

# Visual Harmony

## A User Guide to VisualHarmony 1.0



Visual Harmony was developed by Delfina Malandrino, Donato Pirozzi, Gianluca Zaccagnino e Rocco Zaccagnino.

For more information about VisualHarmony, visit:

***<http://www.di.unisa.it/~delmal/research/usability/VisualHarmony/Tool>***

*Organisation:* University of Salerno

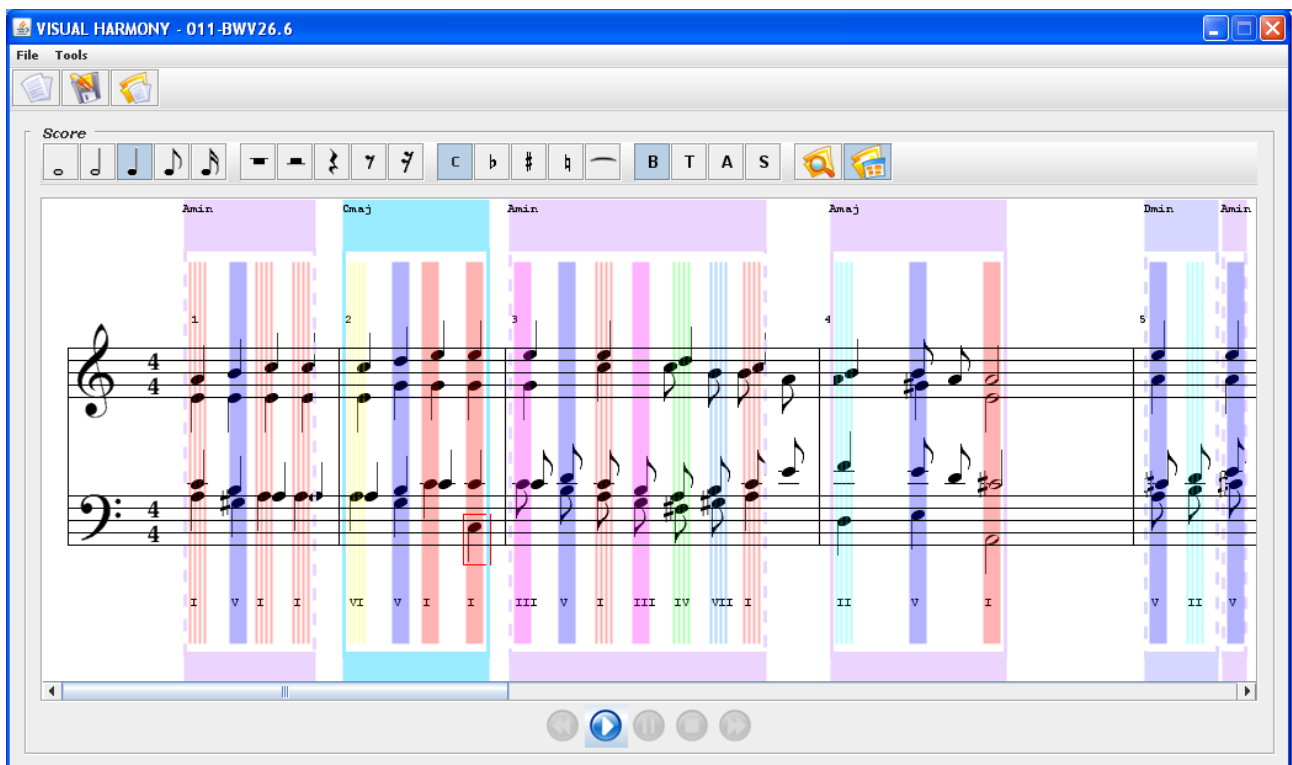
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*Subject:* VisualHarmony 1.0 User Guide

# 1

## A presentation of VisualHarmony 1.0

VisualHarmony is a system to visualize a graphical representation for the harmonic structure of a musical score.



