Simple statements

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\(cpython-main\) (Doc) (reference) simple_stmts.rst, line 8)

Unknown directive type "index".

.. index:: pair: simple; statement
```

A simple statement is comprised within a single logical line. Several simple statements may occur on a single line separated by semicolons. The syntax for simple statements is:

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-
main\Doc\reference\((cpython-main)(Doc)(reference)simple_stmts.rst, line 14)
Unknown directive type "productionlist".
   .. productionlist:: python-grammar
      simple_stmt: `expression stmt
                  : | `assert stmt`
                  : | `assignment stmt`
                  : | `augmented_assignment_stmt`
                      `annotated assignment stmt`
                  : | `pass_stmt`
                  : | `del stmt`
                  : | `return stmt`
                      `yield_stmt`
                  : | `raise stmt`
                  : | `break_stmt`
                       `continue stmt`
                  : | `import_stmt`
                  : | `future_stmt`
                  : | `global_stmt`
                  : | `nonlocal_stmt`
```

Expression statements

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 38)

Unknown directive type "index".

.. index::
    pair: expression; statement
    pair: expression; list
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 41)

Unknown directive type "index".

... index:: pair: expression; list
```

Expression statements are used (mostly interactively) to compute and write a value, or (usually) to call a procedure (a function that returns no meaningful result; in Python, procedures return the value None). Other uses of expression statements are allowed and occasionally useful. The syntax for an expression statement is:

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 49)

Unknown directive type "productionlist".

.. productionlist:: python-grammar expression_stmt: `starred_expression`
```

An expression statement evaluates the expression list (which may be a single expression).

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-
main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 55)
Unknown directive type "index".

.. index::
   builtin: repr
   object: None
   pair: string; conversion
   single: output
   pair: standard; output
   pair: writing; values
   pair: procedure; call
```

In interactive mode, if the value is not None, it is converted to a string using the built-in: func: repr' function and the resulting string is written to standard output on a line by itself (except if the result is None, so that procedure calls do not cause any output.)

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 64); backlink
Unknown interpreted text role "func".
```

Assignment statements

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-
main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 74)

Unknown directive type "index".

.. index::
    single: = (equals); assignment statement
    pair: assignment; statement
    pair: binding; name
    pair: rebinding; name
    object: mutable
    pair: attribute; assignment
```

Assignment statements are used to (re)bind names to values and to modify attributes or items of mutable objects:

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-
main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 85)

Unknown directive type "productionlist".

.. productionlist:: python-grammar
    assignment_stmt: (`target_list` "=")+ (`starred_expression` | `yield_expression`)
    target_list: `target` ("," `target`)* [","]
    target: `identifier`
    : | "(" [`target_list`] ")"
    : | "[" [`target_list`] "]"
    : | `attributeref`
    : | `subscription`
    : | `slicing`
    : | "*" `target`
```

(See section ref primaries for the syntax definitions for attributeref, subscription, and slicing.)

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 96); backlink
Unknown interpreted text role "ref".
```

An assignment statement evaluates the expression list (remember that this can be a single expression or a comma-separated list, the latter yielding a tuple) and assigns the single resulting object to each of the target lists, from left to right.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 104)
```

```
Unknown directive type "index".
```

```
.. index::
    single: target
    pair: target; list
```

Assignment is defined recursively depending on the form of the target (list). When a target is part of a mutable object (an attribute reference, subscription or slicing), the mutable object must ultimately perform the assignment and decide about its validity, and may raise an exception if the assignment is unacceptable. The rules observed by various types and the exceptions raised are given with the definition of the object types (see section ref. types).

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\(cpython-main\) (Doc) (reference) simple_stmts.rst, line 108); backlink
Unknown interpreted text role "ref".
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 115)

Unknown directive type "index".

.. index:: triple: target; list; assignment single: , (comma); in target list single: * (asterisk); in assignment target list single: [] (square brackets); in assignment target list single: () (parentheses); in assignment target list
```

Assignment of an object to a target list, optionally enclosed in parentheses or square brackets, is recursively defined as follows.

- If the target list is a single target with no trailing comma, optionally in parentheses, the object is assigned to that target.
- Else:
 - If the target list contains one target prefixed with an asterisk, called a "starred" target: The object must be an iterable with at least as many items as there are targets in the target list, minus one. The first items of the iterable are assigned, from left to right, to the targets before the starred target. The final items of the iterable are assigned to the targets after the starred target. A list of the remaining items in the iterable is then assigned to the starred target (the list can be empty).
 - Else: The object must be an iterable with the same number of items as there are targets in the target list, and the items are assigned, from left to right, to the corresponding targets.

Assignment of an object to a single target is recursively defined as follows.

- If the target is an identifier (name):
 - If the name does not occur in a :keyword: 'global' or :keyword: 'nonlocal' statement in the current code block: the name is bound to the object in the current local namespace.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\(cpython-main\) (Doc) (reference) simple_stmts.rst, line 145); backlink

Unknown interpreted text role "keyword".
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 145); backlink

Unknown interpreted text role "keyword".
```

• Otherwise: the name is bound to the object in the global namespace or the outer namespace determined by :keyword nonlocal, respectively.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 149); backlink
Unknown interpreted text role "keyword".
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc)
```

```
(reference) simple_stmts.rst, line 152)
Unknown directive type "index".
.. index:: single: destructor
```

The name is rebound if it was already bound. This may cause the reference count for the object previously bound to the name to reach zero, causing the object to be deallocated and its destructor (if it has one) to be called.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 158)

Unknown directive type "index".

.. index:: pair: attribute; assignment
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 160); backlink
Unknown interpreted text role "exc".
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 160); backlink

Unknown interpreted text role "exc".
```

Note: If the object is a class instance and the attribute reference occurs on both sides of the assignment operator, the right-hand side expression, a. \times can access either an instance attribute or (if no instance attribute exists) a class attribute. The left-hand side target a. \times is always set as an instance attribute, creating it if necessary. Thus, the two occurrences of a. \times do not necessarily refer to the same attribute: if the right-hand side expression refers to a class attribute, the left-hand side creates a new instance attribute as the target of the assignment:

This description does not necessarily apply to descriptor attributes, such as properties created with :func:'property'.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\(cpython-main\) (Doc) (reference) simple_stmts.rst, line 183); backlink

Unknown interpreted text role "fine".
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 186)

Unknown directive type "index".

