

2.2: VARIABLES



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One of the most powerful features of a programming language is the ability to manipulate *variables*. A variable is a name that refers to a value.

An *assignment statement* creates new variables and gives them values:

```
>>> message = 'And now for something completely different'
>>> n = 17
>>> pi = 3.1415926535897931
```

This example makes three assignments. The first assigns a string to a new variable named `message` ; the second assigns the integer 17 to `n` ; the third assigns the (approximate) value of π to `pi` .

To display the value of a variable, you can use a print statement:

```
>>> print(n)
17
>>> print(pi)
3.141592653589793
```

The type of a variable is the type of the value it refers to.

```
>>> type(message)
<class 'str'>
>>> type(n)
<class 'int'>
>>> type(pi)
<class 'float'>
```