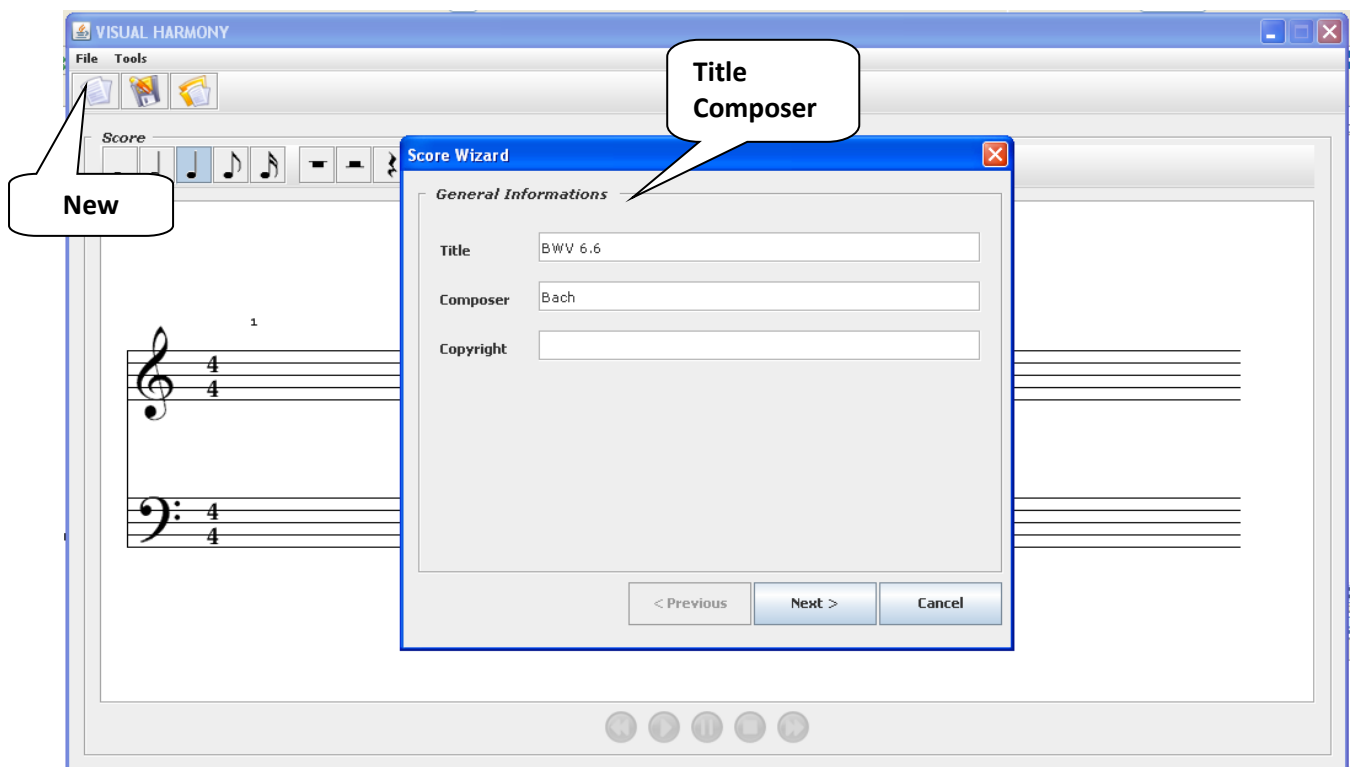
Visual Harmony provide a *music editor*, a *music visualizer* and a *music player*.