... index::
    pair: subscription; assignment object: mutable
```

• If the target is a subscription: The primary expression in the reference is evaluated. It should yield either a mutable sequence object (such as a list) or a mapping object (such as a dictionary). Next, the subscript expression is evaluated.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc)
```

```
(reference) simple_stmts.rst, line 195)
Unknown directive type "index".
    .. index::
        object: sequence
        object: list
```

If the primary is a mutable sequence object (such as a list), the subscript must yield an integer. If it is negative, the sequence's length is added to it. The resulting value must be a nonnegative integer less than the sequence's length, and the sequence is asked to assign the assigned object to its item with that index. If the index is out of range, :exc: 'IndexError' is raised (assignment to a subscripted sequence cannot add new items to a list).

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\(cpython-main\) (Doc) (reference) simple_stmts.rst, line 199); backlink
Unknown interpreted text role "exc".
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc)
(reference) simple_stmts.rst, line 206)

Unknown directive type "index".

.. index::
    object: mapping
    object: dictionary
```

If the primary is a mapping object (such as a dictionary), the subscript must have a type compatible with the mapping's key type, and the mapping is then asked to create a key/datum pair which maps the subscript to the assigned object. This can either replace an existing key/value pair with the same key value, or insert a new key/value pair (if no key with the same value existed).

For user-defined objects, the meth: setitem method is called with appropriate arguments.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 216); backlink

Unknown interpreted text role "meth".
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 219)

Unknown directive type "index".

... index:: pair: slicing; assignment
```

• If the target is a slicing: The primary expression in the reference is evaluated. It should yield a mutable sequence object (such as a list). The assigned object should be a sequence object of the same type. Next, the lower and upper bound expressions are evaluated, insofar they are present; defaults are zero and the sequence's length. The bounds should evaluate to integers. If either bound is negative, the sequence's length is added to it. The resulting bounds are clipped to lie between zero and the sequence's length, inclusive. Finally, the sequence object is asked to replace the slice with the items of the assigned sequence. The length of the slice may be different from the length of the assigned sequence, thus changing the length of the target sequence allows it.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 233)

Unknown directive type "impl-detail".

.. impl-detail::

In the current implementation, the syntax for targets is taken to be the same as for expressions, and invalid syntax is rejected during the code generation phase, causing less detailed error messages.
```

Although the definition of assignment implies that overlaps between the left-hand side and the right-hand side are 'simultaneous' (for example a, b = b, a swaps two variables), overlaps *within* the collection of assigned-to variables occur left-to-right, sometimes resulting in confusion. For instance, the following program prints [0, 2]:

```
x = [0, 1]

i = 0

i, x[i] = 1, 2  # i is updated, then x[i] is updated print(x)
```

Augmented assignment statements

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-
main\Doc\reference\(cpython-main\) (Doc) (reference) simple_stmts.rst, line 262)
Unknown directive type "index".
   .. index::
      pair: augmented; assignment
      single: statement; assignment, augmented
      single: +=; augmented assignment
      single: -=; augmented assignment
      single: *=; augmented assignment
      single: /=; augmented assignment
      single: %=; augmented assignment
      single: &=; augmented assignment
      single: ^=; augmented assignment
      single: |=; augmented assignment
      single: **=; augmented assignment
      single: //=; augmented assignment
      single: >>=; augmented assignment
      single: <<=; augmented assignment
```

Augmented assignment is the combination, in a single statement, of a binary operation and an assignment statement:

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\(cpython-main\) (Doc) (reference) simple_stmts.rst, line 281)

Unknown directive type "productionlist".

.. productionlist:: python-grammar
    augmented_assignment_stmt: `augtarget` `augop` (`expression_list` | `yield_expression`)
    augtarget: `identifier` | `attributeref` | `subscription` | `slicing`
    augop: "+=" | "-=" | "*=" | "@=" | "/=" | "//=" | "%=" | "**="
    : | ">>=" | "<<=" | "&=" | "^=" | "|="
```

(See section ref. primaries for the syntax definitions of the last three symbols.)

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main) (Doc) (reference) simple_stmts.rst, line 287); backlink
Unknown interpreted text role "ref".
```

An augmented assignment evaluates the target (which, unlike normal assignment statements, cannot be an unpacking) and the expression list, performs the binary operation specific to the type of assignment on the two operands, and assigns the result to the original target. The target is only evaluated once.

An augmented assignment expression like x += 1 can be rewritten as x = x + 1 to achieve a similar, but not exactly equal effect. In the augmented version, x = x + 1 to achieve a similar, but not exactly equal effect. In the augmented version, x = x + 1 to achieve a similar, but not exactly equal effect. In the augmented version, x = x + 1 to achieve a similar, but not exactly equal effect. In the augmented version, x = x + 1 to achieve a similar, but not exactly equal effect. In the augmented version, x = x + 1 to achieve a similar, but not exactly equal effect. In the augmented version, x = x + 1 to achieve a similar, but not exactly equal effect. In the augmented version, x = x + 1 to achieve a similar, but not exactly equal effect.

