Special Effects



Introduction:

In this project you will create some special effect sounds that can be used in a film or a computer game.

Step 1: Suspense

Let's start by creating a sound to show that danger is approaching.

Activity Checklist	A				
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To create the first special effect you should add the :ambi_choir sa	ample
to am empty buffer.	

#suspense sample :ambi_choir

You can change the rate at which a sam	ple is	played. A rat	e of 1 is
the sample's normal speed, and using a	rate	of less than 1	will slow the
sample down.			

#suspense
sample :ambi_choir, rate: 0.3

Press 'Run' to hear your sample played slowly. How does the sample
sound?

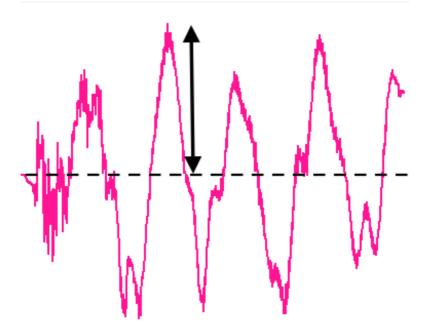
A rate higher than 1 speeds the sample up.

```
#suspense
              sample :ambi_choir, rate: 3
       Test your sample again. How does it sound now?
       You can repeat the sample a few times by putting it in a loop. You'll also
       need to add a sleep after playing the sample.
            #suspense
            4.times do
               sample :ambi_choir, rate: 3
               sleep 0.5
                     Save your project
Step 2: Stormy night
Activity Checklist
       Choose an empty buffer to create the next special effect.
       To begin, add the :ambi_swoosh sample.
                      #stormy night
                      sample :ambi_swoosh
       Press 'Run' to test your sample and see how it sounds.
       If you slow the sample down, you'll hear that it sounds like a storm.
```

```
#stormy night
      sample :ambi_swoosh, rate: 0.3
You could also add a :misc_crow sample, that is played at the same
time.
      #stormy night
       sample :ambi_swoosh, rate: 0.3
      sample :misc_crow
Put the :misc crow sample in a loop, so it is played 4 times with a 1 beat
sleep each time it is played.
      #stormy night
      sample :ambi_swoosh, rate: 0.3
      4.times do
         sample :misc_crow
         sleep 1
      end
Instead of sleeping for 1 beat each time, you can use rrand to which will
give you a random number between the 2 values in brackets.
```

```
#stormy night
sample :ambi_swoosh, rate: 0.3
4.times do
  sample :misc_crow
  sleep rrand(0.5, 2)
end
```

The **amplitude** of a sound is the size of the sound wave. Changing the amplitude of a sound wave changes its volume.



You can use amp to make a sample play at a different volume. A number less than 1 will play a sample quieter.

```
#stormy night
sample :ambi_swoosh, rate: 0.3
4.times do
   sample :misc_crow, amp: 0.2
   sleep rrand(0.5, 2)
end
```

Save your project

Step 3: Haunted bells

Activity Checklist

- Choose an empty buffer to create the next special effect.
- Start by adding the :perc bell sample.



Press 'Run' to play the sample and see how it sounds.
Change the rate of the sample to see how it sounds played at different speeds.
<pre>#haunted bells sample :perc_bell, rate: 2</pre>
Change the rate to -1. What does this do to the sample?
<pre>#haunted bells sample :perc_bell, rate: -1</pre>
You can use rrand to play the sample at a random rate.
<pre>#haunted bells sample :perc_bell, rate: rrand(-1.5, 1.5)</pre>
Add the sample to a loop that repeats forever. You can also sleep for a random time after the sample is played.
<pre>#haunted bells loop do sample :perc_bell, rate: rrand(-1.5, 1.5) sleep rrand(0.1, 2) end</pre>
Save your project

Challenge: Create your own special effects

Can you use samples to create your own special effects? Here are some examples to help you:

```
#bounce
sample :elec_twip, rate: 0.1
```

```
#alarm
5.times do
    sample :elec_beep, rate: 0.4
    sleep 0.5
end
```

Remember that you can **record** your effects and use them in a film or game that you're developing!