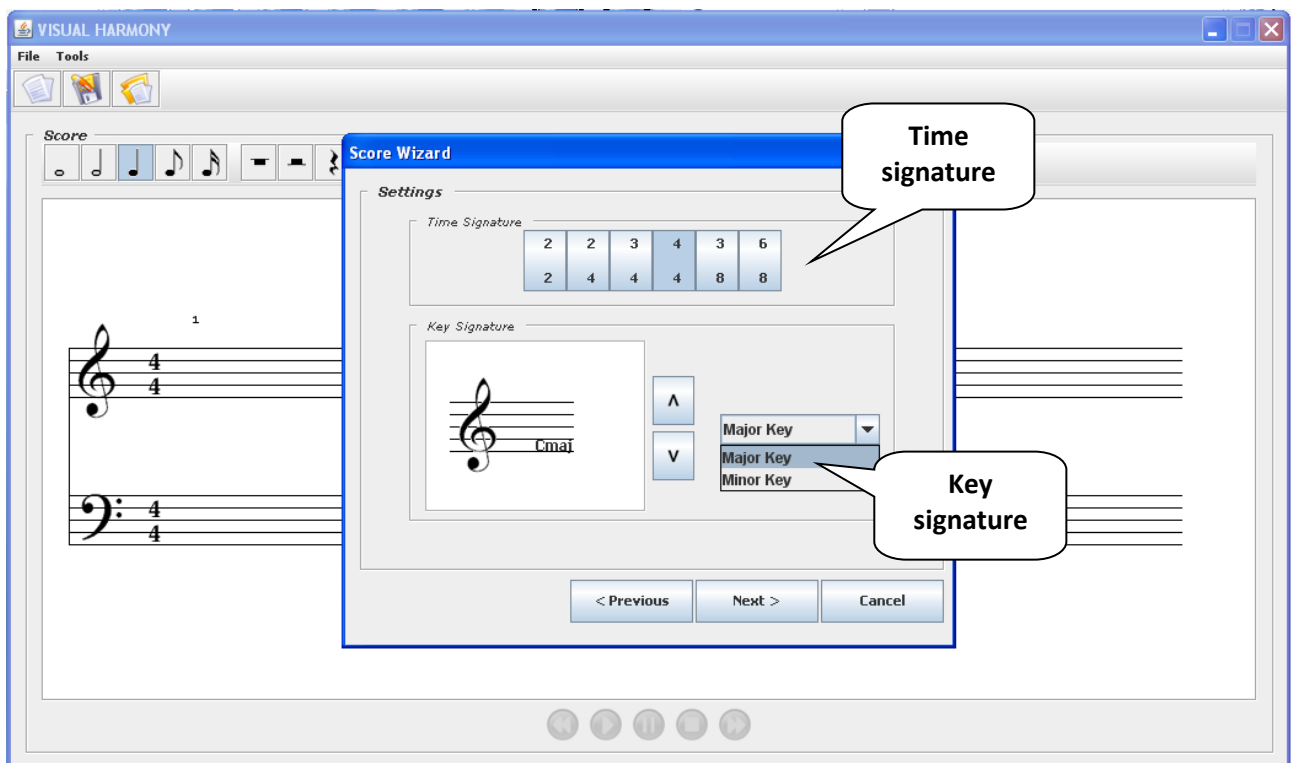
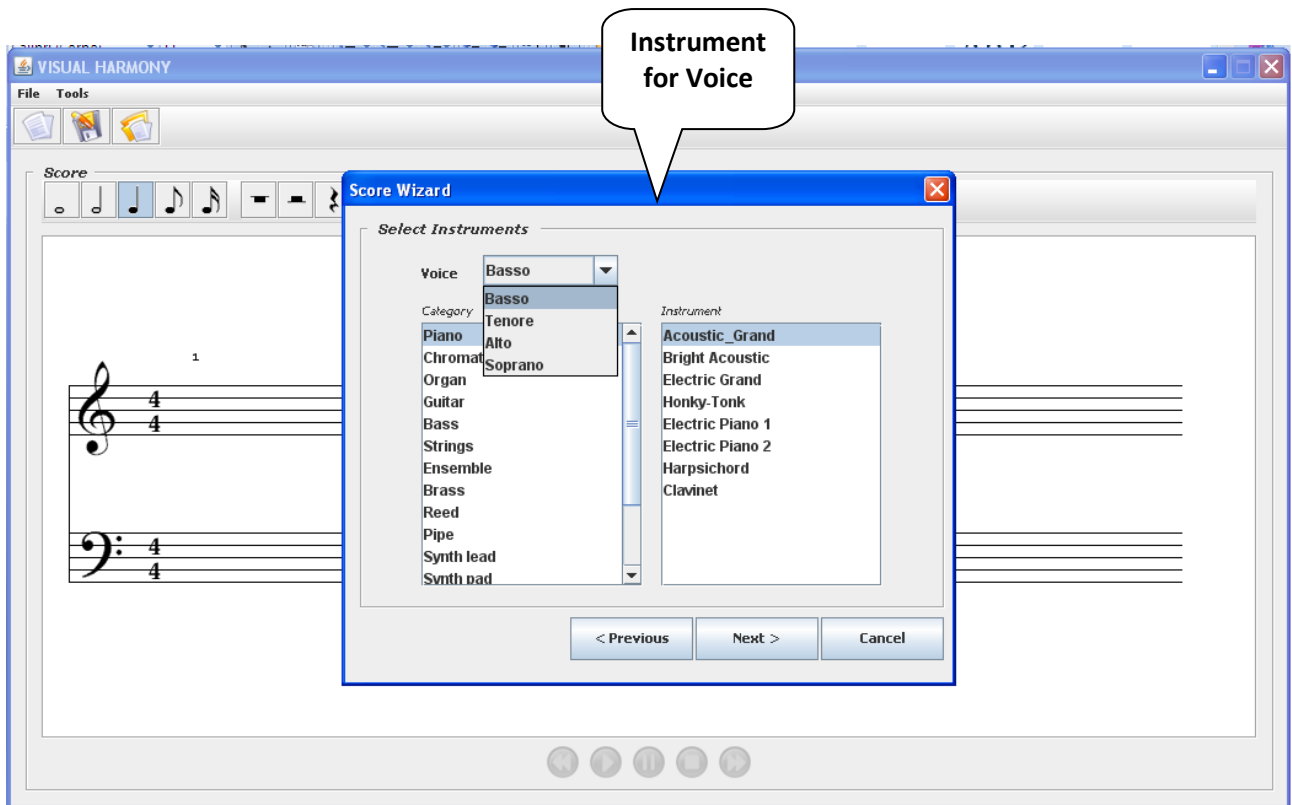
The *music editor* is used for the composition of 4-voices (basso, tenor, alto and soprano) music; the *music visualizer* is used for the visualization of 4-voices music (in .vis format); the *music player* is used for the reproduction of 4-voices music (in .vis format).

