

Rhythm is an important part of music. It is easy for humans to hear or feel the rhythm of a song, but automatic rhythm recognition is a complicated task. In this work, we introduce an algorithm for automatic rhythm recognition in songs with constant tempo. The algorithm follows these steps: onset detection, tempo analysis, beat detection, and rhythm detection. We introduce different approaches for each step. The goal is to compare the approaches to find the best one. We provide a Python package implementing all of the described approaches and steps. We also conduct experiments to determine the best approach in each step.