

What if You Could Show Them the Sound They Produce

Presented By

Hector Perez

&

Steve Giovanoni

2014 Midwest Clinic

Table of Contents

Audacity-Showing Sound	Page 1
Snipping Tool-Annotating for everyone	Page 5
Opening programs made easy	Page 6
Remote Desktop for Ipad or Tablet	Page 7
Visual Analyzer 2011-Showing Overtones	Page 8
Hand held digital devices	Page 9

Feel free to print and make copies to pass out to your students so that they may have these programs at home and know how to use them to reinforce what you do each day.

Hardware Requirements:

We use the following items in our classroom but exact matching items are not required to successfully integrate the programs into your classroom setting:

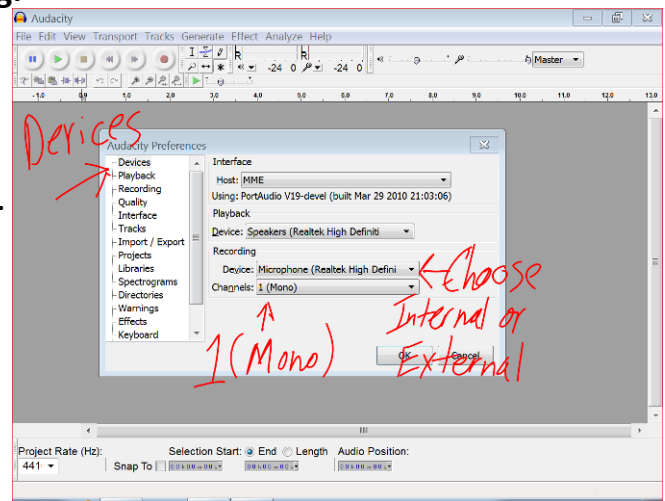
1. Touch screen computer –HP Touchsmart 9100
 - a. Touch screen ability not required
 - b. Any touchscreen will work regardless of brand as long as it has Vista or Windows 7
2. Blue Icicle Mic(XLR)-to-USB Convertor (any Mic-to-USB convertor will work)
3. Shure KSM-32 Condensor Mic (any mic will work)
4. Projector and Screen (any brand will work)
5. (Not Required) Ipad 2- may use Ipad 1, Kindle Fire, Nook, HP tablet with webOS 3.0.2+
TouchPad- used to get the off podium and control computer connected to projector from anywhere in the room

Audacity- Showing musicianship: beginning/ends of notes, sustains, articulation, dynamics and phrasing -google audacity for free download (must have admin rights on school computers or have Tech Person come install it)

<http://audacity.sourceforge.net/>

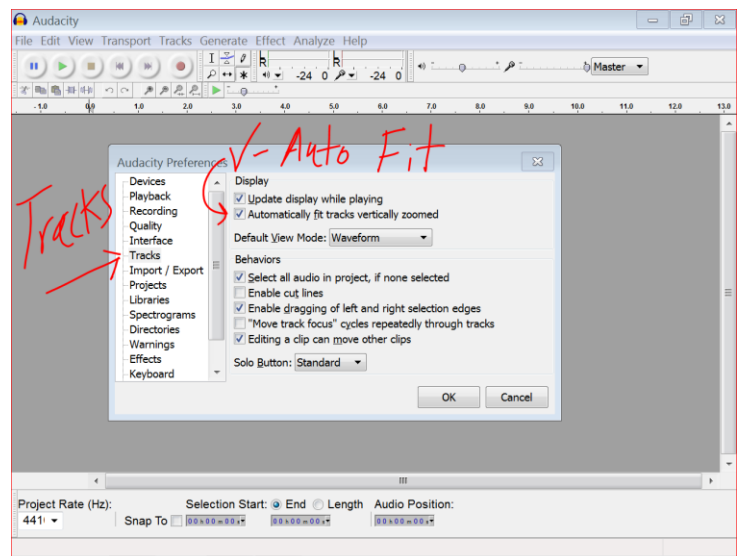
Input/Output Set-Up: Audacity will automatically set output and input will default to built in mic if available. You may use built in mic or any USB mic. We use a (xlr)mic-to-usb convertor called the Icicle,made by Blue, that has phantom power so you can turn any mic into a usb microphone. It even has input volume(gain) control knob for adjustment and lights up so you know it's working.

