```
<html>
<head>
  <meta name="viewport" content="width=device-width , initial-scale=1.2 , maximum-scale=1.0 ,</pre>
user-scalable=0">
  <script src="Tone.js"></script>
  <style>
    body {
      background-color: transparent;
      margin: 0;
      font-family: sans-serif;
      background-color: #EEEEEE;
    }
    .container {
      background-color: ;
      position: absolute;
      top: 200px;
      left: 120px;
      height: 260px;
      width: 1400px;
    }
    li {
      margin: 0;
      padding-top: 40px;
      list-style: none;
      position: relative;
      float: left;
      text-align: center;
      user-select: none;
    }
    .white {
      height: 16em;
      width: 4em;
      border-left: 1px solid #bbb;
      border-bottom: 1px solid #bbb;
      border-radius: 0 0 5px 5px;
      background-color: white;
      box-shadow: 14px 0px 18px 2px grey;
    }
    .white:active {
      border-top: 1px solid #777;
      border-left: 1px solid #999;
      border-bottom: 1px solid #999;
      box-shadow: 2px 0 3px rgba(0, 0, 0, 0.1) inset,
        -5px 5px 20px rgba(0, 0, 0, 0.2) inset,
        0 0 3px rgba(0, 0, 0, 0.2),
        inset 4px 4px 2px -10px #000000;
      background:
        linear-gradient(to bottom, white 75%, #E3E3E3 100%);
      z-index: -4;
    }
    .black {
      height: 8em;
      width: 2em;
      margin: 0 0 0 0;
      z-index: 2;
      border: 1px solid #000;
      border-radius: 0 0 3px 3px;
      box-shadow: -1px -1px 2px rgba(255, 255, 255, 0.2) inset, 0 -5px 2px 3px rgba(0, 0, 0, 0.6)
inset, 0 2px 4px rgba(0, 0, 0, 0.5);
```

```
background-color: black;
  color: white;
}
.d,
.е,
٠g,
.a,
.b {
 margin: 0 0 0 -1.11em;
.cs,
.ds,
.fs,
.gs,
.as {
 margin: 0 0 0 -1em;
.shape1 {
  position: absolute;
  background: linear-gradient(57deg, #9559F8, #00BBF6, #9559F8);
 height: 600px;
 width: 1400px;
  clip-path: polygon(0% 0%, 35% 0%, 0% 25%, 0% 100%);
  z-index: -25;
  opacity: 1;
}
.shape2 {
  position: absolute;
  background-image: linear-gradient(to top, #9559F8, #F3506F);
 height: 600px;
 width: 1400px;
  clip-path: polygon(0% 50%, 100% 0%, 100% 25%, 0% 100%);
  z-index: -25;
  opacity: 1;
}
.shape3 {
  position: absolute;
  background: linear-gradient(57deg, #9559F8, #00BBF6);
 height: 600px;
 width: 1400px;
  clip-path: polygon(100% 100%, 100% 80%, 70% 100%, 0% 100%);
  z-index: -25;
  opacity: 1;
}
h1.head {
  position: absolute;
  left: 500px;
  color: #424242;
}
.tab {
  display: block;
  position: relative;
  left: 160px;
  overflow: hidden;
  border: 0px;
 width: 975px;
 height: 40px;
  background-color: white;
}
```

```
.tabButton {
     border: none;
     outline: none;
     margin: 0;
     float: left;
     height: inherit;
     width: 100px;
     background-color: white;
     cursor: pointer;
     padding: 14px 16px;
   }
    .tabButton:active {
     background-color: #EDEDF0;
    .tabButton:hover {
     background-color: rgba(199, 199, 201,0.1);
    .tabPages {
     display: block;
     position: absolute;
     left: 160px;
     overflow: hidden;
     border: 0px;
     width: 975px;
     height: 170px;
     background-color: rgb(255, 255, 255);
     margin: 0;
     z-index: 1;
    .synthChooser, .oscType{
     position: relative;
     height: 12em;
     width: 18em;
     display: inline-block;
     background-color: #e7e7e7; /* Green */
     border: none;
     transition-duration: 0.4s;
   #defaultsynth:hover {
     background-color: #994CAF; /* Green */
     color: white;
   #FMsynth:hover {
     background-color: #008CBA; /* Green */
     color: white;
   #AMsynth:hover {
     background-color: #f44336; /* Green */
     color: white;
   #polySynth:hover {
     background-color: #4CAF50; /* Green */
      color: white;
   }
  </style>
</head>
<body>
```

```
<h1 class="head"> </h1>
 <div class="shape1"></div>
 <div class="shape2"></div>
 <div class="shape3"></div>
<div class="up">
  <div class="tab">
     <button class="tabButton" id="syn" onclick="openPage(event)">Synth</button>
     <button class="tabButton" id="env" onclick="openPage(event)">Envelope</button>
     <button class="tabButton" id="osc" onclick="openPage(event)">Oscillator</button>
    </div>
    <div class="tabPages">
     <div class="tabPage" id="synthTab">
         <button class="synthChooser" id="defaultsynth" onclick="switchSynth(event)"> Default
</button>
         <button class="synthChooser" id="FMsynth" onclick="switchSynth(event)"> FM
</button>
         <button class="synthChooser" id="AMsynth" onclick="switchSynth(event)"> AM
</button>
         <button class="synthChooser" id="polySynth" onclick="switchSynth(event)"> Poly
</button>
     </div>
