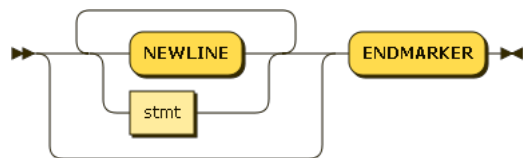
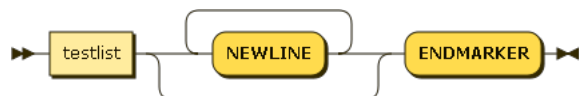


file_input:

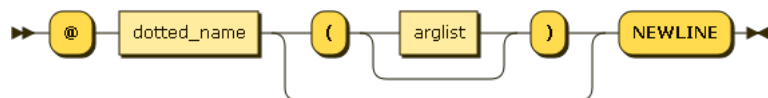
```
file_input
    ::= ( 'NEWLINE' | stmt )* 'ENDMARKER'
```

no references

eval_input:

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

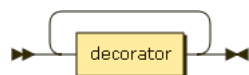
no references

decorator:

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

referenced by:

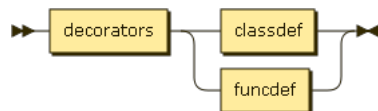
- [decorators](#)

decorators:

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

referenced by:

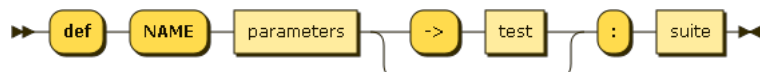
- [decorated](#)

decorated:

```
decorated
    ::= decorators ( classdef | funcdef )
```

referenced by:

- [compound_stmt](#)

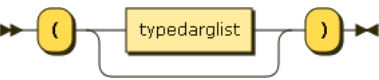
funcdef:

funcdef ::= 'def' 'NAME' parameters ('->' test)? ':' suite

referenced by:

- [compound_stmt](#)
- [decorated](#)

parameters:

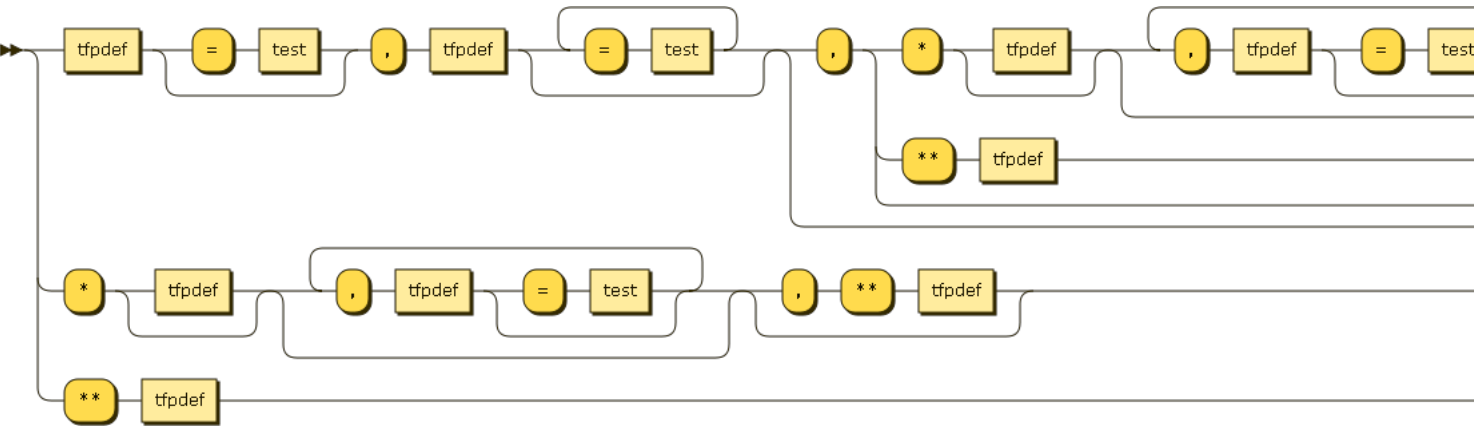


parameters ::= '(' typedarglist? ')'

referenced by:

- [funcdef](#)

typedarglist:

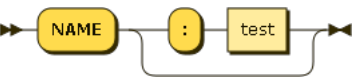


typedarglist ::= tfpdef ('=' test)? ',' tfpdef ('=' test)* (',' ('*' tfpdef? (',' tfpdef ('=' test)?) * (',' '***' tfpdef)? | '***' tfpdef)?)? | '*' tfpdef? (',' tfpdef ('=' test)?) * (',' '***' tfpdef)? | '***' tfpdef

referenced by:

- [parameters](#)

tfpdef:

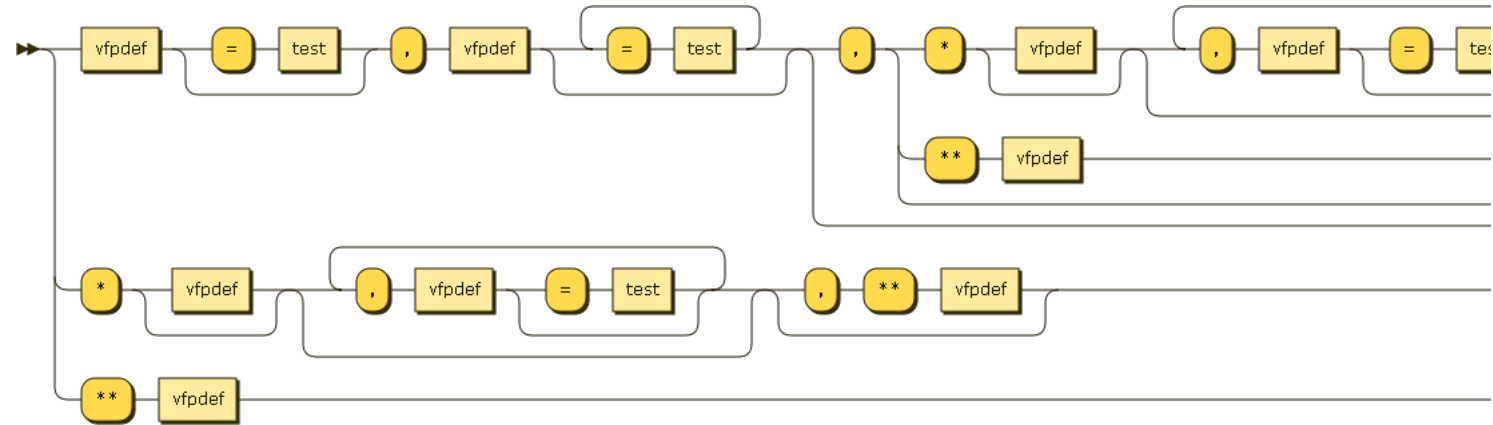


tfpdef ::= 'NAME' (':' test)?

referenced by:

- [typedarglist](#)

vararglist:



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

referenced by:

- [lambdef](#)
- [lambdef_nocond](#)

vfpdef:

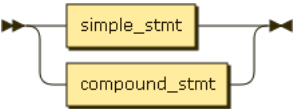


```
vfpdef ::= 'NAME'
```

referenced by:

- [varargslist](#)

stmt:

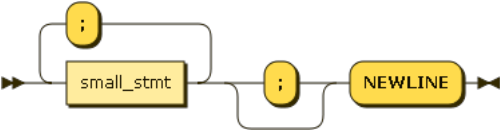


```
stmt ::= simple_stmt
| compound_stmt
```

referenced by:

- [file_input](#)
- [suite](#)

simple_stmt:

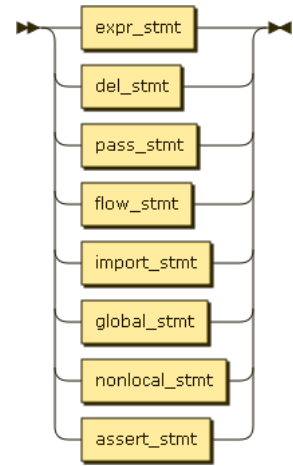


```
simple_stmt
::= small_stmt ( ';' small_stmt )* ';' 'NEWLINE'
```

referenced by:

- [stmt](#)
- [suite](#)

small_stmt:

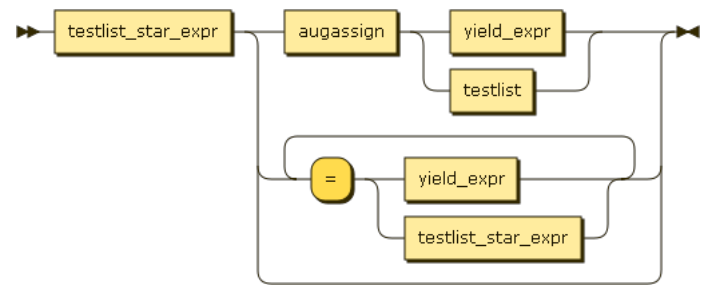


```
small_stmt ::= expr_stmt
           | del_stmt
           | pass_stmt
           | flow_stmt
           | import_stmt
           | global_stmt
           | nonlocal_stmt
           | assert_stmt
```

referenced by:

- [simple_stmt](#)

expr_stmt:

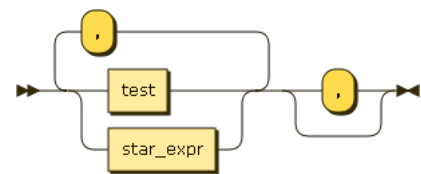


```
expr_stmt ::= testlist_star_expr ( augassign ( yield_expr | testlist ) | ( '=' ( yield_expr | testlist_star_expr ) )* )
```

referenced by:

- [small_stmt](#)

testlist_star_expr:

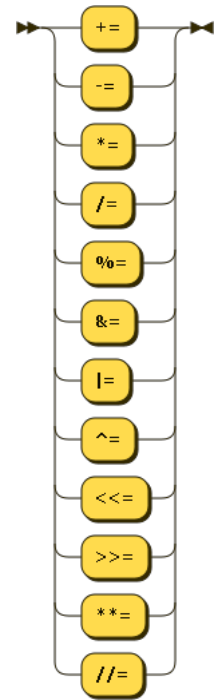


```
testlist_star_expr ::= ( test | star_expr ) ( ',' ( test | star_expr ) )* ','
```

referenced by:

- [expr_stmt](#)

augassign:

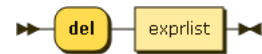


```
augassign ::= '+'
          '-'
          '*'
          '/'
          '%'
          '&'
          '|'
          '^'
          '<<'
          '>>'
          '**'
          '//'
```

referenced by:

- [expr_stmt](#)

del_stmt:



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

referenced by:

- [small_stmt](#)

pass_stmt:

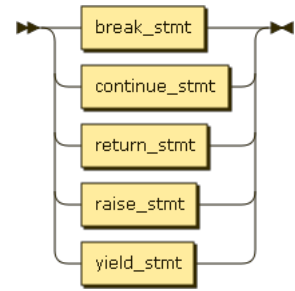


```
pass_stmt ::= 'pass'
```

referenced by:

- [small_stmt](#)

flow_stmt:



```
flow_stmt ::= break_stmt
           | continue_stmt
           | return_stmt
           | raise_stmt
           | yield_stmt
```

referenced by:

- [small_stmt](#)

break_stmt:



```
break_stmt ::= 'break'
```

referenced by:

- [flow_stmt](#)

continue_stmt:

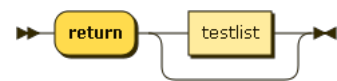


```
continue_stmt ::= 'continue'
```

referenced by:

- [flow_stmt](#)

return_stmt:

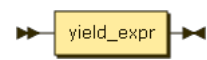


```
return_stmt ::= 'return' testlist?
```

referenced by:

- [flow_stmt](#)

yield_stmt:

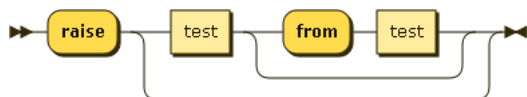


```
yield_stmt ::= yield_expr
```

referenced by:

- [flow_stmt](#)

raise_stmt:

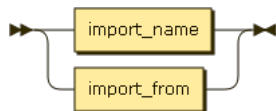


```
raise_stmt
  ::= 'raise' ( test ( 'from' test )? )?
```

referenced by:

- [flow_stmt](#)

import_stmt:

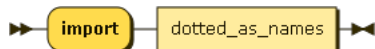


```
import_stmt
  ::= import_name
  | import_from
```

referenced by:

