# **WebAudioAPI Library Architecture**

## Top-Level Architecture

A diagram of a library

Description automatically generated with low confidence

## Data Flowchart

A picture containing text, screenshot, diagram, plan

Description automatically generated

## Block Descriptions

* **Source**: Specifies acoustic input in either notational or audio format
  + Prerecorded Source:
    - Media URL
    - Audio Buffer
  + Generative Source:
    - External MIDI Device
    - API Note and Duration
    - Internal Scoring Format
* **Instrument**: Translates from notational input to audio output
  + Internal Synthesizer
  + Instrument from Instrument Library
  + Customized Instrument
* **Global Effect** / **Track Effect**: Manipulates input audio to produce new acoustic output
  + Time-Based Effects:
    - Reverb
    - Delay
    - Echo
  + Modulation Effects:
    - Chorus
    - Tremolo
    - Vibrato
    - Flanger
    - Phaser
  + Spectral Effects:
    - Panning
    - Equalization
  + Dynamic Effects:
    - Compression
    - Distortion
  + Filter Effects:
    - Low-Pass Filter
    - High-Pass Filter
    - Band-Pass Filter
    - Band-Reject Filter
* **Output**: Takes action on fully mixed acoustic outputs
  + Speakers: Ports acoustic output to built-in device speakers
  + Buffer: Ports acoustic output to a stereo PCM data buffer

## API Description

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