The NibbleTronic

A MIDI Wind Controller
Outline

- The NibbleTronic electronic wind instrument (EWI)
- Its development
- Other EWIs
- Reflections on the role of EWIs
16  8  4  2  1
= 0

= 1

= 2

= 31
<table>
<thead>
<tr>
<th>C</th>
<th>13 / 14</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>12</td>
</tr>
<tr>
<td>A#</td>
<td>11</td>
</tr>
<tr>
<td>A</td>
<td>10</td>
</tr>
<tr>
<td>G#</td>
<td>9</td>
</tr>
<tr>
<td>G</td>
<td>7 / 8</td>
</tr>
<tr>
<td>F</td>
<td>6</td>
</tr>
<tr>
<td>E#</td>
<td>5</td>
</tr>
<tr>
<td>E</td>
<td>4</td>
</tr>
<tr>
<td>D#</td>
<td>3</td>
</tr>
<tr>
<td>D</td>
<td>2</td>
</tr>
<tr>
<td>C#</td>
<td>1</td>
</tr>
<tr>
<td>C</td>
<td>0</td>
</tr>
</tbody>
</table>

8  4  2  1

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The image contains a table with musical notes and their corresponding positions. The table includes notes A# (11), G# (9), B (12), A (10), G (7/8), F (6), E# (5), E (4), D# (3), D (2), C# (1), and C (0). The right side of the image shows rows of blue and gray rectangles with diagonal lines indicating the positions of these notes.
Notes

Pitch bend/Modulation

Whatever
Octaves
Prior Art

- At least two instructables
- As many on Hackaday
- The Airduino project
- The Gordophone blog
- Nyle Steiners EVI
- And of course the Akai EWI
Reasons to use an EWI

- Practice in silence
- Create a unique sound
- Do things that traditional instruments can't
  - Record input instead of sound
  - Quantize input
- Use a non traditional control scheme
  - Fewer buttons
  - Foot pedals
EWI for a T-Rex

- Mouthpiece
- Thumb holes
- Claw pads
- Bend controller
A Mystery
Parallel Evolution

- Metal rollers to change the octave
- React to touch rather than pressure
- Give great haptic feedback
Conclusions

- EWIs exist since the 60s
- They are well documented DIY projects
- Fill a niche
- You probably should build one
Sources

- The Gordophone blog: http://gordophone.blogspot.de/
- Patchman Music: http://www.patchmanmusic.com/
- NibbleTronic: http://www.schlimme-gegend.de/schlimme-ideen/nibbletronic/
DECT: 5755 (krkl)
Twitter: @chtapp
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