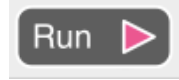


## Section 1: Live coding music with Sonic Pi

**Sonic Pi** is a program that lets you make music by writing code, rather than pressing keys on a piano, hitting drums, or plucking guitar strings.

To **listen** to a piece click the **Run** button.



To **stop it playing** click the **Stop** button.

Click on the following links to find Sonic Pi code for arrangements of these tunes:

[Shake it off - Taylor Swift](#)

[Running up that Hill - Kate Bush](#)

[This is what you came for - Calvin Harris](#)

[Get Lucky - Daft Punk](#)

[Sweet Dreams are Made of This - The Eurythmics](#)

Select the code and use **Copy** and **Paste** to put it into one of the 9 buffers in the Sonic Pi window.

### Push the tempo!

In Sonic Pi the command **use\_bpm** tells the

```
use_bpm 60
```

### Change the Synth

computer how fast to play the music. Here we're telling it to use a bpm (**beats per minute**) of 60:

Change the number, then click the **Run** button to hear how your new bpm sounds.

```
use_synth :blade
```

**Synths** (short for synthesisers) are what the computer uses to create a note electronically as you play it. If you've ever played an electronic keyboard you've used a synth.

The **use\_synth** command tells Sonic Pi which synth to use.

Try typing in a different value for the synth name (in pink) when you see the **use\_synth** command. Some others to try are:

- `:prophet` `:pluck` `:supersaw` `:pretty_bell` `:mod_sine`
- `:chiplead` `:hoover` `:tb303` `:zawa` `:dsaw` `:piano`

Click on the **Run** button again to hear the change in sound (it might take a few seconds to work).

## Change the sample

Samples are small sound clips that have been made and recorded earlier.

This command tells Sonic Pi to play the sample “loop\_amen”:

```
sample :loop_amen
```

Try changing some of the samples used in the tunes you’re remixing. Some samples to try are:

```
:vinyl_rewind :bass_drop_c :bd_haus :bd_808 :guit_em9
:drum_cymbal_open :tabla_na :misc_cineboom
:ambi_lunar_landing :drum_cymbal_closed :misc_crow
```

## Change the FX

**Effects** (or **FX** for short) change the sound of synths and samples - like an FX pedal on an electric guitar.

This command tells Sonic Pi to use the “bitcrusher” effect.

```
with_fx :bitcrusher
```

Try changing the FX used when you see a **with\_fx** command in the code you’re remixing. Some to try out are:

```
:krush :wobble :echo :reverb :panslicer :ixi_techno
:gverb :ring_mod :distortion :compressor :whammy
```

## Section 2: Create your own code

Click on the link below to find the Mehackit online tutorial for Sonic Pi:  
<https://sonic-pi.mehackit.org/>

## Use your own samples

Ambient Scotrail

<https://www.matteason.co.uk/scotbeats/>

You can download some of the Scotrail Announcements here (or get all of that selection by downloading the Wavs.zip file)

<https://www.dropbox.com/sh/1s16iusa2rka0yk/AAA4zJWnGwpqcKzzmWPQktHja?dl=0>

## Jam with a friend

The `live_audio` command allows you to add live input from someone playing an instrument

```
with_fx :reverb do  
  live_audio :foo , input: 1, amp: 1  
end
```

## Some other resources

Sonic Pi video tutorials from music teacher **Mister Bomb**

### Introductory

[https://www.youtube.com/playlist?list=PLIsdHp2z9wFICliPWF-wFSwCufexlcj\\_p](https://www.youtube.com/playlist?list=PLIsdHp2z9wFICliPWF-wFSwCufexlcj_p)

### Intermediate

<https://www.youtube.com/playlist?list=PLIsdHp2z9wFlu3MRll0eS5NysniOOnXL5>



