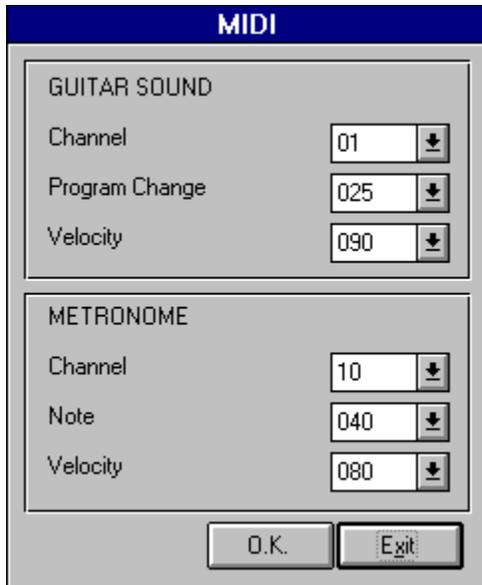
**Performance Speed** : It determines a metronome tempo speed of the chord sequence musical performance.

**PLAY** : This button opens a chord sequence musical performance without exiting from the dialog box.

## MIDI



Press this button to get the dialog box **MIDI**



You can open the dialog box that set all MIDI parameters even from the menu or the computer keyboard.

The dialog box is divided into two sections that allow you to change both the timbre setting and the metronome.

### SOUND

**Channel** : It determines the MIDI channel on which to send audio play messages (1-16)

**Sound** : (program change) It allows you to select the MIDI sound by choosing a number among 1 and 128.

**Velocity** : It controls the sound intensity with a value included among 1 and 128.

### METRONOME

**MIDI Channel** : It defines the MIDI channel to use (1-16) the metronome (usually channel 10).

**Notes** : It allows you to select the sound that marks metronome tempo.

**Velocity** : It controls the intensity of metronome beeps, in a value range among 1 and 128.

# Scale



The current scale name is shown on the display.

It is possible to scroll the list of the current compatibles scales, positioning the cursor of the mouse on the display and clicking the left or the right buttons.



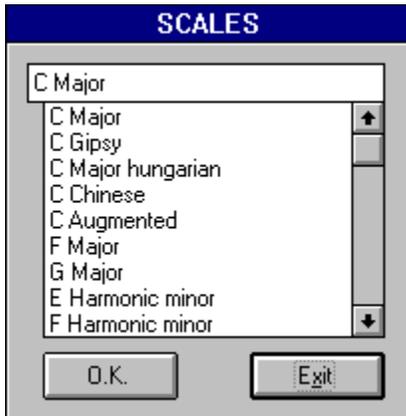
This button blinks when a new scale is used.

Press this button to confirm the chord changes.



Press the **SCALE** button to go to the dialog box **SCALES**

You can go to the dialog box even from the menu or the computer keyboard.



It is possible to change the tonal context of the current chord, choosing a scale among a list of scale names that are compatible with the chord.

Every list names are represented by a scale root followed by the name of the scale.

When you choose a new scale, this shows an immediate scale up to date in the windows scale and on the stave.

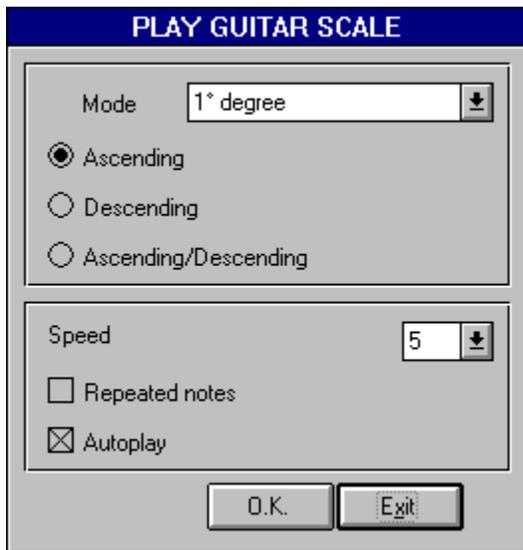
## Play Guitar Scale



When you press this button with the left mouse button, you get the scale musical performance represented on the fretboard.

When you press this button with the right mouse button you get the dialog box that allows you to set all scale musical performance parameters.

You can open the dialog box **PLAY GUITAR SCALE** even from the menu or the computer keyboard.



