

Joseph Walton-Rivers

This adds an echo to an input list, s, extending the input by t seconds and combining the input list with a delayed copy of itself.

This algorithm depends on the sample rate,  $\mathcal{S}$ , which is used to convert a duration in seconds to a duration in samples.

## Algorithm 1 Adding Echos

```
Require:
    1 \le t
    1 \le S
                                                                                    ⊳ Sample Rate
Ensure:
 1: function ECHO(s,t)
        n \leftarrow \mathsf{LIST}
        o \leftarrow tS
 3:
        for i = 0, i < len(s) + o do
 4:
 5:
             v \leftarrow 0
 6:
             if i < len(sample) then
                 v \leftarrow v + s_i
 7:
 8:
             end if
             if i - o > 0 then
 9:
                 v \leftarrow v + s_{i-o}
10:
             end if
11:
             n \leftarrow v
12:
         end for
13:
         return n
15: end function
```