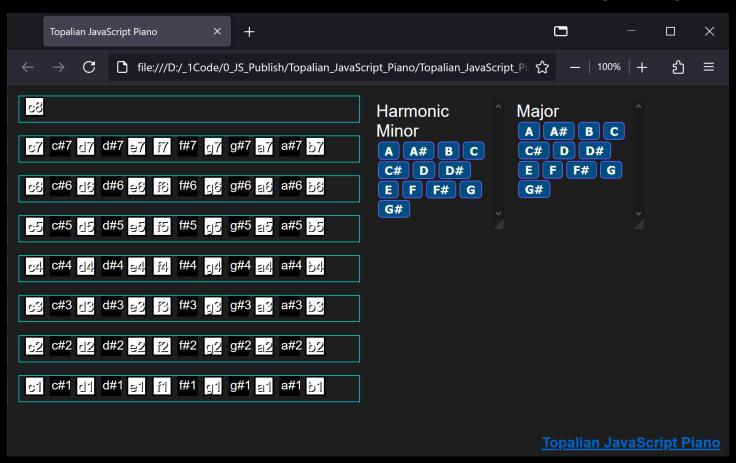
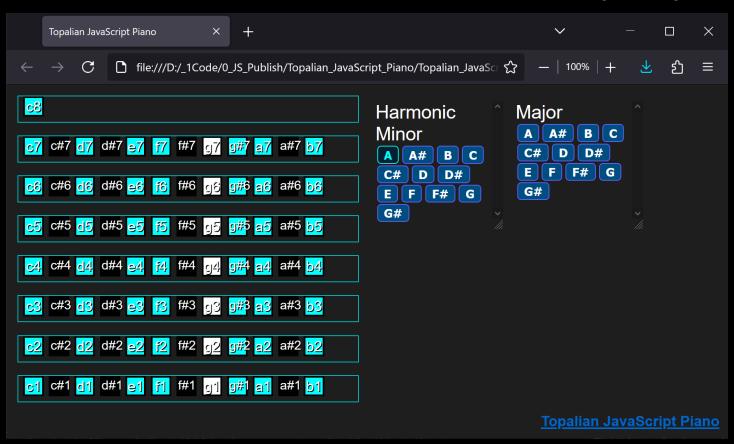
Topalian JavaScript Piano

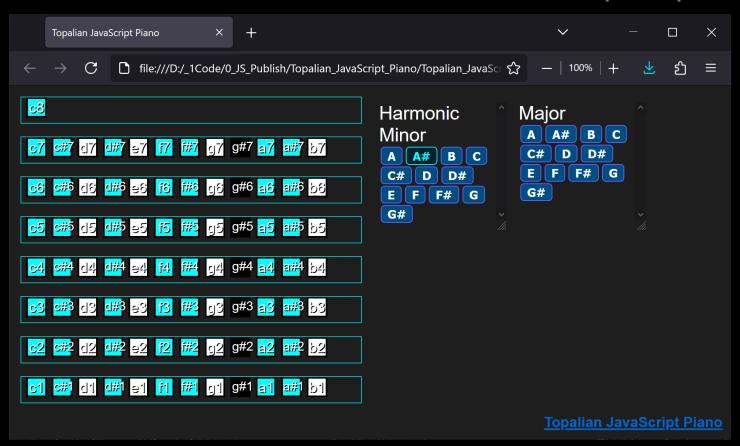
by Christopher Andrew Topalian

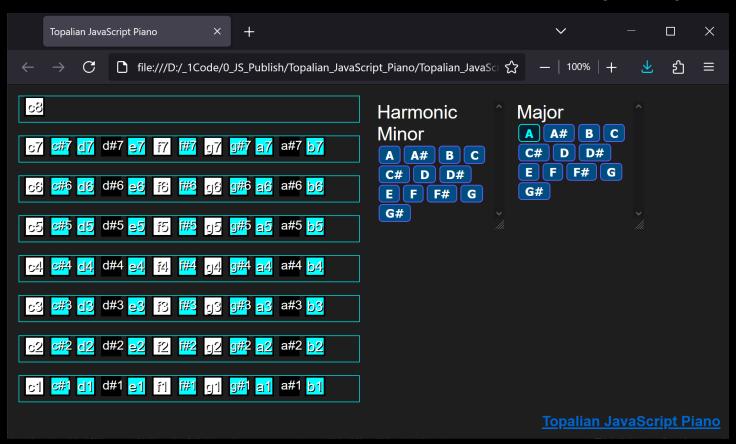
All Rights Reserved Copyright 2000-2024

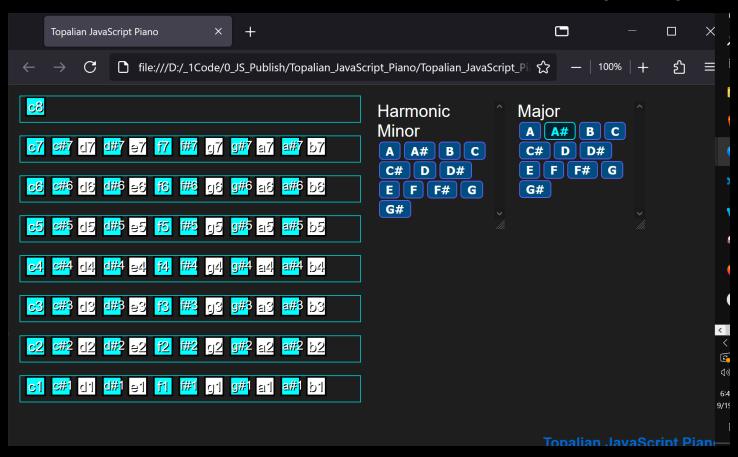
Dedicated to God the Father











```
<!-- Dedicated to God the Father -->
<!-- All Rights Reserved Christopher Andrew
Topalian Copyright 2000-2024 -->
<!-- https://github.com/ChristopherTopalian -->
<!--
https://github.com/ChristopherAndrewTopalian
-->
<!--
Topalian JavaScript_Piano(Online_Version).ht
ml -->
<!-- Version 001 - (2024-09-19) -->
<html>
<head>
<title> Topalian JavaScript Piano </title>
<style>
/* style001.css */
body
{
  background-color: rgb(30, 30, 30);
}
```