The changeable parameters are:

**Mode :** It allows you to change the scale performance mode, by choosing it among a list that contains the following modes:

**The 1st degree :** (the 2nd, the 3rd,... the 7th degree) a current scale performance is obtained in a range of an octave beginning from a chosen degree.

**Chord Root :** The scale is performed in octave beginning from the root of the current chord.

**All notes :** The scale is performed beginning from the first note available on a sector of the guitar fretboard ending with the last available note.

*When you choose one of the following performing parameters you are excluding the others.*

**Ascending :** The scale is played beginning from the lowest note and ending to the highest one of a chosen mode.

**Descending :** The scale is played beginning from the highest note and ending to the lowest one of a chosen mode.

**Ascending/descending :** The scale is played first in an ascending way and then in a descending one.

All choices are shown on the corresponding buttons set above the piano keyboard

**Performance speed** : It allows you to change the performance speed choosing the time value to be used among a list that contains a series of numbers (1-9)

**Repeated note** : Each note of a scale is played twice.

**Autoplay** Each scale will be automatically performed every time the scale used is changed.

When this option is activated the written word on the button 

1'	2'	5'	2'	3'	4-11	5-13
C	M	5				

 will change from a white to a yellow colour.

All parameters, set in the dialog box, are activated if confirmed.

They determine the scale performance by clicking the button... 

1'	2'	5'	2'	3'	4-11	5-13
C	M	5				

.

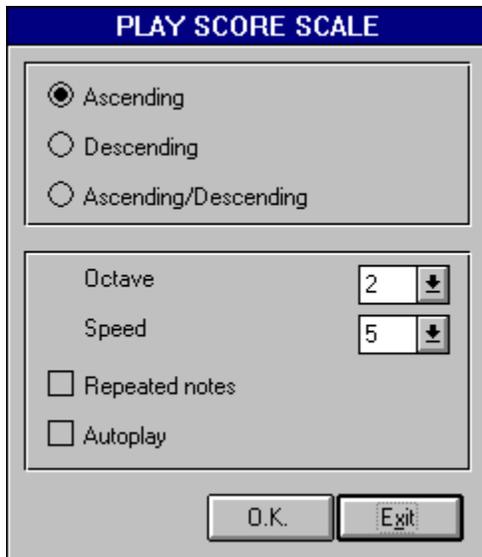
## Play Scale Score



When you press this button with the left mouse button, you get the scale musical performance.

When you press this button with the right mouse button you get the dialog box that allows you to change all scale musical performance parameters represented on the five-line stave.

You can go to the dialog box even from the menu or the computer keyboard.



The changeable parameters are:

*When you choose one of the following performing parameters you are excluding the others.*

**Ascending** : The scale is played beginning from the lowest note and ending to the highest one.

**Descending** : The scale is played beginning from the highest note and ending to the lowest one.

**Ascending/descending** : The scale is played first in an ascending way and then in a descending one.

All choices are shown on the corresponding buttons set below the five-line stave scales.

**Octave** : it allows you to change the used octave to show and to listen again to the stave scale, choosing it among a list that has a series of numbers (1-4) which identifies the octave.

**Performance speed** : It allows you to change the performance speed choosing a list that has a series of numbers (1-9) representing its speed.

**Repeated note** : Each note of a scale is played twice.

**Autoplay** :Each new selected scale will be automatically performed.

When this option is activated the written word on the button 

1'	3'	5'	2'	4'	4-11	5-13
C	M	5				

 will change from a white to yellow colour.

All parameters, set in the dialog box, begin active if confirmed. They determine the scale performance by clicking the button... 

1'	3'	5'	2'	4'	4-11	5-13
C	M	5				

# Fret

It is possible to change a group of frets in two ways; from here onwards chord positions (diagrams) are developed: setting it graphically on the fretboard or in the corresponding display.



The fret graphical setting is done by positioning the cursor of the mouse on the fretboard (the cursor is shown as a double upright arrow), clicking and dragging the white box along the fretboard.



This button blinks when a group of frets position is moved.

A choice is automatically confirmed when the mouse cursor exits from a window.



In this display it is possible to set the fret; from here onwards the chord will develop itself. You will decrease the fret clicking on the left mouse button; you will increase the fret number clicking on the right mouse button. The fret position will be shown in the display as roman numbers (I, II, III, IV, V, VI, VII, VIII, IX, X, XI, XII)



This button blinks when the key position is changed.

Click to confirm changes.