1. **Record Set Up** -Press Ctrl P and left click on "Devices" to highlight.
2. **Find Record under Recording** - left click on triangle and select your recording device.
3. **Find "Channels" under Recording-** left click on triangle and select 1(MONO).
4. Left Click OK.



Display Set-Up

1. Press Ctrl P and Click on Highlight "Tracks".
2. Left Click in the "Auto Fit Tracks Vertically Zoom" box to activate.
3. Left Click on OK to finalize set up.



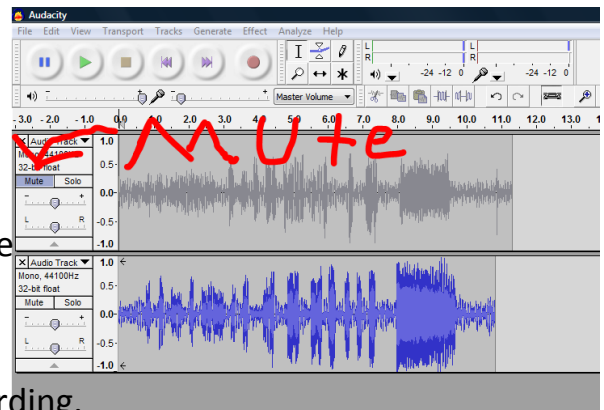
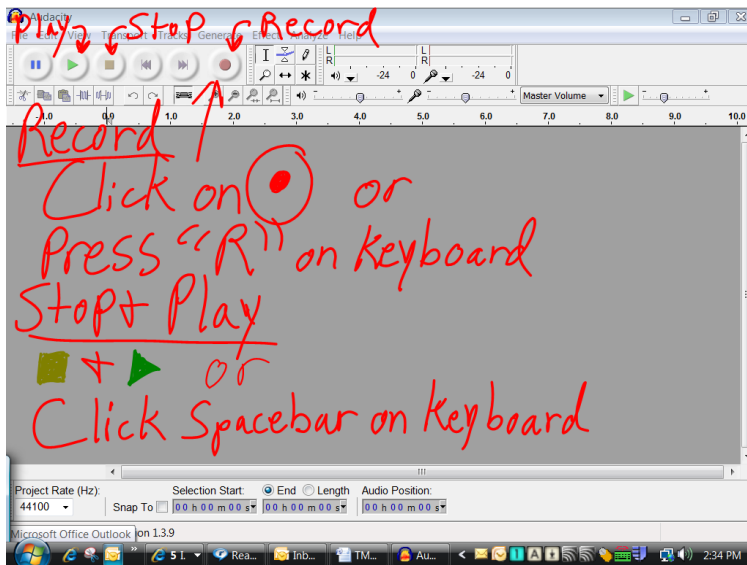
Recording and Playback Controls

On Screen

1. **START RECORDING**- click on Red Circle
2. **STOP RECORDING**- click on Square
3. **PLAYBACK**- click on Green Triangle
4. **TIME ZOOM IN**- click on view & zoom+
5. **TIME ZOOM OUT**- click on view & zoom-

On Keyboard

- or Press "R" on keyboard
- or Press Spacebar
- or Press Spacebar again
- or Press Ctrl 1
- or Press Ctrl 3



