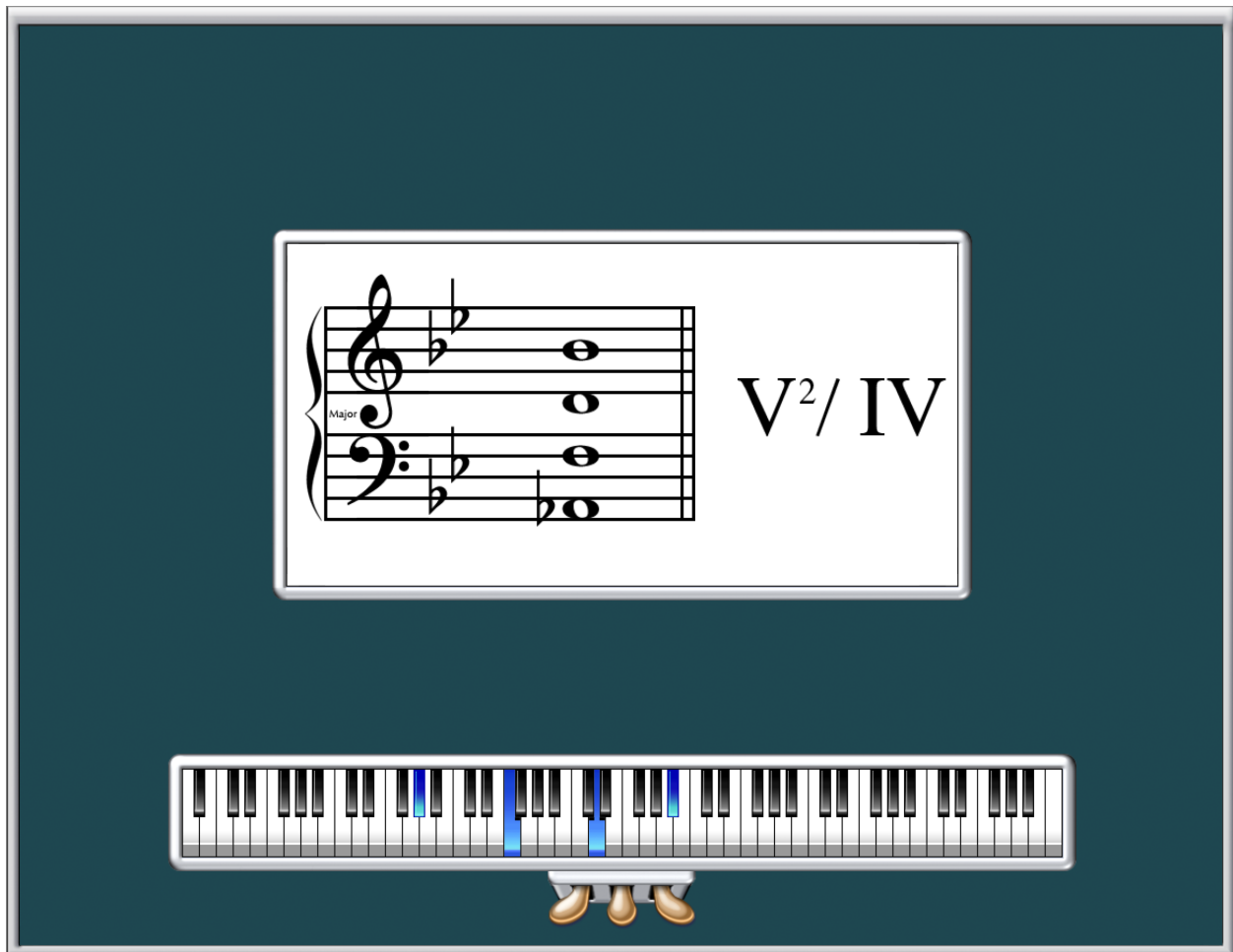


Classroom Maestro

Screen-Sharing Strategies



A dark teal rectangular frame containing a white box with musical notation and a piano keyboard diagram. The notation shows a treble clef with a key signature of one flat (Bb) and a bass clef with a key signature of one flat (Bb). The treble clef has a whole note chord consisting of G4, Bb4, and D5. The bass clef has a whole note chord consisting of G2, Bb2, and D3. To the right of the notation is the Roman numeral V^2 / IV . Below the notation is a piano keyboard diagram with blue vertical bars indicating the notes G, Bb, and D in both the treble and bass clefs. Three golden pedals are visible at the bottom of the keyboard.