Unlike normal assignments, augmented assignments evaluate the left-hand side *before* evaluating the right-hand side. For example, a[i] += f(x) first looks-up a[i], then it evaluates f(x) and performs the addition, and lastly, it writes the result back to a[i].

With the exception of assigning to tuples and multiple targets in a single statement, the assignment done by augmented assignment statements is handled the same way as normal assignments. Similarly, with the exception of the possible *in-place* behavior, the binary operation performed by augmented assignment is the same as the normal binary operations.

For targets which are attribute references, the same refi`caveat about class and instance attributes <attr-target-note>` applies as for regular assignments.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\(cpython-main\) (Doc) (reference) simple_stmts.rst, line 312); backlink
Unknown interpreted text role "ref".
```

Annotated assignment statements

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 321)

Unknown directive type "index".

.. index::
    pair: annotated; assignment
    single: statement; assignment, annotated
    single: : (colon); annotated variable
```

.term: Annotation <variable annotation>` assignment is the combination, in a single statement, of a variable or attribute annotation and an optional assignment statement:

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 326); backlink
Unknown interpreted text role "term".
```

The difference from normal ref. assignment is that only single target is allowed.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 333); backlink
Unknown interpreted text role 'ref'.
```

For simple names as assignment targets, if in class or module scope, the annotations are evaluated and stored in a special class or module attribute attr: annotations in a dictionary mapping from variable names (mangled if private) to evaluated annotations. This attribute is writable and is automatically created at the start of class or module body execution, if annotations are found statically.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 335); backlink
Unknown interpreted text role "attr".
```

For expressions as assignment targets, the annotations are evaluated if in class or module scope, but not stored.

If a name is annotated in a function scope, then this name is local for that scope. Annotations are never evaluated and stored in function scopes.

If the right hand side is present, an annotated assignment performs the actual assignment before evaluating annotations (where applicable). If the right hand side is not present for an expression target, then the interpreter evaluates the target except for the last

```
:meth:\__setitem__\` or :meth:\__setattr__\` call.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)(Doc)(reference)(simple_stmts.rst, line 349); backlink

Unknown interpreted text role "meth".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)(Doc)(reference)) simple_stmts.rst, line 349); backlink

Unknown interpreted text role "meth".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 355)

Unknown directive type "seealso".

```
    :pep:`526` - Syntax for Variable Annotations
        The proposal that added syntax for annotating the types of variables
        (including class variables and instance variables), instead of expressing
        them through comments.
    :pep:`484` - Type hints
        The proposal that added the :mod:`typing` module to provide a standard
        syntax for type annotations that can be used in static analysis tools and
        IDEs.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 367)

Unknown directive type "versionchanged".

.. versionchanged:: 3.8

Now annotated assignments allow same expressions in the right hand side as the regular assignments. Previously, some expressions (like un-parenthesized tuple expressions) caused a syntax error.

The :keyword: '!assert' statement

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 375); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 378)

Unknown directive type "index".

```
.. index::
  ! statement: assert
  pair: debugging; assertions
  single: , (comma); expression list
```

Assert statements are a convenient way to insert debugging assertions into a program:

 $System\,Message: ERROR/3~(\texttt{D:\onboarding-resources\scample-onboarding-resources\cpython-main\scalebox{Doc\reference}\cpython-main)~(Doc)~(reference)~simple_stmts.rst, line~386)$

Unknown directive type 'productionlist''.

```
.. productionlist:: python-grammar
  assert_stmt: "assert" `expression` ["," `expression`]
```

The simple form, assert expression, is equivalent to

```
if __debug__:
    if not expression: raise AssertionError
```

The extended form, assert expression1, expression2, is equivalent to

```
if __debug__:
    if not expression1: raise AssertionError(expression2)
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)(Doc)(reference)) simple_stmts.rst, line 399)

Unknown directive type "index".

```
.. index::
    single: __debug__
    exception: AssertionError
```

These equivalences assume that <code>:const:'__debug__</code> and <code>:exc:'AssertionError'</code> refer to the built-in variables with those names. In the current implementation, the built-in variable <code>:const:'__debug__</code> is <code>True</code> under normal circumstances, <code>False</code> when optimization is requested (command line option:'O'). The current code generator emits no code for an assert statement when optimization is requested at compile time. Note that it is unnecessary to include the source code for the expression that failed in the error message; it will be displayed as part of the stack trace.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 403); backlink

Unknown interpreted text role "const".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 403); backlink

Unknown interpreted text role "exc".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 403); backlink

Unknown interpreted text role "const".

 $System\ Message: ERROR/3\ (\texttt{D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\cpython-main)}\ (\texttt{Doc})\ (\texttt{reference})\ simple_stmts.rst,\ line\ 403);\ \textit{backlink}$

Unknown interpreted text role "option".

Assignments to :const: debug are illegal. The value for the built-in variable is determined when the interpreter starts.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 412); backlink

Unknown interpreted text role "const".

The :keyword: '!pass' statement

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)(Doc)(reference)) simple_stmts.rst, line 418); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 421)

Unknown directive type "index".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 426)

Unknown directive type "productionlist".

```
.. productionlist:: python-grammar
pass_stmt: "pass"
```

:keyword:'pass' is a null operation --- when it is executed, nothing happens. It is useful as a placeholder when a statement is required syntactically, but no code needs to be executed, for example:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 429); backlink

Unknown interpreted text role "keyword".

```
def f(arg): pass  # a function that does nothing (yet)
class C: pass  # a class with no methods (yet)
```

The :keyword: '!del' statement

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 440); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 443)

Unknown directive type "index".

```
.. index::
  ! statement: del
  pair: deletion; target
  triple: deletion; target; list
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 448)

Unknown directive type "productionlist".

