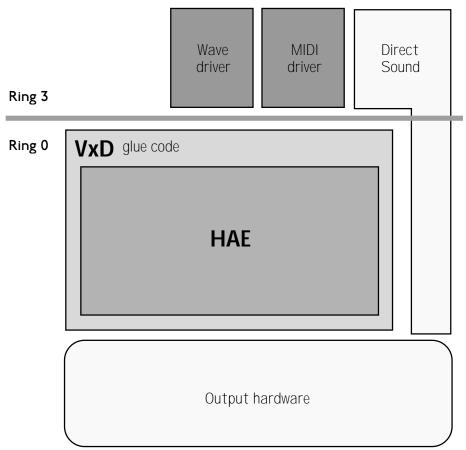


Overview



Headspace provides the version of the HAE that is embedded into the VxD glue, the VxD glue itself, the Wave and MIDI drivers, and the connection to the output hardware (or the connection to Direct Sound)

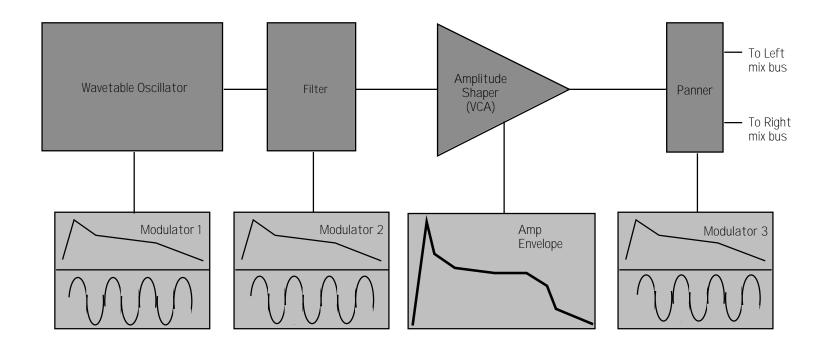
Note that the lowest levels of this world are flexible enough to allow us to:

Take the output of DirectSound and mix it into our world, then send it all off to the sound hardware.

- or -

Send the output of HAE to Direct sound, which mixes it and sends it to the sound hardware.

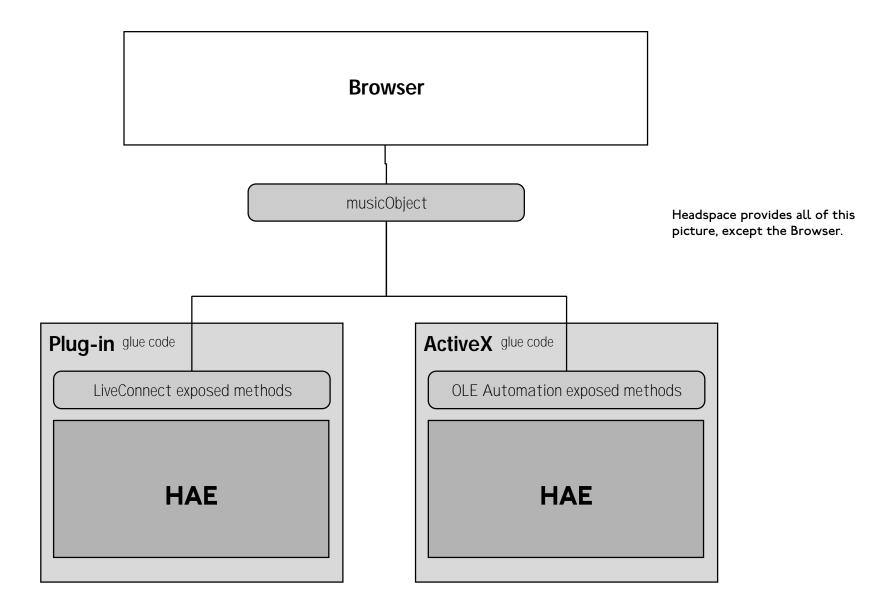
Soundcard Embedded



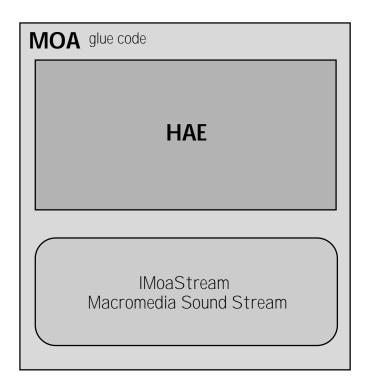
Each Modulator block consists of an EG (Envelope Generator) and an LFO (Low Frequency Oscillator).

The modulator routings shown are not fixed; all three modulators could be assigned to the same destination, for example.

Synth Voice



Beatnik Player



Headspace provides the version of the HAE that is embedded into MOA (Macromedia Object Archetecture) glue, the MOA glue code itself, and a sub-class of IMoaStream.

Macromedia Director Xtra

Typical code memory usage	Min	Max
ROM Footprint	¹ 60K	180K
RAM Footprint (Idle)	32K	80K
Reverb buffers	² 8K	128K

Typical Song RAM	
25 Instruments	1K
Sample Data	³ 250K
MIDI Data	30K

We have sample Banks from 400K up.

Typical other sizes are 450K, 1 Meg, & 5 Meg.

Memory Footprint

¹ No MOD Code Not all RMF features No Effects Fixed output rate & depth No file Creation code No linear sound code

 $^{^{2}\}mbox{Assumes}$ our smallest Reverb code, which would add 10K to the Min. ROM code footprint

³ Samples can be played from ROM, which brings this down to zero.