32.5. token — Constants used with Python parse trees

Source code: Lib/token.py

This module provides constants which represent the numeric values of leaf nodes of the parse tree (terminal tokens). Refer to the file Grammar/Grammar in the Python distribution for the definitions of the names in the context of the language grammar. The specific numeric values which the names map to may change between Python versions.

The module also provides a mapping from numeric codes to names and some functions. The functions mirror definitions in the Python C header files.

token. tok name

Dictionary mapping the numeric values of the constants defined in this module back to name strings, allowing more human-readable representation of parse trees to be generated.

token. **ISTERMINAL**(x)

Return true for terminal token values.

token. **ISNONTERMINAL**(x)

Return true for non-terminal token values.

token. **ISEOF**(x)

Return true if x is the marker indicating the end of input.

The token constants are:

token. **ENDMARKER**

token. NAME

token. NUMBER

token. STRING

token. NEWLINE

token. INDENT

token. DEDENT

token. LPAR

token. RPAR

token. LSQB

token. RSQB

token. COLON

- token. COMMA
- token. **SEMI**
- token. PLUS
- token. MINUS
- token. STAR
- token. SLASH
- token. VBAR
- token. AMPER
- token. LESS
- token. **GREATER**
- token. EQUAL
- token. DOT
- token. PERCENT
- token. LBRACE
- token. RBRACE
- token. EQEQUAL
- token. NOTEQUAL
- token. LESSEQUAL
- token. GREATEREQUAL
- token. TILDE
- token. CIRCUMFLEX
- token. LEFTSHIFT
- token. RIGHTSHIFT
- token. DOUBLESTAR
- token. PLUSEQUAL
- token. MINEQUAL
- token. STAREQUAL
- token. SLASHEQUAL
- token. PERCENTEQUAL
- token. AMPEREQUAL
- token. VBAREQUAL
- token. CIRCUMFLEXEQUAL
- token. LEFTSHIFTEQUAL
- token. RIGHTSHIFTEQUAL
- token. DOUBLESTAREQUAL
- token. DOUBLESLASH
- token. DOUBLESLASHEQUAL
- token.AT
- token. ATEQUAL
- token. RARROW
- token. ELLIPSIS
- token. OP
- token. AWAIT

token. **ASYNC**

token. **ERRORTOKEN**

token. N_TOKENS

token.NT_OFFSET

Changed in version 3.5: Added AWAIT and ASYNC tokens. Starting with Python 3.7, "async" and "await" will be tokenized as NAME tokens, and AWAIT and ASYNC will be removed.