# Glossary

## A

A  
accidental  
alteration  
arpeggio  
augmented

## B

B  
bichord

## C

C  
chord  
chromatic  
cluster  
common chord (triad)

## D

D  
degree  
diatonic  
dominant

## E

E  
enharmonic  
excedent

## F

F  
fingering  
five-line stave  
flat

## G

G

## H

harmonic  
harmony

## I

improvisation

interval

**M**

major

MIDI

minor

**N**

natural

notation

note

**O**

octave

**P**

perfect

**R**

rhythm

root

**S**

scale

semitone

sharp

subdominant

**T**

tablature

third

tonality

tone

tonic

triad

tuning

**U**

unison

## A

It is Synonim of the A major Chord

## Accident

Notation-mark used in the western musical system that preceding a note alterates it respectively :

**sharp** and **double sharp**: marks rise a note of a semitone and a tone  
**flat** and **double flat**: marks low a note of a semitone and a tone  
**natural** and **double natural**: marks undo former marks

## Tuning

Adjusting guitar strings tension to obtain the right tuning according with the tuning-fork..  
The most used tuning of the guitar (starting from the highest tuned string) is: **e, b, g, d, a, e**

An open tuning means the whole notes tuned for obtaining a specific chord sound.  
The program gives the most frequently used open tunings.

## Chord

A simultaneous combination of at least three sounds (triad).  
The bichord is not considered a chord because it is indetermined from a tonal system point of view.

Taking the lowest note as reference, chords may be represented as root if the lowest note is the one giving the chord his name; or as **inversion** if it is one among others notes that belong to the chord (the first, the second, the third inversion,...).

Harmony is the science that formulates the theory of nature, characteristics and relations among chords.

## Alteration

A temporary alteration of a note of about one or two semitones towards high and low sounds in relation with his basic tonality tune.

Alterations, also called accidental, define the passage tonality when they are marked with a key.

## Harmony

A whole of rules that define the chords structure on the bases of tonality principles and control their course in time.

## Harmonic

Or harmonic sound, is the sound you can get by vibrating a guitar string in one of the fractional point of its length (1/2, 1/3, 1/4...).

## **Arpeggio**

The consecutive performance of singles and more notes of a musical chord.

## **Augmented**

See: Excedent.

## **B**

It is Synonim of the B major Chord

## **Flat**

Alteration mark that put next to a note lows it of a chromatic semitone. To low a note of two semitones you use the double flat.

## **Bichord**

It joins only two sounds (excluding unison and octave).

## **C**

It is Synonim of the C major Chord

## Cantino

## Capotasto

Barretta rigida applicata trasversalmente alla parte iniziale della tastiera della chitarra.

Il capotasto tiene le corde sollevate tanto da permettere loro di vibrare.

## Cluster

An harmonic group of adjacent sounds.

## Chromatic

**Chromatic interval:** it shows a semitone interval In the temperato system.

**Chromatic scale:** it defines a succession of 12 simultaneous semitones.

It is possible to use chromatic scales having third or fourth tones, in other systems.

**See also** diatonic and enharmonic.

## D

It is Synonim of the D major Chord

## Diatonic

It is a system based on a scale of 7 notes that subdivide an octave interval in 5 tones and 2 semitones in a sequence that avoids semitones to be adjacent.

**See also** chromatic and enharmonic

## Diesis (sharp)

A alteration mark that rises a note of about a semitone. Double diesis (sharp) is used to rise a note of about 2 semitones.

## Fingering

The choice of fingers as in playing a chord, a scale or a musical phrasing.

Fingers are indicated with numbers:

**1= INDEX FINGER**  
**2= MIDDLE FINGER**  
**3= RING FINGER**  
**4= LITTLE FINGER**

### **Dominant**

In the tonal system indicates the fifth degree of a major or minor scale, and it has the most important degree after the tonic.

### **E**

It is Synonym of the E major Chord

### **Excedent**

Every musical interval that rise of a semitone the second, the third, the sixth and the seventh major intervals, and the fourth, the fifth and octave perfect intervals.

### **Enharmonic**

It indicates the relation between two notes named in a different way but having the same height.

**See also** diatonic and chromatic.

### **F**

It is Synonym of the F major Chord

### **Root**

It indicates a sound that produces a triad, in harmony.  
It is a synonymous of tonic in the musical scale.

### **G**

It is Synonym of the G major Chord

### **Perfect**

A fourth, fifth and octave interval and all intervals that could be brought back (the eleventh, the twelfth ..).  
When it is not exceeded or diminished of a semitone.