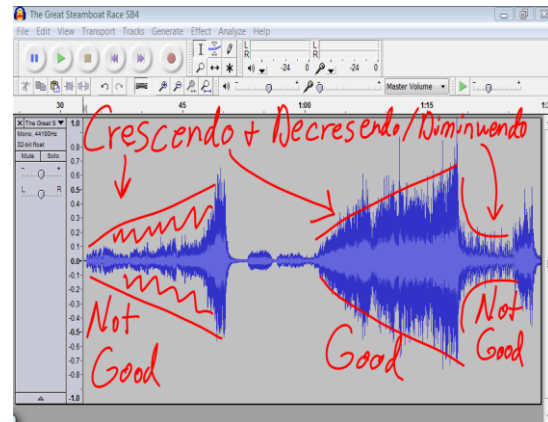
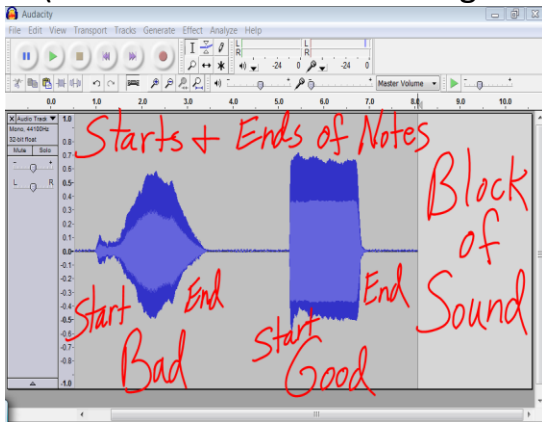
6. **RECORDING ANOTHER TRACK** for comparison
 - a. Click on the mute button at the far left of the 1st track or ctrl-U (first track will play thru speakers if you do not mute) then click "R" and another track will automatically start recording.

7. PLAYBACK- NOT FROM BEGINNING

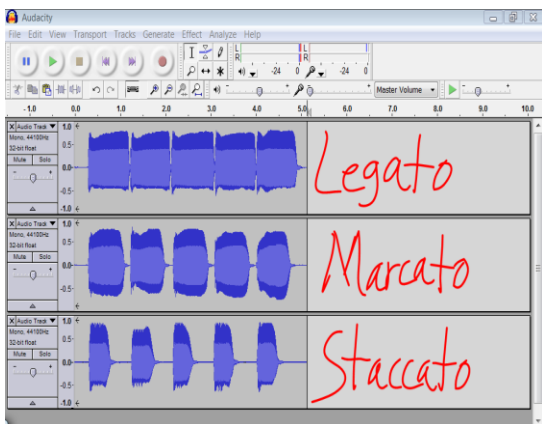
- a. Place cursor on waveform where you want start playback and click once and what looks like a barline will appear.
- b. Then press spacebar or click on Green Triangle at top of screen to start playback.
- c. To start at beginning again repeat step "a".

Demonstration of Musical Concepts

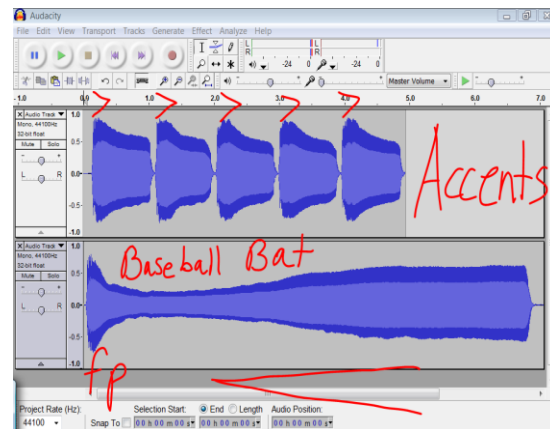
1. Demonstrating Block of Sound
(Bad & Good Starts & Ending of Notes)
2. Crescendos and Decrescendos/Diminuendo



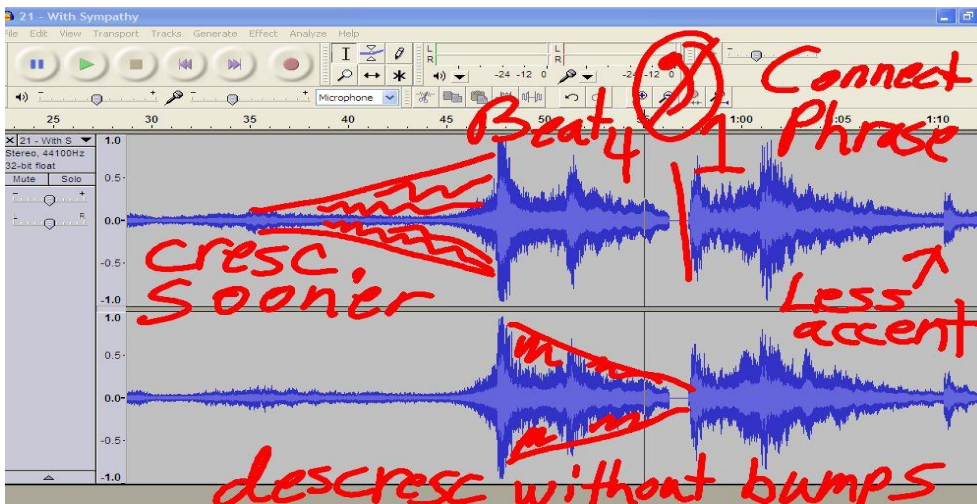
3. Articulations-
Staccatos, Marcato, Legatos



