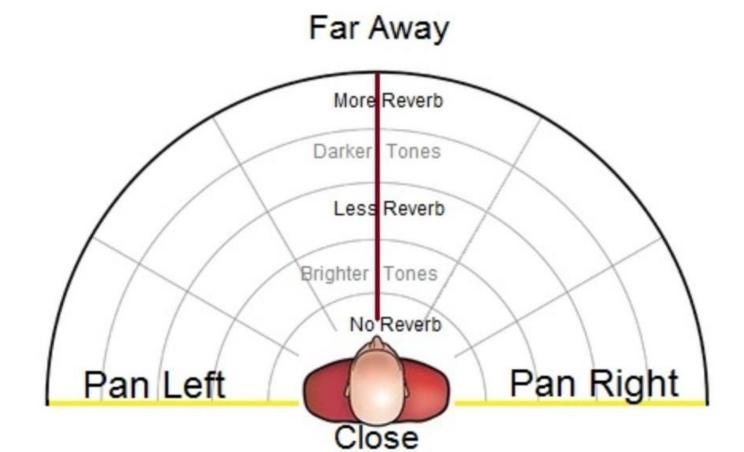
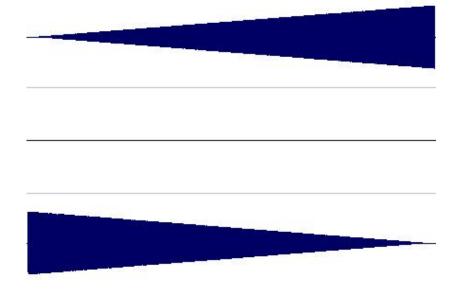
Pan position

- Pan position value: where we intend to put our sound source.
- Range of 0.0 (fully in left) to 1.0 (fully in right).

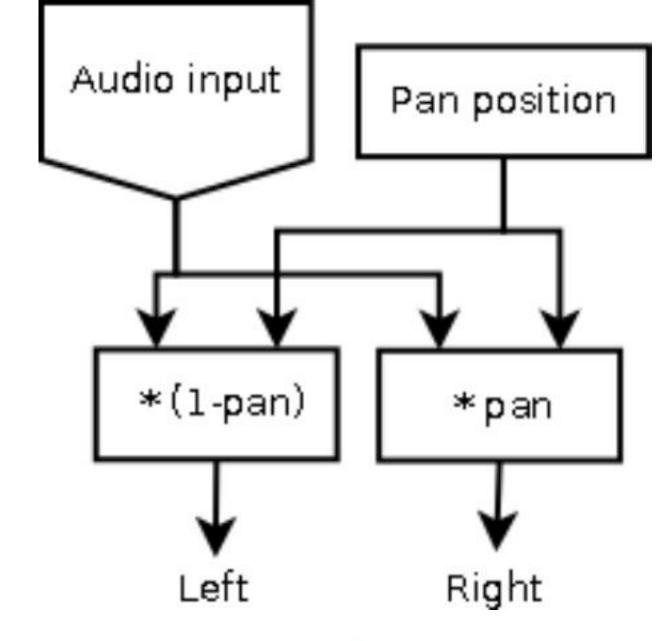


Linear Panning

Linear panning signal flow



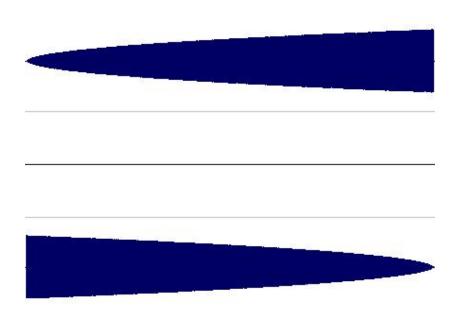


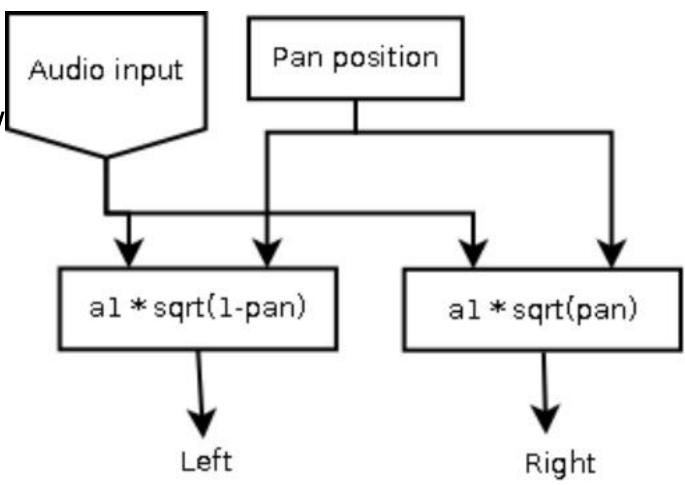


$$L(\theta) = (\frac{\pi}{2} - \theta) \frac{1}{\frac{\pi}{2}} = (\frac{\pi}{2} - \theta) \frac{2}{\pi}$$
, and $R(\theta) = \theta \frac{1}{\frac{\pi}{2}} = \theta \frac{2}{\pi}$

Square root Panning

Square root panning signal flow





$$L^{2}(\frac{\pi}{4}) + R^{2}(\frac{\pi}{4}) = \cos^{2}(\frac{\pi}{4}) + \sin^{2}(\frac{\pi}{4}) = 1$$

Our Program