- [small_stmt](#)

import_name:

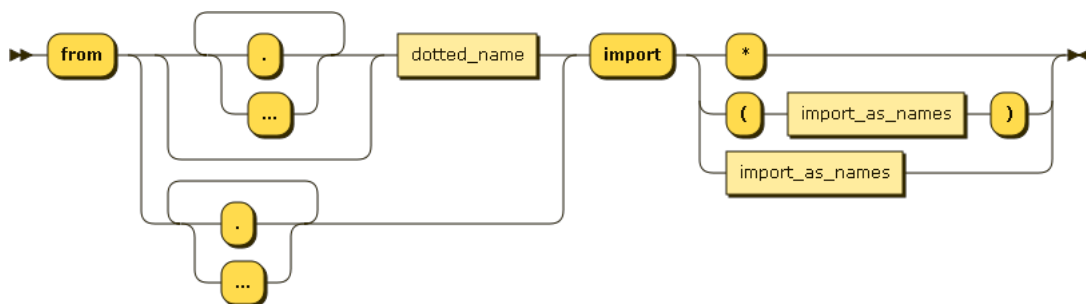


```
import_name
  ::= 'import' dotted_as_names
```

referenced by:

- [import_stmt](#)

import_from:

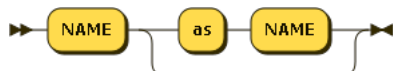


```
import_from
  ::= 'from' ( ( '.' | '...' ) * dotted_name | ( '.' | '...' ) + ) 'import' ( '*' | '(' import_as_names ')' | import_as_names )
```

referenced by:

- [import_stmt](#)

import_as_name:



```
import_as_name
  ::= 'NAME' ( 'as' 'NAME' )?
```

referenced by:

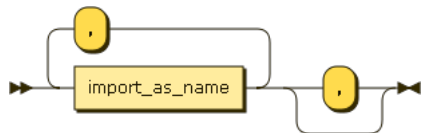
- [import_as_names](#)

dotted_as_name:

```
dotted_as_name
  ::= dotted_name ( 'as' 'NAME' )?
```

referenced by:

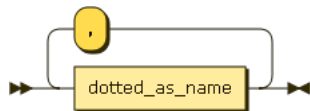
- [dotted_as_names](#)

import_as_names:

```
import_as_names
  ::= import_as_name ( ',' import_as_name )* ','?
```

referenced by:

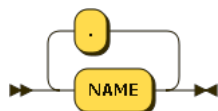
- [import_from](#)

dotted_as_names:

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

referenced by:

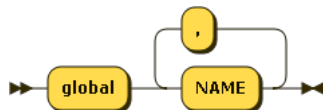
- [import_name](#)

dotted_name:

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

referenced by:

- [decorator](#)
- [dotted_as_name](#)
- [import_from](#)

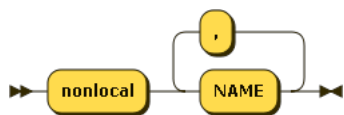
global_stmt:

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

referenced by:

- [small_stmt](#)

nonlocal_stmt:



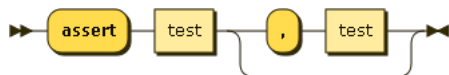
```

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

referenced by:

- [small_stmt](#)

assert_stmt:



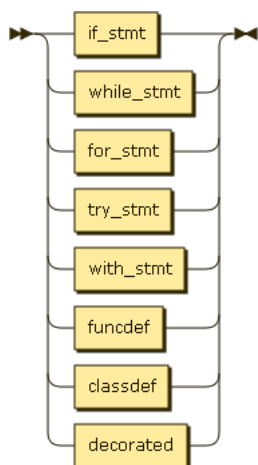
```

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

referenced by:

- [small_stmt](#)

compound_stmt:



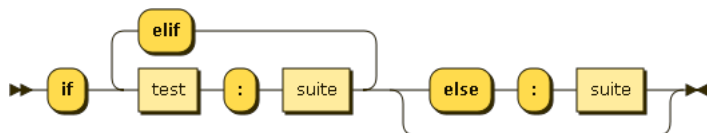
```

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

referenced by:

- [stmt](#)

if_stmt:

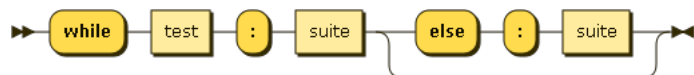


```

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

referenced by:

- [compound_stmt](#)

while_stmt:

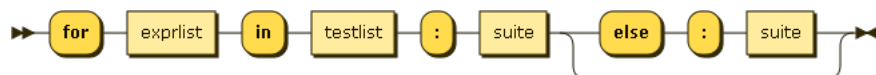
```

while_stmt
  ::= 'while' test ':' suite ( 'else' ':' suite )?

