

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

Wolfgang Guggemos



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Table of Contents Basicsynth

1. Understanding the eBook Basicsynth
 - The Rise of Digital Reading Basicsynth
 - Advantages of eBooks Over Traditional Books
2. Identifying Basicsynth
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Basicsynth
 - User-Friendly Interface
4. Exploring eBook Recommendations from Basicsynth
 - Personalized Recommendations
 - Basicsynth User Reviews and Ratings
 - Basicsynth and Bestseller Lists
5. Accessing Basicsynth Free and Paid eBooks
 - Basicsynth Public Domain eBooks
 - Basicsynth eBook Subscription Services

- Basicsynth Budget-Friendly Options
- 6. Navigating Basicsynth eBook Formats
 - ePub, PDF, MOBI, and More
 - Basicsynth Compatibility with Devices
 - Basicsynth Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Basicsynth
 - Highlighting and Note-Taking Basicsynth
 - Interactive Elements Basicsynth
- 8. Staying Engaged with Basicsynth
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Basicsynth
- 9. Balancing eBooks and Physical Books Basicsynth
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Basicsynth
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Basicsynth
 - Setting Reading Goals Basicsynth
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Basicsynth
 - Fact-Checking eBook Content of Basicsynth
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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