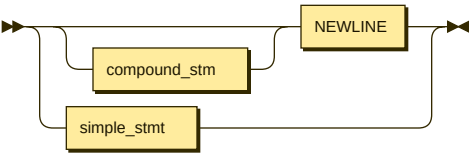


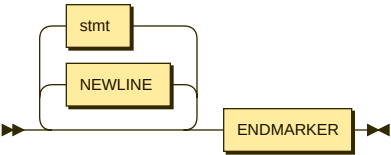
single\_input:



```
single_input ::= compound_stm? NEWLINE | simple_stm
```

no references

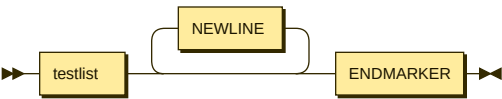
file\_input:



```
file_input ::= ( NEWLINE | stmt ) * ENDMARKER
```

no references

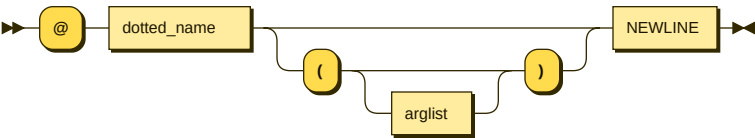
eval\_input:



```
eval_input ::= testlist NEWLINE * ENDMARKER
```

no references

decorator:

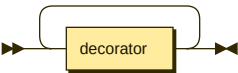


```
decorator ::= '@' dotted_name ( '(' arglist? ')' ) ? NEWLINE
```

referenced by:

- [decorators](#)

decorators:

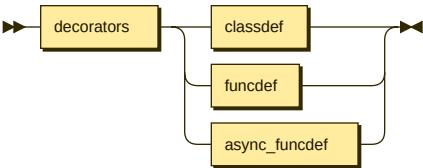


```
decorators ::= decorator +
```

referenced by:

- [decorated](#)

decorated:

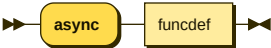


decorators ::= decorators ( classdef | funcdef | async\_funcdef )

referenced by:

- [compound\\_stmt](#)

async\_funcdef:

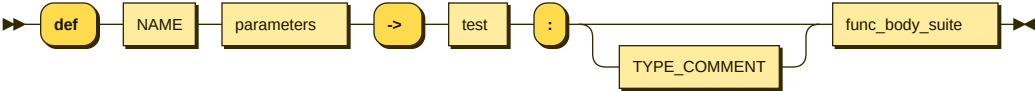


async\_funcdef ::= 'async' funcdef

referenced by:

- [decorators](#)

funcdef:

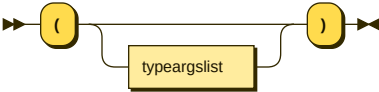


funcdef ::= 'def' NAME parameters '->' test ':' TYPE\_COMMENT? func\_body\_suite

referenced by:

- [async\\_funcdef](#)
- [async\\_stmt](#)
- [compound\\_stmt](#)
- [decorators](#)

parameters:



parameters ::= '(' typeargslist? ')'

referenced by:

- [funcdef](#)

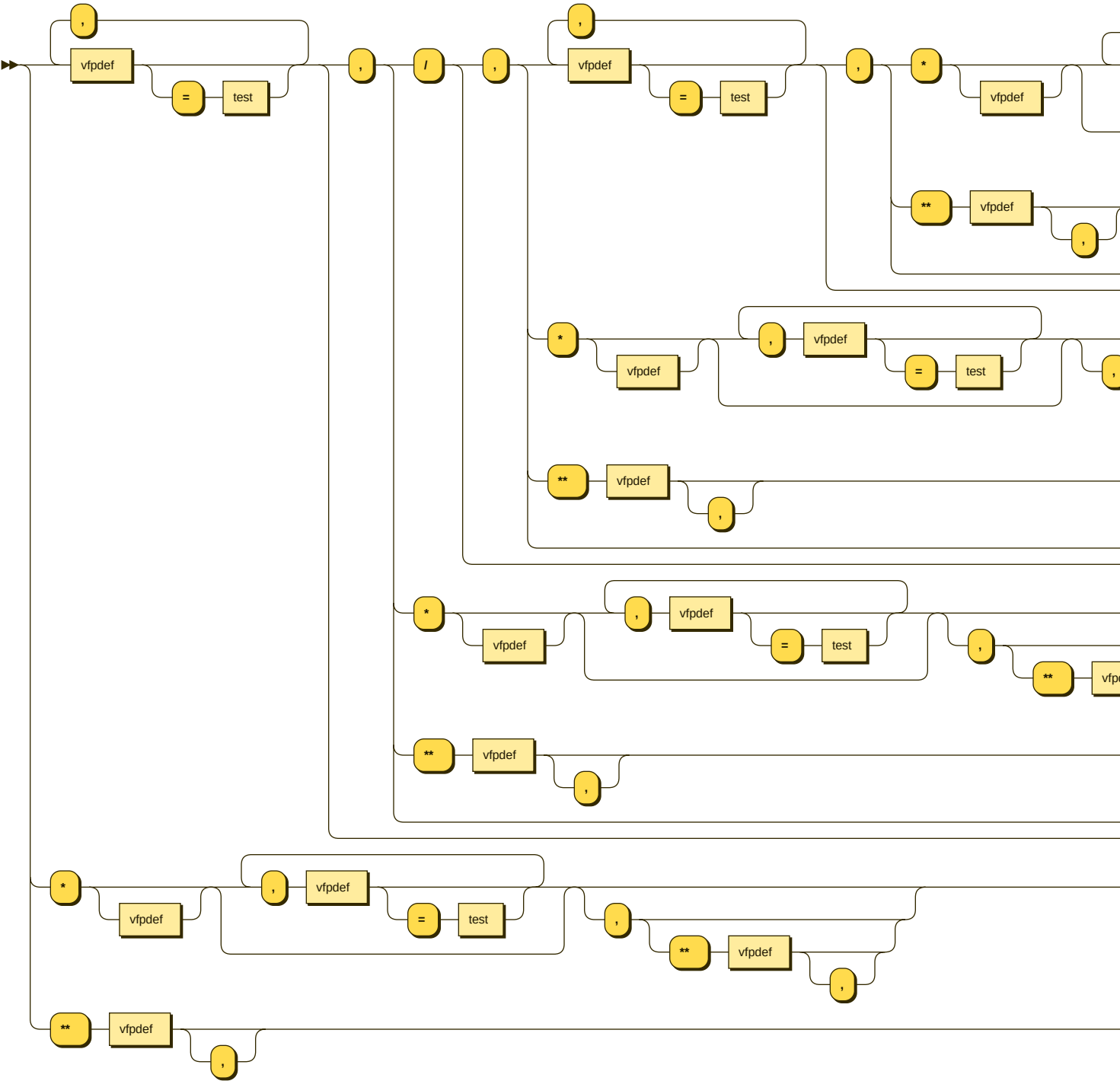
typedargslist:



referenced by:

- [typedargslst](#)

varargslst:



```
varargslst
 ::= vfpdef ( '=' test )? ( ',' vfpdef ( '=' test )? )* ( '/' ( ',' ( vfpdef ( '=' test )? ( ',' vfpdef ( '=' test )? )* (
   ',' ( '*' vfpdef? ( ',' vfpdef ( '=' test )? )* ( ',' ( '*' vfpdef ( ','? )? )? | '*' vfpdef ( ','? )? )? | '*' vfpdef? ( ',' vfpdef ( '=' test )? )*
   vfpdef ( '=' test )? )* ( ',' ( '*' vfpdef ( ','? )? )? | '*' vfpdef ( ','? )? )? | '*' vfpdef? ( ',' vfpdef ( '=' test )? )*
   ( ',' ( '*' vfpdef ( ','? )? )? | '*' vfpdef ( ','? )? )? )?
   | '*' vfpdef? ( ',' vfpdef ( '=' test )? )* ( ',' ( '*' vfpdef ( ','? )? )? )?
   | '*' vfpdef ( ','? )?
```

referenced by:

- [lambdef](#)
- [lambdef\\_nocond](#)

vfpdef:

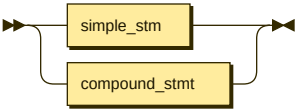


vfpdef ::= NAME

referenced by:

- [varargslist](#)

stmt:

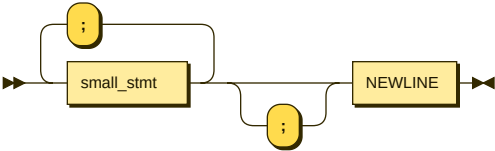


stmt ::= simple\_stmt  
          | compound\_stmt

referenced by:

- [file\\_input](#)
- [func\\_body\\_suite](#)
- [suite](#)

simple\_stmt:

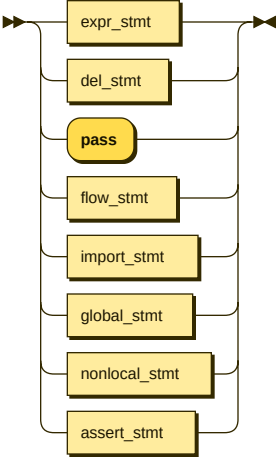


simple\_stmt ::= small\_stmt ( ';' small\_stmt )\* ';' ? NEWLINE

referenced by:

- [func\\_body\\_suite](#)
- [single\\_input](#)
- [suite](#)

small\_stmt:

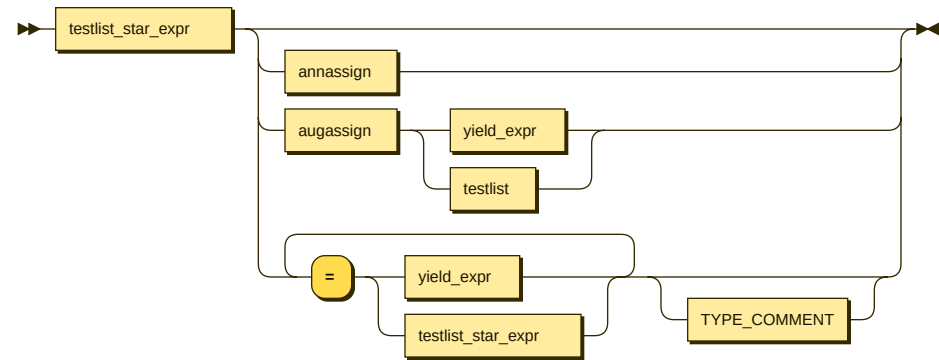


small\_stmt ::= expr\_stmt  
              | del\_stmt  
              | 'pass'  
              | flow\_stmt  
              | import\_stmt  
              | global\_stmt  
              | nonlocal\_stmt  
              | assert\_stmt

referenced by:

- [simple\\_stmt](#)

expr\_stmt:

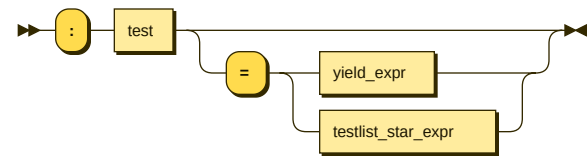


`expr_stmt ::= testlist_star_expr ( annassign | augassign ( yield_expr | testlist ) | ( '=' ( yield_expr | testlist_star_expr ) + TYPE_COMMENT? ) )?`

referenced by:

- [small\\_stmt](#)

**annassign:**

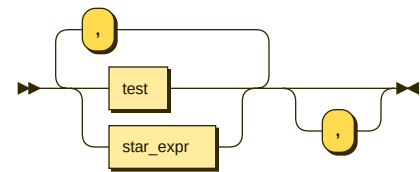


`annassign ::= ':' test ( '=' ( yield_expr | testlist_star_expr ) )?`

referenced by:

- [expr\\_stmt](#)

**testlist\_star\_expr:**

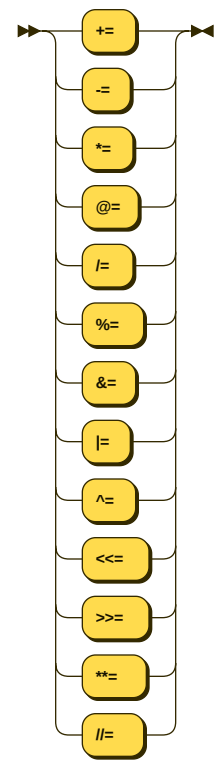


`testlist_star_expr ::= ( test | star_expr ) ( ',' ( test | star_expr ) ) * ',' ?`

referenced by:

- [annassign](#)
- [expr\\_stmt](#)
- [yield\\_arg](#)

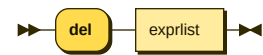
**augassign:**



```
augassign ::= '+'  
          | '-'  
          | '*'  
          | '@'  
          | '/'  
          | '%'  
          | '&  
          | '|'  
          | '^'  
          | '<<  
          | '>>  
          | '**'  
          | '//'
```

- referenced by:
- `expr_stmt`

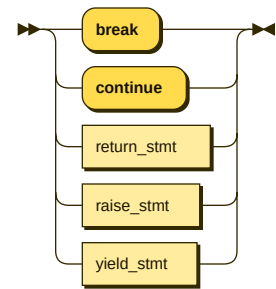
**del\_stmt:**



```
del_stmt ::= 'del' exprlist
```

- referenced by:
- `small_stmt`

**flow\_stmt:**

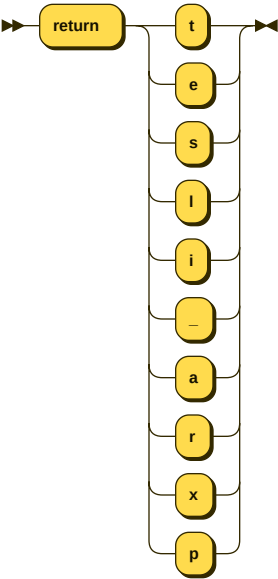


```
flow_stmt ::= 'break'  
           | 'continue'  
           | return_stmt  
           | raise_stmt  
           | yield_stmt
```

referenced by:

- [small\\_stmt](#)

return\_stmt:



```
return_stmt ::= 'return' [tesli_arxp]
```

referenced by:

- [flow\\_stmt](#)

yield\_stmt:

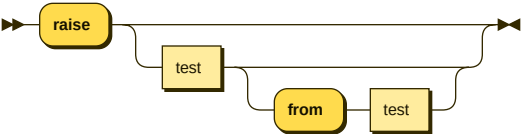


```
yield_stmt ::= yield_expr
```

referenced by:

- [flow\\_stmt](#)

raise\_stmt:

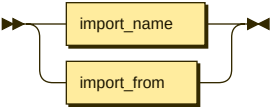


```
raise_stmt ::= 'raise' ( test ( 'from' test )? )?
```

referenced by:

- [flow\\_stmt](#)

import\_stmt:



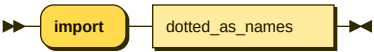
```
import_stmt ::= import_name  
            | import_from
```

referenced by:

- [small\\_stmt](#)



import\_name:

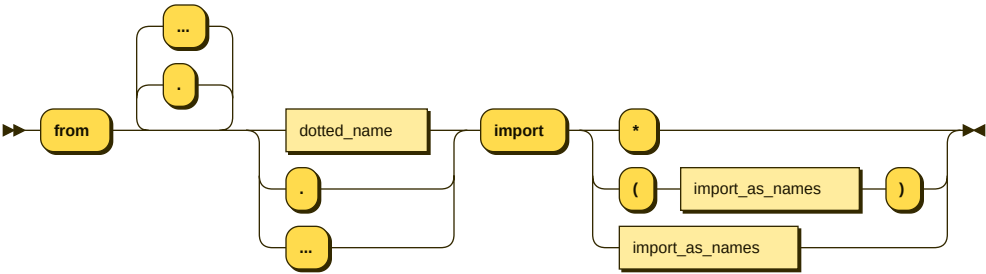


```
import_name ::= 'import' dotted_as_names
```

referenced by:

- [import\\_stmt](#)

import\_from:

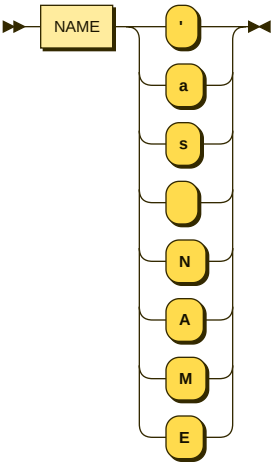


```
import_from ::= 'from' ( '.' | '...' ) * ( dotted_name | '.' | '...' ) 'import' ( '*' | '(' import_as_names ')' | import_as_names )
```

referenced by:

- [import\\_stmt](#)

import\_as\_name:

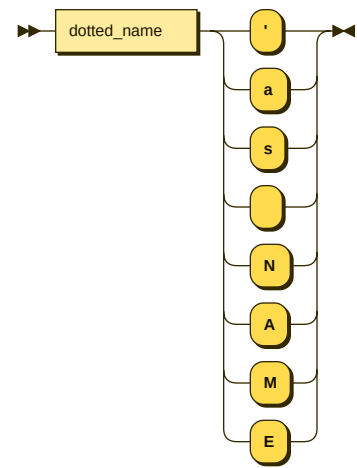


```
import_as_name ::= NAME ['as NAME']
```

referenced by:

- [import\\_as\\_names](#)

dotted\_as\_name:

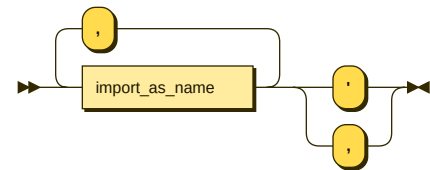


```
dotted_as_name ::= dotted_name ['as NAME]
```

referenced by:

- [dotted\\_as\\_names](#)

**import\_as\_names:**

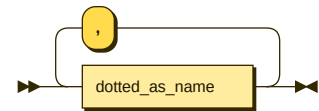


```
import_as_names ::= import_as_name ( ',' import_as_name )* [',']
```

referenced by:

- [import\\_from](#)

**dotted\_as\_names:**

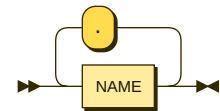


```
dotted_as_names ::= dotted_as_name ( ',' dotted_as_name )*
```

referenced by:

- [import\\_name](#)

**dotted\_name:**

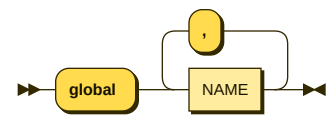


```
dotted_name ::= NAME ( '.' NAME )*
```

referenced by:

- [decorator](#)
- [dotted\\_as\\_name](#)
- [import\\_from](#)

**global\_stmt:**

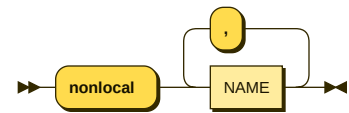


```
global_stmt ::= 'global' NAME ( ',' NAME )*
```

referenced by:

- [small\\_stmt](#)

**nonlocal\_stmt:**

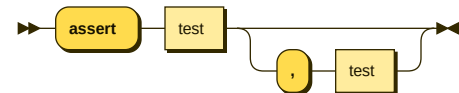


```
nonlocal_stmt ::= 'nonlocal' NAME ( ',' NAME )*
```

referenced by:

- [small\\_stmt](#)

**assert\_stmt:**

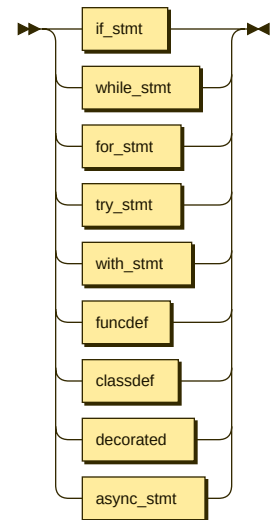


```
assert_stmt ::= 'assert' test ( ',' test )?
```

referenced by:

- [small\\_stmt](#)

**compound\_stmt:**

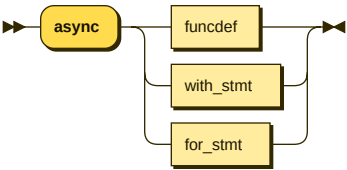


```
compound_stmt ::= if_stmt  
                | while_stmt  
                | for_stmt  
                | try_stmt  
                | with_stmt  
                | funcdef  
                | classdef  
                | decorated  
                | async_stmt
```

referenced by:

- [stmt](#)

**async\_stmt:**

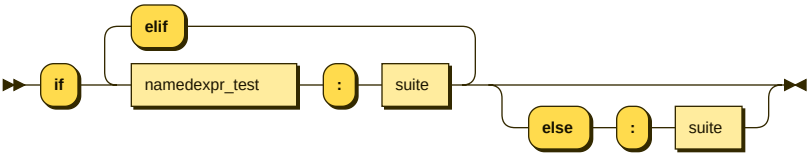


`async_stmt ::= 'async' ( funcdef | with_stmt | for_stmt )`

referenced by:

- [compound\\_stmt](#)

**if\_stmt:**

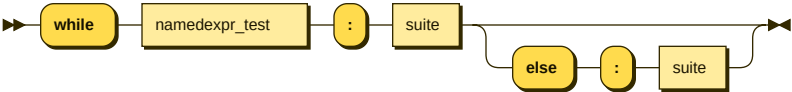


`if_stmt ::= 'if' namedexpr_test ':' suite ( 'elif' namedexpr_test ':' suite )* ( 'else' ':' suite )?`

referenced by:

- [compound\\_stmt](#)

**while\_stmt:**



`while_stmt ::= 'while' namedexpr_test ':' suite ( 'else' ':' suite )?`

referenced by:

- [compound\\_stmt](#)

**for\_stmt:**

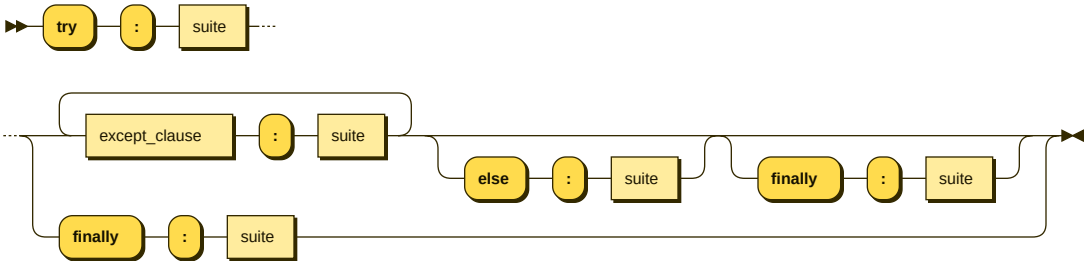


`for_stmt ::= 'for' exprlist 'in' testlist ':' TYPE_COMMENT? suite ( 'else' ':' suite )?`

referenced by:

- [async\\_stmt](#)
- [compound\\_stmt](#)

**try\_stmt:**

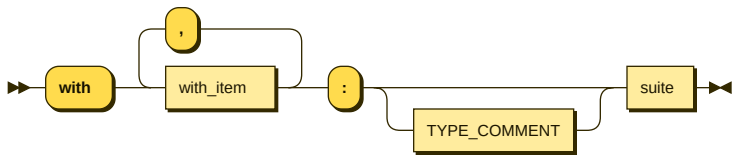


`try_stmt ::= 'try' ':' suite ( ( except_clause ':' suite )+ ( 'else' ':' suite )? ( 'finally' ':' suite )? | 'finally' ':' suite )`

referenced by:

- [compound\\_stmt](#)

**with\_stmt:**

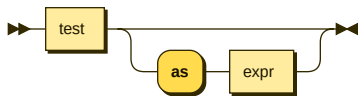


`with_stmt ::= 'with' with_item ( ',' with_item )* ':' TYPE_COMMENT? suite`

referenced by:

- [async\\_stmt](#)
- [compound\\_stmt](#)

**with\_item:**

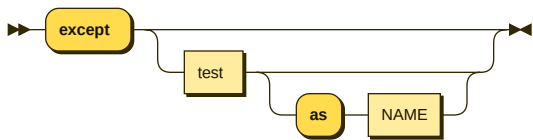


`with_item ::= test ( 'as' expr )?`

referenced by:

- [with\\_stmt](#)

**except\_clause:**

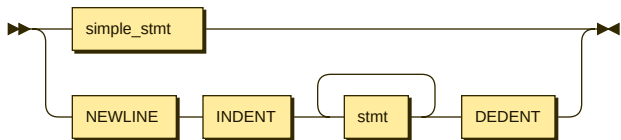


`except_clause ::= 'except' ( test ( 'as' NAME )? )?`

referenced by:

- [try\\_stmt](#)

**suite:**

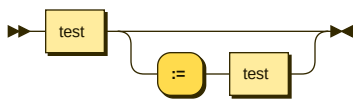


`suite ::= simple_stmt  
| NEWLINE INDENT stmt+ DEDENT`

referenced by:

- [classdef](#)
- [for\\_stmt](#)
- [if\\_stmt](#)
- [try\\_stmt](#)
- [while\\_stmt](#)
- [with\\_stmt](#)

**namedexpr\_test:**

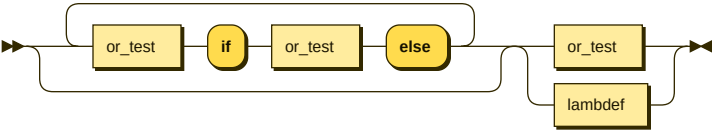


`namedexpr_test ::= test ( ':' test )?`

referenced by:

- [if\\_stmt](#)
- [testlist\\_comp](#)
- [while\\_stmt](#)

test:

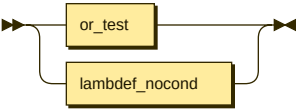


test ::= ( or\_test 'if' or\_test 'else' ) \* ( or\_test | lambda\_def )

referenced by:

- [annassign](#)
- [argument](#)
- [assert\\_stmt](#)
- [dictorsetmaker](#)
- [except\\_clause](#)
- [func\\_type](#)
- [funcdef](#)
- [lambda\\_def](#)
- [namedexpr\\_test](#)
- [raise\\_stmt](#)
- [sliceop](#)
- [subscript](#)
- [testlist](#)
- [testlist\\_star\\_expr](#)
- [typeddef](#)
- [typedarglist](#)
- [typelist](#)
- [vararglist](#)
- [with\\_item](#)
- [yield\\_arg](#)

test\_nocond:

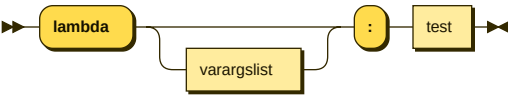


test\_nocond ::= or\_test | lambda\_def\_nocond

referenced by:

- [comp\\_if](#)
- [lambda\\_def\\_nocond](#)

lambda\_def:

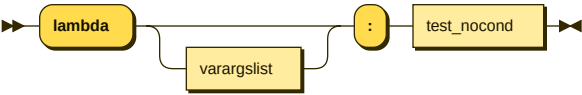


lambda\_def ::= 'lambda' vararglist? ':' test

referenced by:

- [test](#)

lambda\_def\_nocond:

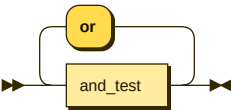


lambda\_def\_nocond ::= 'lambda' vararglist? ':' test\_nocond

referenced by:

- [test\\_nocond](#)

or\_test:

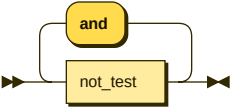


or\_test ::= and\_test ( 'or' and\_test )\*

referenced by:

- [sync\\_comp\\_for](#)
- [test](#)
- [test\\_nocond](#)

and\_test:

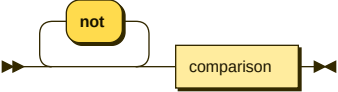


and\_test ::= not\_test ( 'and' not\_test )\*

referenced by:

- [or\\_test](#)

not\_test:

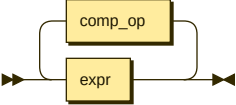


not\_test ::= 'not'\* comparison

referenced by:

- [and\\_test](#)

comparison:

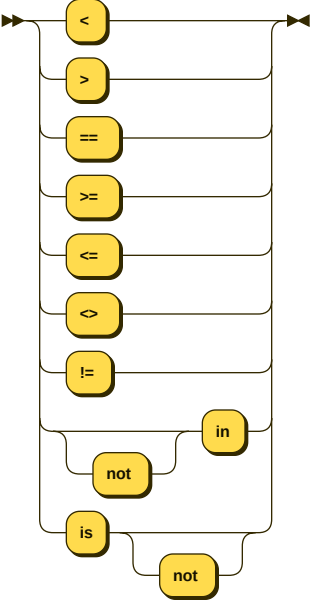


comparison ::= expr ( comp\_op expr )\*

referenced by:

- [not\\_test](#)

comp\_op:



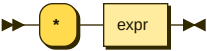
comp\_op ::= '<'  
          | '>'  
          | '=='  
          | '!='  
          | 'in'  
          | 'is'  
          | 'not'

```
| '>='  
| '<='  
| '<>'  
| '!='  
| 'not'? 'in'  
| 'is' 'not'?
```

referenced by:

- [comparison](#)

star\_expr:

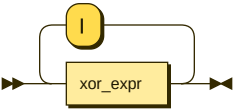


star\_expr  
::= '\*' expr

referenced by:

- [dictorsetmaker](#)
- [exprlist](#)
- [testlist\\_comp](#)
- [testlist\\_star\\_expr](#)

expr:

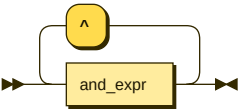


expr  
::= xor\_expr ( '|' xor\_expr )\*

referenced by:

- [comparison](#)
- [dictorsetmaker](#)
- [exprlist](#)
- [star\\_expr](#)
- [with\\_item](#)

xor\_expr:

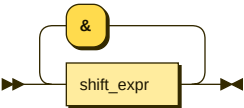


xor\_expr  
::= and\_expr ( '^' and\_expr )\*

referenced by:

- [expr](#)

and\_expr:

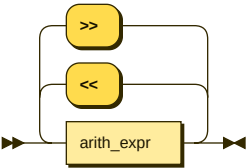


and\_expr  
::= shift\_expr ( '&' shift\_expr )\*

referenced by:

- [xor\\_expr](#)

shift\_expr:



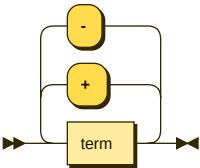
shift\_expr  
::= arith\_expr ( ( '<<' | '>>' ) arith\_expr )\*



referenced by:

- [and\\_expr](#)

**arith\_expr:**

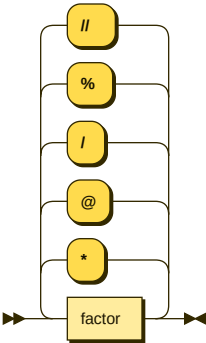


`arith_expr ::= term ( ( '+' | '-' ) term )*`

referenced by:

- [shift\\_expr](#)

**term:**

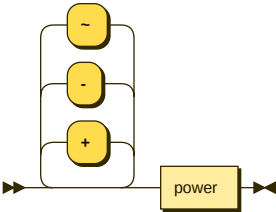


`term ::= factor ( ( '*' | '@' | '/' | '%' | '//' ) factor )*`

referenced by:

- [arith\\_expr](#)

**factor:**

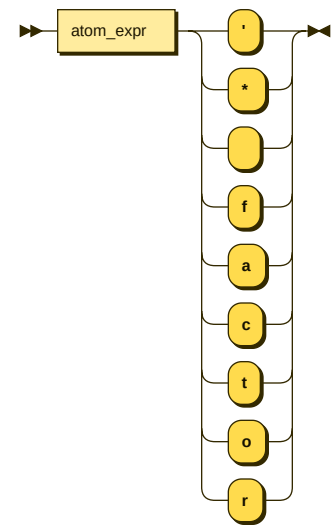


`factor ::= ( '+' | '-' | '~' )* power`

referenced by:

- [term](#)

**power:**

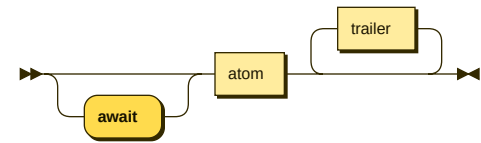


`power ::= atom_expr ['* factor]`

referenced by:

- [factor](#)