     <div class="tabPage" id="envelope">
         <input type="range" id="attack" min="0.001" max="5" value="0" step="0.001" > <span</pre>
id="rangeShow"> </span> </input>
         <input type="range" id="decay" min="0.01" max="5" value="0" step="0.1" > <span</pre>
id="rangeShow"> </span> </input>
         <input type="range" id="sustain" min="0.01" max="5" value="0" step="0.1" > <span</pre>
id="rangeShow"> </span> </input>
         <input type="range" id="release" min="0.01" max="5" value="0" step="0.1" > <span</pre>
id="rangeShow"> </span> </input>
     </div>
     <div class="tabPage" id="oscTab">
         <button class="oscType" onclick="switchOSC(event)" id="sine" > Sine
                                                            </button>
         <button class="oscType" onclick="switchOSC(event)" id="square" > Square
                                                             </button>
         <button class="oscType" onclick="switchOSC(event)" id="triangle" > triangle
</button>
         <button class="oscType" onclick="switchOSC(event)" id="none" > none
                                                            </button>
     </div>
    </div>
</div>
 <div class="container" id="main">
   c 
     c# 
     D 
    class="keys black ds" id="D#5" onmousedown="playIt(event)"> D# 
    class="keys white e" id="E5" onmousedown="playIt(event)"> E 
     F 
    class="keys black fs" id="F#5" onmousedown="playIt(event)"> F# 
    class="keys white g" id="G5" onmousedown="playIt(event)"> G 
    class="keys black gs" id="G5" onmousedown="playIt(event)"> G# 
    class="keys white a" id="A5" onmousedown="playIt(event)"> A 
    class="keys black as" id="A#5" onmousedown="playIt(event)"> A# 
     B 
     C 
    class="keys black cs" id="C#6" onmousedown="playIt(event)"> C# 
     D 
     D# 
     E 
     F 
     F# 
     G 
     G# 
     A 
     A# 
    class="keys white b" id="B6" onmousedown="playIt(event)"> B
```

```
 C 
   </div>
<script type="text/javascript">
 // for keyboard triggering
  var keyNote = {
       a:'c5',
       s:'d5',
       d:'e5',
       f:'f5',
       g:'g5',
       h:'a5',
       j:'b5',
       w:'c#5',
       e:'d#5',
       t:'f#5',
       y:'g#5',
       u:'a#5',
     }
   document.addEventListener('keydown',(e)=>{
     synth.triggerAttack(keyNote[e.key], "8n");
   document.addEventListener('keyup',(e)=>{
     synth.triggerRelease();
   });
</script>
 <script>
   synth = new Tone.Synth();
   synth.oscillator.type = "square";
   synth.toMaster();
   var Nsynth = new Tone.Synth({
     oscillator: {
       type: 'fmsquare',
       modulationType: 'sawtooth',
       modulationIndex: 3,
       harmonicity: 3.4
     },
     envelope: {
       attack: 0.001,
       decay: 0.1,
       sustain: 0.1,
       release: 0.1
   }).toMaster();
   var Psynth = new Tone.PolySynth(6, Tone.Synth, {
       oscillator : {
                         type : "square"
       }).toMaster();
       Psynth.set("detune", -1200);
      // synth.triggerAttackRelease(["C4", "E4", "A4"], "4n");
   function switchOSC(e){
          synth.oscillator.type = event.target.id;
   function switchSynth() {
     if (event.target.id == 'FMsynth') {
       synth = new Tone.FMSynth().toMaster();
     else if (event.target.id == 'AMsynth') {
       synth = new Tone.AMSynth().toMaster();
     }
     else if(event.target.id == 'polySynth'){
       synth = Psynth;
```

```
else {
       synth = new Tone.Synth().toMaster();
      }
   var keys = document.querySelectorAll(".keys");
   function playIt() {
      if(synth != Psynth){
       synth.triggerAttackRelease(event.target.id, "8n");
     else{
       synth.triggerAttackRelease(["C4", "E4", "A4"], "4n");
      }
   }
   document.querySelector("#envelope").addEventListener("input", doit);
   function doit(event) {
      synth.envelope[event.target.id] = event.target.value;
   document.querySelector("#oscillator").addEventListener("input", doithat);
   function dothat(event) {
       synth.oscillator[event.target.id] = event.target.value;
   }
  </script>
<script>
   var button = document.querySelectorAll(".tabButton");
   var page = document.querySelectorAll(".tabPage");
   for (let i = 0; i < page.length; i++) {
     page[i].style.display = "none";
   document.querySelector(".tabButton").click();
   function openPage(event) {
       for (let i = 0; i < page.length; i++) {
          if (event.target.id == button[i].id) {
            page[i].style.display = "block";
         else {
         page[i].style.display = "none";
      }
setTimeout( function(){
   document.getElementById("C5").click();
 }, 1000);
  </script>
</body>
</html>
```