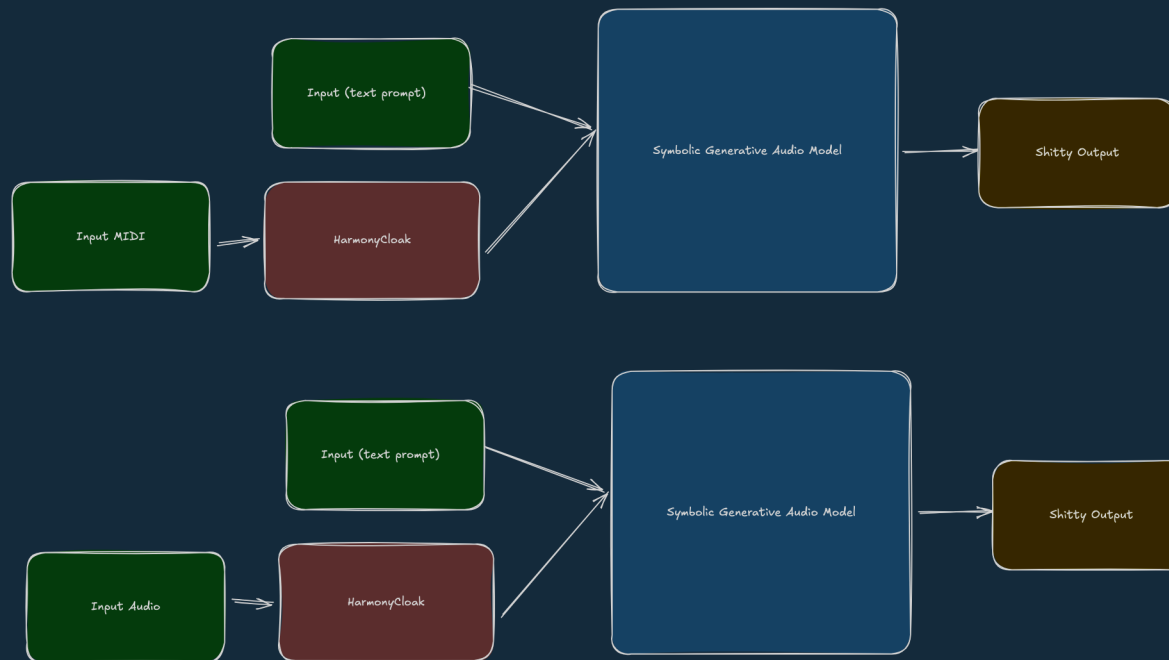


HarmonyCloak



To-Do List (MIDI):

- [] Window the MIDI file
- [] figure out what the MIDI instrument sounds like
- [] inject noise into the loudest harmonics of said MIDI instrument (for each window)
- [] Output the cloaked MIDI file

To-Do List (Audio):

- [] Window the Audio file
- [] find the loudest frequencies via STFT
- [] inject noise into the loudest harmonics of said loudest frequencies (for each window)
- [] Convert back to the time domain via FFT
- [] Output the cloaked Audio file

OR

- [] Window the Audio File
- [] find the loudest frequencies (STFT)
- [] for each model we guess and optimize:
 - [] inject noise into the loudest harmonics of said loudest frequencies (for each window)
- [] Determine which model performs the best and pick it
- [] Convert back to the time domain with FFT
- [] Output the cloaked audio file