.natural

```
{
  width: 25px;
  background-color: rgb(255, 255, 255);
  border: solid 1px rgb(0, 0, 0);
  font-family: arial;
  font-size: 17px;
  color: rgb(255, 255, 255);
  text-align: center;
  text-shadow: 1px 1px black;
  user-select: none;
.natural:active
{
  transform: translateY(3px);
  background-color: rgb(200, 200, 200);
  border-color: rgb(0, 255, 255);
  box-shadow: inset 0 4px 5px rgba(0, 0, 0,
0.5);
  color: rgb(255, 0, 255);
.sharp
  width: 25px;
  background-color: rgb(0, 0, 0);
```

```
border: solid 1px rgb(0, 0, 0);
  text-align: center;
  font-family: Arial;
  font-size: 15px;
  color: rgb(255, 255, 255);
  text-shadow: 1px 1px black;
  user-select: none;
.sharp:active
{
  transform: translateY(3px);
  background-color: rgb(200, 200, 200);
  border-color: rgb(0, 255, 255);
  color: rgb(255, 0, 255);
  box-shadow: inset 0 4px 5px rgba(0, 0, 0,
0.5);
button
{
  background-color: rgb(0, 77, 129);
  margin-left: 2px;
  margin-right: 2px;
  margin-top: 1px;
  margin-bottom: 1px;
```

```
border-style: solid;
  border-width: 1px;
  border-color: rgb(100, 100, 255);
  border-radius: 4px;
  padding-left: 7px;
  padding-right: 7px;
  padding-top: 1px;
  padding-bottom: 1px;
  opacity: 1.0;
  font-size: 14px;
  font-weight: bold;
  color: rgb(255, 255, 255);
  text-align: center;
}
button:hover
{
  background-color: rgb(6, 31, 47);
  border-color: rgb(0, 255, 255);
  color: rgb(0, 255, 255);
button:active
{
  color: rgb(255, 0, 255);
}
```

```
/* -- */
/* Dedicated to God the Father */
/* All Rights Reserved Christopher Andrew
Topalian Copyright 2000-2024 */
/* https://github.com/ChristopherTopalian */
/*
https://github.com/ChristopherAndrewTopalian
</style>
<script>
// shortcuts.js
function ge(whichId)
  let result =
document.getElementByld(whichId);
  return result;
}
function ce(whichType)
```

```
let result =
document.createElement(whichType);
  return result;
}
function ba(whichElement)
{
  let result =
document.body.append(whichElement);
  return result;
}
function ct(whichText)
{
  let result =
document.createTextNode(whichText);
  return result;
}
//--//
// Dedicated to God the Father
// All Rights Reserved Christopher Andrew
Topalian Copyright 2000-2024
// https://github.com/ChristopherTopalian
```

```
//
https://github.com/ChristopherAndrewTopalian
// worldVariables.js
let online = true;
let natural = 'rgb(255, 255, 255)';
let sharp = 'rgb(0, 0, 0)';
let highlight = 'rgb(0, 255, 255)';
//--//
// Dedicated to God the Father
// All Rights Reserved Christopher Andrew
Topalian Copyright 2000-2024
// https://github.com/ChristopherTopalian
||
https://github.com/ChristopherAndrewTopalian
// notes.js
let notes =
  {
     name: 'c1',
```

```
soundFileOffline:
'src/media/notes/c1.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/c1.mp4',
    octave: 1
  },
    name: 'csharp1',
    soundFileOffline:
'src/media/notes/csharp1.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/csharp1.mp4',
    octave: 1
  },
    name: 'd1',
    soundFileOffline:
'src/media/notes/d1.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/d1.mp4',
    octave: 1
```

```
},
    name: 'dsharp1',
    soundFileOffline:
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    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/dsharp1.mp4',
    octave: 1
  },
    name: 'e1',
    soundFileOffline:
'src/media/notes/e1.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/e1.mp4',
    octave: 1
  },
    name: 'f1',
    soundFileOffline:
'src/media/notes/f1.mp4',
```

```
soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/f1.mp4',
    octave: 1
  },
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    soundFileOffline:
'src/media/notes/fsharp1.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
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    octave: 1
  },
    name: 'g1',
    soundFileOffline:
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    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/g1.mp4',
    octave: 1
  },
```

```
name: 'gsharp1',
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    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/gsharp1.mp4',
    octave: 1
  },
    name: 'a1',
    soundFileOffline:
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    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/a1.mp4',
    octave: 1
  },
    name: 'asharp1',
    soundFileOffline:
'src/media/notes/asharp1.mp4',
```

```
soundFileOnline:
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4/0/76407657/asharp1.mp4',
    octave: 1
  },
    name: 'b1',
    soundFileOffline:
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    soundFileOnline:
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4/0/76407657/b1.mp4',
    octave: 1
  },
    name: 'c2',
    soundFileOffline:
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    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/c2.mp4',
    octave: 2
  },
```

```
name: 'csharp2',
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    soundFileOnline:
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4/0/76407657/csharp2.mp4',
    octave: 2
  },
    name: 'd2',
    soundFileOffline:
'src/media/notes/d2.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/d2.mp4',
    octave: 2
  },
    name: 'dsharp2',
    soundFileOffline:
'src/media/notes/dsharp2.mp4',
```

```
soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/dsharp2.mp4',
    octave: 2
  },
    name: 'e2',
    soundFileOffline:
'src/media/notes/e2.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/e2.mp4',
    octave: 2
  },
    name: 'f2',
    soundFileOffline:
'src/media/notes/f2.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/f2.mp4',
    octave: 2
  },
```

```
name: 'fsharp2',
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    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/fsharp2.mp4',
    octave: 2
  },
    name: 'g2',
    soundFileOffline:
'src/media/notes/g2.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/g2.mp4',
    octave: 2
  },
    name: 'gsharp2',
    soundFileOffline:
'src/media/notes/gsharp2.mp4',
```

```
soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/gsharp2.mp4',
    octave: 2
  },
    name: 'a2',
    soundFileOffline:
'src/media/notes/a2.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/a2.mp4',
    octave: 2
  },
    name: 'asharp2',
    soundFileOffline:
'src/media/notes/asharp2.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/asharp2.mp4',
    octave: 2
  },
```

```
name: 'b2',
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    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/b2.mp4',
    octave: 2
  },
    name: 'c3',
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'src/media/notes/c3.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/c3.mp4',
    octave: 3
  },
    name: 'csharp3',
    soundFileOffline:
'src/media/notes/csharp3.mp4',
```

```
soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/csharp3.mp4',
    octave: 3
  },
    name: 'd3',
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'src/media/notes/d3.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/d3.mp4',
    octave: 3
  },
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    soundFileOffline:
'src/media/notes/dsharp3.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/dsharp3.mp4',
    octave: 3
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```