**atom\_expr:**

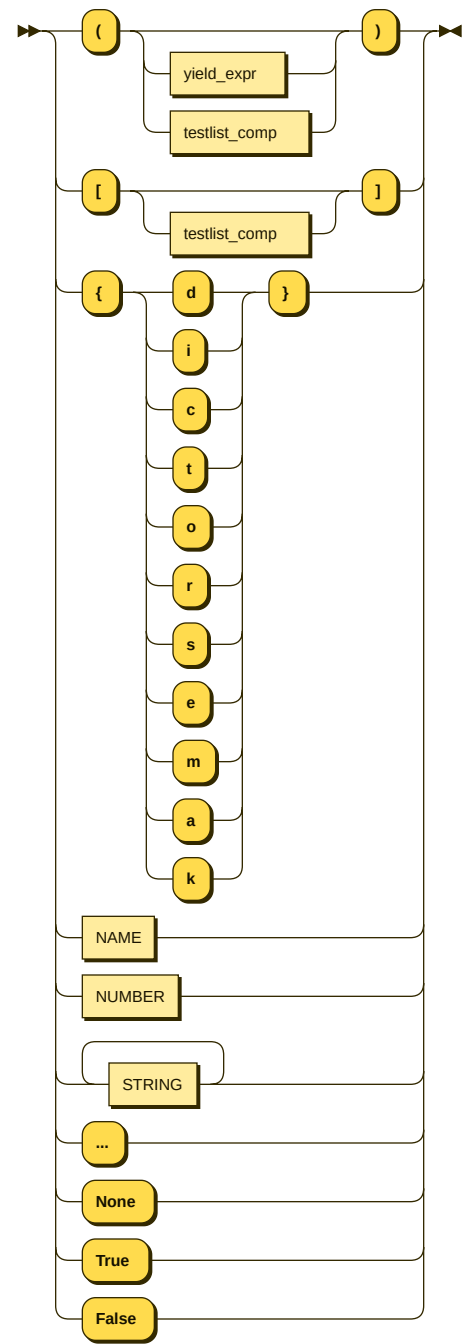


`atom_expr ::= 'await'? atom trailer*`

referenced by:

- [power](#)

**atom:**

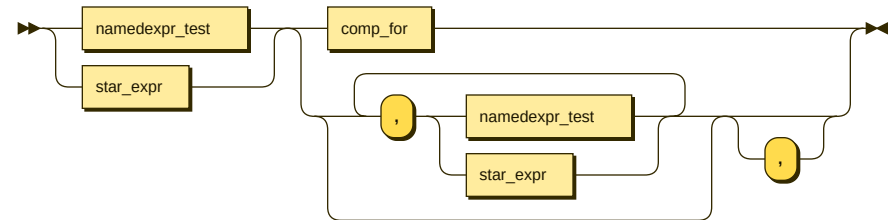


```
atom ::= '(' ( yield_expr | testlist_comp )? ')'
      | '[' testlist_comp? ']'
      | '{' [dictorsemak] '}'
      | NAME
      | NUMBER
      | STRING+
      | '...'
      | 'None'
      | 'True'
      | 'False'
```

referenced by:

- [atom\\_expr](#)

testlist\_comp:

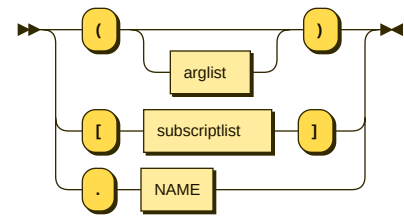


```
testlist_comp ::= ( namedexpr_test | star_expr ) ( comp_for | ( ',' ( namedexpr_test | star_expr ) ) * ',' '?' )
```

referenced by:

- [atom](#)

trailer:

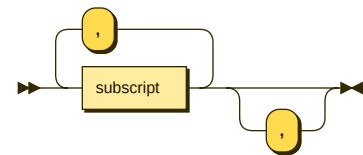


```
trailer ::= '(' arglist? ')'  
        | '[' subscriptlist ']'  
        | '.' NAME
```

referenced by:

- [atom\\_expr](#)

subscriptlist:

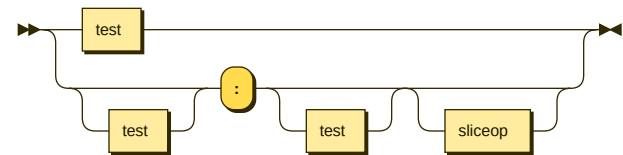


```
subscriptlist  
  ::= subscript ( ',' subscript ) * ',' '?'
```

referenced by:

- [trailer](#)

subscript:

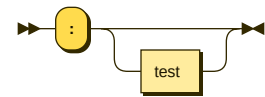


```
subscript  
  ::= test  
  | test? ':' test? sliceop?
```

referenced by:

- [subscriptlist](#)

sliceop:

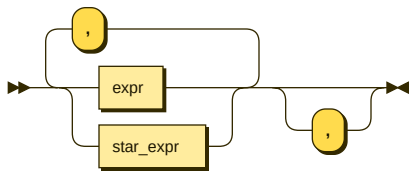


```
sliceop ::= ':' test?
```

referenced by:

- [subscript](#)

exprlist:

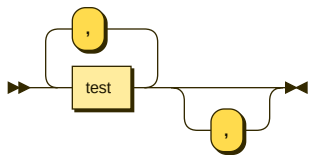


exprlist ::= ( expr | star\_expr ) ( ',' ( expr | star\_expr ) ) \* ',' ?

referenced by:

- [del\\_stmt](#)
- [for\\_stmt](#)
- [sync\\_comp\\_for](#)

testlist:

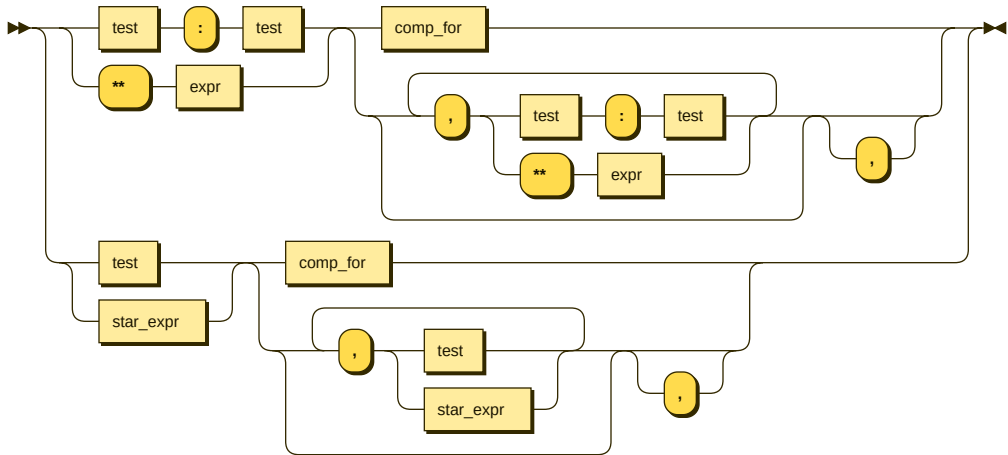


testlist ::= test ( ',' test ) \* ',' ?

