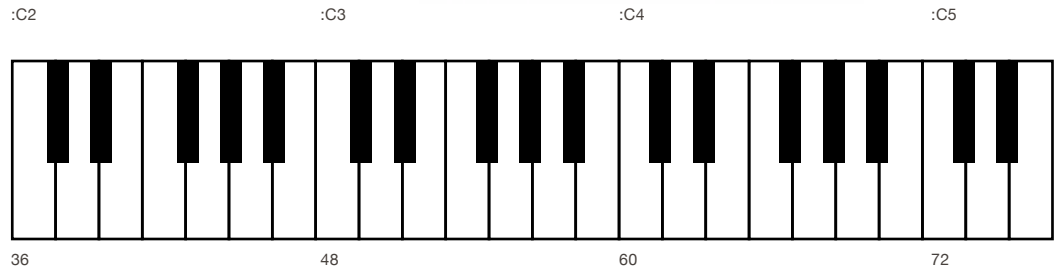


Activity 5: data and beats: listening to information

The Raspberry Pi has a lot of built-in activities for learning to program; one is Sonic Pi, which makes sounds & music by writing code.



To play a note with Sonic Pi, use the `play` command with a number or a note name.

```
play 60
play :c4
```

Notes between 40 and 80 sound nice.

To play several notes use more than one `play` command so that they play together.

```
play :c4
play :e4
play :g4
```

To play a different sound, choose a synth with **use_synth** e.g

```
use_synth :tb303
```

You can change the tone, by changing the cutoff

```
use_synth :tb303
play 62, cutoff: 80
```

To play several notes use more than one `play` command with a `sleep 1` between the notes so that they play one after another.

```
play 60
sleep 1
play 62
sleep 1
```

Further research

Look at the Sonic Pi website, listen to the examples of music and sound that have been created using it. <http://sonic-pi.net> (you can download Sonic pi for Windows, MacOS, Linux, Pi for free)

Look at the Raspberry Pi website and find out about some of the projects which have been done with it. <https://www.raspberrypi.org>

Look at the British Antarctic Survey's work at <https://www.bas.ac.uk>.