4. Accents and fp cresc.

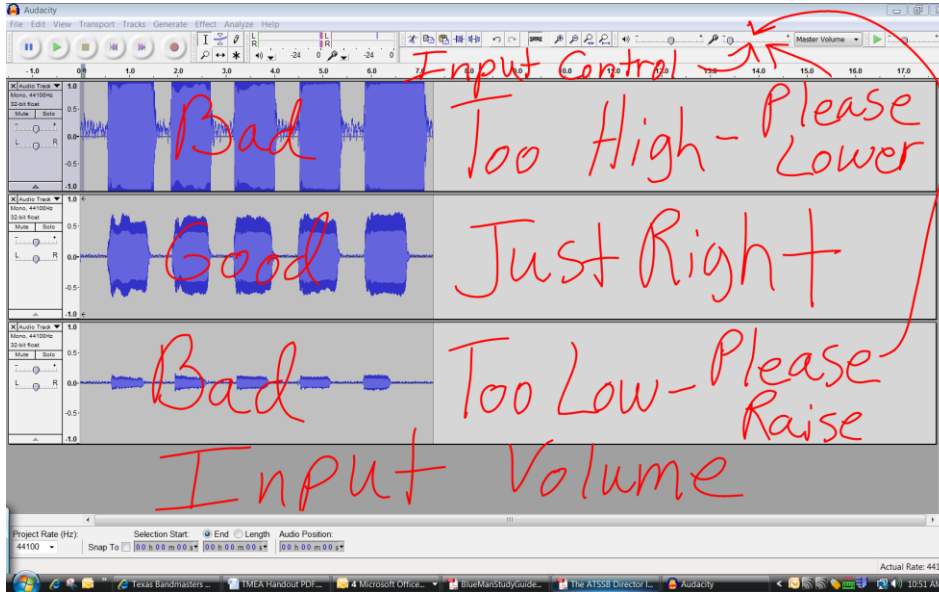


5. Phrasing



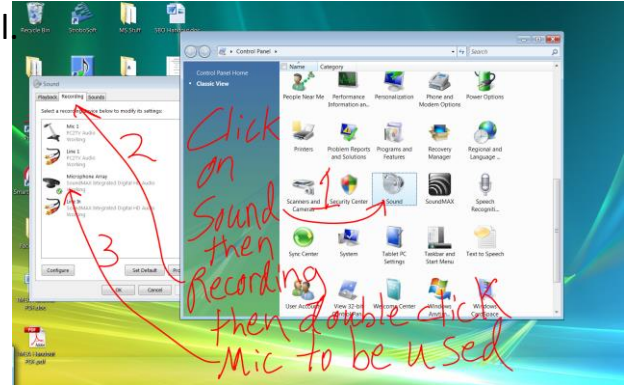
Troubleshooting too much input volume (raspy sounding recording)

1. While recording, if track screen is completely filled with blue then you must lower the microphone input gain(volume) located at the top of the screen and is represented by a handheld mic. Lower the gain while recording until wave peaks do not touch outside edges of track window.

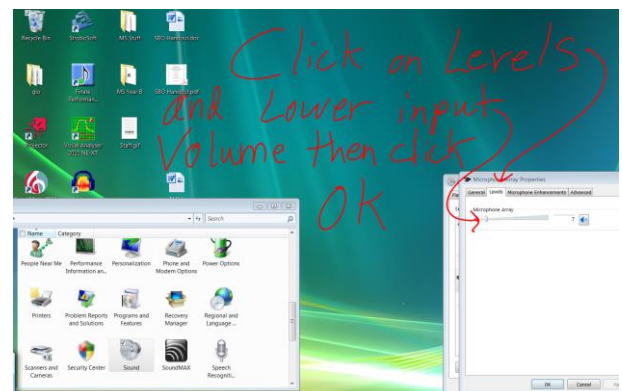


2. If the input is still too high then you will need do the following steps.

- Click on start menu and select control panel
- Click on sound icon.
- Click on recording.
- Double Click on microphone to be used.