```
name: 'e3',
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'https://javascriptbook.weebly.com/uploads/7/6/
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  },
    name: 'f3',
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'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/f3.mp4',
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    name: 'fsharp3',
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soundFileOnline:
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    name: 'g3',
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'https://javascriptbook.weebly.com/uploads/7/6/
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```
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    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/csharp4.mp4',
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```

```
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'https://javascriptbook.weebly.com/uploads/7/6/
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soundFileOnline:
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    soundFileOnline:
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```

```
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'src/media/notes/gsharp4.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/gsharp4.mp4',
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  },
    name: 'a4',
    soundFileOffline:
'src/media/notes/a4.mp4',
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soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
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  },
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    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
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    octave: 4
  },
    name: 'b4',
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'src/media/notes/b4.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/b4.mp4',
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  },
```

```
name: 'c5',
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4/0/76407657/c5.mp4',
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  },
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    soundFileOffline:
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    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
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    name: 'd5',
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```

```
soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
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'https://javascriptbook.weebly.com/uploads/7/6/
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    octave: 5
  },
    name: 'e5',
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    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/e5.mp4',
    octave: 5
  },
```

```
name: 'f5',
    soundFileOffline:
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    octave: 5
  },
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'src/media/notes/fsharp5.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/fsharp5.mp4',
    octave: 5
  },
    name: 'g5',
    soundFileOffline:
'src/media/notes/g5.mp4',
```

```
soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
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    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
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    octave: 5
  },
    name: 'a5',
    soundFileOffline:
'src/media/notes/a5.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/a5.mp4',
    octave: 5
  },
```

```
name: 'asharp5',
    soundFileOffline:
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'https://javascriptbook.weebly.com/uploads/7/6/
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  },
    name: 'b5',
    soundFileOffline:
'src/media/notes/b5.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/b5.mp4',
    octave: 5
  },
    name: 'c6',
    soundFileOffline:
'src/media/notes/c6.mp4',
```

```
soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/c6.mp4',
    octave: 6
  },
    name: 'csharp6',
    soundFileOffline:
'src/media/notes/csharp6.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/csharp6.mp4',
    octave: 6
  },
    name: 'd6',
    soundFileOffline:
'src/media/notes/d6.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/d6.mp4',
    octave: 6
  },
```

```
name: 'dsharp6',
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'src/media/notes/dsharp6.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/dsharp6.mp4',
    octave: 6
  },
    name: 'e6',
    soundFileOffline:
'src/media/notes/e6.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/e6.mp4',
    octave: 6
  },
    name: 'f6',
    soundFileOffline:
'src/media/notes/f6.mp4',
```

```
soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/f6.mp4',
    octave: 6
  },
    name: 'fsharp6',
    soundFileOffline:
'src/media/notes/fsharp6.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
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    octave: 6
  },
    name: 'g6',
    soundFileOffline:
'src/media/notes/g6.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/g6.mp4',
    octave: 6
  },
```

```
name: 'gsharp6',
    soundFileOffline:
'src/media/notes/gsharp6.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/gsharp6.mp4',
    octave: 6
  },
    name: 'a6',
    soundFileOffline:
'src/media/notes/a6.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/a6.mp4',
    octave: 6
  },
    name: 'asharp6',
    soundFileOffline:
'src/media/notes/asharp6.mp4',
```

```
soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/asharp6.mp4',
    octave: 6
  },
    name: 'b6',
    soundFileOffline:
'src/media/notes/b6.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/b6.mp4',
    octave: 6
  },
    name: 'c7',
    soundFileOffline:
'src/media/notes/c7.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/c7.mp4',
    octave: 7
  },
```

```
name: 'csharp7',
    soundFileOffline:
'src/media/notes/csharp7.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/csharp7.mp4',
    octave: 7
  },
    name: 'd7',
    soundFileOffline:
'src/media/notes/d7.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/d7.mp4',
    octave: 7
  },
    name: 'dsharp7',
    soundFileOffline:
'src/media/notes/dsharp7.mp4',
```

```
soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/dsharp7.mp4',
    octave: 7
  },
    name: 'e7',
    soundFileOffline:
'src/media/notes/e7.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/e7.mp4',
    octave: 7
  },
    name: 'f7',
    soundFileOffline:
'src/media/notes/f7.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/f7.mp4',
    octave: 7
  },
```

```
name: 'fsharp7',
    soundFileOffline:
'src/media/notes/fsharp7.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/fsharp7.mp4',
    octave: 7
  },
    name: 'g7',
    soundFileOffline:
'src/media/notes/g7.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/g7.mp4',
    octave: 7
  },
    name: 'gsharp7',
    soundFileOffline:
'src/media/notes/gsharp7.mp4',
```

```
soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/gsharp7.mp4',
    octave: 7
  },
    name: 'a7',
    soundFileOffline:
'src/media/notes/a7.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/a7.mp4',
    octave: 7
  },
    name: 'asharp7',
    soundFileOffline:
'src/media/notes/asharp7.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/asharp7.mp4',
    octave: 7
  },
```

```
name: 'b7',
    soundFileOffline:
'src/media/notes/b7.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/b7.mp4',
    octave: 7
  },
    name: 'c8',
    soundFileOffline:
'src/media/notes/c8.mp4',
    soundFileOnline:
'https://javascriptbook.weebly.com/uploads/7/6/
4/0/76407657/c8.mp4',
    octave: 8
  },
];
//--//
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```

```
// https://github.com/ChristopherTopalian
II
https://github.com/ChristopherAndrewTopalian
// makeNotes.js
function makeNotes(whichId, whichArray,
whichX, whichY, whichOctave)
{
  let mainDiv = ce('div');
  mainDiv.style.padding = 5 + 'px';
  mainDiv.style.marginBottom = 5 + 'px';
  mainDiv.style.display = 'flex';
  mainDiv.style.flexDirection = 'row';
  ba(mainDiv);
  //-//
  let subDiv = ce('div');
  subDiv.id = whichId;
  subDiv.style.width = 400 + 'px';
  subDiv.style.height = '30px';
  subDiv.style.border = 'solid 1px rgb(0, 200,
200)";
  mainDiv.append(subDiv);
```