# 2

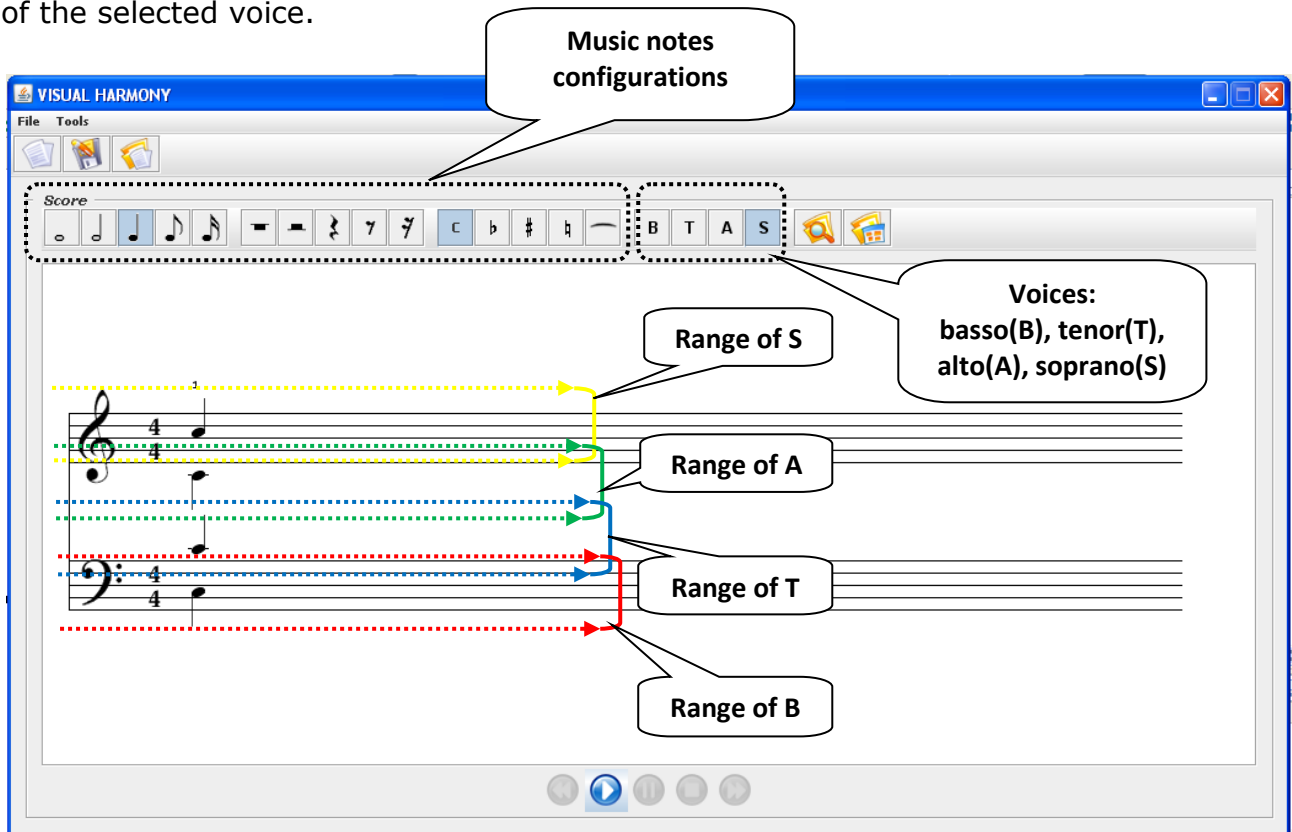
## The Music Editor

In order to compose a new 4-voices music score first click the “New” button, then select information about the Title, the Composer, the Instrument for each voice, the Key Signature and the Time Signature.



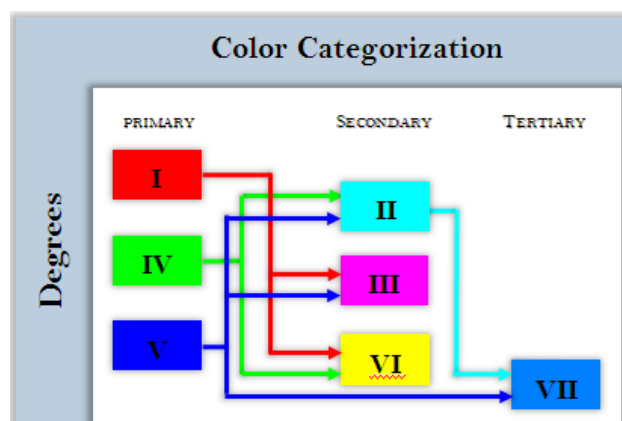
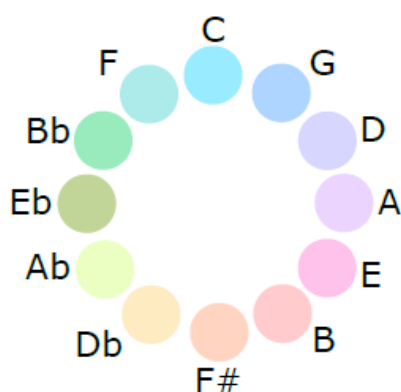