```
.. productionlist:: python-grammar
del_stmt: "del" `target_list`
```

Deletion is recursively defined very similar to the way assignment is defined. Rather than spelling it out in full details, here are some hints.

Deletion of a target list recursively deletes each target, from left to right.

 $System\,Message: ERROR/3~(\texttt{D:}\coloreding-resources}\coloreding-resources\\coloreding-resour$

Unknown directive type "index".

```
.. index::
    statement: global
    pair: unbinding; name
```

Deletion of a name removes the binding of that name from the local or global namespace, depending on whether the name occurs in a 'keyword: 'global' statement in the same code block. If the name is unbound, a 'exc:'NameError' exception will be raised.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 460); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 460); backlink

Unknown interpreted text role "exc".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 465)

Unknown directive type "index".

```
.. index:: pair: attribute; deletion
```

Deletion of attribute references, subscriptions and slicings is passed to the primary object involved; deletion of a slicing is in general equivalent to assignment of an empty slice of the right type (but even this is determined by the sliced object).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 472)

Unknown directive type "versionchanged".

```
.. versionchanged:: 3.2
  Previously it was illegal to delete a name from the local namespace if it
  occurs as a free variable in a nested block.
```

The :keyword: '!return' statement

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 479); backlink

Unknown interpreted text role "keyword".

 $System\,Message: ERROR/3~(\texttt{D:}\coloreding-resources}\coloreding-resources\\coloreding-resour$

Unknown directive type "index".

```
.. index::
  ! statement: return
  pair: function; definition
  pair: class; definition
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 487)

Unknown directive type "productionlist".

```
.. productionlist:: python-grammar
  return_stmt: "return" [`expression_list`]
```

keyword: return may only occur syntactically nested in a function definition, not within a nested class definition.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 490); backlink

Unknown interpreted text role "keyword".

If an expression list is present, it is evaluated, else None is substituted.

keyword: return' leaves the current function call with the expression list (or None) as return value.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 495); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 498)

Unknown directive type "index".

.. index:: keyword: finally

When :keyword: return passes control out of a :keyword: try statement with a :keyword: finally clause, that :keyword: 'finally clause, that :keyword: 'finally

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 500); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 500); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 500); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 500); backlink

Unknown interpreted text role "keyword".

In a generator function, the :keyword: `return` statement indicates that the generator is done and will cause :exc: `StopIteration` to be raised. The returned value (if any) is used as an argument to construct :exc: `StopIteration` and becomes the :attr: `StopIteration.value` attribute.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 504); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)(Doc)(reference)(simple_stmts.rst, line 504); backlink

Unknown interpreted text role "exc".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 504); backlink

Unknown interpreted text role "exc".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 504); backlink

Unknown interpreted text role "attr".

In an asynchronous generator function, an empty :keyword: 'return' statement indicates that the asynchronous generator is done and will cause :exc: 'StopAsyncIteration' to be raised. A non-empty :keyword: '!return' statement is a syntax error in an asynchronous generator function.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 509); backlink

Unknown interpreted text role "keyword".

 $System \, Message: ERROR/3 \, (\texttt{D:\noboarding-resources\sample-onboarding-resources\colored)}; \, backlink \, and \, backlink \,$

Unknown interpreted text role "exc".

 $System\,Message: ERROR/3~(\texttt{D:}\coloreding-resources}\coloreding-resources\\coloreding-resour$

Unknown interpreted text role "keyword".

The :keyword: '!yield' statement

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 516); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 519)

Unknown directive type "index".

```
.. index::
    statement: yield
    single: generator; function
    single: generator; iterator
    single: function; generator
    exception: StopIteration
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 526)

Unknown directive type "productionlist".

```
.. productionlist:: python-grammar
   yield_stmt: `yield_expression`
```

A :keyword: 'yield' statement is semantically equivalent to a :ref; 'yield expression < yield expression < yield expression statement. For example, the yield statements

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 529); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 529); backlink

Unknown interpreted text role 'ref'.

```
yield <expr>
yield from <expr>
```

are equivalent to the yield expression statements

```
(yield <expr>)
(yield from <expr>)
```

Yield expressions and statements are only used when defining a :term:`generator` function, and are only used in the body of the generator function. Using yield in a function definition is sufficient to cause that definition to create a generator function instead of a normal function.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)(Doc)(reference)) simple_stmts.rst, line 542); backlink

Unknown interpreted text role "term".

For full details of :keyword: 'yield' semantics, refer to the :ref: 'yieldexpr' section.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 547); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)(Doc)(reference)) simple_stmts.rst, line 547); backlink

Unknown interpreted text role 'ref'.

The :keyword: '!raise' statement

 $System\,Message:\,ERROR/3\, (\mbox{D:\non-main-resources}) sample-onboarding-resources \cpython-main\noc\reference\cpython-main\)\, (Doc)\, (reference)\, simple_stmts.rst,\, line\,\,552);\, backlink$

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 555)

Unknown directive type "index".

```
.. index::
  ! statement: raise
  single: exception
  pair: raising; exception
  single: __traceback__ (exception attribute)
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 561)

Unknown directive type "productionlist".

```
.. productionlist:: python-grammar
  raise_stmt: "raise" [`expression` ["from" `expression`]]
```

If no expressions are present, :keyword: raise' re-raises the exception that is currently being handled, which is also known as the active exception. If there isn't currently an active exception, a :exc: RuntimeError' exception is raised indicating that this is an error.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 564); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)(Doc)(reference)) simple_stmts.rst, line 564); backlink

Unknown interpreted text role "exc".