```
//-//
  // makeElementDraggable(subDiv);
  //-//
  for (let i = 0; i < whichArray.length; i++)
  {
     if (whichArray[i].octave == whichOctave)
     {
       let note = ce('div');
       note.id = whichArray[i].name;
       note.title = whichArray[i].name;
       note.style.position = 'absolute';
       note.style.left = whichX + 'px';
       note.style.width = 20 + 'px';
       note.style.height = 20 + 'px';
       note.style.border = 'solid 2px rgb(0, 0,
0)';
       note.onclick = function()
          audioPlay(whichArray[i].name +
'_note', 1.0);
       //-//
```

```
if (whichArray[i].name.length <= 3)</pre>
       {
          note.className = 'natural';
          note.textContent =
whichArray[i].name;
       else if (whichArray[i].name.length > 3)
          note.className = 'sharp';
          note.textContent =
whichArray[i].name.replace('sharp', '#');
       subDiv.append(note);
       // move to the next note position
       whichX += 30;
//--//
```

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```
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// makeTitleOfApp.js
function makeTitleOfApp()
{
  let titleContainer = ce('div');
  titleContainer.style.position = 'absolute';
  titleContainer.style.right = '10px';
  titleContainer.style.bottom = '10px';
  titleContainer.style.zlndex = 1;
  ba(titleContainer);
  //-//
  let titleOfApp = ce('a');
  titleOfApp.id = 'titleOfApp';
  titleOfApp.textContent = 'Topalian JavaScript
Piano':
  titleOfApp.href =
'https://github.com/christophertopalian';
  titleOfApp.target = '_blank';
```

```
titleOfApp.style.fontSize = '17px';
  titleOfApp.style.fontWeight = 'bold';
  titleContainer.append(titleOfApp);
}
//--//
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// https://github.com/ChristopherTopalian
https://github.com/ChristopherAndrewTopalian
// menuHarmonicMinorScales.js
function menuHarmonicMinorScales()
{
  let theld = 'harmonicMinorScales';
  //-//
  let mainDiv = ce("div");
  mainDiv.id = theld;
  mainDiv.style.position = "absolute";
  mainDiv.style.right = 265 +'px';
```

```
mainDiv.style.top = 20 + 'px';
mainDiv.style.width = 150 + 'px';
mainDiv.style.height = '150px';
mainDiv.style.zlndex = '3';
mainDiv.style.overflowY = 'scroll';
mainDiv.style.display = 'flex';
mainDiv.style.flexDirection = 'column';
mainDiv.style.resize = 'both';
ba(mainDiv);
makeElementDraggable(mainDiv);
//-//
let subDiv = ce('div');
subDiv.textContent = 'Harmonic Minor';
subDiv.style.color = 'rgb(255, 255, 255)';
mainDiv.append(subDiv);
//-//
subDiv.append(ce('br'));
//-//
let aButton = ce('button');
```

```
aButton.textContent = 'A';
aButton.onclick = function()
{
  clearScales();
  colorScale7(aHarmonicMinorScale);
};
subDiv.append(aButton);
//-//
let asharpButton = ce('button');
asharpButton.id = 'asharpButton';
asharpButton.textContent = 'A#';
asharpButton.onclick = function()
{
  clearScales();
  colorScale7(asharpHarmonicMinorScale);
};
subDiv.append(asharpButton);
//-//
let bButton = ce('button');
bButton.textContent = 'B';
bButton.onclick = function()
```

```
clearScales();
  colorScale7(bHarmonicMinorScale);
};
subDiv.append(bButton);
//-//
let cButton = ce('button');
cButton.id = 'cButton';
cButton.textContent = 'C';
cButton.onclick = function()
{
  clearScales();
  colorScale7(cHarmonicMinorScale);
};
subDiv.append(cButton);
//-//
let csharpButton = ce('button');
csharpButton.textContent = 'C#';
csharpButton.onclick = function()
{
  clearScales();
  colorScale7(csharpHarmonicMinorScale);
};
```

```
subDiv.append(csharpButton);
//-//
let dButton = ce('button');
dButton.textContent = 'D';
dButton.onclick = function()
{
  clearScales();
  colorScale7(dHarmonicMinorScale);
};
subDiv.append(dButton);
//-//
let dsharpButton = ce('button');
dsharpButton.textContent = 'D#';
dsharpButton.onclick = function()
{
  clearScales();
  colorScale7(dsharpHarmonicMinorScale);
};
subDiv.append(dsharpButton);
//-//
```

```
let eButton = ce('button');
eButton.textContent = 'E';
eButton.onclick = function()
{
  clearScales();
  colorScale7(eHarmonicMinorScale);
};
subDiv.append(eButton);
//-//
let fButton = ce('button');
fButton.textContent = 'F':
fButton.onclick = function()
{
  clearScales();
  colorScale7(fHarmonicMinorScale);
};
subDiv.append(fButton);
//-//
let fsharpButton = ce('button');
fsharpButton.textContent = 'F#';
fsharpButton.onclick = function()
```

```
clearScales();
  colorScale7(fsharpHarmonicMinorScale);
};
subDiv.append(fsharpButton);
//-//
let gButton = ce('button');
gButton.textContent = 'G';
gButton.onclick = function()
{
  clearScales();
  colorScale7(gHarmonicMinorScale);
};
subDiv.append(gButton);
//-//
let gsharpButton = ce('button');
gsharpButton.textContent = 'G#';
gsharpButton.onclick = function()
  clearScales();
  colorScale7(gsharpHarmonicMinorScale);
};
subDiv.append(gsharpButton);
```

```
//--//
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II
https://github.com/ChristopherAndrewTopalian
// menuMajorScales.js
function menuMajorScales()
{
  let theld = 'menuScales';
  //-//
  let mainDiv = ce("div");
  mainDiv.id = theld;
  mainDiv.style.position = "absolute";
  mainDiv.style.right = 100 +'px';
  mainDiv.style.top = 20 + 'px';
  mainDiv.style.width = 150 + 'px';
  mainDiv.style.height = '150px';
```

```
mainDiv.style.zIndex = '3';
mainDiv.style.overflowY = 'scroll';
mainDiv.style.display = 'flex';
mainDiv.style.flexDirection = 'column';
mainDiv.style.resize = 'both';
ba(mainDiv);
makeElementDraggable(mainDiv);
//-//
let subDiv = ce('div');
subDiv.textContent = 'Major';
subDiv.style.color = 'rgb(255, 255, 255)';
mainDiv.append(subDiv);
//-//
subDiv.append(ce('br'));
//-//
let aButton = ce('button');
aButton.textContent = 'A';
aButton.onclick = function()
```

```
clearScales();
  colorScale7(aMajorScale);
};
subDiv.append(aButton);
//-//
let asharpButton = ce('button');
asharpButton.textContent = 'A#';
asharpButton.onclick = function()
{
  clearScales();
  colorScale7(asharpMajorScale);
};
subDiv.append(asharpButton);
//-//
let bButton = ce('button');
bButton.textContent = 'B';
bButton.onclick = function()
{
  clearScales();
  colorScale7(bMajorScale);
};
subDiv.append(bButton);
```

```
//-//
let cButton = ce('button');
cButton.textContent = 'C';
cButton.onclick = function()
{
  clearScales();
  colorScale7(cMajorScale);
};
subDiv.append(cButton);
//-//
let csharpButton = ce('button');
csharpButton.textContent = 'C#';
csharpButton.onclick = function()
{
  clearScales();
  colorScale7(csharpMajorScale);
};
subDiv.append(csharpButton);
//-//
```

