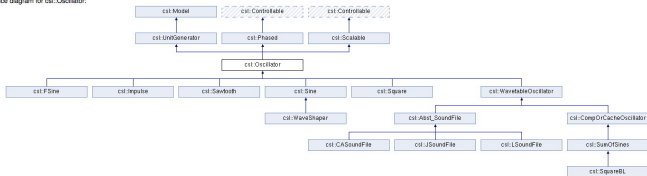
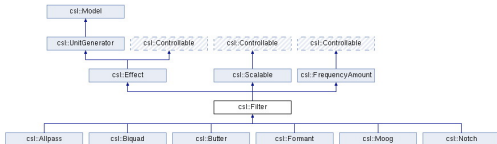


## CSL CLASS HIERARCHIES

▼ Inheritance diagram for csl:Oscillator:



▼ Inheritance diagram for csl:Filter:

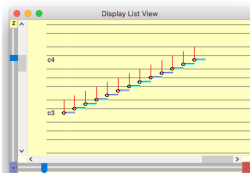


## CREATING A MULTI-TIMBRAL SOFT-SYNTH

```
logMsg("Setting up [string, sampler, FM] library");
InstrumentVector lib;                                // instrument library
Mixer mix(2);                                       // Create the main stereo output mixer
for (unsigned i = 0; i < 16; i++){                  // 16 plucked strings (amp, freq, pos)
    StringInstrument * in = new StringInstrument(0.2f, 440.0f, 0.0f);
    lib.push_back(in);  mix.addInput(in);
}
char * names[] = { "moon.snd", "wet.snd", "round.snd", "shine.snd" };
for (unsigned i = 16; i < 32; i++){                  // 16 sound files
    SndFileInstrument0 * in = new SndFileInstrument0(dataFolder(), names[i % 4]);
    lib.push_back(in);  mix.addInput(in);
}
for (unsigned i = 32; i < 48; i++){                  // 16 FM voices
    FMInstrument * in = new FMInstrument();
    lib.push_back(in);  mix.addInput(in);
}
setupOSCInsrLibrary(lib);                          // add the instrument library to OSC namespace
```

## SMOKE EVENT-LIST EXAMPLES

- ▶ A chord = 3 events at the same time  
(0 => (1/2 beat, 'd3' pitch, 'mf' ampl)),  
(0 => (1/2 beat, 'fs3' pitch, 'mf' ampl)),  
(0 => (1/2 beat, 'a4' pitch, 'mf' ampl)))
- ▶ C'tor methods  
(EventList scaleFrom: 48 to: 60 in: 1.5) open



(Hauer-Steffens notation)



