

BasicSynth

Creating a Music Synthesizer in Software

ENVELOPE

```
Amplitude Envelope()
```

```
{  
  if (index >= totalSamples)  
    return 0;  
  if (index < attackTime)  
    volume += envInc;  
  else if (index > decayStart)  
    volume -= envInc;  
  else if (index == attackTime)  
    volume = peakAmp;  
  else if (index == decayStart)  
    envInc = volume / decayTime;  
  index++;  
  return volume;  
}
```

OSCILL



```
Amplitude Oscill()
```

```
{  
  Amplitude v = sin(phase);  
  phase += phaseIncr;  
  if (phase >= twoPI)  
    phase -= twoPI;  
  return v;  
}
```

S



LFO

R

```
voice 0  
begin  
  instr "piano";  
  volume 80;  
  loop (4)  
  begin  
    C4, %4, 100;  
    E4, %5, 90;  
    G4, %8, 90;  
  end  
end
```

Rate



Depth

```
Amplitude AllPass(Amplitude val)
```

```
{  
  Amplitude out;  
  out = (amp * val)  
    + prevX - (amp * prevY);  
  prevX = val;  
  prevY = out;  
  return out;  
}
```

Delay



Daniel R. Mitchell

Basicsynth

Bill Gibson, William A. Gibson



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