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A Generation-based Pairwise Sample Compatibility Modeling Framework

We can possibly use one framework to do similarity-based and compatibility-based searching and generating for drums samples and bass samples. In our experiment, some generated bass samples adhered to the input drums sample's rhythmic structure without being explicit conditioned on information like tempo or genre.

How to incorporate condition information into this framework? For instance, how to condition the latent mapping module with genre classes, tempo, and semantic information?