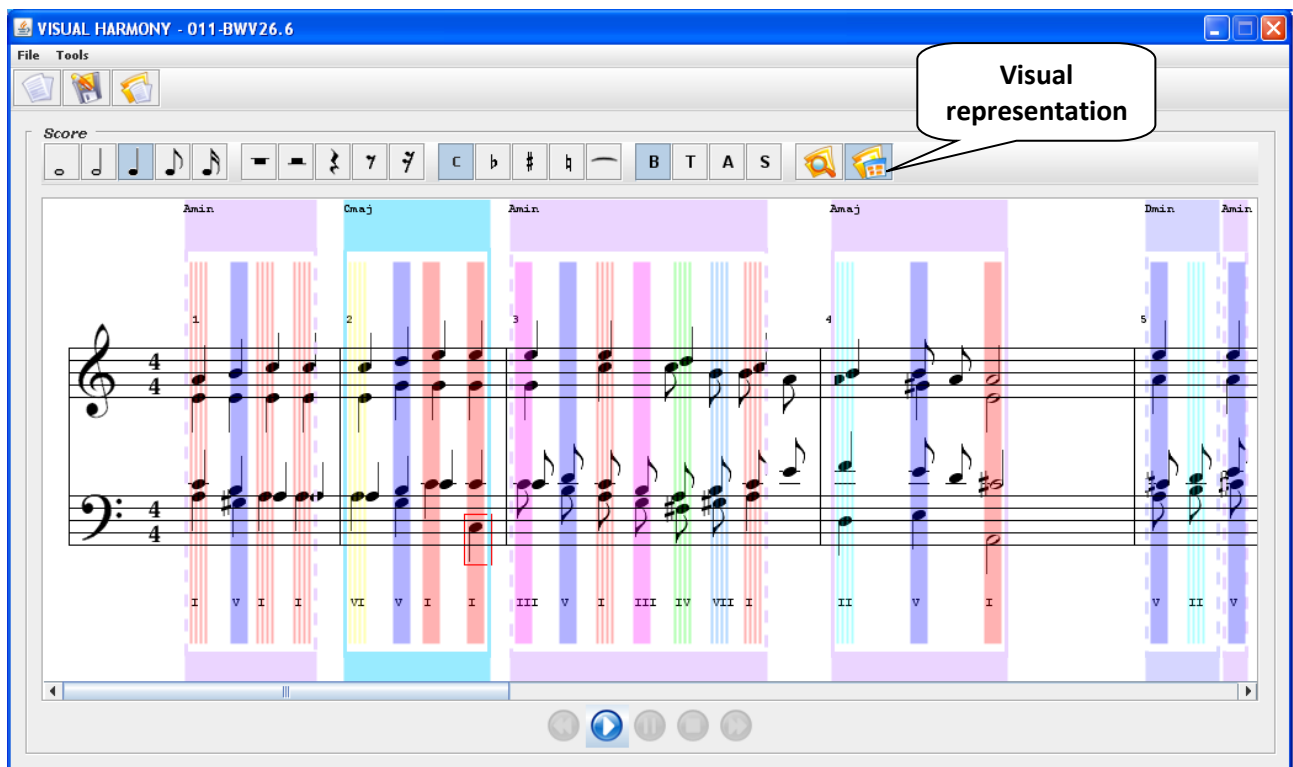
After the setting of general information, a new score can be edited. The GUI provide buttons for several *music notes configurations*. Each new note is associated at one of the 4 *voices*, basso, tenor, alto and soprano, and can be positioned only in the *range* of the selected voice.



## 2.1 The visual representation

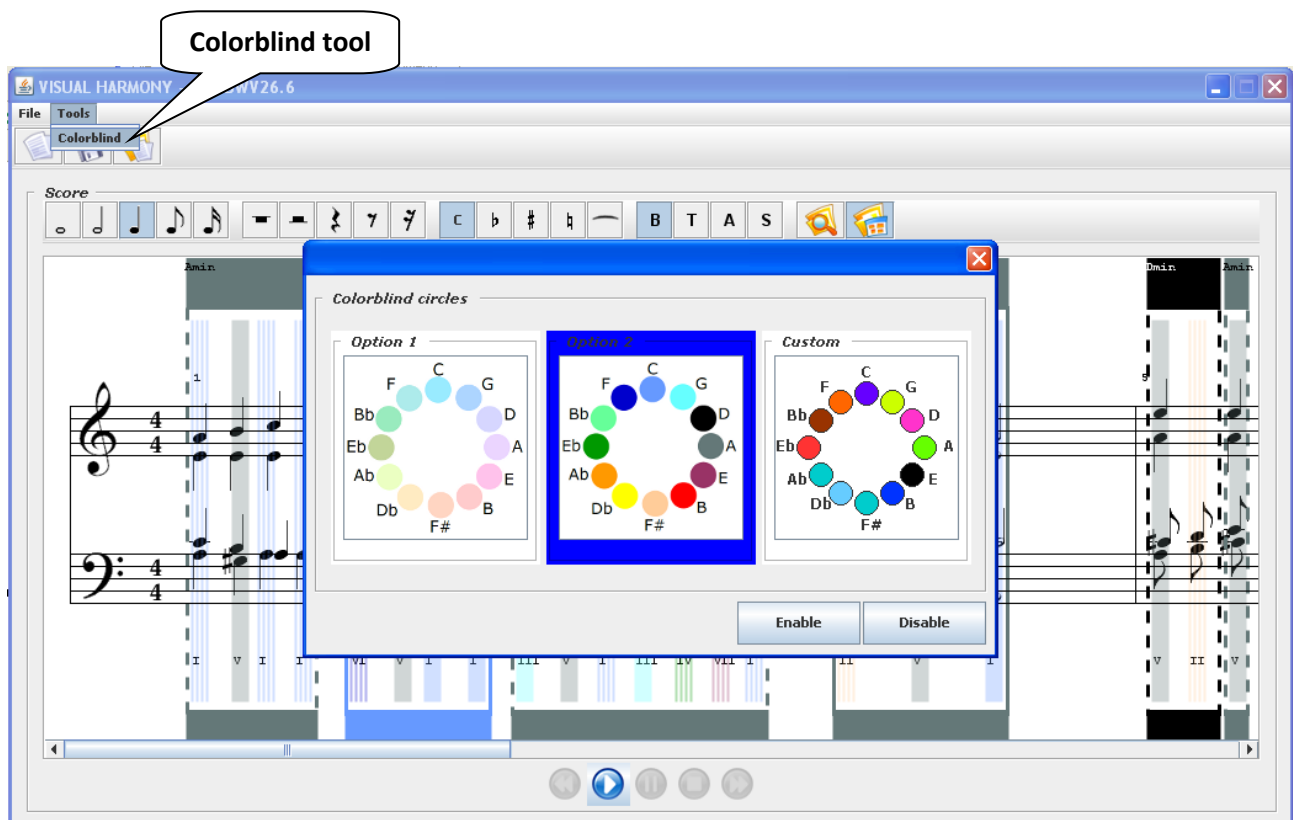
Given a 4-voice music score, VisualHarmony provide a graphical representation based on research studies, with the objective to help the composer during the definition of the harmonic structure of the piece. The colors for the tonalities have been chosen on the basis of their similarity in the circle of fifths, while the colors for the degrees have been chosen on the basis of their function.

