

MUSIC TECHNOLOGY 101

THE BASICS OF MUSIC RECORDING, CREATING, AND PRODUCTION

75th Midwest Clinic

Wednesday, December 15, 2021

Clinician: Heath Jones

ABOUT ME...

- **BMus - University of Georgia, 1994**
- **MM - University of South Carolina, 1996**
- **High School Band Director, 1996-2011**
- **Middle School Band Director, 2011-2016**
- **Middle School Music Tech, 2016-present**



Music Technology

What?

Why?

How?

What?

Music Technology is an artistic discipline that uses technology to create, capture, manipulate, and edit sounds to produce a final product that achieves a specific artistic, expressive, and functional goal.

Why?

2017 Give a Note Foundation: The status of music education in United States Public Schools

The Hechinger Report: non-profit, non-partisan, research based education journalism specializing in education issues.

PARTICIPATION

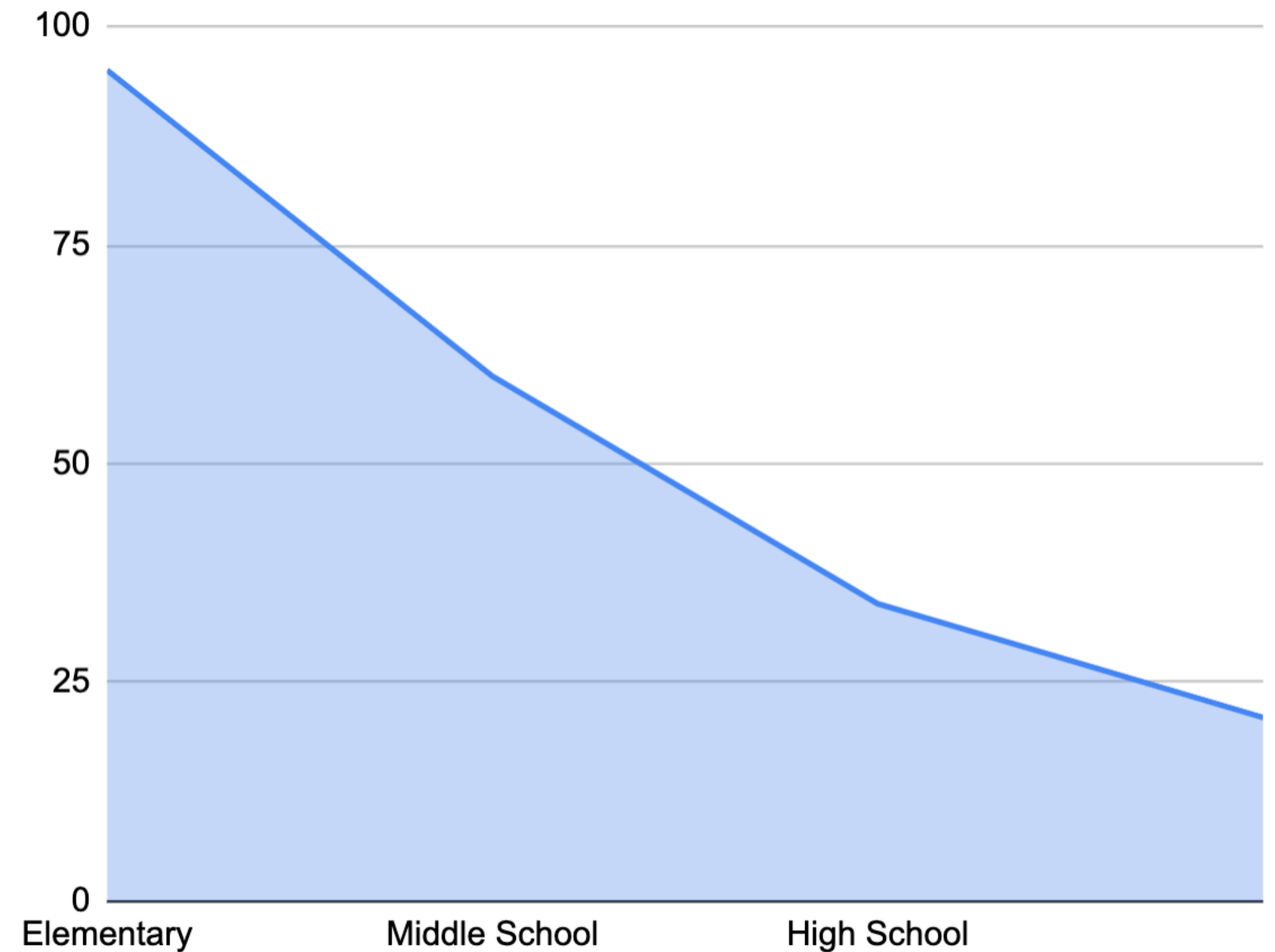
PERCENTAGE OF STUDENTS IN A MUSIC COURSE BY GRADE LEVEL

Elementary School: 95%