Otherwise, :keyword: raise' evaluates the first expression as the exception object. It must be either a subclass or an instance of :class: 'BaseException'. If it is a class, the exception instance will be obtained when needed by instantiating the class with no arguments.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)(Doc)(reference)) simple_stmts.rst, line 569); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)(Doc)(reference)(simple_stmts.rst, line 569); backlink

Unknown interpreted text role "class".

The :dfn:'type' of the exception is the exception instance's class, the :dfn:'value' is the instance itself.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 574); backlink

Unknown interpreted text role "dfn".

 $System\,Message: ERROR/3~(\texttt{D:}\coloreding-resources}\coloreding-resources\\coloreding-resour$

Unknown interpreted text role "dfn".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 577)

Unknown directive type "index".

```
.. index:: object: traceback
```

A traceback object is normally created automatically when an exception is raised and attached to it as the attribute, which is writable. You can create an exception and set your own traceback in one step using the meth: BaseException.with_traceback exception method (which returns the same exception instance, with its traceback set to its argument), like so:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 579); backlink

Unknown interpreted text role "attr".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 579); backlink

Unknown interpreted text role "meth".

raise Exception("foo occurred").with_traceback(tracebackobj)

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 587)

Unknown directive type "index".

```
.. index:: pair: exception; chaining
__cause__ (exception attribute)
__context__ (exception attribute)
```

The from clause is used for exception chaining if given, the second *expression* must be another exception class or instance. If the second expression is an exception instance, it will be attached to the raised exception as the attr: __cause__ attribute (which is writable). If the expression is an exception class, the class will be instantiated and the resulting exception instance will be attached to the raised exception as the <a href="mattr:"__cause__" attribute. If the raised exception is not handled, both exceptions will be printed:" attribute. If the raised exception is not handled, both exceptions will be printed:" attribute.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 591); backlink

Unknown interpreted text role "attr".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 591); backlink

Unknown interpreted text role "attr".

```
>>> try:
... print(1 / 0)
... except Exception as exc:
... raise RuntimeError("Something bad happened") from exc
...
Traceback (most recent call last):
   File "<stdin>", line 2, in <module>
```

```
ZeroDivisionError: division by zero

The above exception was the direct cause of the following exception:

Traceback (most recent call last):
  File "<stdin>", line 4, in <module>
RuntimeError: Something bad happened
```

A similar mechanism works implicitly if a new exception is raised when an exception is already being handled. An exception may be handled when an 'keyword' except' or 'keyword' finally' clause, or a 'keyword' with' statement, is used. The previous exception is then attached as the new exception's 'attr:' context attribute:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 615); backlink
Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 615); backlink
Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 615); backlink
Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 615); backlink

Unknown interpreted text role "attr".

```
>>> try:
... print(1 / 0)
... except:
... raise RuntimeError("Something bad happened")
...
Traceback (most recent call last):
   File "<stdin>", line 2, in <module>
ZeroDivisionError: division by zero

During handling of the above exception, another exception occurred:
Traceback (most recent call last):
   File "<stdin>", line 4, in <module>
RuntimeError: Something bad happened
```

Exception chaining can be explicitly suppressed by specifying const: 'None' in the from clause:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 636); backlink

Unknown interpreted text role "const".

```
>>> try:
... print(1 / 0)
... except:
... raise RuntimeError("Something bad happened") from None
...
Traceback (most recent call last):
   File "<stdin>", line 4, in <module>
RuntimeError: Something bad happened
```

Additional information on exceptions can be found in section ref exceptions, and information about handling exceptions is in section ref try.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 648); backlink

Unknown interpreted text role "ref".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 648); backlink

Unknown interpreted text role 'ref'.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 651)

Unknown directive type "versionchanged".

```
.. versionchanged:: 3.3
    :const:`None` is now permitted as ``Y`` in ``raise X from Y``.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 654)

Unknown directive type "versionadded".

```
.. versionadded:: 3.3
    The ``__suppress_context__`` attribute to suppress automatic display of the
    exception context.
```

 $System\,Message: ERROR/3~(\texttt{D:}\conboarding-resources}\conboarding-resources\\conboardin$

Unknown directive type "versionchanged".

```
.. versionchanged:: 3.11

If the traceback of the active exception is modified in an :keyword:`except` clause, a subsequent ``raise`` statement re-raises the exception with the modified traceback. Previously, the exception was re-raised with the traceback it had when it was caught.
```

The :keyword: '!break' statement

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 666); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 669)

Unknown directive type "index".

```
.. index::
  ! statement: break
  statement: for
  statement: while
  pair: loop; statement
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 675)

Unknown directive type "productionlist".

```
.. productionlist:: python-grammar
break_stmt: "break"
```

:keyword:'break' may only occur syntactically nested in a :keyword:'for' or :keyword:'while' loop, but not nested in a function or class definition within that loop.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 678); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)(Doc)(reference)) simple_stmts.rst, line 678); backlink

Unknown interpreted text role "keyword".

 $System\,Message:\,ERROR/3~(\texttt{D:\noboarding-resources\sample-onboarding-resources\cpython-main\noc\reference\cpython-main)}~(\texttt{Doc})~(\texttt{reference})~simple_\texttt{stmts.rst},\\ line~678);\\ \textit{backlink}$

Unknown interpreted text role "keyword".

