Audio

Un tono

Un programa sencillo de dar un tono puede ser el siguiente

```
import cyberpi

cyberpi.audio.set_vol(100)
cyberpi.audio.play_tone(700,1)
```

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Instrumentos

También podemos reproducir instrumentos

```
import cyberpi

cyberpi.audio.set_vol(100)
# str type eg. snare,bass-drum,side-stick,crash-cymbal,open-hi-hat,close-hi-
hat,tambourine,hand-clap,claves
# float beat > 0 (second)

cyberpi.audio.play_drum("snare",1)
cyberpi.audio.play_drum("snare",1)
cyberpi.audio.play_drum("side-stick",1)
cyberpi.audio.play_drum("tambourine",1)
```

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Efectos sonoros

También este código nos selecciona varios efectos sonoros y los reproduce

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```
import cyberpi

sound_effect =
["hello","hi","bye","yeah","wow","laugh","hum","sad","sigh","annoyed","angry","surprised","yum
my","curious","embarrassed","ready","sprint","sleepy","meow","start","switch","beeps","buzzing
","explosion","jump","laser","level-up","low-energy","prompt-
tone","right","wrong","ring","score","wake","warning","metal-clash","shot","glass-
clink","inflator","running water","clockwork","click","current","switch","wood-
hit","iron","drop","bubble","wave","magic","spitfire","heartbeat","load"]

cyberpi.display.show_label('UP  :GO   UP\nDOWN:GO   DOWN\nMID :PLAY EFFECT', 16, 0, 0, 0)
cyberpi.display.show_label('SELECT:\nName:', 16, 0, 60, 1)

selected = 0
min_effect = 0
max_effect = len(sound_effect) - 1

while True:
    if cyberpi.controller.is_press('up'):
        if selected < max_effect:
            selected += 1
        else:
            selected = min_effect
    elif cyberpi.controller.is_press('down'):
        if selected > min_effect:
            selected -= 1
        else:
            selected = max_effect
    elif cyberpi.controller.is_press('middle'):
        cyberpi.led.on(255,0,0,id="all")
        cyberpi.audio.play_until(sound_effect[selected])
        cyberpi.led.on(0,0,0,id="all")

    cyberpi.display.show_label('{}'.format(selected), 16, 60, 60, 2)
    cyberpi.display.show_label('{}'.format(sound_effect[selected]), 12, 52, 80, 3)
```

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https://www.youtube.com/embed/2EPpDJqUhew

Grabadora

O hacernos una grabadora de bolsillo

```
import cyberpi
from time import sleep

cyberpi.audio.set_vol(100)

cyberpi.display.show_label("A:Start Recording\nB:Play Recording",12,0,0,0)

while True:
    cyberpi.display.show_label("Waiting.",16,0,40,1)
    if cyberpi.controller.is_press('a'):
        cyberpi.led.on(0,255,0,id="all")
        cyberpi.display.show_label("Listening..",16,0,40,1)
        cyberpi.audio.record()
        sleep(5)
        cyberpi.display.show_label("Finished..",16,0,40,1)
        cyberpi.audio.stop_record()

    elif cyberpi.controller.is_press('b'):
        cyberpi.led.on(0,0,255,id="all")
        cyberpi.display.show_label("Playing..",16,0,40,1)
        cyberpi.audio.play_record_until()
        cyberpi.display.show_label("Finished..",16,0,40,1)

    cyberpi.display.show_label("Waiting...",16,0,40,1)
    cyberpi.led.on(0,0,0,id="all")
```

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https://www.youtube.com/embed/ayyBMRfwBpQ

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