Middle School: 60%

High School: 34%

High School Seniors: 21%



CURRICULUM

MUSIC COURSES OFFERED BY GRADE LEVEL

Elementary School: 93% General Music only

Middle School: 75% Band, Choir, Orchestra only

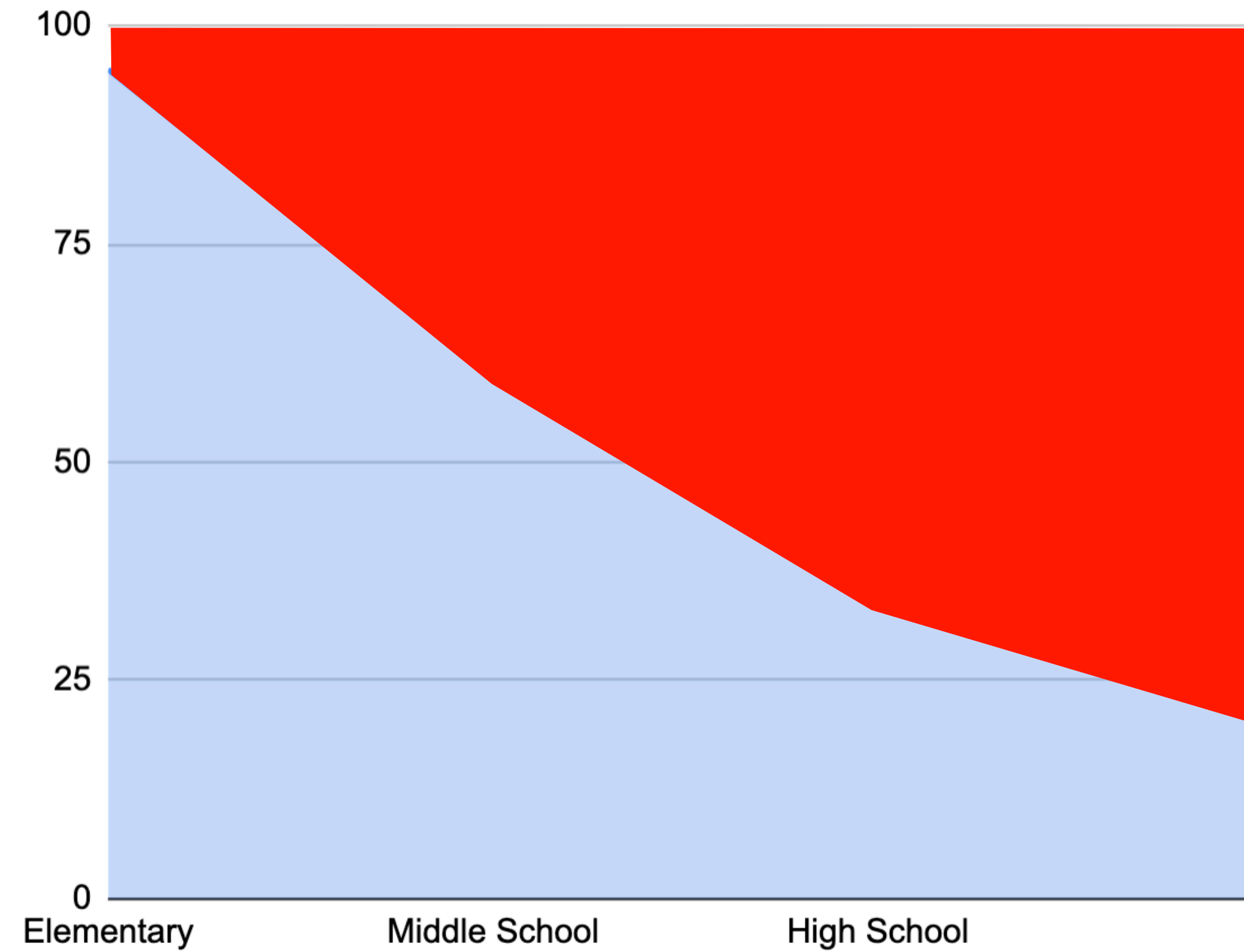
High School: 70% Band, Choir, Orchestra only



“WITH FEW EXCEPTIONS, MUSIC EDUCATION CONTINUES TO BE DOMINATED BY THE TRADITIONAL ENSEMBLES... YET, MUSIC EDUCATORS, AND OTHERS WANT TO EXPAND THE WAYS IN WHICH STUDENTS ENGAGE WITH MUSIC IN SCHOOLS.”

FROM KEY TAKEAWAYS, THE STATUS OF MUSIC EDUCATION IN THE UNITED STATES, GIVE A NOTE FOUNDATION.

WHAT ABOUT THE OTHER 70%?



Music Technology Course

Diversity

Social & Cultural Relevance

Expanding Career Field

Opportunities for Collaboration

Music Technology Course

Should not adversely impact program enrollment.

Net result..?

More students involved in creating music!

How?

Lab

Lab

Student Workstations

Student Workstations

PCs, Chromebooks, iPads, Macs

Digital Audio Workstation: 'DAW'