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Screen Sharing During an Online Lesson

As a standalone application, Classroom Maestro is an effective tool in real-time, online music lessons. Here's the way it works:

The teacher runs Classroom Maestro on a Mac or PC. During a video call with the student, the teacher shares the Classroom Maestro display. The student views the Classroom Maestro display on the student's computer or mobile device.

Zoom and Skype are two of the most commonly used apps with effective screen-sharing features. However, there are many others to consider and their screen-sharing options vary considerably.

The exact way in which screen-sharing is accomplished is unique to each video conferencing application. The general principles, however, are similar.

If an app offers a complete set of screen-sharing features, you can do any of three things:

- share your entire screen
- share an application or application window
- share a defined portion of your screen

Keep those features in mind as you consider the strategies that follow.

Applications that Offer Screen Sharing

These video conferencing apps offer screen-sharing features:

- Free Conference
- Google Hangouts
- G Suite Hangouts Meet
- GoToMeeting
- Jitsi
- Join.Me
- Skype
- WebEx
- Whereby
- Zoom

Applications that Do Not Offer Screen Sharing

These video conferencing apps do not offer screen-sharing features:

- FaceTime
- WeChat

Share Screen or Share Application?

Many apps offer a choice between sharing the screen and sharing an application. It is important to understand the difference.

When sharing your screen, you are sharing everything that is visible on your screen. This can include your local video window, your messy desktop, instant messages that come in unexpectedly, and more.

On the other hand, when you share an application, only the windows associated with the application are visible to the individuals with whom you are sharing.

To achieve a clean screen-sharing experience, share the Classroom Maestro window rather than the full screen.

Maximizing the Classroom Maestro Display

If you have a large monitor and your student has a small monitor, your shared screen will be shrunk down in order to be displayed on the student screen. When your large screen is viewed on a small mobile device, such as a smart phone, the shared display may be unreadably small.

To get around this problem, reduce the size of the Classroom Maestro window on your computer screen to the smallest possible size.

