

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

Delay

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

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



Daniel R. Mitchell

Basicsynth

Ying Liu



Basicsynth:

Basicsynth Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has been evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Basicsynth**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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