MIDI Controller

Microphones

Student Workstations

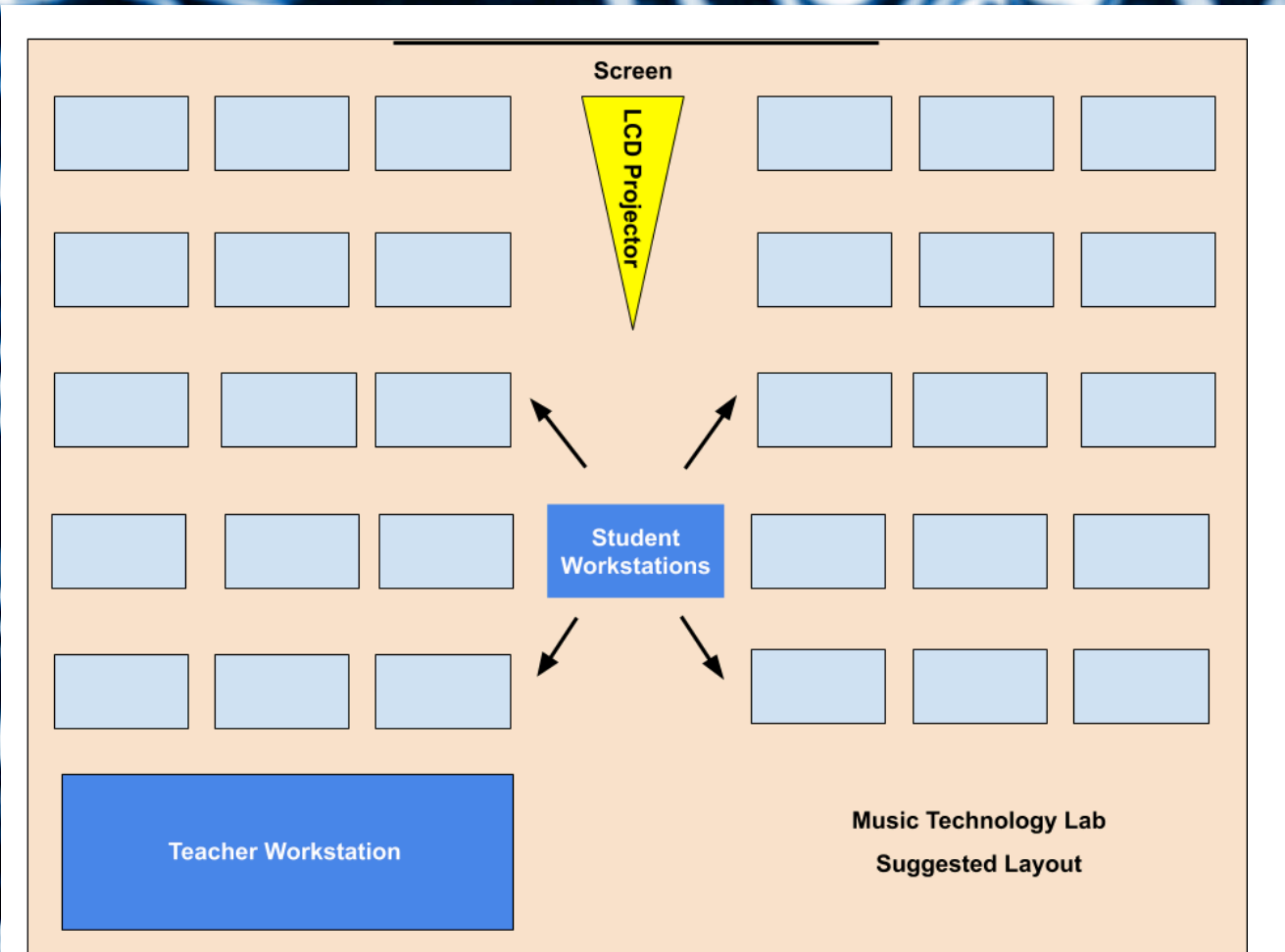
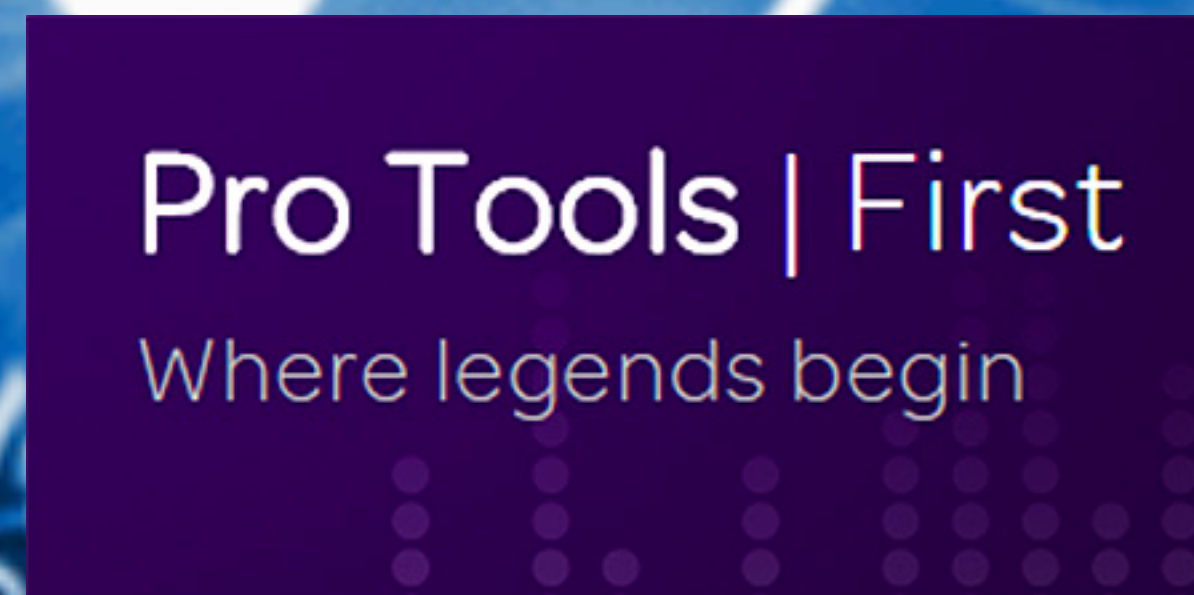


