

21M.380 MUSIC AND TECHNOLOGY

SOUND DESIGN

SOUND DESIGN EXERCISE 3 (EX3)

STEAM TRAIN DRIVE-BY

DUE: WEDNESDAY, APRIL 20, 2016, 9:30AM
SUBMIT TO: MIT LEARNING MODULES ▶ ASSIGNMENTS
10% OF TOTAL GRADE

1 Instructions

In groups, implement one Pd abstraction that will contribute towards our final steam-train drive-by scene.

Students	Abstraction A	Abstraction B
████████████████████	[doppler~]	[whistle~]
██████████	[bell~]	
████████████████	[attenuate~]	
████████████████	[rails~]	
████████████████	[steamengine~]	
████████████████	[pan~]	
████████████████	[absorb~]	

TABLE 1. Student groups

2 Model

We have worked out a model for the steam-train drive-by together in class, which is summarized in figures 1 and 2.

3 Guidelines

- Use the framework of Pd patches provided with this assignment, starting with `driveby~-help.pd`.
- Inside that patch, you will find a skeleton of the abstraction that you need to implement, either in the `[driveby~]` or `[rusty~]` object.
- Do not make any edits outside the abstraction that you are responsible for. Your final abstraction should work within the provided version of `driveby~-help.pd`.

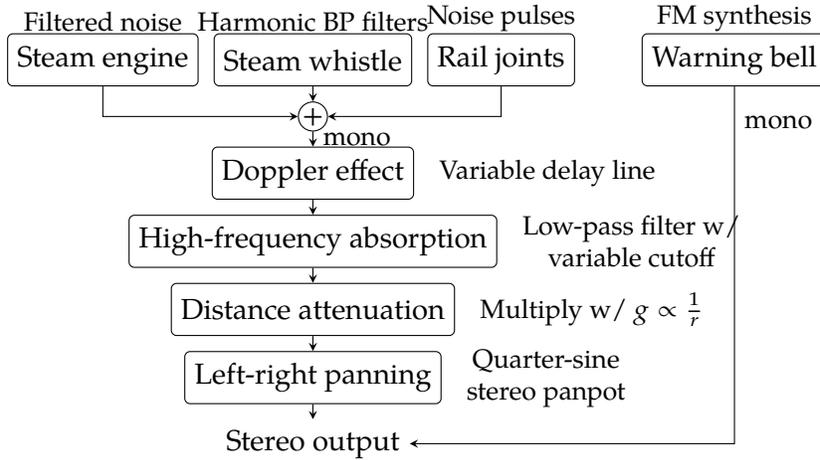


FIGURE 1. Block diagram of steam train drive-by model

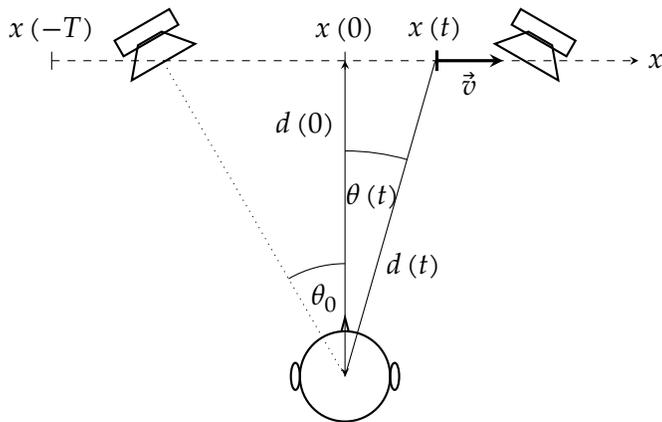


FIGURE 2. Geometry of steam train drive-by

- Use *only* the inlets and outlets that are already provided for your abstraction; don't add any additional ones!
- Stick to the specifications provided by the comments inside your skeleton abstraction, especially with regards to the expected creation arguments.

4 Assessment criteria

Sonic quality of the sound or acoustic effect

Integration How well does your abstraction integrate into the larger patch?

Coding style and quality of inline comments

5 Submission format

The student who in the above table is listed leftmost for your team should submit a single .zip archive that contains *only* the correctly named .pd file(s) for your abstraction(s). The reason why I ask you to zip the patch(es) is that Stellar (and probably also LMOD) automatically replaces any tilde character (~) in a file name with an underscore (_). Your abstraction(s) will be tested with the version of `driveby~--help.pd` that is provided with this assignment.

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