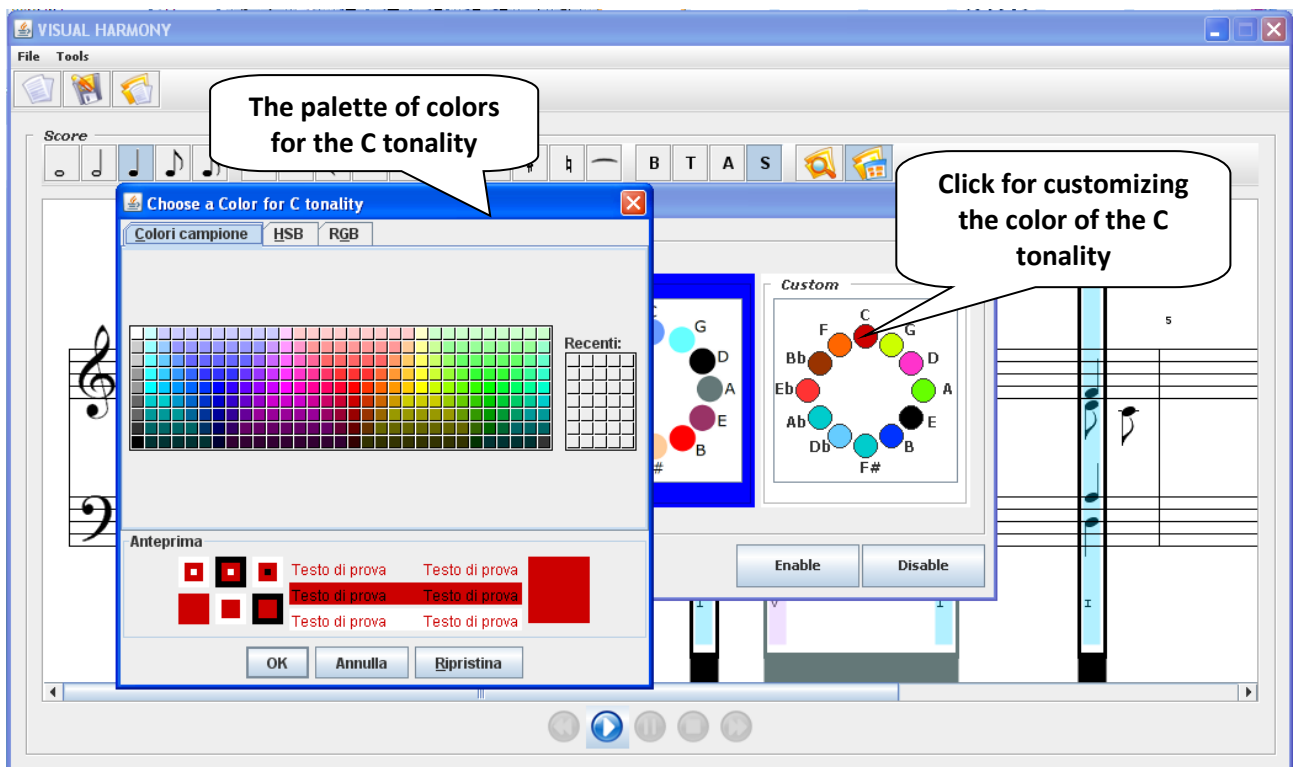




### 2.1.1 The colorblind tool

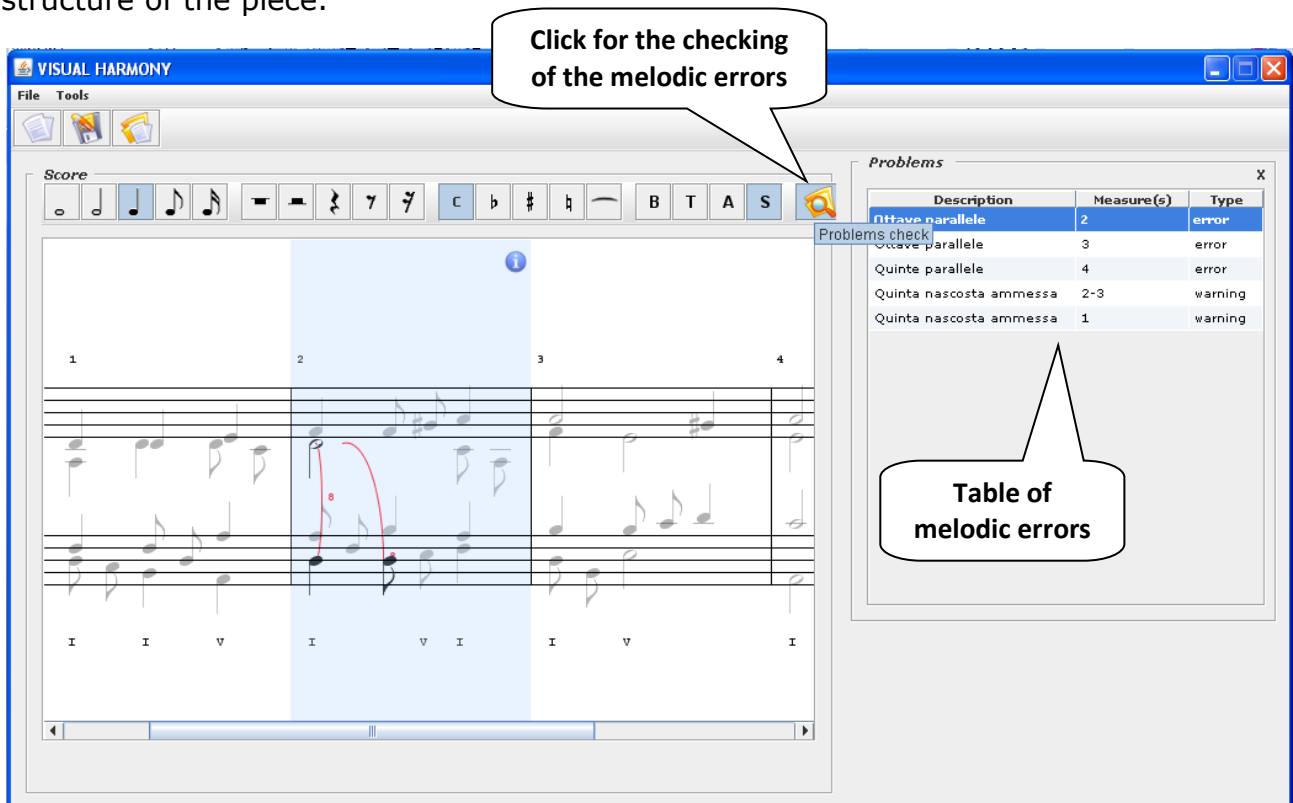
VisualHarmony provide a colorblind option, that enable to chose a different selection of colors for tonalities, based on research studies. Furthermore, the tool gives three options: two circles of fifths of colors for tonalities, and a customizable circle.





## 2.2 The melodic checker

Given a 4-voice music score, VisualHarmony provide a tool for the checking of melodic errors, with the objective to help the composer during the definition of the melodic structure of the piece.