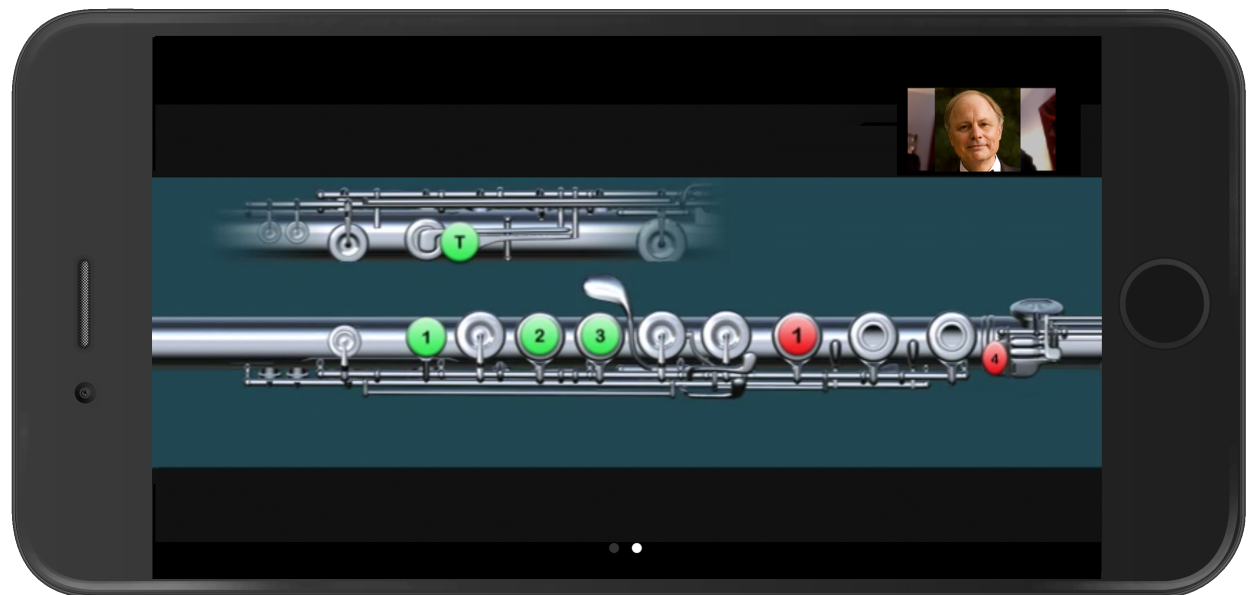
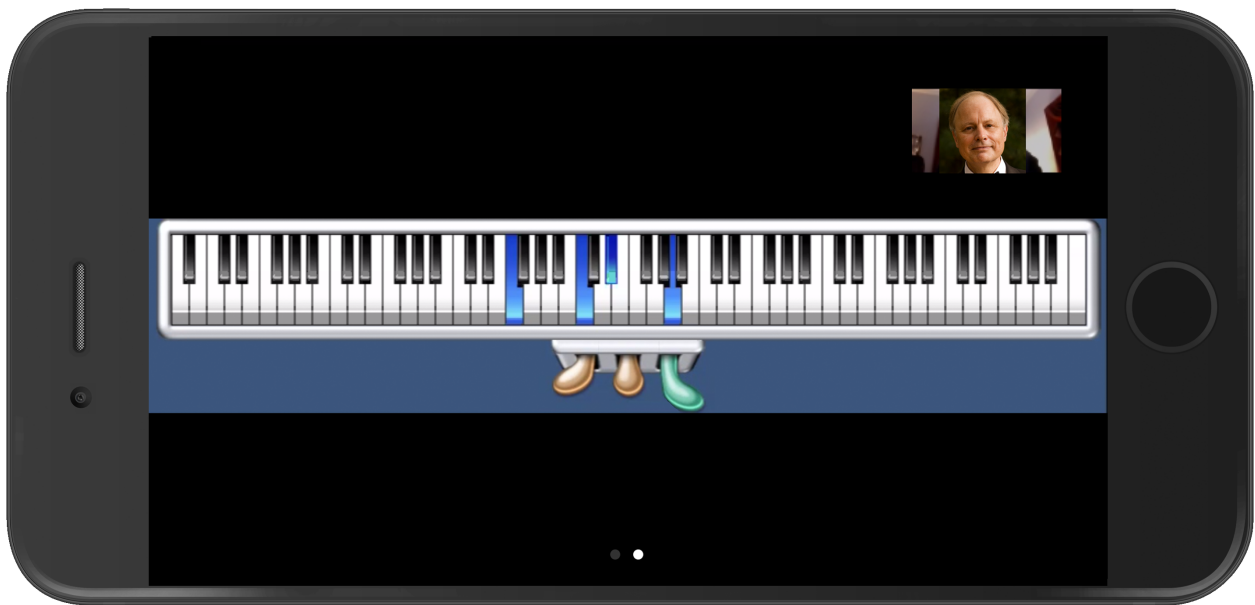
Then, share the Classroom Maestro window, not the entire screen.

This will result in a larger staff and keyboard being displayed on the student's monitor than would otherwise have been the case.

Sharing a Portion of Your Screen

Your video conferencing app may offer an option to share a portion of the screen.

If your student is participating in the call on a very small mobile device, such as a smart phone, you may wish to share just a small portion of your screen so that the area that you share is visible at a reasonable size on your student's screen.