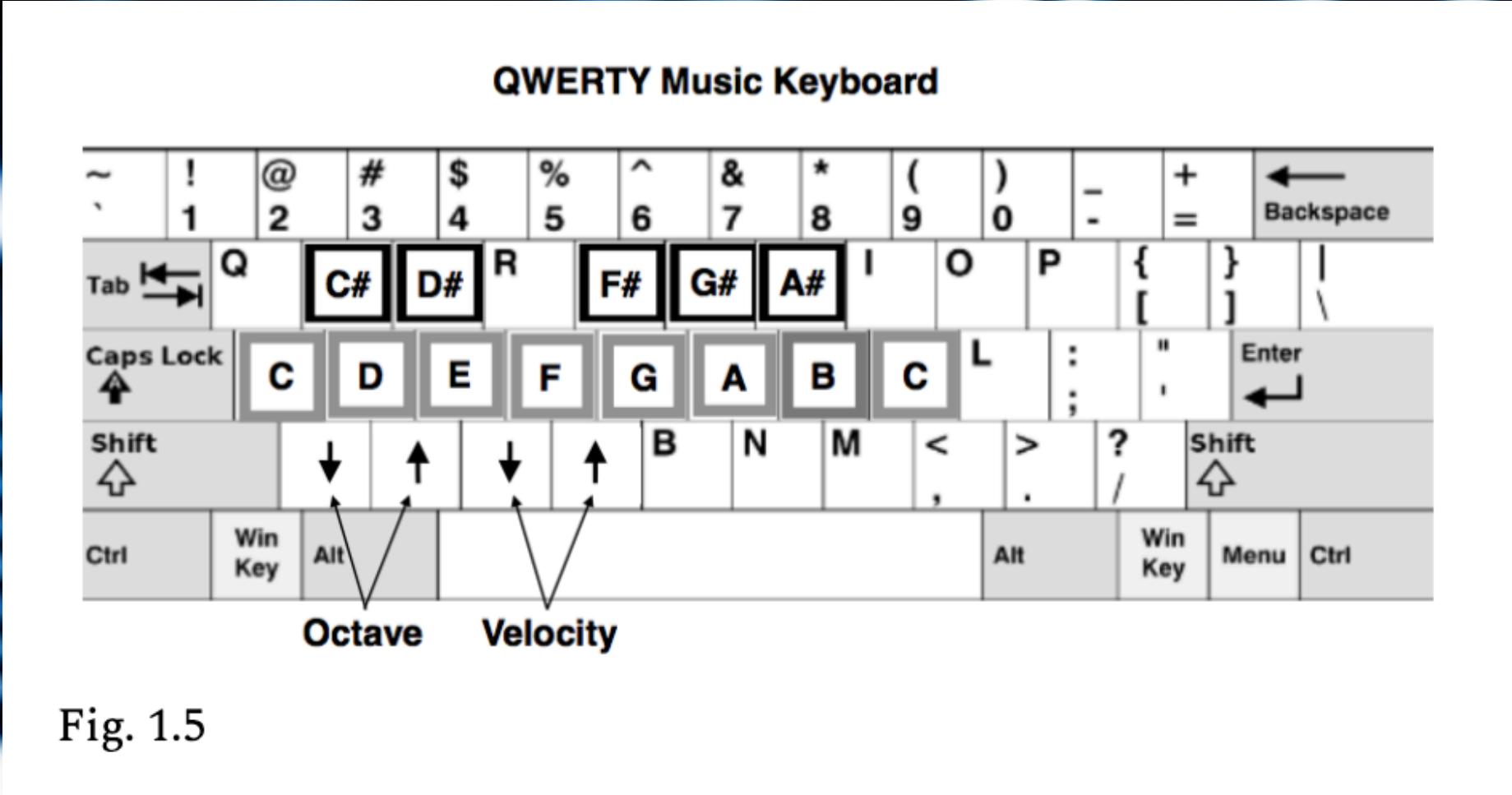
Fig 1.1

PCs, Chromebooks, iPads, Macs

Digital Audio Workstation: 'DAW'



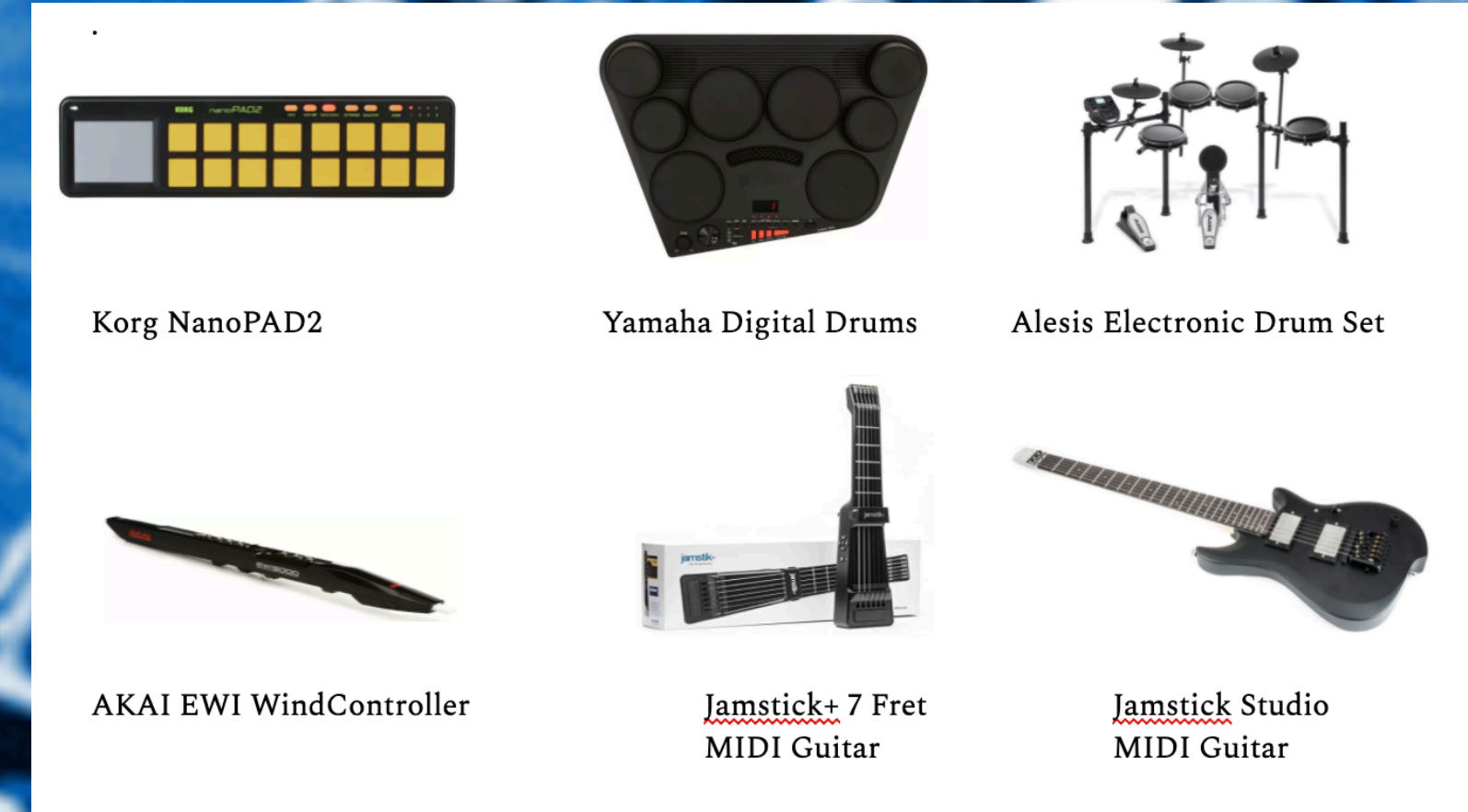
MIDI Controller



Native Instruments Komplete Kontrol A49



Yamaha MX 61 MIDI/Synthesizer



Microphones



Blue Yeti 	Samson Meteor 	Audio-Technica AT2020USB 
Shure PG42 	Samson Go Mic 	Blue Snowball 