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let dButton = ce('button');

```
dButton.textContent = 'D';
dButton.onclick = function()
{
  clearScales();
  colorScale7(dMajorScale);
};
subDiv.append(dButton);
//-//
let dsharpButton = ce('button');
dsharpButton.textContent = 'D#';
dsharpButton.onclick = function()
{
  clearScales();
  colorScale7(dsharpMajorScale);
};
subDiv.append(dsharpButton);
//-//
let eButton = ce('button');
eButton.textContent = 'E';
eButton.onclick = function()
{
  clearScales();
```

```
colorScale7(eMajorScale);
};
subDiv.append(eButton);
//-//
let fButton = ce('button');
fButton.textContent = 'F';
fButton.onclick = function()
{
  clearScales();
  colorScale7(fMajorScale);
};
subDiv.append(fButton);
//-//
let fsharpButton = ce('button');
fsharpButton.textContent = 'F#';
fsharpButton.onclick = function()
{
  clearScales();
  colorScale7(fsharpMajorScale);
};
subDiv.append(fsharpButton);
```

//-//

```
let gButton = ce('button');
  gButton.textContent = 'G';
  gButton.onclick = function()
     clearScales();
     colorScale7(gMajorScale);
  };
  subDiv.append(gButton);
  //-//
  let gsharpButton = ce('button');
  gsharpButton.textContent = 'G#';
  gsharpButton.onclick = function()
     clearScales();
     colorScale7(gsharpMajorScale);
  };
  subDiv.append(gsharpButton);
//--//
```

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}

```
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II
https://github.com/ChristopherAndrewTopalian
// whichKeyPressed.js
function clickColor(whichId)
{
  ge(whichId).click();
  ge(whichId).style.borderColor = highlight;
  setTimeout(function()
  {
    ge(whichId).style.borderColor = sharp;
  }, 500);
let controlFlag = 1;
function whichKeyPressed(event)
  let level1 = 1;
  let level2 = 2;
```

```
let level3 = 3;
let level4 = 4;
if (controlFlag == 1)
{
  level1 = 1;
  level2 = 2;
  level3 = 3;
  level4 = 4;
}
else if (controlFlag == 2)
{
  level1 = 4;
  level2 = 5;
  level3 = 6;
  level4 = 7;
/*
else if(controlFlag == 3)
{
  level1 = 3;
  level2 = 4;
  level3 = 5;
  level4 = 6;
```

```
else if(controlFlag == 4)
{
  level1 = 4;
  level2 = 5;
  level3 = 6;
  level4 = 7;
}
else if(controlFlag == 5)
{
  level1 = 5;
  level2 = 6;
  level3 = 7;
  level4 = 8;
event.preventDefault();
if (event.code === 'ShiftLeft')
{
  clickColor('c' + level1);
}
```

```
else if (event.code === 'KeyZ')
  clickColor('csharp' + level1);
else if (event.code === 'KeyX')
{
  clickColor('d' + level1);
else if (event.code === 'KeyC')
  clickColor('dsharp' + level1);
else if (event.code === 'KeyV')
  clickColor('e' + level1);
else if (event.code === 'KeyB')
  clickColor('f' + level1);
else if (event.code === 'KeyN')
{
  clickColor('fsharp' + level1);
```

```
else if (event.code === 'KeyM')
  clickColor('g' + level1);
else if (event.code === 'Comma')
{
  clickColor('gsharp' + level1);
else if (event.code === 'Period') // slash
{
  clickColor('a' + level1);
else if (event.code === 'Slash') // slash
  clickColor('asharp' + level1);
}
else if (event.code === 'ShiftRight')
{
  clickColor('b' + level1);
//-//
else if (event.code === 'CapsLock')
```

```
{
  clickColor('c' + level2);
else if (event.code === 'KeyA')
{
  clickColor('csharp' + level2);
else if (event.code === 'KeyS')
{
  clickColor('d' + level2);
else if (event.code === 'KeyD')
{
  clickColor('dsharp' + level2);
else if (event.code === 'KeyF')
  clickColor('e' + level2);
else if (event.code === 'KeyG')
```

```
clickColor('f' + level2);
}
else if (event.code === 'KeyH')
  clickColor('fsharp' + level2);
}
else if (event.code === 'KeyJ')
{
  clickColor('g' + level2);
else if (event.code === 'KeyK')
  clickColor('gsharp' + level2);
}
else if (event.code === 'KeyL')
{
  clickColor('a' + level2);
}
else if (event.code === 'Semicolon')
{
  clickColor('asharp' + level2);
```

```
else if (event.code === 'Quote')
{
  clickColor('b' + level2);
//-//
else if (event.code === 'Tab')
{
  clickColor('c' + level3);
else if (event.code === 'KeyQ')
{
  clickColor('csharp' + level3);
else if (event.code === 'KeyW')
  clickColor('d' + level3);
}
else if (event.code === 'KeyE')
```

```
clickColor('dsharp' + level3);
else if (event.code === 'KeyR')
  clickColor('e' + level3);
else if (event.code === 'KeyT')
{
  clickColor('f' + level3);
else if (event.code === 'KeyY')
  clickColor('fsharp' + level3);
}
else if (event.code === 'KeyU')
{
  clickColor('g' + level3);
}
else if (event.code === 'Keyl')
{
  clickColor('gsharp' + level3);
```

```
else if (event.code === 'KeyO')
{
  clickColor('a' + level3);
else if (event.code === 'KeyP')
{
  clickColor('asharp' + level3);
else if (event.code === 'BracketLeft')
  clickColor('b' + level3);
//-//
else if (event.code === 'Backquote') // ~
  clickColor('c' + level4);
}
else if (event.code === 'Digit1')
```

```
clickColor('csharp' + level4);
}
else if (event.code === 'Digit2')
  clickColor('d' + level4);
else if (event.code === 'Digit3')
{
  clickColor('dsharp' + level4);
else if (event.code === 'Digit4')
  clickColor('e' + level4);
}
else if (event.code === 'Digit5')
{
  clickColor('f' + level4);
}
else if (event.code === 'Digit6')
{
  clickColor('fsharp' + level4);
```

```
else if (event.code === 'Digit7')
{
  clickColor('g' + level4);
else if (event.code === 'Digit8')
  clickColor('gsharp' + level4);
else if (event.code === 'Digit9')
  clickColor('a' + level4);
else if (event.code === 'Digit0')
{
  clickColor('asharp' + level4);
else if (event.code === 'Minus')
  clickColor('b' + level4);
```

```
//-//
  else if (event.code === 'ArrowUp')
     if (controlFlag < 2)
       controlFlag += 1;
  else if (event.code === 'ArrowDown')
  {
     if (controlFlag > 1)
       controlFlag -= 1;
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// https://github.com/ChristopherTopalian
```

```
//
https://github.com/ChristopherAndrewTopalian
// clearScales.js
function clearScales()
{
  color('c1', natural);
  color('csharp1', sharp);
  color('d1', natural);
  color('dsharp1', sharp);
  color('e1', natural);
  color('f1', natural);
  color('fsharp1', sharp);
  color('g1', natural);
  color('gsharp1', sharp);
  color('a1', natural);
  color('asharp1', sharp);
  color('b1', natural);
  //-//
  color('c2', natural);
  color('csharp2', sharp);
  color('d2', natural);
  color('dsharp2', sharp);
```

```
color('e2', natural);
color('f2', natural);
color('fsharp2', sharp);
color('g2', natural);
color('gsharp2', sharp);
color('a2', natural);
color('asharp2', sharp);
color('b2', natural);
//-//
color('c3', natural);
color('csharp3', sharp);
color('d3', natural);
color('dsharp3', sharp);
color('e3', natural);
color('f3', natural);
color('fsharp3', sharp);
color('g3', natural);
color('gsharp3', sharp);
color('a3', natural);
color('asharp3', sharp);
color('b3', natural);
//-//
```

```
color('csharp4', sharp);
color('d4', natural);
color('dsharp4', sharp);
color('e4', natural);
color('f4', natural);
color('fsharp4', sharp);
color('g4', natural);
color('gsharp4', sharp);
color('a4', natural);
color('asharp4', sharp);
color('b4', natural);
//-//
color('c5', natural);
color('csharp5', sharp);
color('d5', natural);
color('dsharp5', sharp);
color('e5', natural);
color('f5', natural);
color('fsharp5', sharp);
color('g5', natural);
color('gsharp5', sharp);
color('a5',natural);
color('asharp5', sharp);
```

