

# Built-in Constants

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

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) constants.rst, line 8)**

Unknown directive type "data".

```
.. data:: False
```

The false value of the :class:`bool` type. Assignments to ``False`` are illegal and raise a :exc:`SyntaxError`.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) constants.rst, line 14)**

Unknown directive type "data".

```
.. data:: True
```

The true value of the :class:`bool` type. Assignments to ``True`` are illegal and raise a :exc:`SyntaxError`.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) constants.rst, line 20)**

Unknown directive type "data".

```
.. data:: None
```

An object 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 :exc:`SyntaxError`. ``None`` is the sole instance of the :data:`NoneType` type.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) constants.rst, line 28)**

Unknown directive type "data".

```
.. data:: NotImplemented
```

A special value which should be returned by the binary special methods (e.g. :meth:`\_\_eq\_\_`, :meth:`\_\_lt\_\_`, :meth:`\_\_add\_\_`, :meth:`\_\_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. :meth:`\_\_imul\_\_`, :meth:`\_\_iand\_\_`, etc.) for the same purpose. It should not be evaluated in a boolean context. ``NotImplemented`` is the sole instance of the :data:`types.NotImplementedType` type.

```
.. 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 :ref:`implementing-the-arithmetic-operations` for examples.

```
.. note::
```

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

```
.. versionchanged:: 3.9
    Evaluating ``NotImplemented`` in a boolean context is deprecated. While
    it currently evaluates as true, it will emit a :exc:`DeprecationWarning`.
    It will raise a :exc:`TypeError` in a future version of Python.
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) constants.rst, line 61)**

Unknown directive type "index".

```
.. index:: single: ...; ellipsis literal
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) constants.rst, line 62)**

Unknown directive type "data".

```
.. data:: Ellipsis
```

The same as the ellipsis literal "``...``". Special value used mostly in conjunction with extended slicing syntax for user-defined container data types. ``Ellipsis`` is the sole instance of the :data:`types.EllipsisType` type.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) constants.rst, line 69)**

Unknown directive type "data".

```
.. data:: __debug__
```

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

## Note

The names :data:`None`, :data:`False`, :data:`True` and :data:`\_\_debug\_\_` cannot be reassigned (assignments to them, even as an attribute name, raise :exc:`SyntaxError`), so they can be considered "true" constants.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) constants.rst, line 77); [backlink](#)**

Unknown interpreted text role "data".

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) constants.rst, line 77); [backlink](#)**

Unknown interpreted text role "data".

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) constants.rst, line 77); [backlink](#)**

Unknown interpreted text role "data".

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) constants.rst, line 77); [backlink](#)**

Unknown interpreted text role "data".

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-**

resources\cpython-main\Doc\library\ (cpython-main) (Doc)  
(library) constants.rst, line 77); [backlink](#)

Unknown interpreted text role "exc".

## Constants added by the `:mod:`site`` module

**System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) constants.rst, line 82); [backlink](#)

Unknown interpreted text role "mod".

The `:mod:`site`` module (which is imported automatically during startup, except if the `:option:`-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.

**System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) constants.rst, line 85); [backlink](#)

Unknown interpreted text role "mod".

**System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) constants.rst, line 85); [backlink](#)

Unknown interpreted text role "option".

**System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) constants.rst, line 90)

Unknown directive type "data".

```
.. data:: 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 `:exc:`SystemExit`` with the specified exit code.

**System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) constants.rst, line 97)

Unknown directive type "data".

```
.. data:: copyright
        credits
```

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

**System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) constants.rst, line 103)

Unknown directive type "data".

```
.. data:: 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).