WHAT ARE PYTHON VARIABLES?

"VARIABLES IN PYTHON ARE LIKE CONTAINERS FOR STORING DATA VALUES. THEY ALLOW YOU TO KEEP TRACK OF INFORMATION AND USE IT LATER IN YOUR CODE!"

var

KEY CHARACTERISTICS

DYNAMIC TYPING: NO NEED TO DECLARE A VARIABLE TYPE! PYTHON AUTOMATICALLY DETECTS IT.

CASE SENSITIVE: MYVAR AND MYVAR ARE DIFFERENT VARIABLES.

HOW TO CREATE A VARIABLE

"CREATING A VARIABLE IS SIMPLE! JUST USE THE ASSIGNMENT OPERATOR =."
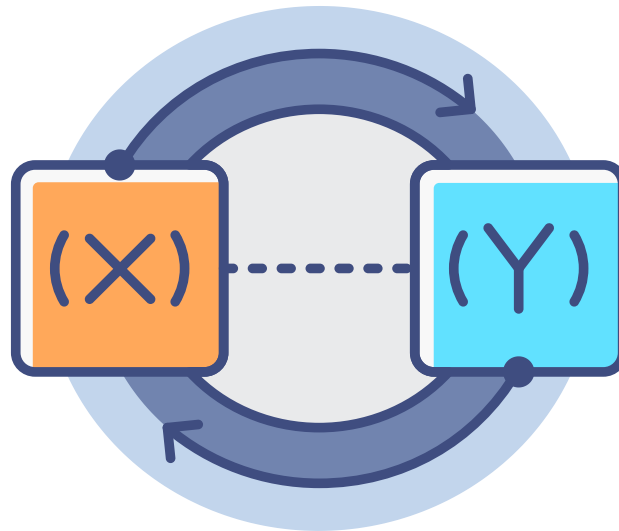
```
age = 25
name = "Alice"
```

VARIABLE TYPES

"PYTHON SUPPORTS VARIOUS DATA TYPES. HERE ARE SOME COMMON ONES:"


```
Integer: age = 25
Float: height = 5.9
String: name = "Alice"
Boolean: is_student = True
```
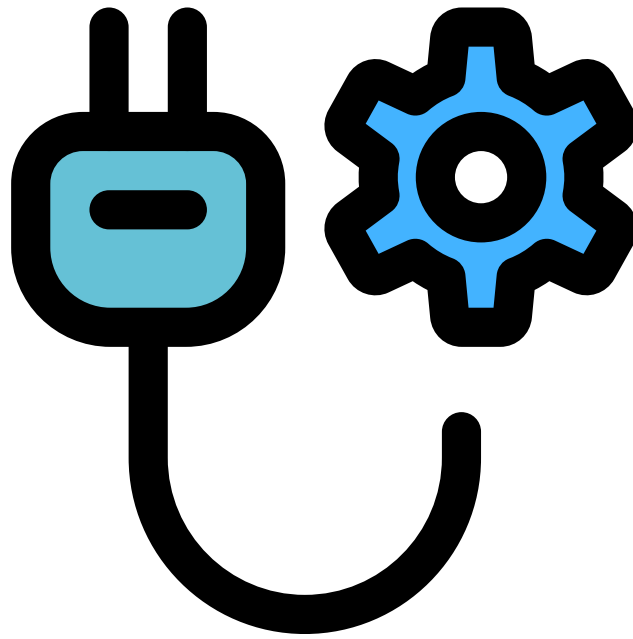
UPDATING VARIABLES

"VARIABLES CAN BE UPDATED ANYTIME! JUST REASSIGN A NEW VALUE."
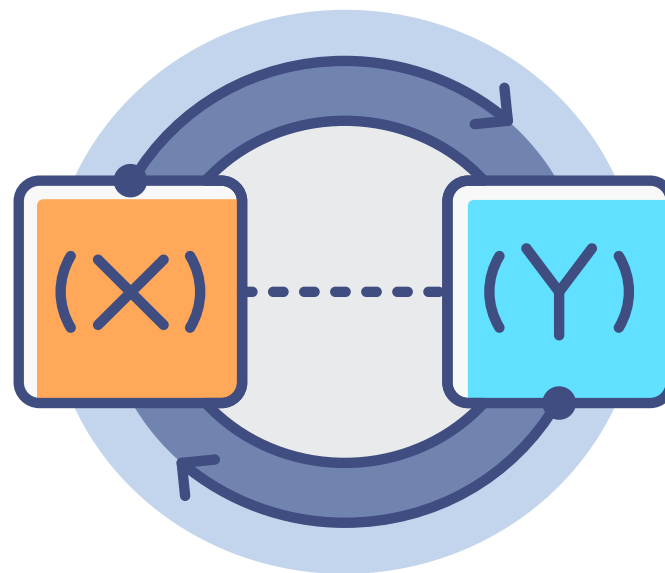
```
age = 25
age = 26  # Now age is 26!
```

BEST PRACTICES

USE MEANINGFUL NAMES: USER_AGE IS BETTER THAN X.
AVOID SPECIAL CHARACTERS: STICK TO LETTERS,
NUMBERS, AND UNDERSCORES.

KEEP IT SHORT: MAKE NAMES CONCISE BUT
DESCRIPTIVE!

(X) ---- (Y)

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