- Click on Level and lower the input volume.
- Click on OK.
- You will have to exit audacity and restart for changes to work.
- If input is too low then raise it using Step 1 from above.



Annotating for Everyone-not required but helps with visualization

Snipping Tool- pre-installed on computers with Vista or Windows 7. On XP operated computers you will need to google- “Just Write Office” and purchase by credit card from the European division of Wacom Industries. If you don’t know which operating system you have you can ask your Tech Person at school

1. Finding Snipping Tool

- Click on start menu at bottom left of screen and click on Accessories Folder
- Snipping Tool(scissor logo) is located about half way down
- At this point you can create a Quick Launch F-Key or Quick Launch Icon from directions located on page 1

2. Using Snipping Tool**

- Once the Quick Launch F-key is set up Click “F1” or
Once the Quick Launch Icon is set up click on the scissor icon located in the Taskbar at the bottom left of the screen
- Then click on triangle next to “NEW” and select Window Snip. After doing this a red borderline will appear around the perimeter of the actively used screen.
- Click anywhere on the screen and it will create the transparency to start annotating.
- Step “b” on needs to be performed the first time after which you should automatically see a red borderline as soon as you start the snipping tool and Click anywhere on the screen and it will create the transparency to start annotating.
- Start annotating on screen. For maximum time efficiency use a touch-screen computer (available for as little \$600) or touchscreen monitor (available for as little \$300) but is not required. You can still use a mouse or any pen enabled tablet such as a Bamboo from Wacom Industries (about \$75 available at electronics store or online), CPS Chalkboard from E Instruction, or other education specific input tablet

****Regardless of input device, it is absolutely necessary to set up a quick launch for the snipping tool in order to have a time efficient rehearsal****



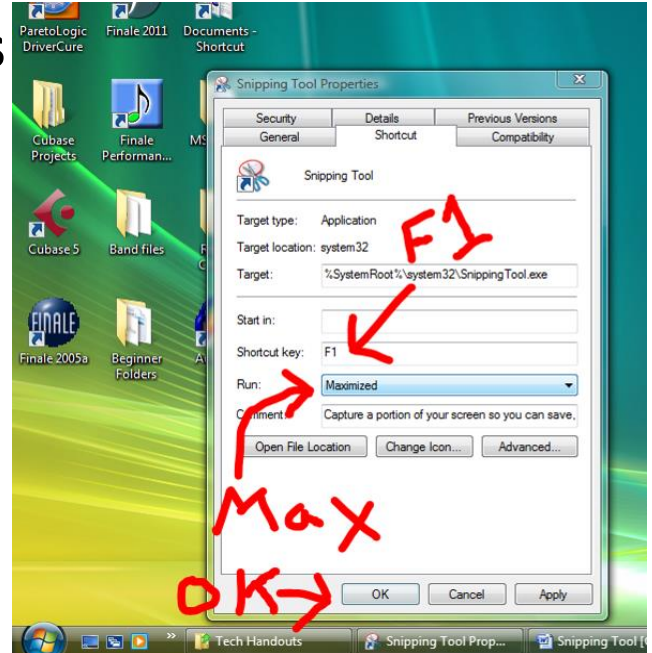
Opening Programs Made Easy

****In order to have a time efficient rehearsal and not feel like this is taking time away from class you **MUST NOT** skip this page, otherwise you will have to be fishing around the screen to start these programs and classroom management will be affected.****

Creating Quick Launch F-Keys

(Admin Rights Required)