 $System\,Message: ERROR/3~(\texttt{D:}\coloreding-resources}\coloreding-resources\\coloreding-resour$

Unknown directive type "index".

```
.. index:: keyword: else
    pair: loop control; target
```

It terminates the nearest enclosing loop, skipping the optional :keyword: 'lelse' clause if the loop has one.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 685); backlink

Unknown interpreted text role "keyword".

If a :keyword: for' loop is terminated by :keyword: break', the loop control target keeps its current value.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 688); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 688); backlink

Unknown interpreted text role "keyword".

 $System\,Message: ERROR/3~(\texttt{D:}\coloreding-resources}\coloreding-resources\\coloreding-resour$

Unknown directive type "index".

```
.. index:: keyword: finally
```

When :keyword: 'break' passes control out of a :keyword: 'try' statement with a :keyword: 'finally' clause, that :keyword: '!finally' clause is executed before really leaving the loop.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 693); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)(Doc)(reference)) simple_stmts.rst, line 693); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 693); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)(Doc)(reference)) simple_stmts.rst, line 693); backlink

The :keyword: '!continue' statement

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 700); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 703)

Unknown directive type "index".

```
.. index::
  ! statement: continue
  statement: for
  statement: while
  pair: loop; statement
  keyword: finally
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 710)

Unknown directive type "productionlist".

```
.. productionlist:: python-grammar
continue_stmt: "continue"
```

:keyword: `continue` may only occur syntactically nested in a :keyword: `for` or :keyword: `while` loop, but not nested in a function or class definition within that loop. It continues with the next cycle of the nearest enclosing loop.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 713); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)(Doc)(reference)) simple_stmts.rst, line 713); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 713); backlink

Unknown interpreted text role "keyword".

When :keyword:`continue` passes control out of a :keyword:`try` statement with a :keyword:`finally` clause, that :keyword:`!finally` clause is executed before really starting the next loop cycle.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 717); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)(Doc)(reference)) simple_stmts.rst, line 717); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)(Doc)(reference)) simple_stmts.rst, line 717); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main) (Doc) (reference) simple_stmts.rst, line 717); backlink Unknown interpreted text role "keyword".

The :keyword: '!import' statement

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main) (Doc) (reference) simple_stmts.rst, line 725); backlink
Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 728)

Unknown directive type "index".

```
.. index::
  ! statement: import
  single: module; importing
  pair: name; binding
  keyword: from
  keyword: as
  exception: ImportError
  single: , (comma); import statement
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 737)

Unknown directive type "productionlist".

The basic import statement (no :keyword:`from` clause) is executed in two steps:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 747); backlink

Unknown interpreted text role "keyword".

- 1. find a module, loading and initializing it if necessary
- 2. define a name or names in the local namespace for the scope where the 'keyword' import' statement occurs.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 751); backlink

Unknown interpreted text role "keyword".
```

When the statement contains multiple clauses (separated by commas) the two steps are carried out separately for each clause, just as though the clauses had been separated out into individual import statements.

The details of the first step, finding and loading modules are described in greater detail in the section on the reff import system import system which also describes the various types of packages and modules that can be imported, as well as all the hooks that can be used to customize the import system. Note that failures in this step may indicate either that the module could not be located, or that an error occurred while initializing the module, which includes execution of the module's code.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 759); backlink

Unknown interpreted text role 'ref'.

If the requested module is retrieved successfully, it will be made available in the local namespace in one of three ways:

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 770)

Unknown directive type "index".

... index:: single: as; import statement
```

• If the module name is followed by :keyword: '!as', then the name following :keyword: '!as' is bound directly to the imported module.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 772); backlink

Unknown interpreted text role "keyword".
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 772); backlink
Unknown interpreted text role "keyword".
```

- If no other name is specified, and the module being imported is a top level module, the module's name is bound in the local namespace as a reference to the imported module
- If the module being imported is *not* a top level module, then the name of the top level package that contains the module is bound in the local namespace as a reference to the top level package. The imported module must be accessed using its full qualified name rather than directly

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 783)

Unknown directive type "index".

.. index::
    pair: name; binding
    single: from; import statement
```

The :keyword:`from` form uses a slightly more complex process:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 787); backlink
Unknown interpreted text role "keyword".

1. find the module specified in the 'keyword' from' clause, loading and initializing it if necessary;

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\(cpython-main\) (Doc) (reference) simple_stmts.rst, line 789); backlink
Unknown interpreted text role "keyword".
```

2. for each of the identifiers specified in the :keyword: 'import' clauses:

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\(cpython-main\) (Doc) (reference) simple_stmts.rst, line 791); backlink

Unknown interpreted text role "keyword".
```

1. check if the imported module has an attribute by that name

- 2. if not, attempt to import a submodule with that name and then check the imported module again for that attribute
- 3. if the attribute is not found, :exc: ImportError' is raised.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 796); backlink
Unknown interpreted text role "exc".
```

4. otherwise, a reference to that value is stored in the local namespace, using the name in the :keyword: '!as' clause if it is present, otherwise using the attribute name

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 797); backlink
Unknown interpreted text role "keyword".
```

Examples:

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 809)

Unknown directive type "index".

.. index:: single: * (asterisk); import statement
```

If the list of identifiers is replaced by a star ('*'), all public names defined in the module are bound in the local namespace for the scope where the :keyword: import` statement occurs.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 811); backlink
Unknown interpreted text role "keyword".
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 815)

Unknown directive type "index".

.. index:: single: __all__ (optional module attribute)
```

The *public names* defined by a module are determined by checking the module's namespace for a variable named <code>__all__</code>; if defined, it must be a sequence of strings which are names defined or imported by that module. The names given in <code>__all__</code> are all considered public and are required to exist. If <code>__all__</code> is not defined, the set of public names includes all names found in the module's namespace which do not begin with an underscore character ('__'). <code>__all__</code> should contain the entire public API. It is intended to avoid accidentally exporting items that are not part of the API (such as library modules which were imported and used within the module).