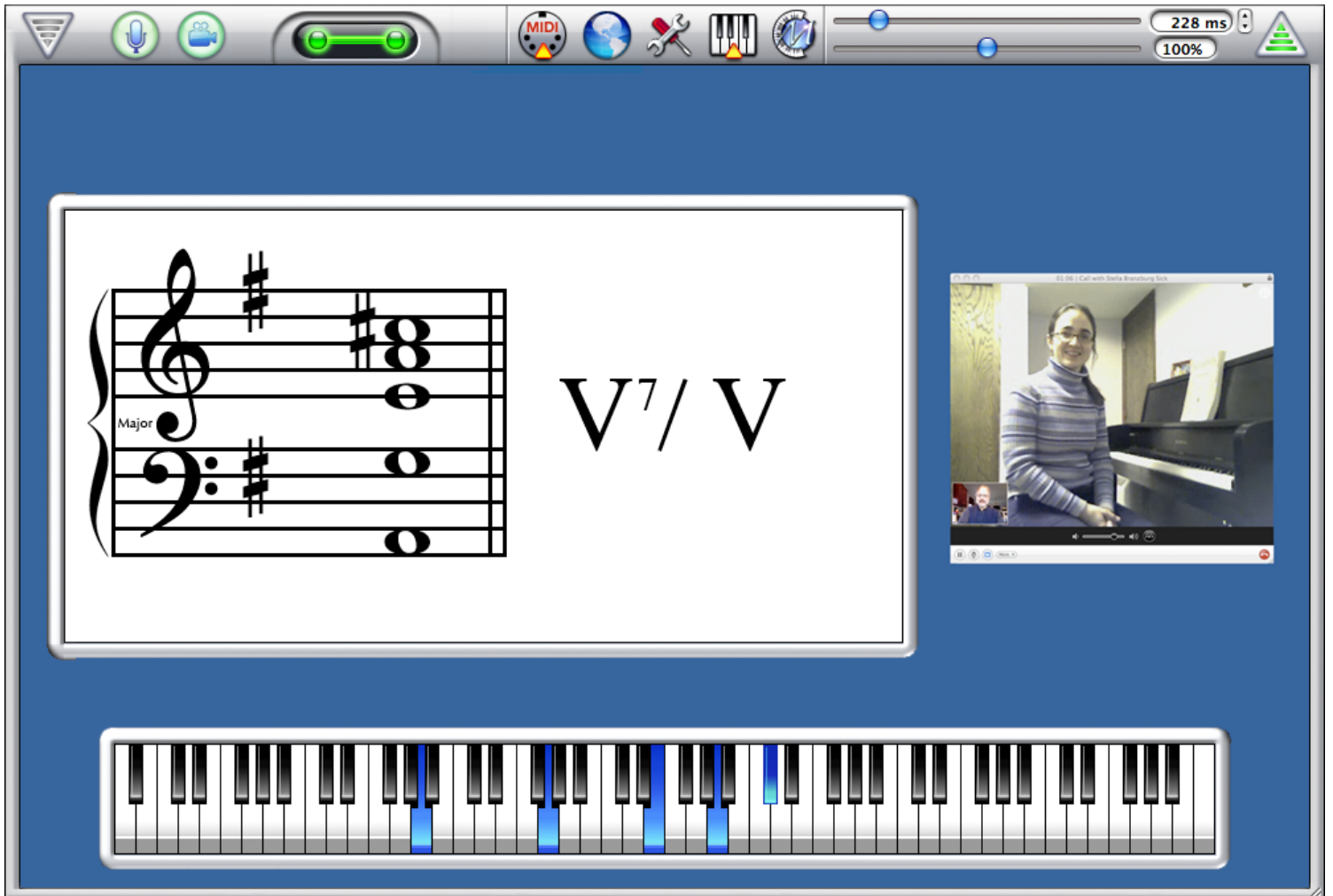


Interactive Sharing of Classroom Maestro

Given the effectiveness of Classroom Maestro as a teaching tool, you may find yourself wishing that the student had the opportunity to interact directly with Classroom Maestro by playing notes on her or his own keyboard.

This is possible but not through screen sharing.

This is what the result might look like:



The screenshot displays the Classroom Maestro software interface. At the top, there is a toolbar with various icons including a microphone, a camera, a MIDI icon, a globe, a wrench, a piano keyboard, and a speaker. Below the toolbar, the main area is divided into three sections. On the left, there is a music score for a Major key, showing a treble clef and a bass clef. The treble clef has a sharp sign (#) and the bass clef has a sharp sign (#). The score consists of two staves, each with a whole note. To the right of the score, the text V^7 / V is displayed. On the right side of the interface, there is a video feed showing a student sitting at a piano. Below the video feed, there is a virtual piano keyboard with several keys highlighted in blue. The interface also shows system information such as '228 ms' and '100%' in the top right corner.

To provide Classroom Maestro as a 2-way, interactive tool in a lesson, student and teacher both need the following:

- a MIDI-capable digital or acoustic piano
- Mac or PC
- Classroom Maestro software installed
- Internet MIDI software installed

Using [Internet MIDI from TimeWarp Technologies](#), teacher and student connect their keyboards together over the Internet. In this scenario, they typically use a video conferencing app at the same time.

When either teacher or student plays the local piano, that person simultaneously plays the remote piano as well. The sound of the teacher’s playing and student’s playing is not heard through the computer. Instead, the sound is produced by the instruments at each end of the connection—and there is no loss of sound quality.

By connecting keyboards and computers in this way, both teacher and student can access the Classroom Maestro window *within the Internet MIDI application*. **This enables both student and teacher to interact with the features of Classroom Maestro individually or collaboratively.**

The teacher’s Classroom Maestro will respond to the student, and the student’s Classroom Maestro will respond to the teacher.

NOTE: The most, but not all of the Classroom Maestro features are available *within* Internet MIDI. Chord Progression mode, the new features of Classroom Maestro 5, and the orchestra instruments are not yet available within the Internet MIDI application window.