Western music generally adopts the one and the same pitch organization, namely 12 pitch classes per octave, divided into equal steps. Ethnic music adopts different classifications that cannot be grasped within the Western musical idiom. Tarsos tries to offer a method that will help us determine and analyze these pitch classes. Illustrated below is an example of pentatonic pitch scale. The dotted lines represent the Western pitch class histogram. The 5 peaks illustrate deviations.

Tarsos is a software that extracts pitch from audio sets. These ‘annotations’ are the starting point to determine the pitch classes through graphic visualization and peak detection. The pitch classes are being assigned automatically or manually and immediately a pitch class interval table appears which clearly shows how it differs from Western pitch. By clicking on the graph and table, you can listen to the pitches.

Tarsos gives ethnomusicological research the opportunity to determine pitch classes in a simple way. This paves the way for interesting research like geographical spreading and time-related evolutions. The results of Tarsos can be saved as a graph or as a text, but can also be sent to a MIDI synthesizer which allows you to play according to the same pitch class as the one in the annotated piece of music that you just analyzed. Tarsos Live offers real-time analysis which allows playing along with musicians that use an alternative tuning.

Download: [http://tarsos.0110.be](http://tarsos.0110.be)
Info: Joren.six@hogent.be, Olmo.cornelis@hogent.be Promotor: Prof. dr. Marc Leman