

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
```

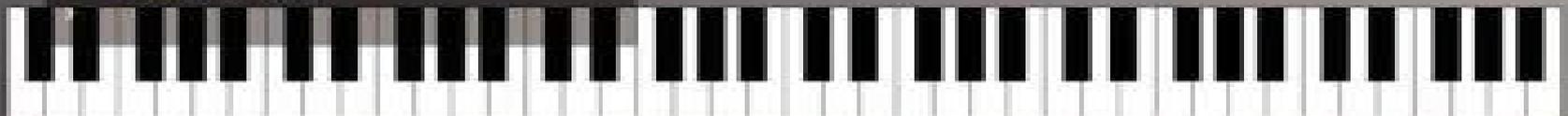
Rate



Depth

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

Delay



Daniel R. Mitchell

Basicsynth

Lei Huang



Basicsynth:

Whispering the Techniques of Language: An Emotional Journey through **Basicsynth**

In a digitally-driven world where screens reign supreme and quick conversation drowns out the subtleties of language, the profound strategies and psychological nuances concealed within words often move unheard. However, set within the pages of **Basicsynth** a fascinating literary value sporting with natural feelings, lies an exceptional quest waiting to be undertaken. Written by an experienced wordsmith, this enchanting opus attracts visitors on an introspective trip, delicately unraveling the veiled truths and profound influence resonating within the very material of every word. Within the emotional depths of this emotional review, we shall embark upon a sincere exploration of the book's core subjects, dissect its charming writing style, and succumb to the strong resonance it evokes heavy within the recesses of readers' hearts.

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