The wild card form of import --- from module import * --- is only allowed at the module level. Attempting to use it in class or function definitions will raise a :exc: SyntaxError .

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 827); backlink
Unknown interpreted text role "exc".
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 831)
Unknown directive type "index".
```

```
.. index::
    single: relative; import
```

When specifying what module to import you do not have to specify the absolute name of the module. When a module or package is contained within another package it is possible to make a relative import within the same top package without having to mention the package name. By using leading dots in the specified module or package after 'keyword:' from' you can specify how high to traverse up the current package hierarchy without specifying exact names. One leading dot means the current package where the module making the import exists. Two dots means up one package level. Three dots is up two levels, etc. So if you execute from . import mod from a module in the pkg package then you will end up importing pkg.mod. If you execute from ...subpkg2 import mod from within pkg.subpkg1 you will import pkg.subpkg2.mod. The specification for relative imports is contained in the reff relative imports' section.

```
System\,Message:\,ERROR/3\, (\mbox{D:\noboarding-resources}\xspace) converse and local converse and the state of the state
```

Unknown interpreted text role "keyword".

```
System\,Message:\,ERROR/3\, (\mbox{D:\noboarding-resources}\xspace) ample-onboarding-resources\xspace) cpython-main\xspace(cpython-main)\, (Doc)\, (reference)\, simple\_stmts.rst, line\, 834); \mbox{\it backlink} \xspace
```

Unknown interpreted text role 'ref'.

func: importlib.import module is provided to support applications that determine dynamically the modules to be loaded.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 848); backlink
Unknown interpreted text role "func".
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 851)

Unknown directive type "audit-event".
```

.. audit-event:: import module, filename, sys.path, sys.meta_path, sys.path_hooks import

Future statements

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 858)

Unknown directive type "index".

.. index::
    pair: future; statement
    single: __future__; future statement
```

A :dfn: future statement is a directive to the compiler that a particular module should be compiled using syntax or semantics that will be available in a specified future release of Python where the feature becomes standard.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 862); backlink
Unknown interpreted text role "dfn".
```

The future statement is intended to ease migration to future versions of Python that introduce incompatible changes to the language. It allows use of the new features on a per-module basis before the release in which the feature becomes standard.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 871)

Unknown directive type "productionlist".

.. productionlist:: python-grammar
future_stmt: "from" "_future_" "import" `feature` ["as" `identifier`]
: ("," `feature` ["as" `identifier`]) *
```

```
: | "from" "__future__" "import" "(" `feature` ["as" `identifier`]
: ("," `feature` ["as" `identifier`])* [","] ")"
feature: `identifier`
```

A future statement must appear near the top of the module. The only lines that can appear before a future statement are:

- the module docstring (if any),
- · comments.
- · blank lines, and
- other future statements.

The only feature that requires using the future statement is annotations (see PEP 563).

All historical features enabled by the future statement are still recognized by Python 3. The list includes absolute_import, division, generator_stop, unicode_literals, print_function, nested_scopes and with_statement. They are all redundant because they are always enabled, and only kept for backwards compatibility.

A future statement is recognized and treated specially at compile time: Changes to the semantics of core constructs are often implemented by generating different code. It may even be the case that a new feature introduces new incompatible syntax (such as a new reserved word), in which case the compiler may need to parse the module differently. Such decisions cannot be pushed offuntil runtime.

For any given release, the compiler knows which feature names have been defined, and raises a compile-time error if a future statement contains a feature not known to it.

The direct runtime semantics are the same as for any import statement: there is a standard module :mod:'__future__', described later, and it will be imported in the usual way at the time the future statement is executed.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 907); backlink
Unknown interpreted text role "mod".
```

The interesting runtime semantics depend on the specific feature enabled by the future statement.

Note that there is nothing special about the statement:

```
import future [as name]
```

That is not a future statement; it's an ordinary import statement with no special semantics or syntax restrictions.

Code compiled by calls to the built-in functions: func: exec` and: finc: compile` that occur in a module: mod: M` containing a future statement will, by default, use the new syntax or semantics associated with the future statement. This can be controlled by optional arguments to: func: compile` --- see the documentation of that function for details.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main) (Doc) (reference) simple_stmts.rst, line 921); backlink
Unknown interpreted text role "func".
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\(cpython-main\) (Doc) (reference) simple_stmts.rst, line 921); backlink
Unknown interpreted text role "func".
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 921); backlink
Unknown interpreted text role "mod".
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\(cpython-main\) (Doc) (reference) simple_stmts.rst, line 921); backlink
Unknown interpreted text role "func".
```

A future statement typed at an interactive interpreter prompt will take effect for the rest of the interpreter session. If an interpreter is started with the :option:'-i' option, is passed a script name to execute, and the script includes a future statement, it will be in effect in the interactive session started after the script is executed.

main\Doc\reference\(cpython-main\) (Doc) (reference) simple_stmts.rst, line 927); backlink Unknown interpreted text role "option".

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 933)

Unknown directive type "seealso".

.. seealso::

:pep:`236` - Back to the __future__
The original proposal for the __future__ mechanism.
```

The :keyword: '!global' statement

 $System\,Message:\,ERROR/3\, (\mbox{D:\nonlinear-resources}\xspace) ample-onboarding-resources\xspace) cpython-main\xspace(cpython-main)\, (\mbox{Doc\nonlinear-resource}\xspace) simple_stmts.rst, line 941); \\ backlink\xspace(cpython-main)\, (\mbox{Doc\nonlinear-resource}\xspace) consistency of the property of the propert$

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 944)

Unknown directive type "index".

```
.. index::
  ! statement: global
  triple: global; name; binding
  single: , (comma); identifier list
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 949)

Unknown directive type "productionlist".