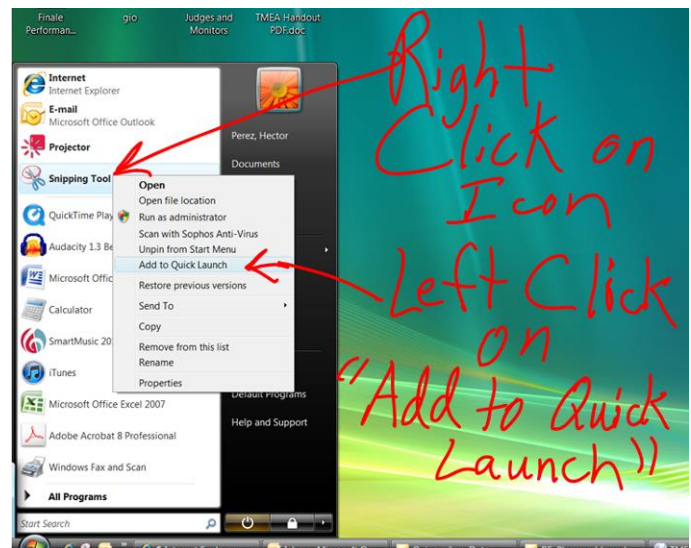
1. Locate program in start menu or icon on desktop
2. Right click on icon and click on "Properties" at the bottom of the pop up screen.
3. Click in the Shortcut box and press the F-Key you want to assign that program. The F-Key will appear in the box (typing in F1 will not work).
4. Click on the "Run" box located just below step 3. and click on maximized
5. Click "OK" and press the F-key you assigned to see if it starts the program
6. For more Quick Launch F-Keys repeat steps 1-5



Creating Quick Launch Icons

(Does NOT need Admin Rights)

1. Locate program in start menu
2. Right click on icon and left click on "add to quick launch"



My F-Key assignments

- F1- Snipping Tool
- F3- Audacity
- F5- Smartmusic
- F7- Visual Analyzer 2011
- F9- Musescore (free notation software)

Program Logos have been cut and clear taped on my keyboard above F-keys for ease of identification. Feel free to cut out the following logos to place on your keyboard



Remote Desktop for Ipad or Tablets

Run your computer from anywhere in the room. **Splashtop Whiteboard** is only available for Ipad 1 or 2 (contains easy to use annotation software). **Splashtop Remote Desktop** software (will need to use snipping tool for annotation) will work with tablets with Android 3.1 or newer, Kindle Fire, Nook, HP tablet with webOS 3.0.2+ TouchPad

1. Ipad install **Splashtop Whiteboard** - Install from www.splashtop.com or directly from Apple App-Store
2. Android, Nook, Kindle Fire, HP install **Splashtop Remote Desktop** - Install from www.splashtop.com, directly from Android Market, or Nook/Kindle store
3. Install **Splashtop Streamer** onto desktop connected to projector - download and install from www.splashtop.com

This is a great tool for those of us that want to run audacity, smartmusic, finale, or any other program that there is no app for and also allows us to step off the podium to actively monitor individual student progress up close.

Splashtop Whiteboard



Splashtop Remote Desktop



Annotation Tool in Whiteboard

Overview Reqs. Control Annotate Lifeline Gallery Feedback

Annotate over ANYTHING - Use gestures to draw, highlight, or write over any content. Take snapshots of the screen and save them to the gallery then email the snapshots to students, parents or colleagues. Use different colored and sized pens, highlighter, shapes, and text tools over existing content or background templates. Everything you do is displayed on the projector connected to your PC or Mac!

Floating toolbar contains all the tools you need

Annotate over Keynote

Let kids annotate over web content

Background templates offer a quick way to create blank, graphed or ruled sheets, so you can quickly jot down your ideas.

Virtual keyboard allows you to type in a URL or edit a document directly on your iPad without walking back to your computer.

Keyboard will change based on whether you are connecting to a PC or Mac.

