

Variable Examples

EXAMPLES	Data Type
schoolName = "GCC"	str (String)
age = 41	int (Integer)
firstNum = 10	int (Integer)
price = 19.99	float
class_Status = "Senior"	str (String)
gpa = 3.75	float
passGood = True	bool (Boolean)

Assignment Statement

Syntax:

variable = value to be stored

Assignment Statement

Syntax:

variable = “value to be stored”

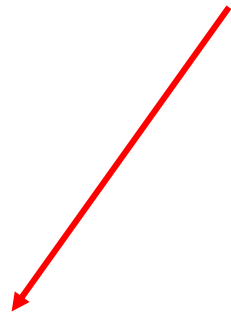
***If the value is a text string, enclose in “quotes”**

Python **VARIABLES**

- A **VARIABLE** is a location in the **computer's memory** where you can **store** a single value.
 - **Container** to store the value.
- A variable can be **created on the fly**.
- A variable is **initialized** (or created) the first time a value is stored in it.
- When a **variable stores a new value, the old value is forgotten**. This is called overwriting the variable.

variable

41



age

age = 41

age = 18

**What variable type is
age?**

Senior

variable

class_Status

```
class_Status = "Senior"  
class_Status = "Freshman"
```

**What variable
type is
class_Status?**

3.80

variable

gpa

gpa = 3.80

gpa = 2.75

**What variable type is
gpa?**

passCk

variable

passCk

passCk = True
passCk = False

**What variable type is
passCk?**

Syntax: **variable** = value to be stored

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passCk = True	bool (Boolean)

Rules for Variable Names

1. Cannot begin with a number.
2. Use only Letters, Numbers, or _Underscore_
3. It can be only one word **(no spaces)**.
4. DO NOT use Python Reserve Words.

****DO NOT USE* Reserved Words**

**['False', 'None', 'True', 'and', 'as', 'assert', 'break', 'class',
'continue', 'def', 'del', 'elif', 'else', 'except', 'finally', 'for',
'from', 'global', 'if', 'import', 'in', 'is', 'lambda', 'nonlocal', 'not',
'or', 'pass', 'raise', 'return', 'try', 'while', 'with', 'yield']**

Variable Naming Conventions

- **READABILITY** is IMPORTANT
 - Use **Underscore** or **Camel Case**. Which of the following is easiest to read?



python_puppet



pythonPuppet

pythonpuppet

Variable Naming Conventions

- **Case Sensitive** (The following 3 variables are ***NOT*** the same).

- **weight**
- **Weight**
- **WEIGHT**

Variable Naming Conventions

- **Avoid**

- lowercase letter 'l'
- uppercase 'O'
- and uppercase 'I'
- Why? Because the l and the I look a lot like each other and the number 1. And O looks a lot like 0.

Variable Name - Use **DESCRIPTIVE** Variable Names

VALID Variable Name	INVALID Variable Name – (What is the error?)
balance	current-balance
currentBalance	current balance
current_balance	4account
_spam	42
SPAM	total_\$um
Account4	“hello”