## A brief look into the music source separation and general speech quality restoration

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## Overview

- Music Source Separation (MSS)
  - Introductions & Related works.
  - Motivation1: MSS empirical upper bounds.
  - Motivation2: Channel-wise subband feature.
  - Proposed model: Channel-wise subband phase-aware ResUNet (CWS-PResUNet).
- Speech Enhancement (SE) topics.
- General Speech Quality Restoration (GSR)
  - Introductions & Related works.
  - Motivation1: Single task speech restoration & weakness.
  - Motivation2: How human brains percept distorted speech signals.
  - Proposed model: VoiceFixer.