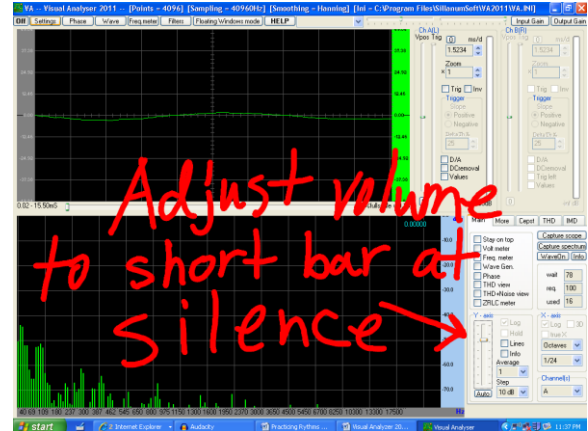
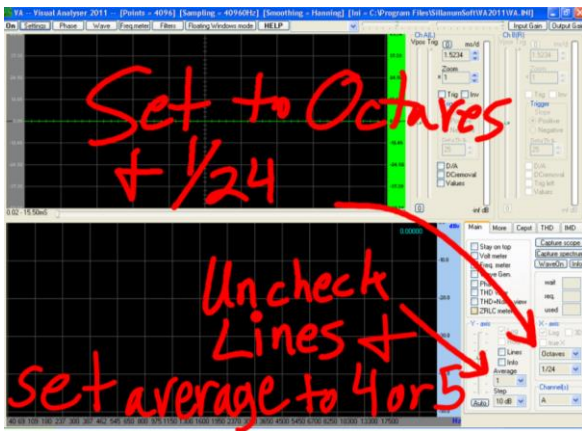
Use the two-finger flick gesture to show or hide the toolbar to maximize what is displayed on the projector.

Visual Analyzer 2011- Audio Spectrum Analyzer

Google for free download- <http://www.sillanumsoft.org/download.htm>

Setup Instructions once installed

1. Y-Axis box: Uncheck Lines box.
2. Blow lines box set average to 4 or 5.
3. X-Axis Box: Set to Octaves and 1/24.
4. Click "On" button at top left of screen.
5. Adjust input volume to where bars (looks like grass) just barely disappears.

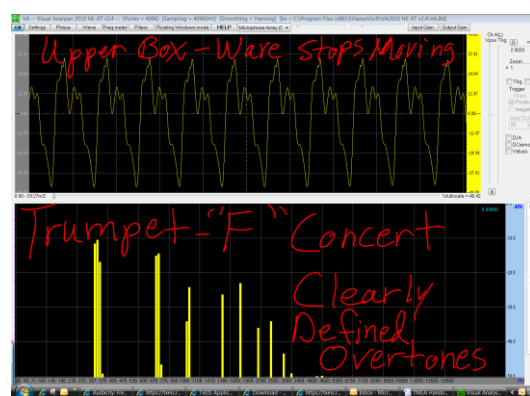


Individual Tone Quality

BAD



GOOD

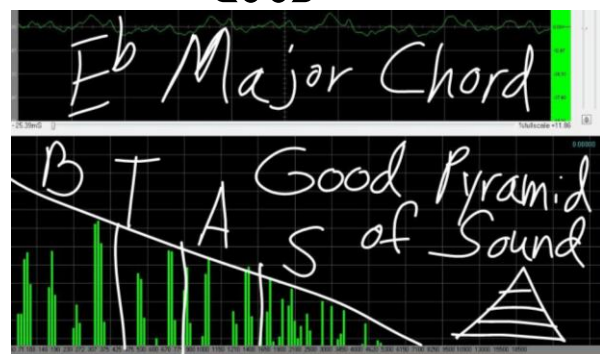


Band Tone Quality

BAD



GOOD



Hand held digital devices

Hand held portable devices such as ipads, Ipods, Iphones, android devices, tablets etc. can be incorporated into your rehearsal with ease. They can add mobility to your rehearsal as well as opportunity for immediate feedback to the class. You can become better organized and complete work on the go.

Getting organized

Ebackpack- cloud based

Gig easy

Pia Score

Unrealbook

Rehearsing/Practicing

Recording-

Built in capabilities.

Apps-Tascam, Ubersense, Practice Center, Twisted Wave(like Audacity), Tonal Energy

Metronomes-

Frozen Ape, Practice Center, Band Tools, Tonal Energy,(Drum Loops make fun metronomes)

Tuners-

Cleartune, Band Tools, Tonal Energy, MetroTimer, iTuner, n-Track Tuner, Piano Tuner, Pitch Lab, In-Tone

Scales-

Scale Master

Improvisation-

iImprov, Band-In-A-Box, iReal Pro, Jazz Chords

Theory/Games-

Tenuto, Rhythm Cat, Play pad, Music Lab, Note Works, Music Tutor,

Keyboard

Virtuoso

Marching Band

DrillBook Next