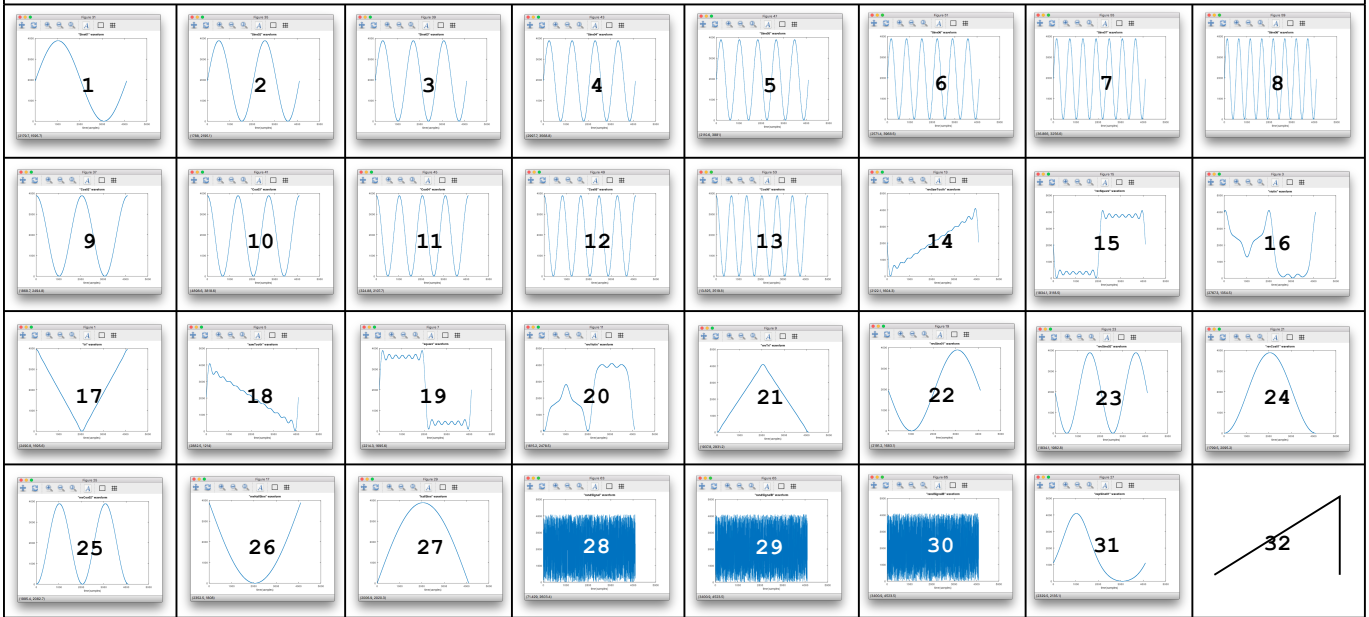
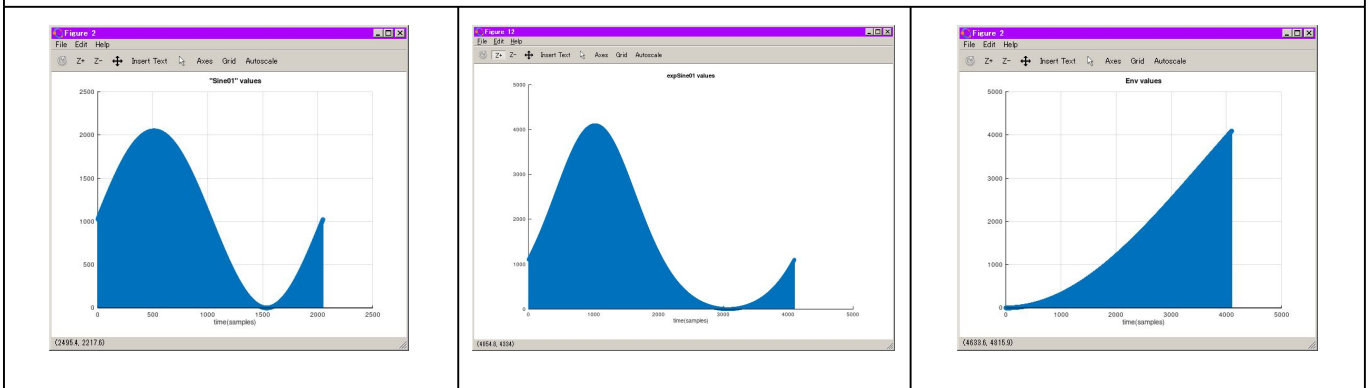


## Wavetable Library



## Envelope Library



```

1 LUT_LENGTH = 2048;
2 NUM_PARTIALS = 16;
3 fs = 44100; % Hz
4 freq = 440; % Hz
5
6 tri = round(
7     ((cos(2*pi*linspace(0,1,LUT_LENGTH)+1) * 0.95)
8      * ((sin(4*pi*linspace(0,1,LUT_LENGTH)+1) * 0.94)
9        + ((cos(6*pi*linspace(0,1,LUT_LENGTH)+1) * 0.111)
10         * ((sin(8*pi*linspace(0,1,LUT_LENGTH)+1) * 0.5)
11           + ((cos(10*pi*linspace(0,1,LUT_LENGTH)+1) * 0.4)
12             * ((sin(12*pi*linspace(0,1,LUT_LENGTH)+1) * 0.4)
13               + ((cos(14*pi*linspace(0,1,LUT_LENGTH)+1) * 0.02)
14                 * ((sin(16*pi*linspace(0,1,LUT_LENGTH)+1) * 0.4)
15                   + ((cos(18*pi*linspace(0,1,LUT_LENGTH)+1) * 0.012)
16                     * ((sin(20*pi*linspace(0,1,LUT_LENGTH)+1) * 0.3)
17                       + ((cos(22*pi*linspace(0,1,LUT_LENGTH)+1) * 0.008)
18                         * ((sin(24*pi*linspace(0,1,LUT_LENGTH)+1) * 0.2)
19                           + ((cos(26*pi*linspace(0,1,LUT_LENGTH)+1) * 0.004)
20                             ) / 2) * 3458));
21
22 csvwrite('tri.txt', tri);
23
24 figure
25 plot(tri)
26 title('tri waveform')
27 xlabel('time(samples)')
28
29 figure
30 stem(tri)
31 title('tri values')
32 xlabel('time(samples)')
33

```

The waveforms are generated by the GNU Octave in CSV format. GNU Octave is a free math software which is downloadable from: <https://www.gnu.org/software/octave/>

The software works on the Windows and Linux. Unfortunately, the Mac version needs a little bit complex works for the installation.

