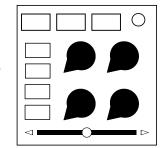
## On the Subject of Sound Design

Mmm sounds.

• The module will consist of four dials labelled A (Attack), R (Release), P (Pitch), and PW (Pulse Width). The four buttons on the left side of the module correspond to the four types of Waveforms (sine, triangle, saw, and square). There is also a Submit button, a Play button, a Preview button, and a Volume



- bar with left and right arrow buttons.
- The dials will turn upon clicking them. This will set the value of the dial from O (south west) to another number depending on how many times the dial can rotate. The Waveform buttons can be pressed to select a Waveform. Upon pressing them, they will move in. They will move back out when another button is pressed. The Submit button will submit the chosen values, the Play button will play the sound clip, the Preview button will play the sound made from the chosen values, and the left and right arrow buttons will lower and raise the Volume of any played sound by 10% (default is 50%).

The following list will explain the functions of the four dials:

- Attack: The attack of a sound is how long the sound takes to fade in. This is represented by a 0% (South west), 50% (North), or 100% (South East) on the dial.
- Release: The release of a sound is how long the sound takes to fade out. This is represented by a 0% (South west), 50% (North), or 100% (South East) on the dial.
- Pitch: The pitch of a sound is how high or low the sound is (sounds will always be on a C major scale). This is represented by a C (South West), D (West), etc. for every 45 degrees.
- Pulse Width: The pulse width of a square wave is the elapsed time between the edges of a single pulse (rising and falling movement of a sound wave). This is represented by a 0% (South west), 50% (North), or 100% (South East) on the dial. A higher pulse width will sound "harsher" and more "8-bit" than a lower one. Any other wave will not have a pulse width, therefore the knob will stay at 0%

The following list will explain the functions of the leftmost four buttons:

- Sine: The sine wave is the basic type for a sound, and sounds smooth and clean.
- **Triangle:** The triangle wave is similar to both a sine and square wave, but not exactly. It will sound buzzy and clear but not as much as a square and sine wave.
- Saw: The saw wave is the buzziest of all the waveforms, sounding very jagged.
- Square: The square wave contains the elements of a sine wave, but sounds buzzy and rich.

To solve this module, you will need to recreate the sound clip by selecting the clip's Waveform, Attack, Release, Pitch, and Pulse Width. Once you do this, hit Submit to lock in your answer.