**AND DON'T EVEN MESS WITH US, YOU SON OF A B!TCH! NEVER
HAVE ANYTHING TO DO WITH US! WE'RE RUSSIA! WE WANT IT!**

Developing a Curriculum

Key Concept

You're not teaching technology, you're teaching music!

The technology is the
instrument of musical
creation and production.

Curriculum is built around
the five elements of music.

Rhythm

Form

Harmony

Melody

Expression

Rhythm

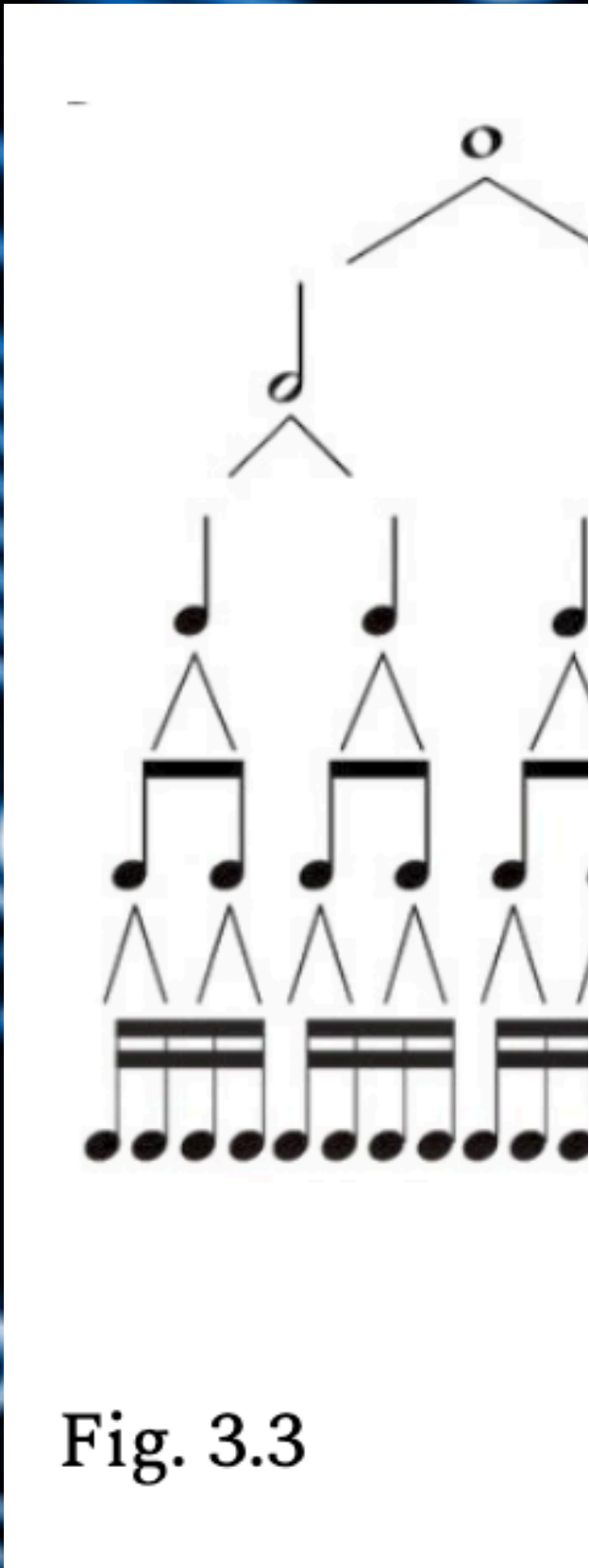


