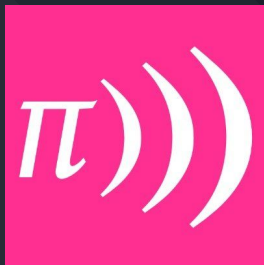# Sonic Pi

Learn to code, compose, and perform music

The UI

Play a beep

play 60

Play a beep

play 60

50, 20, 65

Learning about sleeps

play 60

play 60

play 70

VS

sleep 1

play 70

Learning about sleeps

play 60

play 70

VS

2, 4, 5   play 60

sleep 1

play 70

play 60 = play :c

play 60   =   play :c

Some other values for notes:
- :a = 69
- :b = 71
- :d = 62
- :e = 64
- :f = 65
- :g = 67

More about playing notes

Pitch

play :cs

Pitch

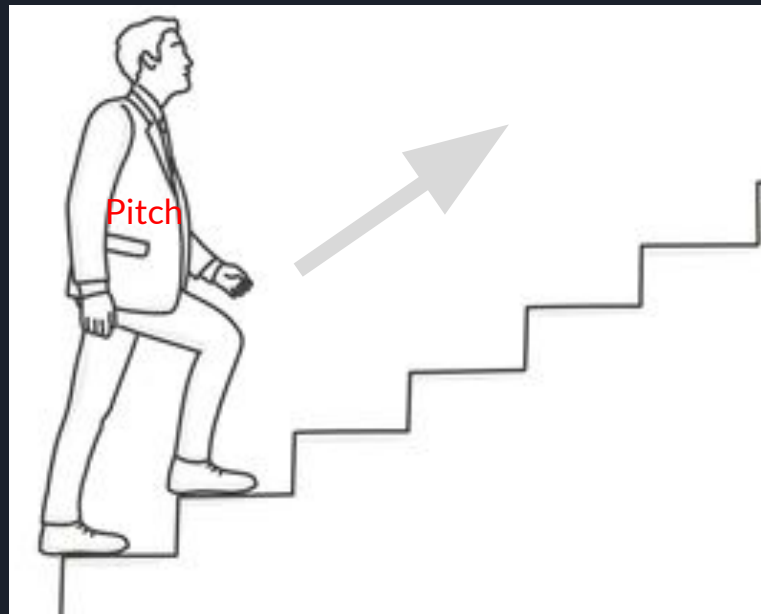play :cb

More about playing notes
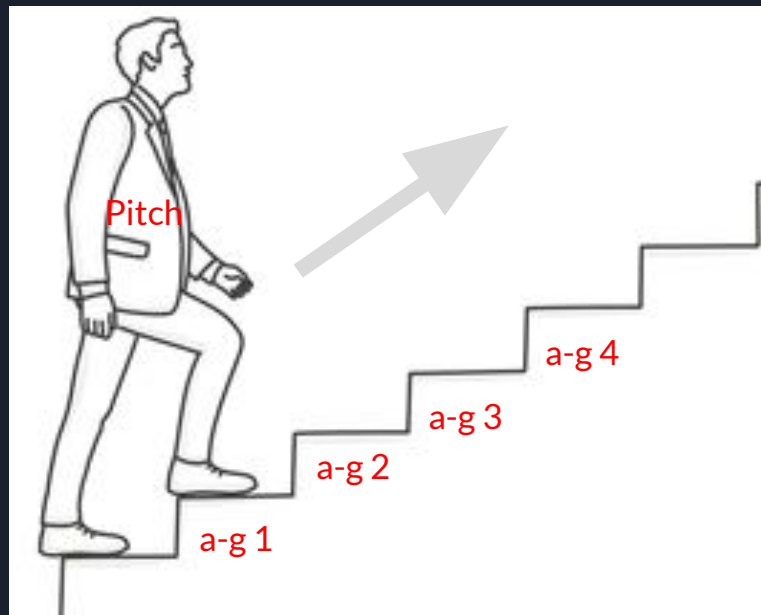
Pitch

play :cs

Pitch

play :cb

Learning about Octaves

Learning about Octaves

Playing Chords

```
play :c4
sleep 1
play :d4
sleep 1
play :e4
```

VS

`play_chord [:c4, :d4, :e4]`

* Remember you can only use letter notes for the play chord command

Play Pattern

play 60
sleep 1
play 70
sleep 1
play 80

VS play_pattern [60, 70, 80]

