Merci AK.2 (V1) Report Rythmic synchronisation

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The main feature osf the Djazz improvisation software, which is currently being redesigned by Mikhail Malt with the aim of distributing it freely in 2022, is that it manages a regular pulse underlying the music. During experiments with musicians, this feature has brought to light a set of issues around the idea of synchronization. In jazz and world music, the synchronization of musicians allows for certain micro-shifts that are then compensated for to maintain an overall regularity of tempo, but which give musicians flexibility when improvising to let their imagination run wild (Chemillier 2019; Doffman 2008). These microvariations that constitute rhythmic interaction are absent in music based on a metronomic tempo.

In the investigation of the TikTok network, this issue of tempo micro-variations came up in the practice of dueting. When one wants to use the Djazz improvisation software to duet with a TikTok video, what if the tempo of that video is not completely regular? As with the software in a jazz or world music band, we use a Djazz feature that allows us to synchronize the phrases calculated by the computer with a manual beat. Most TikTok musicians who play alone do so without a metronome. But the metronome is used whenever musicians use rerecording to record several parts or when they publish a video proposing to do a duet in order to facilitate the synchronization of potential duetists. During TikTok message exchanges with one of the musicians we duetted with, he said "I record about 20% of my videos with a metronome", but the one we duetted with was not one of them and we used manual synchronization.

The experience with the Toots Thielemans avatar (Chemillier & al 2022) allowed us to explore this notion of tempo flexibility and rhythmic interaction. To create the avatar we transcribed the parts of the piano-bass-drums trio in MIDI and set them to a metronomic tempo. When compared with the original, we perceive a slight irregularity in Bill Evans' version. The survey of reactions to the avatar emphasized the issue of rhythmic interaction. One listener wrote: "It bothers me a little that the accompaniment does not interact with the soloist...". Indeed, if there is a certain rhythmic flexibility in the hamonica part generated by the computer, there is none in the piano-bass-drums trio part since it was quantified in MIDI. One of the interviewees made the following observation: "impressive, it lacks the interaction with the musicians, the beginning "makes illusion" but less afterwards. It misses gestures of expression, articulations at the good moment ". As previously mentioned, the flexibility of the tempo in jazz is linked to the freedom of the improviser and therefore to the figures he plays. This is what the commentator calls "expressive gestures" and "articulations". One way to investigate this phenomenon would be to implement the concept of "narrative" discussed above in relation to musical discourse (McAuley 2021).

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