

Project Year

2001

Project Team

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Project Title

Computer Aided Practice in Music

Audience

Over 200 students per year enrolled in *Theory I* and *II* courses.

Pedagogical Issue

Music theory, especially music analysis, is a skill that must be practiced, just like playing an instrument. However, students of music theory typically experience insufficient practice on fundamentals.

Solution

This project team proposes to create an easily accessible environment that encourages the development of analytical practice skills. We intend to create a software program in C++ that will allow students to practice music theory fundamentals, specifically chord analysis and construction. This tool will automatically generate computer drills and provide as much practice on fundamental skills as is needed by any student. Students can repeat exercises with the tool to increase their accuracy and speed. The drills will be linked to the textbook so that students can practice the specific skills covered in each chapter in class. The tool will provide feedback on performance, identify four-voice chords on a standard piano staff, create chords when given their definition, and resolve four-voice chords with a second chord.

Technologies Used

C/C++