

Sonic Pi Basics

Here are some of the basic terms, functions and language you will use in Sonic Pi. With these building blocks you can create all kinds of sounds, beats, noises and compositions!

play

play a note

syntax:

play 50

play :A4

sleep

wait for amount of time before doing next thing

syntax:

sleep 1 (1 = one second)

sample

play sample

syntax:

sample :drum_heavy_kick

(all samples listed in help section of Sonic Pi)
to change speed/pitch use rate

sample :drum_heavy_kick, rate: 1

loop

loop a piece of code continuously

syntax:

loop do

your code

end

*** Sonic Pi: Live and Coding ***

n.times

#play a piece of code a specific number of times

#syntax:

```
n.times do
  your code
end
```

#change n to number of times you want code to repeat

use_synth

#set synth sound

#syntax:

```
use_synth :tb303
```

#all synth sounds are listed in Sonic Pi's help panel

use_synth_defaults

#change synth settings

#syntax:

```
use_synth_defaults attack: 0.25, amp: 2
```

#each synth listing, in the help panel, will tell

#you which parameters you can change for that sound

with_fx

#add effects to your synths and samples

#syntax:

```
with_fx :reverb, mix: 0.5 do
  your code
end
```

#all available fx are listed in the help panel, along

#with all the parameters you can change

in_thread

#make different parts play simultaneously

#syntax:

```
in_thread do
  your code
end
```

choose

#randomly choose a value from a set of values each

#time your code loops

#syntax:

```
play [50, 55, 60].choose
play [:A3, :C4, :D4, :E3].choose
sleep [1, 0.5, 0.25, 0.125, 4].choose
```

rrand

#randomly pick a value from a range of values each

#time your code loops

#syntax:

```
play rrand(50, 100)
play rrand(0.1, 1)
```

#the first number in the brackets is the minimum

#value, the second the maximum value

#rrand will play any decimal value between your min and max, not just whole numbers. To use just whole numbers use rrand_i rather than rrand

Further guidance on Sonic Pi language and syntax can be found in the help section of the program itself, along with useful code examples.

There is a great online starter guide to using Sonic Pi 2 available here:

www.raspberrypi.org/learning/sonic-pi-2-taster