Fig. 3.3

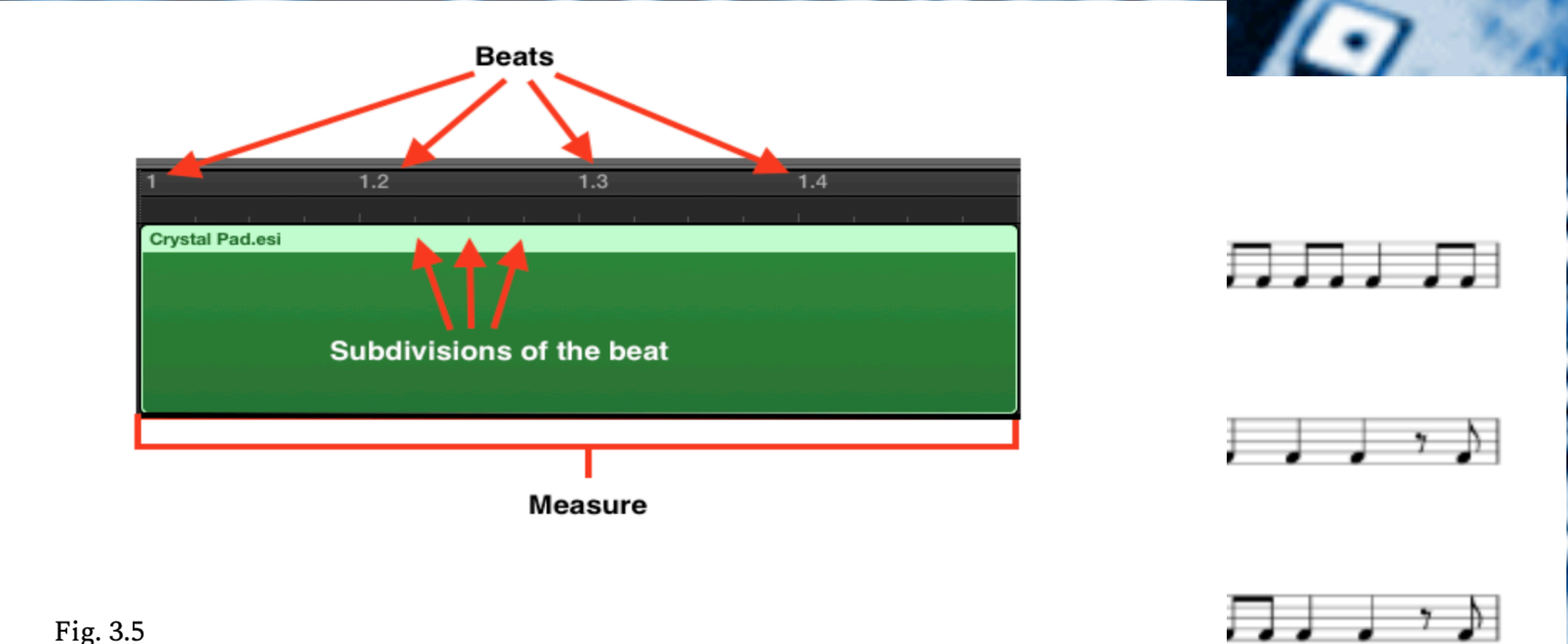


Fig. 3.5

The digitally notated rhythm tree can then be expressed as illustrated below (Figure 3.6).

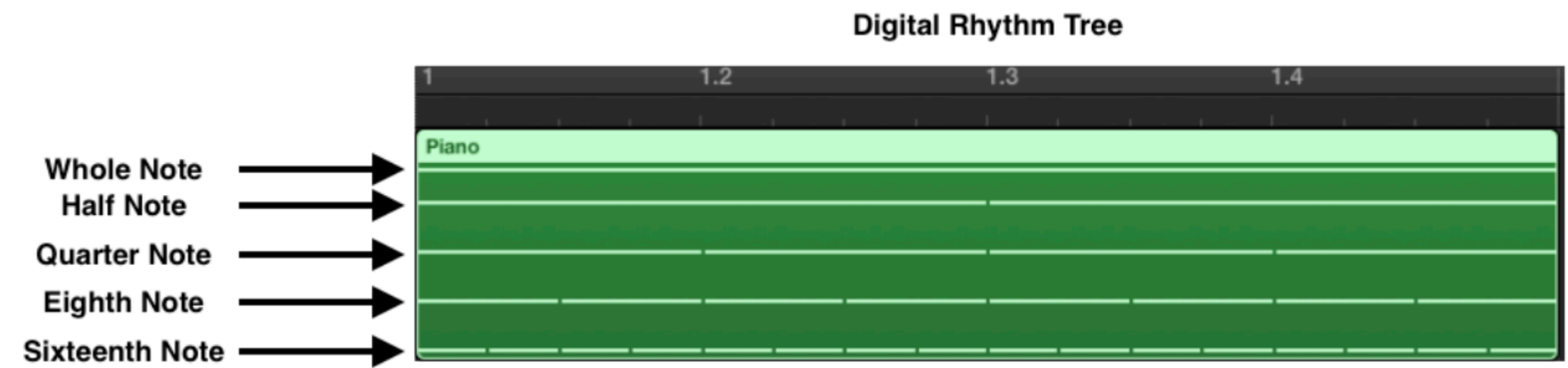
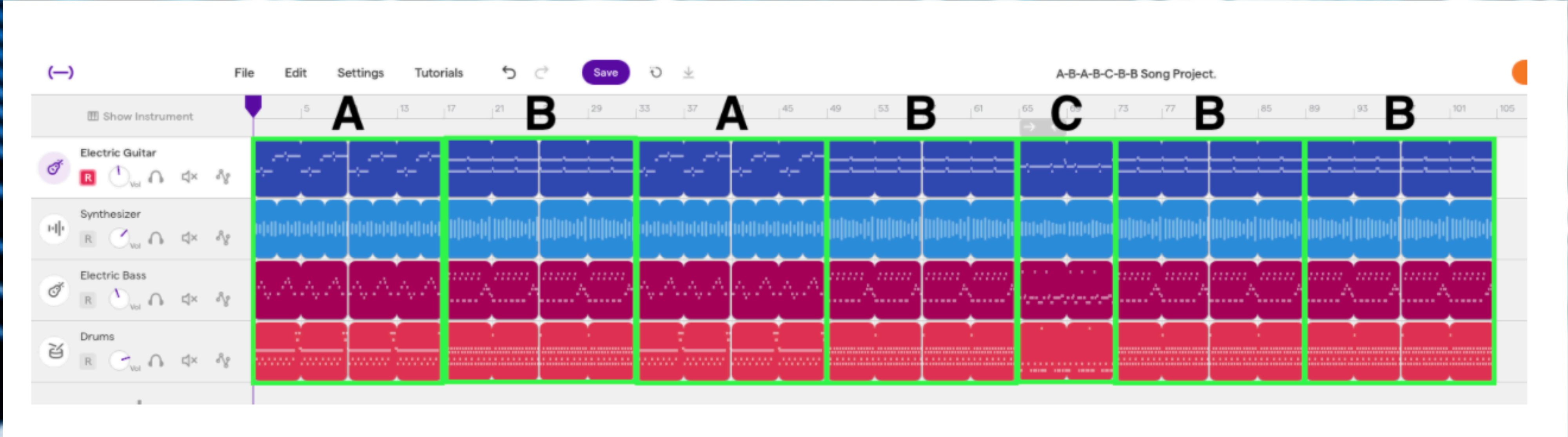


Fig. 3.6

Form



Harmony

Music notation software interface showing a piano roll for a "Classic Electric Piano" track. The interface includes a piano keyboard on the left and a timeline at the top.