```

referenced by:

- [compound_stmt](#)

for_stmt:

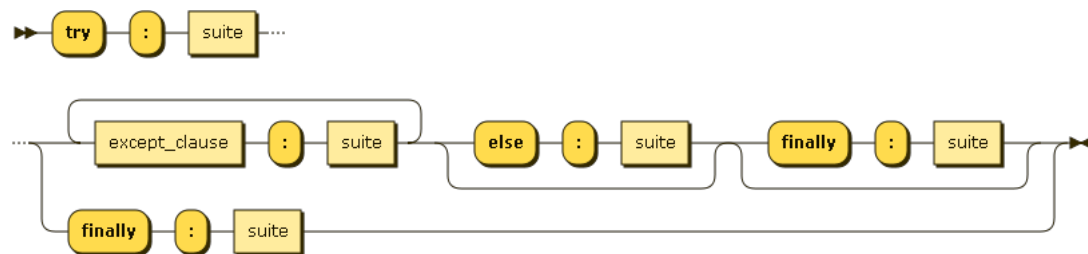
```

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

```

referenced by:

- [compound_stmt](#)

try_stmt:

```

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

```

referenced by:

- [compound_stmt](#)

with_stmt:

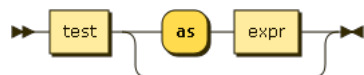
```

with_stmt
  ::= 'with' with_item ( ',' with_item )* ':' suite

```

referenced by:

- [compound_stmt](#)

with_item:

```

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

```

referenced by:

- [with_stmt](#)

except_clause:



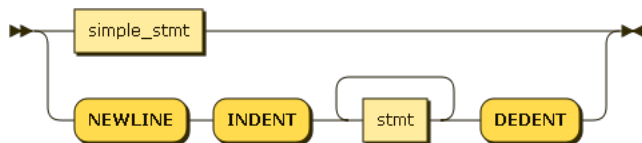
```

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

referenced by:

- [try_stmt](#)

suite:



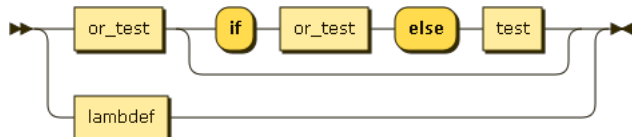
```

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

referenced by:

- [classdef](#)
- [for_stmt](#)
- [funcdef](#)
- [if_stmt](#)
- [try_stmt](#)
- [while_stmt](#)
- [with_stmt](#)

test:



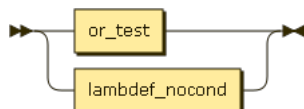
```

test
    ::= or_test ( 'if' or_test 'else' test )?
    | lambdef
  
```

referenced by:

- [arglist](#)
- [argument](#)
- [assert_stmt](#)
- [dictorsetmaker](#)
- [except_clause](#)
- [funcdef](#)
- [if_stmt](#)
- [lambdef](#)
- [raise_stmt](#)
- [sliceop](#)
- [subscript](#)
- [test](#)
- [testlist](#)
- [testlist_comp](#)
- [testlist_star_expr](#)
- [tfpdef](#)
- [typedarglist](#)
- [vararglist](#)
- [while_stmt](#)
- [with_item](#)
- [yield_arg](#)

test_nocond:



```

test_nocond
    ::= or_test
    | lambdef_nocond
  
```

referenced by:

- [comp_if](#)
- [lambdef_nocond](#)

lambdef:



```
lambdef ::= 'lambda' vararglist? ':' test
```

referenced by:

- [test](#)

lambdef_nocond:

