

COOL ENOUGH 2 CODE?

# Variables and Datatypes in Python

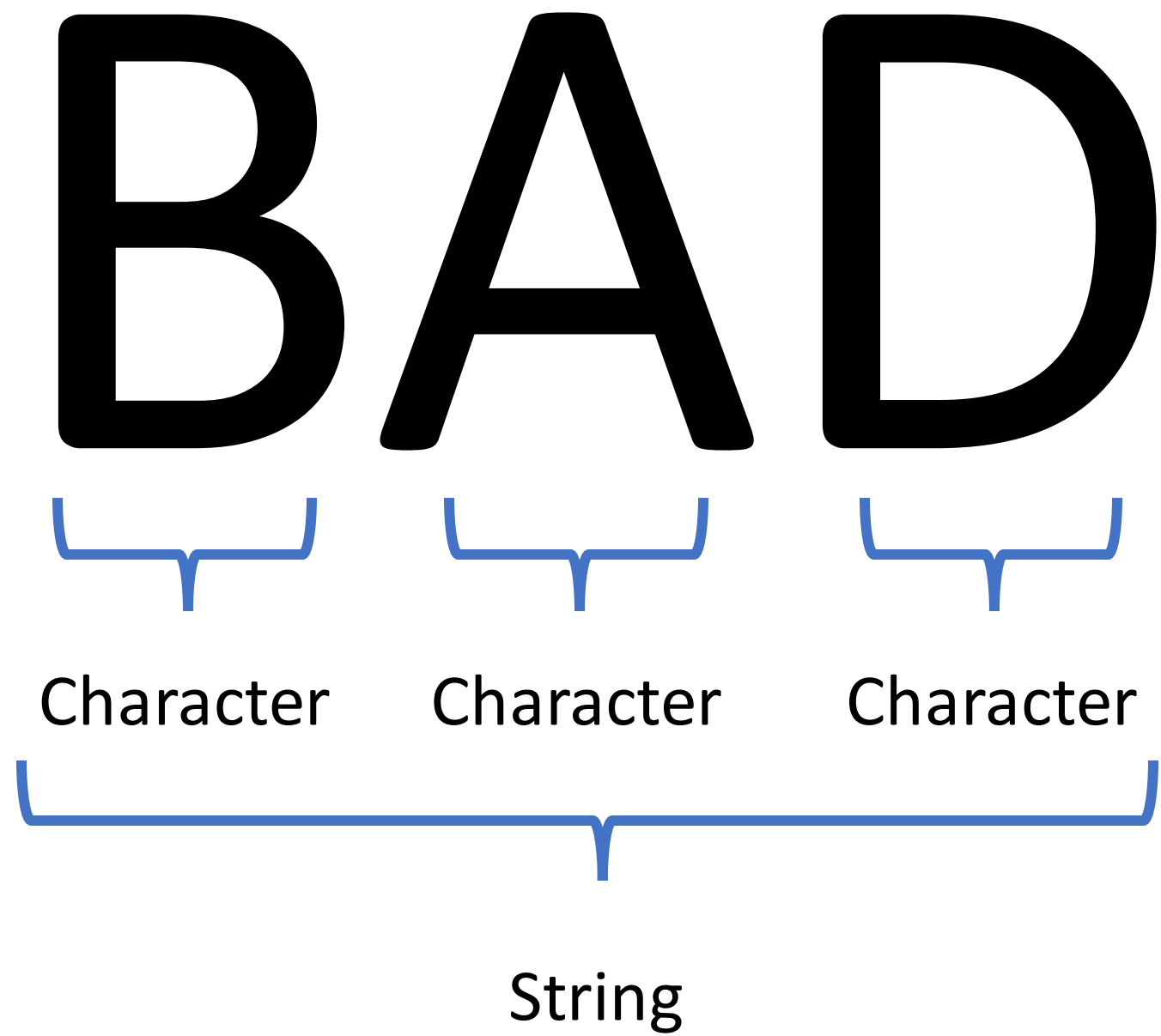


# Data Types

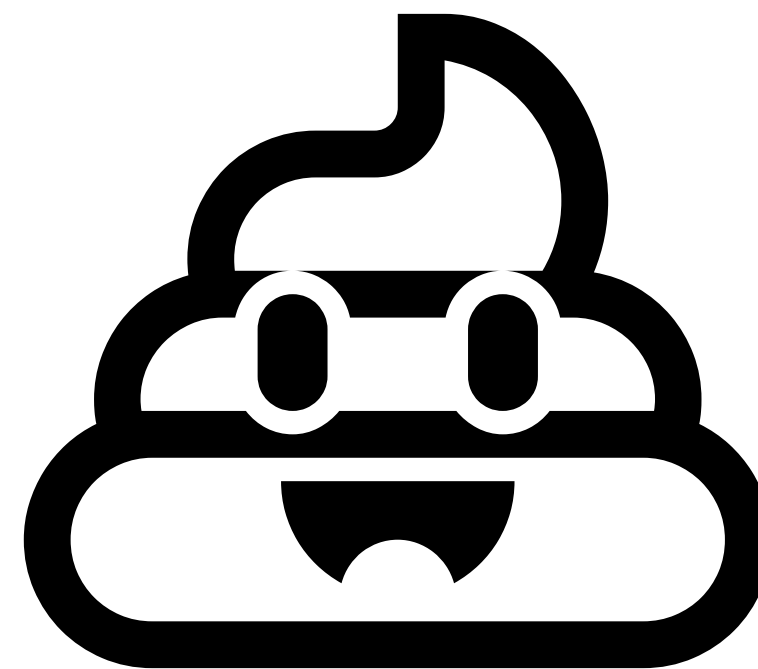
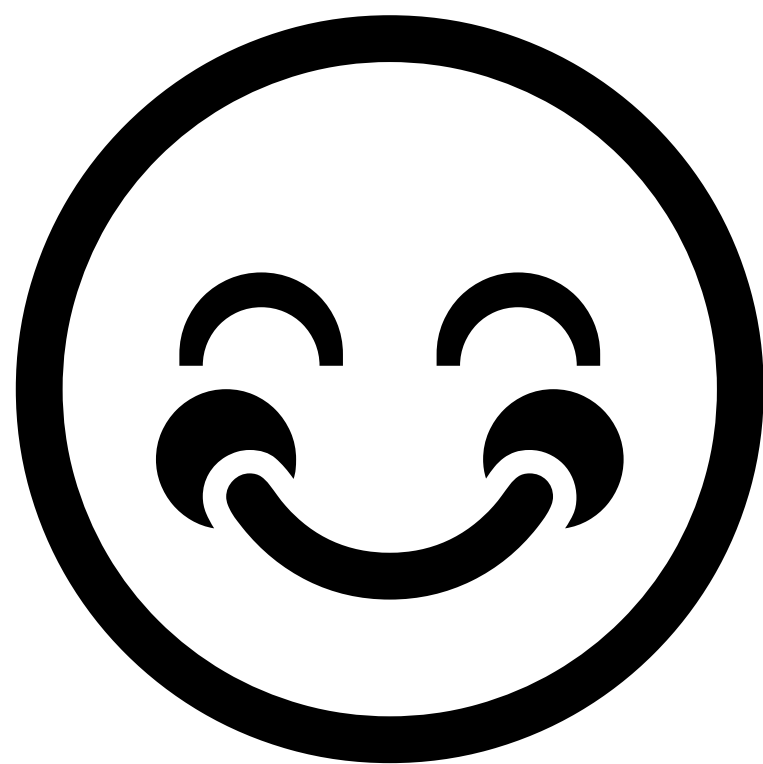
- **Boolean** – `bool` – Either true or false
- **String** – `str` – Text data
- Numeric data
  - **Integer** – `int` – Numbers without decimals
  - **Float Point** – `float` – Numbers with decimals

1 = True

0 = False



# Emojis



# Variables

- **Variables** can take on different values and store data in a computer's memory (RAM).
- Variables can be changed by the program.
- Variables can take on any data type, and with Python the data type with a variable can change too.
- Examples:

```
val1 = 1 # val1 is an integer variable  
val2 = "blaize" # val2 is a string variable
```

# Keyboard Input

- The **input()** function can read text from the keyboard in a shell.
- **input()** returns this value as a string.
- The string can be cast to a numeric data type

Example:

```
name = input("What is your name?")
```

# String Concatenation

**Concatenation** is taking string and adding them together.

```
firstName = "BlaiZe"  
lastName = "Stewart"  
name = firstName + " " + lastName  
print(name)
```

# Output is "BlaiZe Stewart"



# Challenge

- Create a “Mad Libs” like program that prompts for 5 different values (nouns, verbs, etc.).
- Concatenate the values into a string and print the string.
- Submit your completed challenge to [www.coolneough2code.com/feedback](http://www.coolneough2code.com/feedback) by August 17, 2020 and we will give you a shout out in next week’s live stream! We’ll be giving away a \$10 Amazon Gift Card to one of the submitted challenges.