

COMPARISONS AND CONDITIONS

"If these new droids do work out, I want to transmit
my application to the Academy this year" -Luke
Skywalker

WHAT IS A COMPARISON?

Comparators are
expressions that return
either True or False.

```
anakian_mc_count = 20421
yoda_mc_count = 19632
c3po_mc_count = 0

print(anakian_mc_count > 20000)
print(anakian_mc_count < yoda_mc_count)

print(c3po_mc_count >= 1000)
print(0 == c3po_mc_count)
print(anakian_mc_count != 300)
print(not c3po_mc_count >= yoda_mc_count)
```

These are examples of Comparison operators. They do not set the value like the single equal (=) symbol does. Instead they always returns a True or a False

WHAT IS A CONDITION?

Conditions evaluate an expression (often a comparison) to

determine if something is true or false and run code based on that result.

```
name = ""

if (True):
    name = "Yoda"

if (False):
    name = 'Jar Jar Binks'

print("%s knows how to use a lightsaber" % name)
```

The "if" looks at the expression inside of the parentheses and if it is true does the code inside the code block. Otherwise it ignores the code block.



We set the variable value to an empty string "" in python to use it later.



True and False are both expressions. True will always be true and False will always be false.

```
star_wars_name = None

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

star_wars_name = input(message)

if(star_wars_name != ""):
    print("Welcome %s your ID has been accepted." % star_wars_name)
else:
    print("You must enter an ID to proceed!")

print("End of Transmission >>>")
```

The else statement code block is run if the the statement was false.

- ❗ (None) is a way of creating a variable without a value.
- ❗ Falsy statments are None, False, 0, "", [], {}.
- ❗ Pressing Enter at the prompt without writing anything sends an empty string (""), so the 'star_wars_name' will return false.