Collaborative Musical Analysis: The Integration of the Tablet PC into the Theory Classroom

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Image 4:

Dyknow

Collaborative

software. This

Abstract

The teaching of musical analysis has virtually remained unchanged for the past century. Students are required to look through the printed score while marking changes in key, form, and musical structure. The instructor must spend a significant amount of time guiding the student through the musical score, step by step. Students often have a difficult time maintaining placement in the score while the instructor is speaking. One of the greatest downfalls of this current system is the fact that the students are limited to the amount of music that they are able to focus on at a given time.

Over the past three years, the faculty at Appalachian State University has integrated the Tablet PC into the music theory classroom. Undergraduate music students now have the ability to create musical analysis files using the Tablet PC. A recent study at alachian State University examined the benefits of the Tablet PC in regards to collaboration and cognitive learning. A secondary goal of this study was to create an awareness regarding the benefits of the Tablet PC through an open-source website highlighting student musical analysis.

Stages of Implementation

· Single tablet used by instructor (Spring 2007) Tablets used in summer graduate course (Summer 2007) · Tablets used in upper level undergraduate course

(Fall 2008) Tablets used in multiple graduate and undergraduate

courses (Spring 2009-present)

Funding

- Microsoft Tablet PC Award
- Appalachian Foundation Fellows
- Academic Affairs
- Haves School of Music

Courses

- Theory III/Aural Skills III
- Theory IV/Aural Skills IV
- Theory V
- · Analytical Techniques
- · Pedagogy of Music Theory
- Choral Literature
- · Marching Band Techniques









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Image 6: eenshot from DyKnow with new PowerPoint capabilities used in Theory IV. Students were asked to complete basic formal analysis and harmonic analysis within pre-set groups

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- Encourages collaborative learning both in and out of the classroom
- Students are more involved in discussions within the classroom setting
- Students are able to follow the instructor
- Students can now see the big picture of music, from the smallest details to the larger, structural design Students are given feedback in real time
- Instructors can save graphic analysis for next class period or send analyses to students via e-mail
- Accountability from the students
- Instructors can grade directly on tablet and e-mail or IM students results
- Significant changes in classroom participation and discussion

"Comparing student work led to discussions of strategy, vocabulary and context - bringing them to see multiple vantage points of the same passage. This high level of risk taking and ownership in the learning process is rare in the traditional classroom.

(Dr. Susan Piagentini, Northwestern University, Lead Evaluator for Microsoft Study)

Future Plans

- Participate in a DyKnow/Microsoft Case Study
- Develop and publish articles regarding usage of tablets Create a collaborative classroom with another Tablet
- University for music analysis Secure funding for Tablet upgrades by 2011
- Develop summer TI:ME workshops for K-12 teachers in
- music pedagogy and technology

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- Charles Meadows, Former Graduate Assistant

For further information

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