color('c4', natural);

```
color('b5', natural);
//-//
color('c6', natural);
color('csharp6', sharp);
color('d6', natural);
color('dsharp6', sharp);
color('e6', natural);
color('f6', natural);
color('fsharp6', sharp);
color('g6', natural);
color('gsharp6', sharp);
color('a6', natural);
color('asharp6', sharp);
color('b6', natural);
//-//
color('c7', natural);
color('csharp7', sharp);
color('d7', natural);
color('dsharp7', sharp);
color('e7', natural);
color('f7', natural);
color('fsharp7', sharp);
```

```
color('g7', natural);
  color('gsharp7', sharp);
  color('a7', natural);
  color('asharp7', sharp);
  color('b7', natural);
  //-//
  color('c8', natural);
}
//--//
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// https://github.com/ChristopherTopalian
||
https://github.com/ChristopherAndrewTopalian
// color.js
function color(whichId, whichColor)
{
  let element = ge(whichId);
```

```
if (element)
    element.style.backgroundColor =
whichColor;
  else
    console.log("Element with id " + whichld +
 not found.");
//--//
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// https://github.com/ChristopherTopalian
II
https://github.com/ChristopherAndrewTopalian
// colorScale7.js
function colorScale7(whichArray)
{
  color(whichArray[0] + 1, highlight);
```

```
color(whichArray[1] + 1, highlight);
color(whichArray[2] + 1, highlight);
color(whichArray[3] + 1, highlight);
color(whichArray[4] + 1, highlight);
color(whichArray[5] + 1, highlight);
color(whichArray[6] + 1, highlight);
//-//
color(whichArray[0] + 2, highlight);
color(whichArray[1] + 2, highlight);
color(whichArray[2] + 2, highlight);
color(whichArray[3] + 2, highlight);
color(whichArray[4] + 2, highlight);
color(whichArray[5] + 2, highlight);
color(whichArray[6] + 2, highlight);
//-//
color(whichArray[0] + 3, highlight);
color(whichArray[1] + 3, highlight);
color(whichArray[2] + 3, highlight);
color(whichArray[3] + 3, highlight);
color(whichArray[4] + 3, highlight);
color(whichArray[5] + 3, highlight);
color(whichArray[6] + 3, highlight);
```

//-//

```
color(whichArray[0] + 4, highlight);
color(whichArray[1] + 4, highlight);
color(whichArray[2] + 4, highlight);
color(whichArray[3] + 4, highlight);
color(whichArray[4] + 4, highlight);
color(whichArray[5] + 4, highlight);
color(whichArray[6] + 4, highlight);
//-//
color(whichArray[0] + 5, highlight);
color(whichArray[1] + 5, highlight);
color(whichArray[2] + 5, highlight);
color(whichArray[3] + 5, highlight);
color(whichArray[4] + 5, highlight);
color(whichArray[5] + 5, highlight);
color(whichArray[6] + 5, highlight);
//-//
color(whichArray[0] + 6, highlight);
color(whichArray[1] + 6, highlight);
color(whichArray[2] + 6, highlight);
```

```
color(whichArray[3] + 6, highlight);
color(whichArray[4] + 6, highlight);
color(whichArray[5] + 6, highlight);
color(whichArray[6] + 6, highlight);
//-//
color(whichArray[0] + 7, highlight);
color(whichArray[1] + 7, highlight);
color(whichArray[2] + 7, highlight);
color(whichArray[3] + 7, highlight);
color(whichArray[4] + 7, highlight);
color(whichArray[5] + 7, highlight);
color(whichArray[6] + 7, highlight);
//-//
color(whichArray[0] + 8, highlight);
color(whichArray[1] + 8, highlight);
color(whichArray[2] + 8, highlight);
color(whichArray[3] + 8, highlight);
color(whichArray[4] + 8, highlight);
color(whichArray[5] + 8, highlight);
color(whichArray[6] + 8, highlight);
```