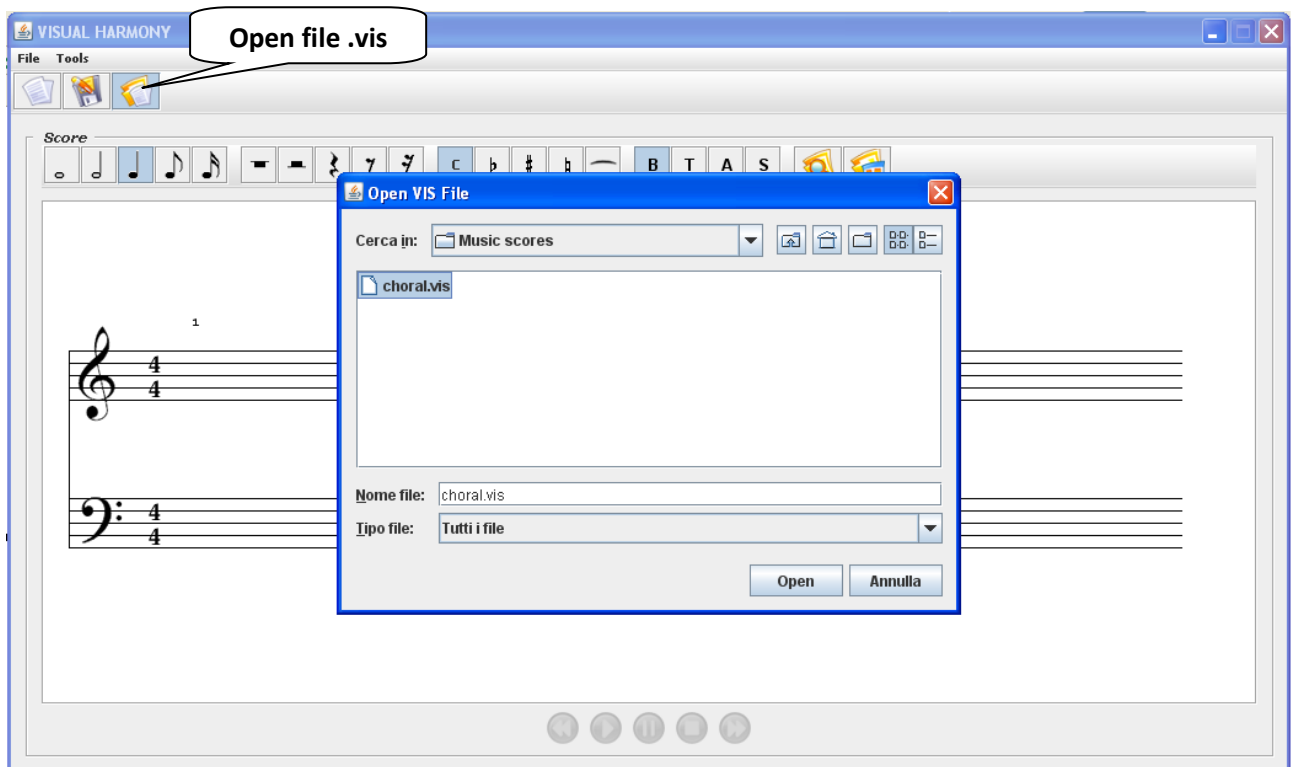




# 3

## The Music Visualizer

In order to visualize a new 4-voices music score first click the "Open" button, then select a file in .vis format on the file system.

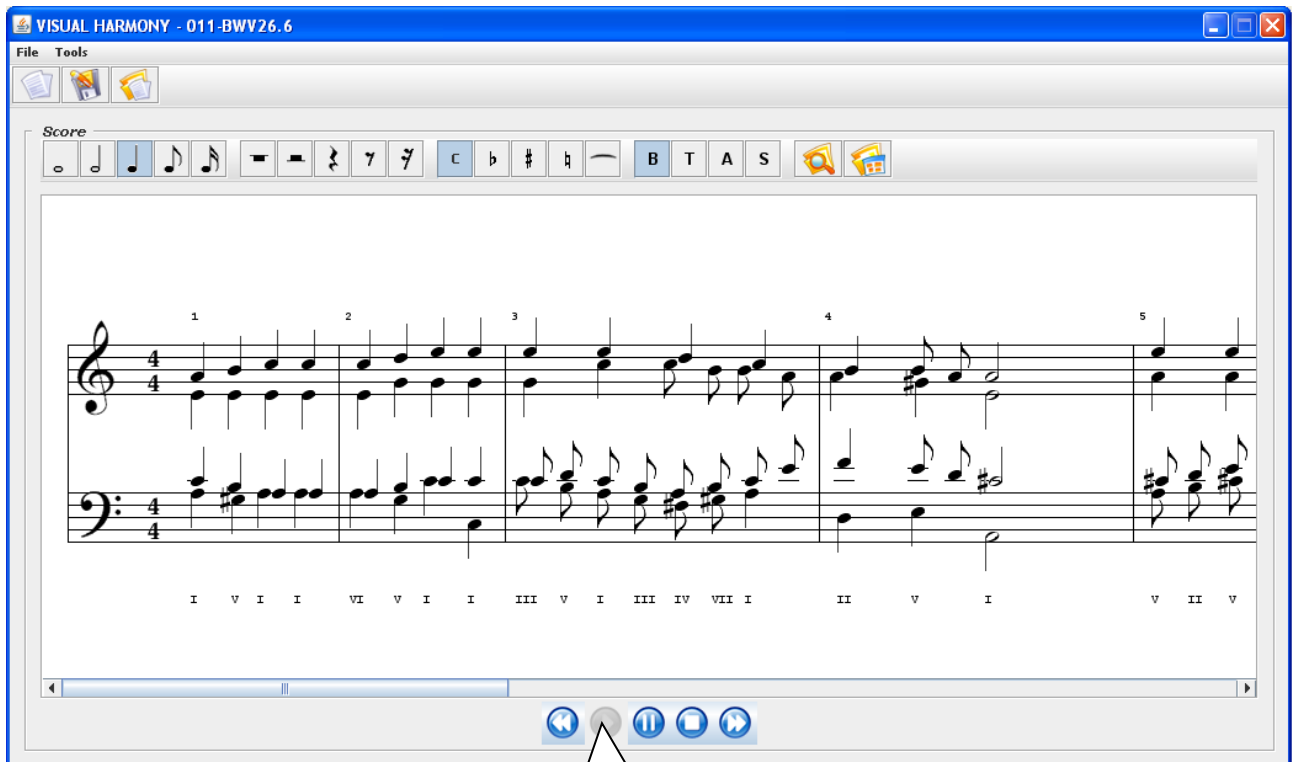


The Music Visualizer provide the same functionalities provided by the Music Editor, as the visual representation, the colorblind tool and the melodic errors checker. Furthermore, the score visualized can be modified by using the basic functionalities of the editor.

# 4

## The Music Player

Given a 4-voices music score, visualized by VisualHarmony, a player is able to reproduce the corresponding music.



Click for playing  
the music