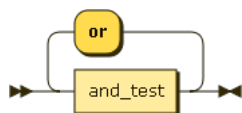


```
lambdef_nocond  
    ::= 'lambda' vararglist? ':' test_nocond
```

referenced by:

- [test_nocond](#)

or_test:

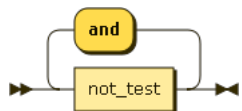


```
or_test ::= and_test ( 'or' and_test )*
```

referenced by:

- [comp_for](#)
- [test](#)
- [test_nocond](#)

and_test:

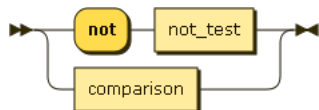


```
and_test ::= not_test ( 'and' not_test )*
```

referenced by:

- [or_test](#)

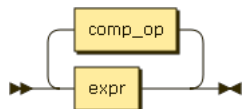
not_test:



```
not_test ::= 'not' not_test  
          | comparison
```

referenced by:

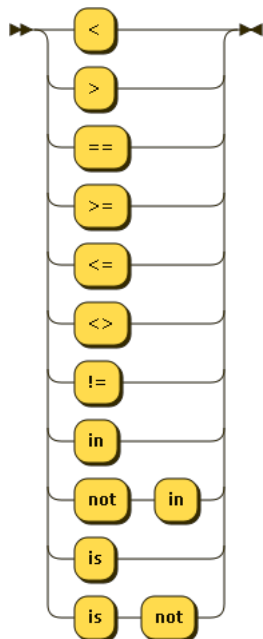
- [and_test](#)
- [not_test](#)

comparison:

```
comparison
 ::= expr ( comp_op expr )*
```

referenced by:

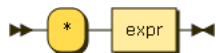
- [not_test](#)

comp_op:

```
comp_op ::= '<'
         '>'
         '=='
         '>='
         '<='
         '<>'
         '!='
         'in'
         'not' 'in'
         'is'
         'is' 'not'
```

referenced by:

- [comparison](#)

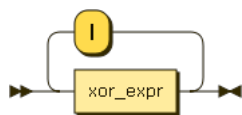
star_expr:

```
star_expr
 ::= '*' expr
```

referenced by:

- [exprlist](#)
- [testlist_comp](#)
- [testlist_star_expr](#)

expr:

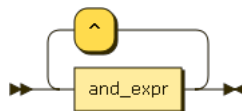


`expr ::= xor_expr ('|' xor_expr)*`

referenced by:

- [comparison](#)
- [exprlist](#)
- [star_expr](#)
- [with_item](#)

xor_expr:

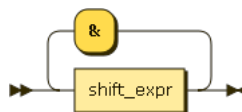


`xor_expr ::= and_expr ('^' and_expr)*`

referenced by:

- [expr](#)

and_expr:

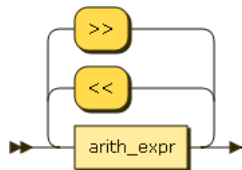


`and_expr ::= shift_expr ('&' shift_expr)*`

referenced by:

- [xor_expr](#)

shift_expr:

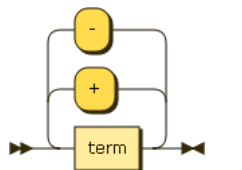


`shift_expr
::= arith_expr (('<<' | '>>') arith_expr)*`

referenced by:

- [and_expr](#)

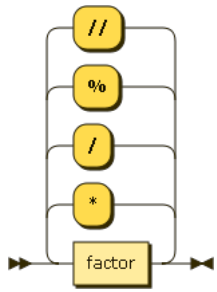
arith_expr:



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

referenced by:

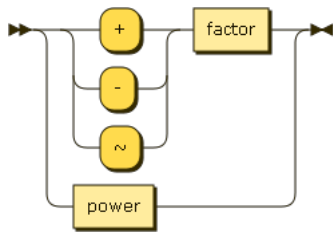
- [shift_expr](#)

term:

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

referenced by:

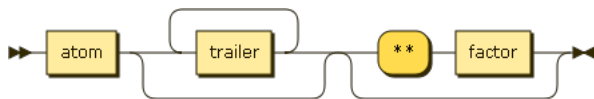
- [arith_expr](#)

factor:

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

referenced by:

- [factor](#)
- [power](#)
- [term](#)

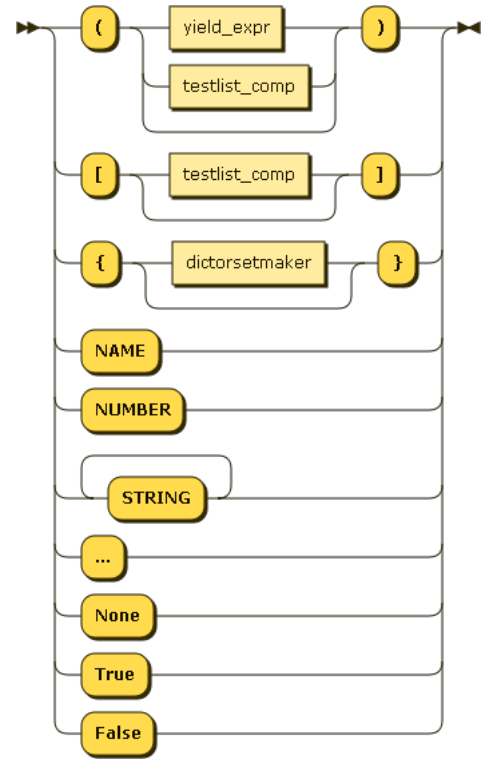
power:

```
power ::= atom trailer* ( '**' factor )?
```

referenced by:

- [factor](#)

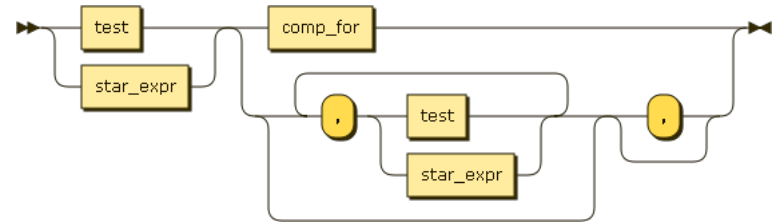
atom:



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

- referenced by:
- [power](#)

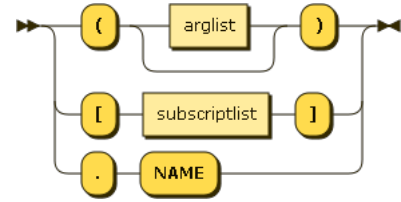
testlist_comp:



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

- referenced by:
- [atom](#)

trailer:



```
trailer ::= '(' arglist? ')'
```

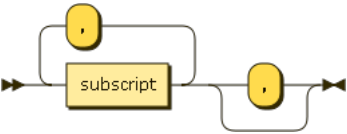


```
| '[' subscriptlist ']'
| '.' 'NAME'
```

referenced by:

- [power](#)

subscriptlist:

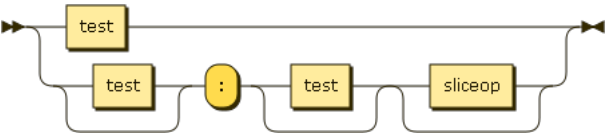


```
subscriptlist
  ::= subscript ( ',' subscript )* ','?
```

referenced by:

- [trailer](#)

subscript:

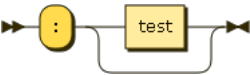


```
subscript
  ::= test
  | test? ':' test? sliceop?
```

referenced by:

- [subscriptlist](#)

sliceop:

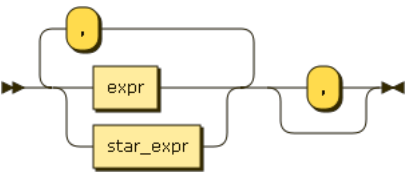


```
sliceop ::= ':' test?
```

referenced by:

- [subscript](#)

exprlist:

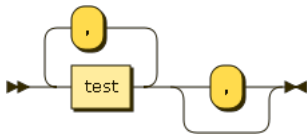


```
exprlist ::= ( expr | star_expr ) ( ',' ( expr | star_expr ) )* ','?
```

referenced by:

- [comp_for](#)
- [del_stmt](#)
- [for_stmt](#)

testlist:

