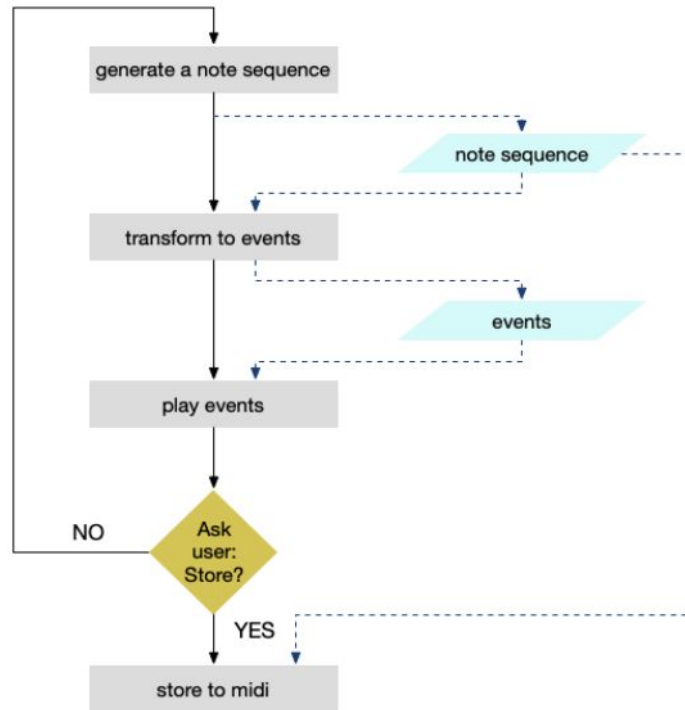


The background features a large, stylized Python logo. The logo is composed of two interlocking snakes, one yellow and one blue, set against a dark navy blue background. The yellow snake is on the left, and the blue snake is on the right. They are both outlined in black. The logo is partially cut off by the edges of the frame.

# Eindpresentatie Python

Irregular Beat Generator

Aurelia Wurfbain



Figuur 1. Program flow



# User input

- Kit
- BPM
- Time signature 5/4 vs 7/4
- Repeats

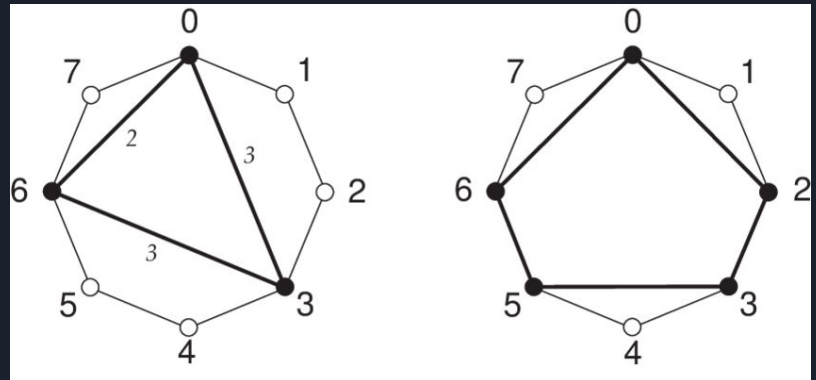
```
# Load samples
# Kit 1
kick1 = sa.WaveObject.from_wave_file("/Users/aureliawurfbain/Documents/HKU/Jaar_2/CSD2/python_basics/Kick1.wav")
snare1 = sa.WaveObject.from_wave_file("/Users/aureliawurfbain/Documents/HKU/Jaar_2/CSD2/python_basics/Snare1.wav")
hihat1 = sa.WaveObject.from_wave_file("/Users/aureliawurfbain/Documents/HKU/Jaar_2/CSD2/python_basics/Hihat1.wav")

# Kit 2
kick2 = sa.WaveObject.from_wave_file("/Users/aureliawurfbain/Documents/HKU/Jaar_2/CSD2/python_basics/Kick2.wav")
snare2 = sa.WaveObject.from_wave_file("/Users/aureliawurfbain/Documents/HKU/Jaar_2/CSD2/python_basics/Snare2.wav")
hihat2 = sa.WaveObject.from_wave_file("/Users/aureliawurfbain/Documents/HKU/Jaar_2/CSD2/python_basics/Hihat2.wav")

# Kit 3
kick3 = sa.WaveObject.from_wave_file("/Users/aureliawurfbain/Documents/HKU/Jaar_2/CSD2/python_basics/Kick3.wav")
snare3 = sa.WaveObject.from_wave_file("/Users/aureliawurfbain/Documents/HKU/Jaar_2/CSD2/python_basics/Snare3.wav")
hihat3 = sa.WaveObject.from_wave_file("/Users/aureliawurfbain/Documents/HKU/Jaar_2/CSD2/python_basics/Hihat3.wav")
```

# Generate rhythm

- Steps
- Random
- Shuffle (rotation)
- Duration to timestamps (8th)
- Timestamps to events





# Play rhythm

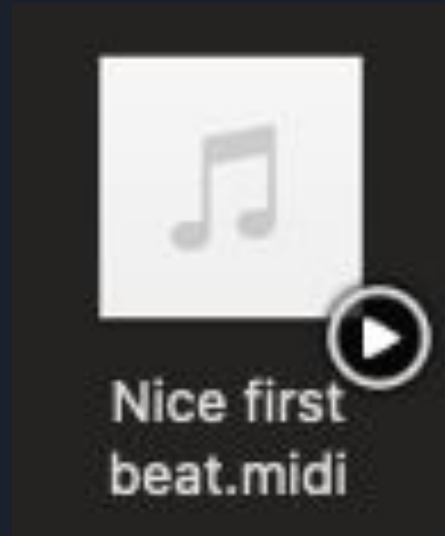
- Bronnen
- Loop
- Repeat

```
def handle_event (event):  
    event['instrument'].play()
```

```
play_again = input("Would you like to hear the rhythm again? yes/no: ").lower()
```

# Writing to MIDI

- Hulp van Cas en Daan
- In je /Downloads





## Nog een keer?

- Aardig blijven tegen de user

```
("Would you like to create another beat, or would you like to quit?: ")  
("yes: another go please!")  
("no: please quit")
```

```
print("Thanks for using the Euclidean Random Beat Generator.")  
time.sleep(1)  
print("Hope you enjoyed it. See you next time!")  
time.sleep(1)  
print("Program done.")
```

# Reflectie

- Ik ben eruit gekomen
- Veel overleggen
- Off set
- Repeat
- Tof
- Nice aanpak