Using sustains

play :c4 ⟶ play :c4, sustain: 1
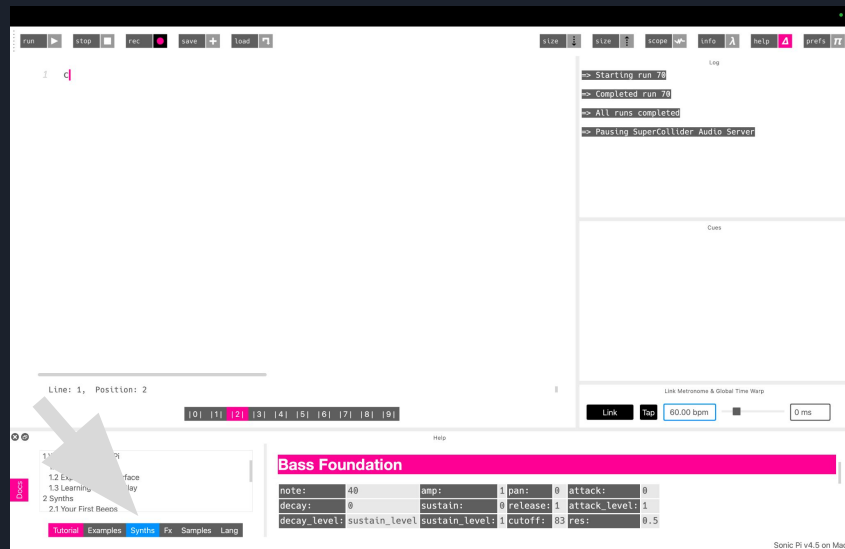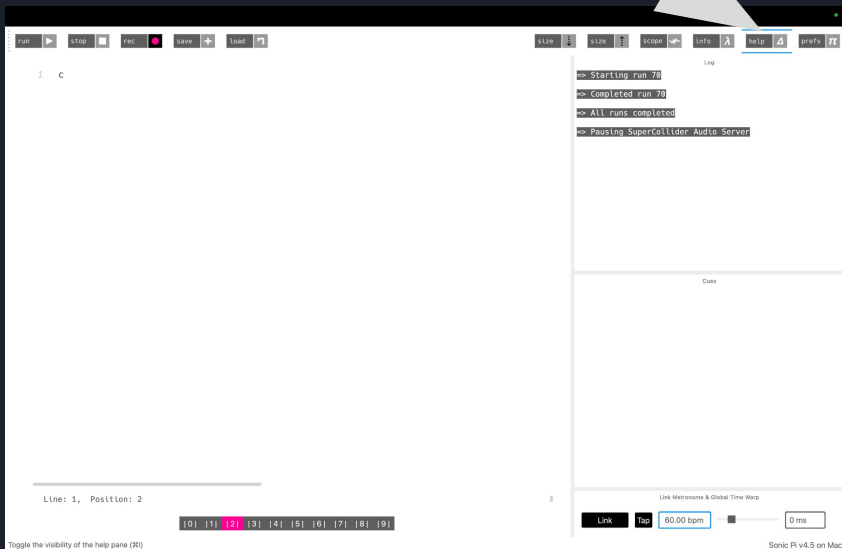
Using Synthesizers

```
use_synth :blade
play 60
sleep 1
use_synth :supersaw
play 70
```

List of all the synthesizers

Step 1.

Step 2.

Using Repeats

play 60
sleep 1
play 70
sleep 1
play 80
sleep 1
play 60
sleep 1
play 70
sleep 1
play 80
sleep 1
play 60
sleep 1
play 70
sleep 1
play 80
sleep 1

→

```
3.times do
    play 60
    sleep 1
    play 70
    sleep 1
    play 80
    sleep 1
end
```

Speeding up or slowing down

```
use_bpm 120
2.times do
  play 60
  sleep 1
  play 70
  sleep 1
  play 80
  sleep 1
end
```

Using Live Loops

```
live_loop :melody do
    use_bpm 120
    play 60
    sleep 1
    play 70
    sleep 1
    play 80
    sleep 1
end
```

Changing the volume

```
live_loop :melody do
    use_bpm 120
    play 60, amp: 2
    sleep 1
    play 70, amp: 1
    sleep 1
    play 80, amp: 4
end
```

Using Panning

Pan: -1 = Audio comes from the left speaker

No Pan = Audio comes from both speakers

Pan: 1 = Audio comes from right speaker

```
live_loop :melody do
  use_bpm 120
  play 60, amp: 2, pan: -1
  sleep 1
  play 70, amp: 1
  sleep 1
  play 80, amp: 4, pan: 1
  sleep 1
end
```

Using samples

```
play 60
sleep 1
sample :ambi_soft_buzz
sleep 1
play 70
```

List of all the samples

Step 1.

Step 2.

Now compose your own music!