### **Degree**

It indicates the notes position on the diatonic scale (the first, the

second, the third degree) in relation with the tonic or the basic ones, named the first tonic degree.

The scale degrees are called tonic, overtonic, characteristic, subdominant, dominant, overdominant, sensible as the role they play in the tonal range.

## Improvisation

A musical composition created during the performance.

In Jazz, the improvisation is often linked to harmonic models and/or predefined rhythmic schemes.

## Tablature

A system of representing chords, scales and musical phrasing related with a performance (string, key, fingering...) for string instruments.

## Interval

The height difference between two sounds.

The temperato system divides an octave into 12 same parts so determining the minimum semitone interval.

So you have:

the second, third, sixth and seventh **major and minor intervals**

the forth, fifth and octave **perfect intervals**

**augmented and diminished intervals**

## La

Nome del sesto grado della scala maggiore naturale di do. Nei paesi anglosassoni la nota si indica con la lettera **A**.

La nota la viene utilizzata come riferimento per l'intonazione degli strumenti.

Per convenzione la frequenza del la utilizzato come diapason è 440 Hz.

## Major

It shows an interval amplitude, a chord structure, a scale or

a tonality mode.

The major scale is an ascending succession of two tones, a semitone, three tones and a semitone.

For each major tonality exists a relative minor tonality, the tonic corresponding to the sixth degree in the major scale.

In the tonic system the major mode is opposed to the minor one.

## Minor

It shows an interval amplitude, a chord structure, a scale or a tonality mode.

The **minor melodic scale** is an ascending succession of a tone, a semitone, four tones and a semitone.

The **minor harmonic scale** is an ascending succession of a tone, a semitone, two tones, a semitone, a half and a tone and a semitone.

For each minor tonality, exists a relative major tonality, the tonic corresponding to the third degree in the minor scale

In the tonal system the minor way is opposed to the major one.

## MIDI

Acrostic for: Musical Instrument Digital Interface.

## Natural

A note that is not altered by a flat, double flat, sharp (sharp) or double sharp (sharp) mark.

Alteration mark that put next to a note undo the effect of a previous alteration.

The double natural mark undo the effect of previous double flat or double sharp.

## Note

A graphic symbol, usually altered by a alteration mark, representing a musical sound and its related duration.

A note is also the height of a specific sound, indicated by a particular name or letter.

## **Notation**

System of codifies used to write the music.

## **Notazione Anglosassone**

**A=LA**  
**B=SI**  
**C=DO**  
**D=RE**  
**E=MI**  
**F=FA**  
**G=SOL**

## **Octave**

A height interval between two sounds with the same name. One of them has a double frequency compared with the other one.

## **Five-Line Stave**

A group of five horizontal lines and four spaces between a line and another one Notes, intervals and dynamic marks are written on it.

A key is shown at the beginning of the five-line stave; it establishes the referring note position which determines the position of all notes.

When a note is written outside the five-line stave, because of its height, usually it has a sign at the top or at the bottom of the line.

## **Rhythm**

A music dimension related to the organization of sound length, that determines the identity of the music in a very strong way.

## **Scale**

A succession of notes performed in ascending and descending order through an octave interval in a certain number of intervals.

The theoretical system in which western music is based is the result of the temperata scale definition that is divided into the same 12 semitones.

## **Semitone**

It is the smallest interval in the temperato system.

## **Subdominant**

The forth degree of the diatonic scale.  
It is the same both in major and in minor ways.

The presence of the subdominant in a tonic range is particurarly important because of its link between the static aspect of tonic and the dominant one of dinamic.

## **Third**

A interval between two separate notes, in the continuing succession of the diatonic scale, only starting from a third note.

Third is called *major, minor, diminished or exceding* because it contains two tones, a half and a tone, a tone or two halves and a tone.

## **Tonality**

A system of organizing chords in connenction to a main chord called tonic chord.

## **Tonic (Root)**

The most important pole in tonic system.

The first degree ot the diatonic scale, or basic sound, and a base for the perfect major and minor chord.

## **Tone**

A major second interval.

## **Triad**

A chord of three sounds, made of two laid third intervals.

Triad gives rise to four different chords in accordance with the nature of the third intervals: *major, minor, exceding and diminishing*.

## **Unison**

Equality between two sounds with the same height even if they have different timbre.

