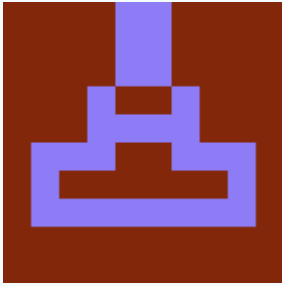


# Variables



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A variable is used to store data that will be used by the program. This data can be a number, a string, a Boolean, a list or some other data type. Every variable has a name which can consist of letters, numbers, and the underscore character `_`.

The equal sign `=` is used to assign a value to a variable. After the initial assignment is made, the value of a variable can be updated to new values as needed.

## Variable Names

A variable can have a short name (like `x` and `y`) or a more descriptive name (`age`, `grade`, `grocery_list`).

Rules for Python variables:

- A variable name must start with a letter or the underscore character. It cannot start with a number.
- A variable name can only contain alpha-numeric characters and underscores (`A-z`, `0-9`, and `_`).
- Variable names are case-sensitive (`num`, `Num`, and `NUM` are three different variables).

## Examples

These are all valid variable names and assignment:

```
user_name = "@sonny420"
```

```
user_id = 100  
verified = False
```

A variable's value can be changed after assignment

```
points = 100  
points = 120  
  
print(points)
```