

BUILT-IN CONSTANTS

A small number of constants live in the built-in namespace. They are:

False

The false value of the *bool* type. Assignments to **False** are illegal and raise a *SyntaxError*.

True

The true value of the *bool* type. Assignments to **True** are illegal and raise a *SyntaxError*.

None

The sole value of the type *NoneType*. **None** is frequently used to represent the absence of a value, as when default arguments are not passed to a function. Assignments to **None** are illegal and raise a *SyntaxError*.

NotImplemented

Special value which should be returned by the binary special methods (e.g. *__eq__()*, *__lt__()*, *__add__()*, *__rsub__()*, etc.) to indicate that the operation is not implemented with respect to the other type; may be returned by the in-place binary special methods (e.g. *__imul__()*, *__iand__()*, etc.) for the same purpose. Its truth value is true.

Note: When a binary (or in-place) method returns **NotImplemented** the interpreter will try the reflected operation on the other type (or some other fallback, depending on the operator). If all attempts return **NotImplemented**, the interpreter will raise an appropriate exception. Incorrectly returning **NotImplemented** will result in a misleading error message or the **NotImplemented** value being returned to Python code.

See *Implementing the arithmetic operations* for examples.

Note: **NotImplementedError** and **NotImplemented** are not interchangeable, even though they have similar names and purposes. See *NotImplementedError* for details on when to use it.

Ellipsis

The same as the ellipsis literal "...". Special value used mostly in conjunction with extended slicing syntax for user-defined container data types.

__debug__

This constant is true if Python was not started with an *-O* option. See also the **assert** statement.

Note: The names *None*, *False*, *True* and *__debug__* cannot be reassigned (assignments to them, even as an attribute name, raise *SyntaxError*), so they can be considered “true” constants.

3.1 Constants added by the `site` module

The `site` module (which is imported automatically during startup, except if the `-S` command-line option is given) adds several constants to the built-in namespace. They are useful for the interactive interpreter shell and should not be used in programs.

`quit`(*code=None*)

`exit`(*code=None*)

Objects that when printed, print a message like “Use quit() or Ctrl-D (i.e. EOF) to exit”, and when called, raise `SystemExit` with the specified exit code.

`copyright`

`credits`

Objects that when printed or called, print the text of copyright or credits, respectively.

`license`

Object that when printed, prints the message “Type license() to see the full license text”, and when called, displays the full license text in a pager-like fashion (one screen at a time).