

# PYTHON LOOPING

"Help me, Obi-Wan Kenobi. You're my only hope...Help me, Obi-Wan Kenobi. You're my only hope..." -Leia's hologram

# WHILE LOOP

The while loop will repeat the code block until the condition is false.

```
droids_destroyed = 0
while droids_destroyed < 42:

    print("Yoda has dispatched %s droids!" % droids_destroyed)
    droids_destroyed = droids_destroyed + 1
```

The while loop will continue to run until the condition for false has been met.



Here we are giving a new value of a variable based on it's old value. ( $v = v + 1$ )

```
COUNTDOWN_TIME = 100

id_message = """
Greetings:
Please enter Galactic ID Username
"""

ship_message = """
Please state the name of you ship:
"""

accepted_message = """
Welcome %s your ID has been accepted.
The %s's docking has been logged and credits will be withdrawn
"""
```

while loops can also count down.

- ❗ The all caps indicate that the variable is a constant and should not be changed. Python's constants are really constants at all and they technically can be changes... but should not be.
- ❗ Incrementors and Decrementers (+=) and (-=) increase or decrease the value of the variable by the amount on the right hand side. It can be decrease by any number.
- ❗ The value for the interpolation can be an expression as seen here.
- ❗ The way to write the (%) symbol when interpolating with python is to use (%%).