

# 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 Software Synthesis

**Xiang Xie**



## **Basicsynth Software Synthesis:**

## Unveiling the Magic of Words: A Review of "**Basicsynth Software Synthesis**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Basicsynth Software Synthesis**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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