}

```
/*
function colorScale7(whichArray)
{
  for (let i = 0; i < whichArray.length; i++) {
    for (let j = 1; j \le 8; j++)
       let idToColor = whichArray[i] + j;
       color(idToColor, highlight);
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II
https://github.com/ChristopherAndrewTopalian
// colorScale8.js
function colorScale8(whichArray)
```

```
color(whichArray[0] + 1, highlight);
color(whichArray[1] + 1, highlight);
color(whichArray[2] + 1, highlight);
color(whichArray[3] + 1, highlight);
color(whichArray[4] + 1, highlight);
color(whichArray[5] + 1, highlight);
color(whichArray[6] + 1, highlight);
color(whichArray[7] + 1, highlight);
//-//
color(whichArray[0] + 2, highlight);
color(whichArray[1] + 2, highlight);
color(whichArray[2] + 2, highlight);
color(whichArray[3] + 2, highlight);
color(whichArray[4] + 2, highlight);
color(whichArray[5] + 2, highlight);
color(whichArray[6] + 2, highlight);
color(whichArray[7] + 2, highlight);
//-//
color(whichArray[0] + 3, highlight);
color(whichArray[1] + 3, highlight);
color(whichArray[2] + 3, highlight);
color(whichArray[3] + 3, highlight);
```

```
color(whichArray[4] + 3, highlight);
color(whichArray[5] + 3, highlight);
color(whichArray[6] + 3, highlight);
color(whichArray[7] + 3, highlight);
//-//
color(whichArray[0] + 4, highlight);
color(whichArray[1] + 4, highlight);
color(whichArray[2] + 4, highlight);
color(whichArray[3] + 4, highlight);
color(whichArray[4] + 4, highlight);
color(whichArray[5] + 4, highlight);
color(whichArray[6] + 4, highlight);
color(whichArray[7] + 4, highlight);
//-//
color(whichArray[0] + 5, highlight);
color(whichArray[1] + 5, highlight);
color(whichArray[2] + 5, highlight);
color(whichArray[3] + 5, highlight);
color(whichArray[4] + 5, highlight);
color(whichArray[5] + 5, highlight);
```

color(whichArray[6] + 5, highlight);

color(whichArray[7] + 5, highlight);

//-//

```
color(whichArray[0] + 6, highlight);
color(whichArray[1] + 6, highlight);
color(whichArray[2] + 6, highlight);
color(whichArray[3] + 6, highlight);
color(whichArray[4] + 6, highlight);
color(whichArray[5] + 6, highlight);
color(whichArray[6] + 6, highlight);
color(whichArray[7] + 6, highlight);
//-//
color(whichArray[0] + 7, highlight);
color(whichArray[1] + 7, highlight);
color(whichArray[2] + 7, highlight);
color(whichArray[3] + 7, highlight);
color(whichArray[4] + 7, highlight);
color(whichArray[5] + 7, highlight);
color(whichArray[6] + 7, highlight);
color(whichArray[7] + 7, highlight);
color(whichArray[0] + 8, highlight);
color(whichArray[1] + 8, highlight);
```

color(whichArray[2] + 8, highlight);

```
color(whichArray[3] + 8, highlight);
  color(whichArray[4] + 8, highlight);
  color(whichArray[5] + 8, highlight);
  color(whichArray[6] + 8, highlight);
}
//--//
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//
https://github.com/ChristopherAndrewTopalian
// harmonicMinorScale.js
let aHarmonicMinorScale = [ "a", "b", "c", "d",
"e", "f", "gsharp" ];
let asharpHarmonicMinorScale = [ "asharp",
"c", "csharp", "dsharp", "f", "fsharp", "a" ];
let bHarmonicMinorScale = [ "b", "csharp", "d",
"e", "fsharp", "g", "asharp" ];
```

```
let cHarmonicMinorScale = [ "c", "d", "dsharp",
"f", "g", "gsharp", "b" ];
let csharpHarmonicMinorScale = [ "csharp",
"dsharp", "e", "fsharp", "gsharp", "a", "c" ];
let dHarmonicMinorScale = [ "d", "e", "f", "g",
"a", "asharp", "csharp" ];
let dsharpHarmonicMinorScale = [ "dsharp",
"f", "fsharp", "gsharp", "asharp", "b", "d" ];
let eHarmonicMinorScale = [ "e", "fsharp", "g",
"a", "b", "c", "dsharp" ];
let fHarmonicMinorScale = [ "f", "g", "gsharp",
"asharp", "c", "csharp", "e"];
let fsharpHarmonicMinorScale = [ "fsharp",
"gsharp", "a", "b", "csharp", "d", "f" ];
let gHarmonicMinorScale = [ "g", "a", "asharp",
"c", "d", "dsharp", "fsharp" ];
let gsharpHarmonicMinorScale = [ "gsharp",
"asharp", "b", "csharp", "dsharp", "e", "g" ];
```

```
//--//
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// majorScale.js
let aMajorScale = [ "a", "b", "csharp", "d", "e",
"fsharp", "gsharp" ];
let asharpMajorScale = ["asharp", "c",
"csharp", "dsharp", "f", "fsharp", "gsharp"];
let bMajorScale = [ "b", "csharp", "dsharp",
"e", "fsharp", "gsharp", "asharp" ];
let cMajorScale = [ "c", "d", "e", "f", "g", "a",
"b" ];
let csharpMajorScale = [ "csharp", "dsharp",
"e", "fsharp", "gsharp", "asharp", "b" ];
```

```
let dMajorScale = [ "d", "e", "fsharp", "g", <u>"a",</u>
"b", "csharp" ];
let dsharpMajorScale = [ "dsharp", "f",
"fsharp", "gsharp", "asharp", "c", "csharp" ];
let eMajorScale = [ "e", "fsharp", "gsharp", "a",
"b", "csharp", "dsharp" ];
let fMajorScale = [ "f", "g", "a", "asharp", "c",
"d", "e" ];
let fsharpMajorScale = [ "fsharp", "gsharp",
"asharp", "b", "csharp", "dsharp", "f" ];
let gMajorScale = [ "g", "a", "b", "c", "d", "e",
"fsharp"];
let gsharpMajorScale = [ "gsharp", "asharp",
"b", "csharp", "dsharp", "f", "fsharp" ];
//--//
// Dedicated to God the Father
```

```
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// audioPlay.js
function audioPlay(noteld, volume)
{
  let audioElement = ge(noteld);
  if (audioElement)
  {
    audioElement.volume = volume;
    audioElement.currentTime = 0.05;
    audioElement.play();
//--//
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```