```
.. productionlist:: python-grammar
  global_stmt: "global" `identifier` ("," `identifier`)*
```

The :keyword: `global` statement is a declaration which holds for the entire current code block. It means that the listed identifiers are to be interpreted as globals. It would be impossible to assign to a global variable without :keyword: `!global`, although free variables may refer to globals without being declared global.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 952); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 952); backlink

Unknown interpreted text role "keyword".

Names listed in a :keyword: 'global' statement must not be used in the same code block textually preceding that :keyword: '!global' statement.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 958); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 958); backlink

Unknown interpreted text role "keyword".

Names listed in a 'keyword:'global' statement must not be defined as formal parameters, or as targets in 'keyword:'with' statements or 'keyword:'except' clauses, or in a 'keyword:'for' target list, 'keyword:'class' definition, function definition, 'keyword:'import' statement, or variable annotation.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 961); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 961); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 961); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 961); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)(Doc)(reference)) simple_stmts.rst, line 961); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 961); backlink

Unknown interpreted text role "keyword".

 $System\,Message: ERROR/3~(\texttt{D:}\conboarding-resources}\conboarding-resources\\conboardin$

Unknown directive type "impl-detail".

.. impl-detail::

The current implementation does not enforce some of these restrictions, but programs should not abuse this freedom, as future implementations may enforce them or silently change the meaning of the program.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 972)

Unknown directive type "index".

```
.. index::
   builtin: exec
   builtin: eval
   builtin: compile
```

Programmer's note: keyword: 'global' is a directive to the parser. It applies only to code parsed at the same time as the keyword: 'lglobal' statement. In particular, a 'keyword: 'lglobal' statement contained in a string or code object supplied to the built-in 'func: 'exec' function does not affect the code block *containing* the function call, and code contained in such a string is unaffected by 'keyword: 'lglobal' statements in the code containing the function call. The same applies to the :func: 'eval' and :func: 'compile' functions.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 977); backlink

Unknown interpreted text role "keyword".

 $System\,Message: ERROR/3~(\texttt{D:}\coloreding-resources}\coloreding-resources\\coloreding-resour$

Unknown interpreted text role "keyword".

 $System\,Message: ERROR/3~(\texttt{D:}\coloreding-resources}\coloreding-resources\\coloreding-resour$

Unknown interpreted text role "keyword".

 $System\,Message: ERROR/3~(\texttt{D:}\coloreding-resources}\coloreding-resources\\coloreding-resour$

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)(Doc)(reference)(simple_stmts.rst, line 977); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 977); backlink
Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 977); backlink

Unknown interpreted text role "func".

The :keyword:`!nonlocal` statement

 $System\,Message:\,ERROR/3~(\texttt{D:\noboarding-resources\sample-onboarding-resources\cpython-main\noc\reference\cpython-main)}~(\texttt{Doc})~(\texttt{reference})~simple_\texttt{stmts.rst},\\ \textit{line 988});\\ \textit{backlink}$

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple stmts.rst, line 991)

Unknown directive type "index".

```
.. index:: statement: nonlocal
    single: , (comma); identifier list
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 994)

Unknown directive type "productionlist".

```
.. productionlist:: python-grammar
nonlocal_stmt: "nonlocal" `identifier` ("," `identifier`)*
```

The 'keyword:'nonlocal' statement causes the listed identifiers to refer to previously bound variables in the nearest enclosing scope excluding globals. This is important because the default behavior for binding is to search the local namespace first. The statement allows encapsulated code to rebind variables outside of the local scope besides the global (module) scope.

 $System\,Message:\,ERROR/3\,\mbox{(D:\noboarding-resources\sample-onboarding-resources\cpython-main\noc\reference\cpython-main)}\,\mbox{(Doc)}\,\mbox{(reference)}\,\mbox{simple_stmts.rst},\,\mbox{line}\,\,1001);\,\mbox{\it backlink}\,\mbox{\it backlink}$

Unknown interpreted text role "keyword".

Names listed in a 'keyword:' nonlocal' statement, unlike those listed in a 'keyword:' global' statement, must refer to pre-existing bindings in an enclosing scope (the scope in which a new binding should be created cannot be determined unambiguously).

 $System\ Message:\ ERROR/3\ (\texttt{D:\ }\ conboarding-resources\ }\ cpython-main\ Doc\ (\texttt{cpython-main})\ (\texttt{Doc})\ (\texttt{reference}\)\ simple_stmts.rst,\ line\ 1011);\ \textit{backlink}$

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 1011); backlink
Unknown interpreted text role "keyword".

Names listed in a :keyword: nonlocal statement must not collide with pre-existing bindings in the local scope.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\reference\((cpython-main)\) (Doc) (reference) simple_stmts.rst, line 1016); backlink

Unknown interpreted text role "keyword".

 $System\,Message: ERROR/3~(\texttt{D:}\onboarding-resources}\cpython-main\Doc\reference\(cpython-main)~(Doc)~(reference)~simple_stmts.rst,~line~1019)$

Unknown directive type "seealso".

```
.. seealso::
    :pep:`3104` - Access to Names in Outer Scopes
        The specification for the :keyword:`nonlocal` statement.
```