Timeline:

- 1
- 1.3
- 2
- 2.3
- 3
- 3.3
- 4
- 4.3
- 5

Track: Classic Electric Piano

Keyboard Labels: C3, C2, C1

The piano roll displays green horizontal lines representing notes across the timeline. The notes are organized into measures, with some notes spanning across measure boundaries. The keyboard on the left shows the layout of the piano, with white and black keys, and the labels C1, C2, and C3 are visible.

Melody



Fig. 6.1

Melodies can also have a fairly flat contour and limited range with a lot of repetition (Figure 6.2)

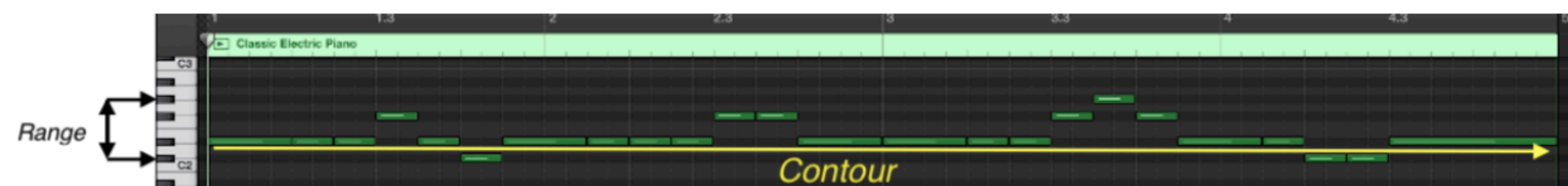


Fig. 6.2

The notes of the melody can jump and skip around, and the melody does not have to always end on the note that it started on (Figure 6.3). The variety and possibilities are almost endless.

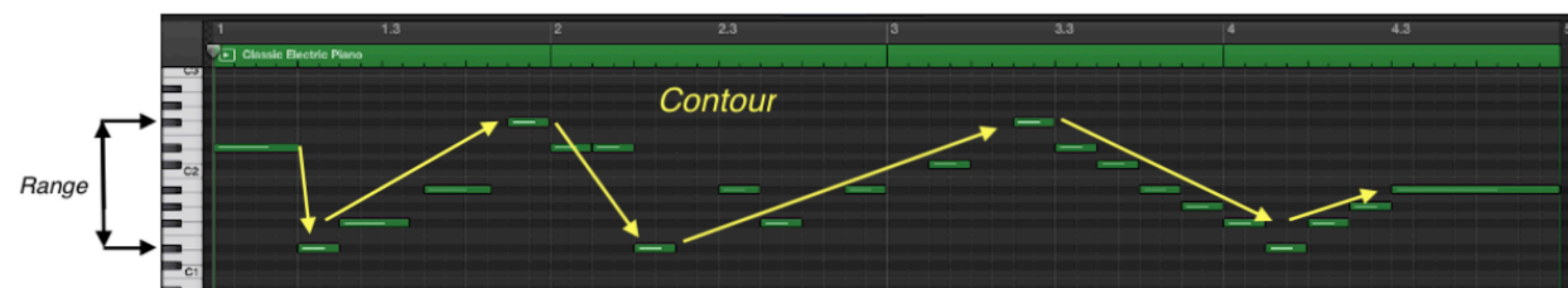
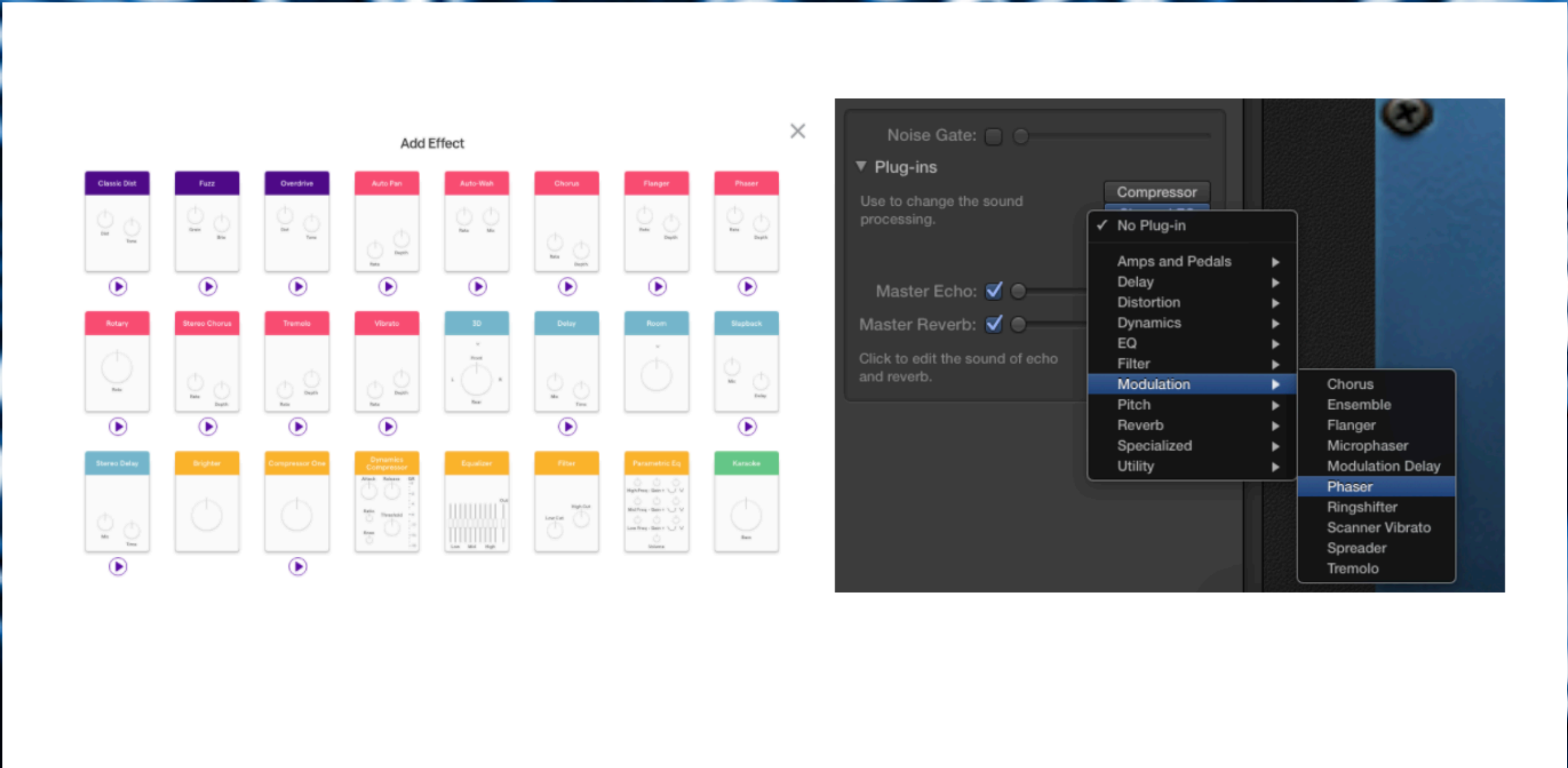