referenced by:

- [eval\\_input](#)
- [expr\\_stmt](#)
- [for\\_stmt](#)

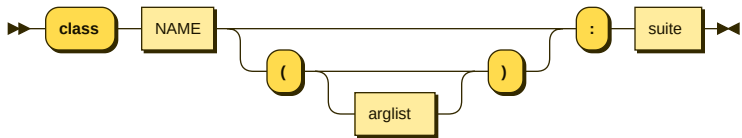
dictorsetmaker:



dictorsetmaker ::= ( test ':' test | '\*' expr ) ( comp\_for | ( ',' ( test ':' test | '\*' expr ) ) \* ',' ? ) | ( test | star\_expr ) ( comp\_for | ( ',' ( test | star\_expr ) ) \* ',' ? )

no references

classdef:

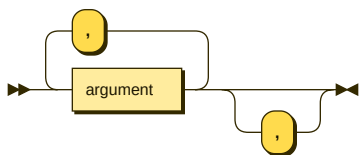


classdef ::= 'class' NAME ( '(' arglist? ')' )? ':' suite

referenced by:

- [compound\\_stmt](#)
- [decorated](#)

arglist:

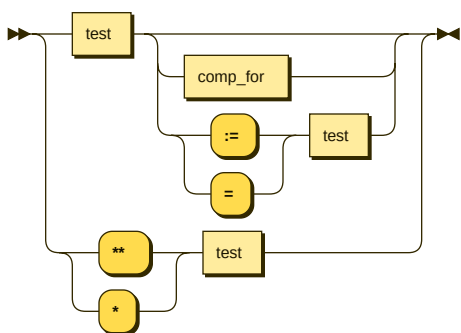


```
arglist ::= argument ( ',' argument ) * ',' ?
```

referenced by:

- classdef
- decorator
- trailer

**argument:**

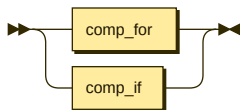


```
argument ::= test ( comp_for | ( ':' | '=' ) test )?
           | ( '***' | '*' ) test
```

referenced by:

- arglist

**comp\_iter:**

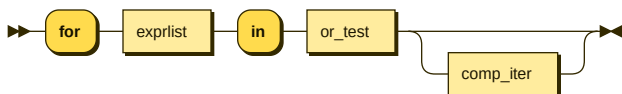


```
comp_iter ::= comp_for
           | comp_if
```

referenced by:

- comp\_if
- sync\_comp\_for

**sync\_comp\_for:**

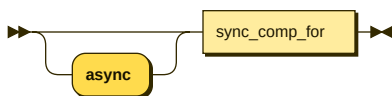


```
sync_comp_for
    ::= 'for' exprlist 'in' or_test comp_iter?
```

referenced by:

- comp\_for

**comp\_for:**



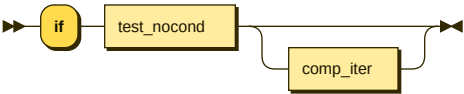
```
comp_for ::= 'async'? sync_comp_for
```

referenced by:

- argument

- [comp\\_iter](#)
- [dictorsetmaker](#)
- [testlist\\_comp](#)

comp\_if:



comp\_if ::= 'if' test\_nocond comp\_iter?

referenced by:

- [comp\\_iter](#)

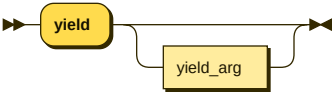
encoding\_decl:



encoding\_decl  
 ::= NAME

no references

yield\_expr:

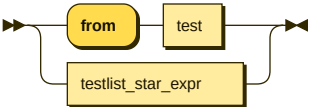


yield\_expr  
 ::= 'yield' yield\_arg?

referenced by:

- [annassign](#)
- [atom](#)
- [expr\\_stmt](#)
- [yield\\_stmt](#)

yield\_arg:

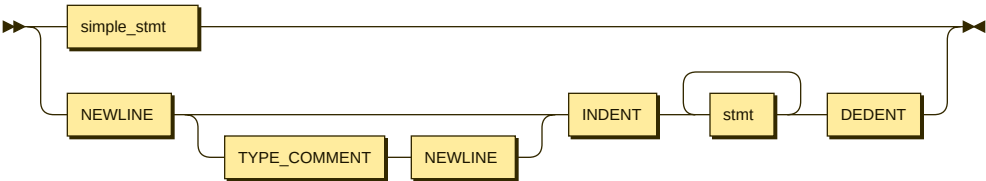


yield\_arg  
 ::= 'from' test  
 | testlist\_star\_expr

referenced by:

- [yield\\_expr](#)

func\_body\_suite:



func\_body\_suite  
 ::= simple\_stmt  
 | NEWLINE ( TYPE\_COMMENT NEWLINE )? INDENT stmt+ DEDENT

referenced by:

- [funcdef](#)

func\_type\_input:



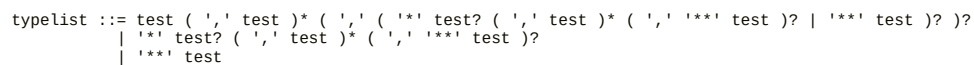
no references

func\_type:



referenced by:

- func\_type\_input

**typelist:**

referenced by:

- func\_type