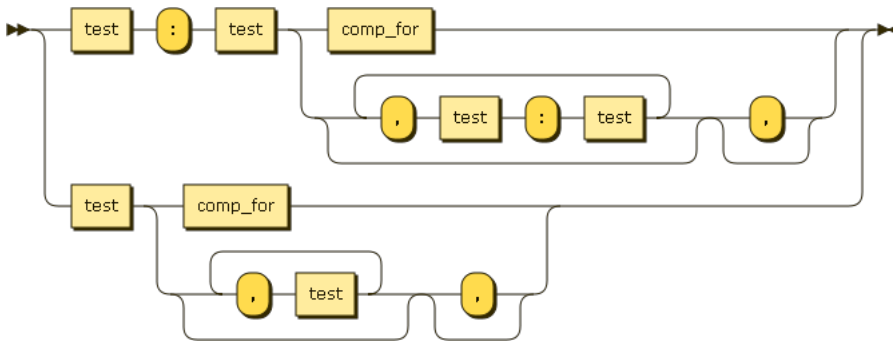


```
testlist ::= test ( ',' test ) * ',' ?
```

referenced by:

- [eval_input](#)
- [expr_stmt](#)
- [for_stmt](#)
- [return_stmt](#)
- [yield_arg](#)

dictorsetmaker:

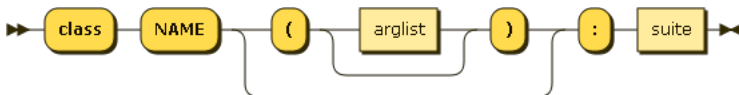


```
dictorsetmaker
  ::= test ':' test ( comp_for | ( ',' test ':' test ) * ',' ? )
  | test ( comp_for | ( ',' test ) * ',' ? )
```

referenced by:

- [atom](#)

classdef:

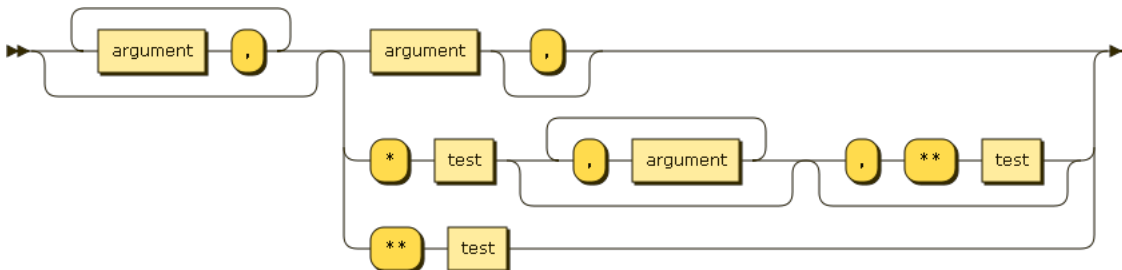


```
classdef ::= 'class' 'NAME' ( '(' arglist ? ')' ) ? ':' suite
```

referenced by:

- [compound_stmt](#)
- [decorated](#)

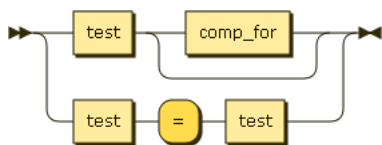
arglist:



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

referenced by:

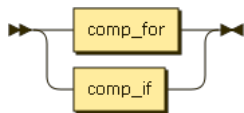
- [classdef](#)
- [decorator](#)
- [trailer](#)

argument:

```
argument ::= test comp_for?
          | test '=' test
```

referenced by:

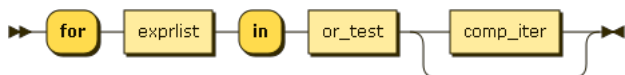
- [arglist](#)

comp_iter:

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

referenced by:

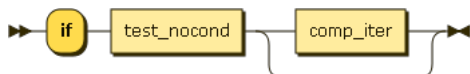
- [comp_for](#)
- [comp_if](#)

comp_for:

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

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:

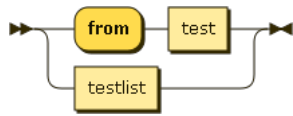


```
yield_expr  
    ::= 'yield' yield_arg?
```

referenced by:

- [atom](#)
- [expr_stmt](#)
- [yield_stmt](#)

yield_arg:



```
yield_arg  
    ::= 'from' test  
       | testlist
```

referenced by:

- [yield_expr](#)