# 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).

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# Related works
## Time domain methods

- Wave in wave out.

- No explicit frequency transformation.

- Theoretically more expressive than masking methods.

- Artifacts: static noise, missing high pitch content.