```
//
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// loadSounds.js
function loadSounds(whichArray)
{
  for (let x = 0; x < whichArray.length; <math>x++)
  {
    let theSound = ce('audio');
    if (online == false)
       theSound.src =
whichArray[x].soundFileOffline;
    else
       theSound.src =
whichArray[x].soundFileOnline;
    theSound.id = whichArray[x].name +
' note';
    theSound.loop = false;
    theSound.volume = 1.0;
```

```
ba(theSound);
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//
https://github.com/ChristopherAndrewTopalian
// sounds.js
let sounds =
    name: 'sfx_blip_001',
    soundFileOffline:
'src/media/sounds/sfx_blip_001.mp4',
    soundFileOnline:
'https://collegeofscripting.weebly.com/uploads/
6/4/4/8/64482293/sfx_blip_001.mp4'
  },
```

```
name: 'sfx_warp_001',
    soundFileOffline:
'src/media/sounds/sfx_warp_001.mp3',
    soundFileOnline:
'https://collegeofscripting.weebly.com/uploads/
6/4/4/8/64482293/sfx_warp_001.mp3'
  },
];
//--//
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//
https://github.com/ChristopherAndrewTopalian
// makeElementDraggable.js
// creating event handler for mouse down
function createMouseDownHandler(element,
state) {
  return function(e)
```

```
// ignore mouse down events on textarea
or input elements
    if (e.target.tagName === 'TEXTAREA' ||
e.target.tagName === 'INPUT')
       return;
    e.preventDefault();
    state.startX = e.clientX;
    state.startY = e.clientY;
    document.onmousemove =
createMouseMoveHandler(element, state);
    document.onmouseup =
createMouseUpHandler();
  };
// creating event handler for mouse move
function createMouseMoveHandler(element,
state) {
  return function(e)
```

```
// ignore mouse move events on textarea
or input elements
    if (e.target.tagName === 'TEXTAREA' ||
e.target.tagName === 'INPUT')
       return;
    e.preventDefault();
    let deltaX = state.startX - e.clientX;
    let deltaY = state.startY - e.clientY;
    state.startX = e.clientX;
    state.startY = e.clientY;
    let newTop = element.offsetTop - deltaY;
    let newLeft = element.offsetLeft - deltaX;
    element.style.top = newTop + "px";
    element.style.left = newLeft + "px";
```

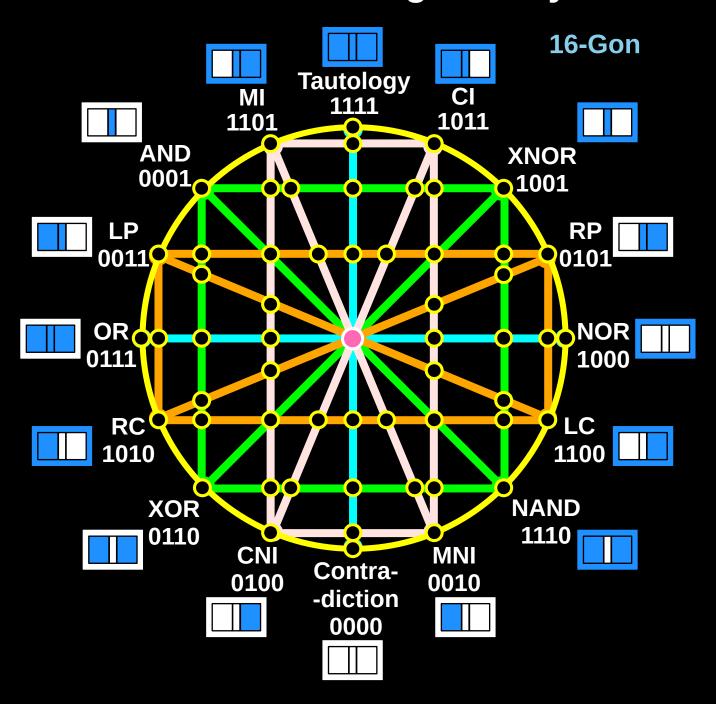
// creating event handler for mouse up function createMouseUpHandler()

```
{
  return function()
  {
    document.onmousemove = null;
    document.onmouseup = null;
  };
// make an element draggable
function makeElementDraggable(element)
{
  let state = { startX: 0, startY: 0 };
  element.onmousedown =
createMouseDownHandler(element, state);
//--//
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//
https://github.com/ChristopherAndrewTopalian
```

```
// whenLoaded.js
function whenLoaded()
{
  loadSounds(sounds);
  loadSounds(notes);
  window.addEventListener("keydown",
whichKeyPressed, false);
  makeTitleOfApp();
  menuMajorScales();
  menuHarmonicMinorScales();
  makeNotes('octave8', notes, 20, 340, 8);
  makeNotes('octave7', notes, 20, 340, 7);
  makeNotes('octave6', notes, 20, 340, 6);
  makeNotes('octave5', notes, 20, 340, 5);
  makeNotes('octave4', notes, 20, 340, 4);
  makeNotes('octave3', notes, 20, 340, 3);
  makeNotes('octave2', notes, 20, 340, 2);
  makeNotes('octave1', notes, 20, 340, 1);
//--//
```

```
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//
https://github.com/ChristopherAndrewTopalian
</script>
</head>
<body onload = 'whenLoaded();'>
</body>
</html>
```

True Artificial Intelligence System



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This book is created by the College of Scripting Music & Science. Always remember, that each time you write a script with a pencil and paper, it becomes imprinted so deeply in memory that the material and methods are learned extremely well.

When you Type the scripts, the same is true. The more you type and write out the scripts by keyboard or pencil and paper, the more you will learn programming!

Write and Type every example that you find. Keep all of your scripts organized. Every script that you create increases your programming abilities. SEEING CODE, is one thing, but WRITING CODE is another. Write it, Type it, Speak it, See it, Dream it.

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