

```

1 import processing.serial.*;
2 import ddf.minim.*;
3 import ddf.minim.signals.*;
4
5 import processing.sound.*;
6
7 Minim minim;
8
9 // set up multiple
10 AudioPlayer radio1;
11 AudioPlayer radio2;
12 SoundFile tapeSound;
13
14 int linefeed = 10; // new line ASCII = 10
15 Serial myPort;
16
17 boolean newData = false;
18 boolean playing = false;
19 int currentPlay = 0;
20 int value1 = 0; //this variable will contain the reading
21 void setup () {
22   size(800, 600);
23   printArray(Serial.list());
24   // change port!
25   myPort = new Serial(this, Serial.list()[11], 9600);
26   // here we're saying that we need to buffer until 'NEW LINE'
27   myPort.bufferUntil(linefeed);
28   myPort.clear();
29   // set up multiple streams here
30   minim = new Minim(this);
31   radio1 = minim.loadFile("http://ice1.somafm.com/spacestation-128-mp3");
32   radio2 = minim.loadFile("http://ice1.somafm.com/deepspaceone-128-mp3");
33   tapeSound = new SoundFile(this, "tape.wav");
34   println("loaded");
35 }
36
37 void draw ()
38 {
39   //do something with "value1"
40
41   // print(currentPlay);
42
43   if (newData)
44   {
45     if (playing)

```

```
46     {
47         // stop all streams
48         playStream(0);
49     } else
50     {
51         // play the current value
52         if (value1 == 1)
53         {
54             playStream(1);
55         } else if (value1 == 2)
56         {
57             playStream(2);
58         }
59     }
60 }
61
62 newData = false;
63 }
64
65 void playStream(int stream)
66 {
67     // set this up to play and stop stream based on stream number with 0
68     if (stream == 0)
69     {
70         // stop playing stream
71         println("Stopping Stream");
72         tapeSound.play();
73         delay(500);
74         radio1.pause();
75         radio2.pause();
76         playing = false;
77     } else if (stream == 1)
78     {
79         println("Playing Stream 1");
80         tapeSound.play();
81         delay(500);
82         radio1.play();
83         playing = true;
84     } else if (stream == 2)
85     {
86         println("Playing Stream 2");
87         tapeSound.play();
88         delay(500);
89         radio2.play();
90         playing = true;
```

```
91  }
92 }
93
94 void serialEvent (Serial myPort)
95 {
96   // read serial buffer as string
97   String myString = myPort.readString();
98
99   // if we have any other bytes than linefeed
100  if (myString != null)
101  {
102    // trim crap
103    myString = trim(myString);
104    value1 = int(myString); //make string to integer
105    // println(value1);
106  }
107  newData = true;
108  delay(20);
109 }
110
111 void stop()
112 {
113 }
114
115
116
117
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