Fig. 6.3

Expression

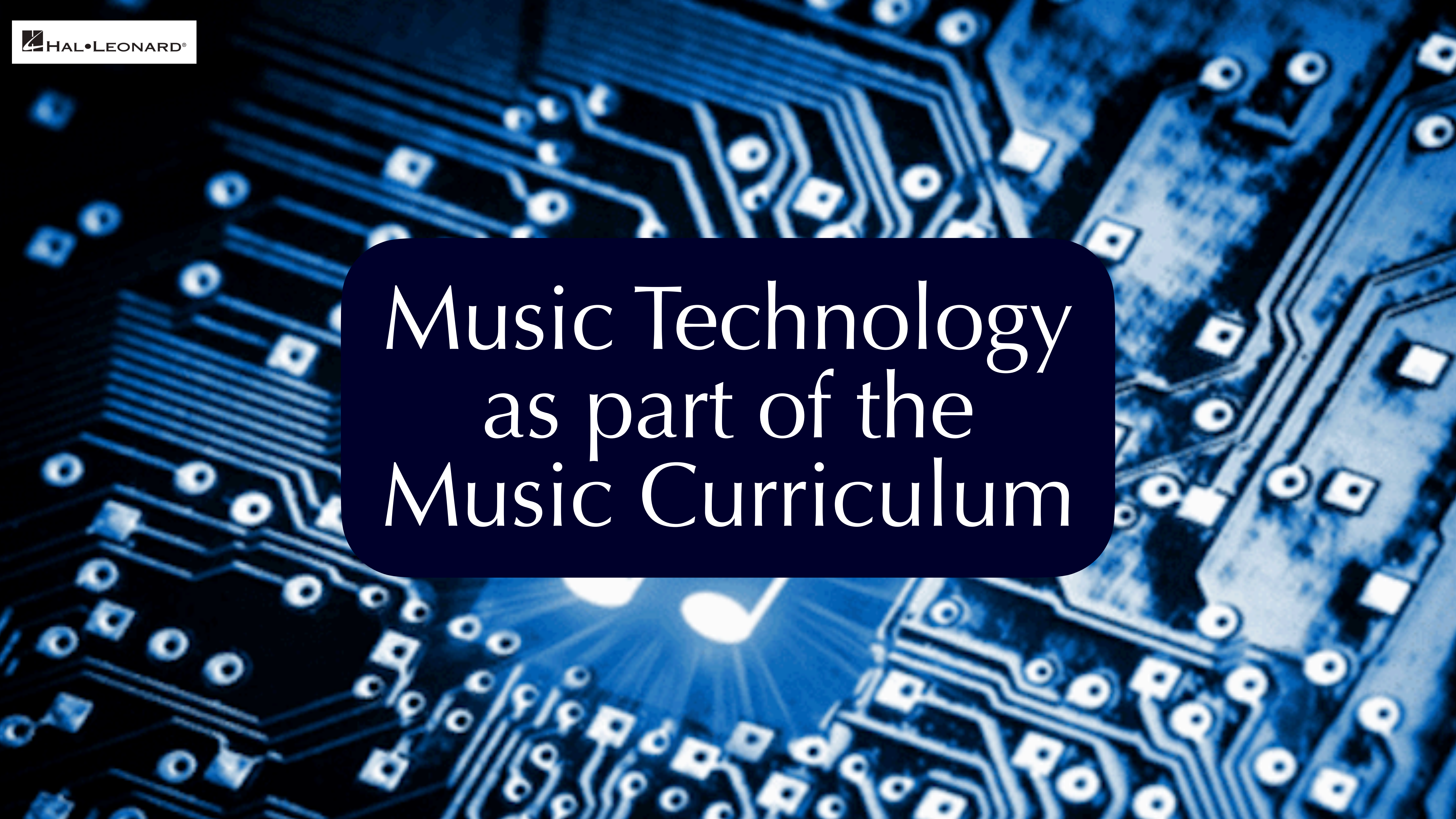


The role of the Music Producer

Critical Listening

Analysis

Leadership



Music Technology as part of the Music Curriculum

Opportunities for Collaboration

^ Composition+Productions

What could be the impact of adding a music technology program to your school's curriculum?

HAL LEONARD

I will be at the Hal Leonard Music Technology booth for further questions or discussion from

3:00pm-5:00pm

EXHIBIT HALL BOOTH #1701

MUSIC TECHNOLOGY 101

INCLUDES
VIDEO
TUTORIALS! 

The Basics of Music Production in the
Technology Lab or Home Studio

BY HEATH JONES



RESOURCE LINKS



CONTACT OR FOLLOW ME AT:

