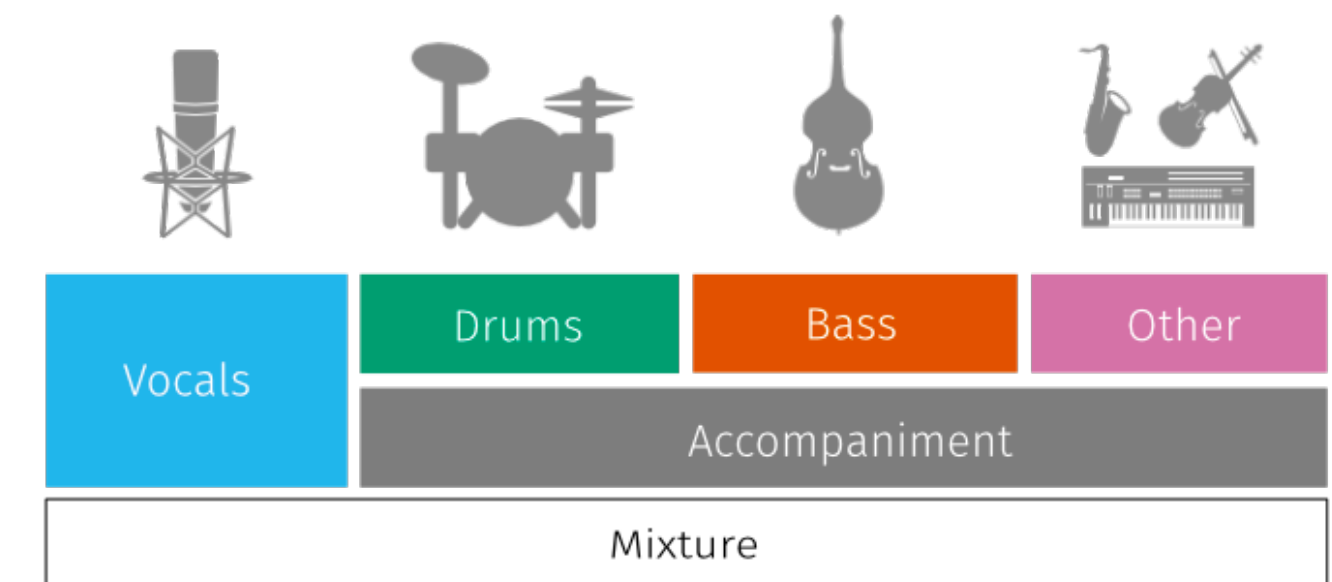


Introductions

Music Source separations

- Isolating sound sources from a mixture audio.
 - e.g., Bass, drums, vocals, and other
- MSS task is challenging for:
 - Having little information about mixing process.
 - Having little information about sound sources.
 - Overlapping sound sources.



Introductions

Datasets

- MUSDB18 [Zafar et al. 2017]:
 - Compressed version (MUSDB18): 16kHz;
 - Uncompressed version (MUSDB18HQ): 44.1kHz
 - 150 stereo songs (100 for training and 50 for test)
 - bass, drums, other, and vocals tracks
 - Official dataset in many MSS campaigns: SISEC 2018, MDX 2021, ...
- Other open-sourced datasets:
 - Medleydb1.0/2.0 [Bittner et al. 2016]
 - DSD100 [Antoine et al. 2017]
 - ...
- Model trained with unrealised datasets: Spleeter [Romain et al. 2019], UMXLPredictor [Stöter et.al 2019], MDX Challenge Leaderboard B [Yuki et al. 2021]
- Evaluation Metrics: Signal-to-distortion ratio (SDR).