Pylint Python linter

CONCEPTS

Every finding has an id (C0116) and a symbol (missing-function-docstring); either works in enable, disable and pragmas.

Config pyproject / pylintrc
↓ load
Targets files, packages
↓ parse
Checkers enabled messages
↓ report
Output text, json2, score + exit code

The first letter of an id is its category: C convention, R refactor, W warning, E error, F fatal. I is informational.

RUNNING

pylint *<file.py>*
Lint a single file

pylint *<package>*
Lint a package or module by name

pylint --recursive=y *<dir>*
Lint every .py file under a directory

pylint -j 0 *<path>*
Use all CPU cores

CHOOSING MESSAGES

pylint -E *<path>*
Report errors only (--errors-only)

pylint --disable=*<msg>***[,***<msg>***]**
Turn messages off by id or symbol

pylint --enable=*<msg>*
Turn a message back on

pylint --disable=all --enable=*<msg>*
Run only the listed messages

OUTPUT AND SCORE

pylint --fail-under=*<score>* *<path>*
Exit non-zero if the score is below it

HELP AND DISCOVERY

pylint --help-msg=*<msg>*
Explain a message by id or symbol

CONFIGURATION

pylint --rcfile=*<file>* *<path>*
Use a specific config file

pylint --generate-toml-config
Print a documented pyproject-style config

pylint --generate-rcfile
Print a documented .pylintrc

[tool.pylint."messages control"]
disable / enable lists in pyproject.toml

INLINE CONTROL

 # pylint: disable=*<msg>*
End of a line: silence it for that line

 # pylint: disable=*<msg>*
On its own line: silence to end of the block

MESSAGES YOU WILL MEET

C0114 / C0115 / C0116
Missing module / class / function docstring

C0103 invalid-name
Name breaks the naming style

C0301 line-too-long
Line exceeds max-line-length

W0611 unused-import
Imported but never used

W0612 / W0613
Unused variable / unused argument

E0401 import-error
Module cannot be imported (wrong env?)

E1101 no-member
Attribute not found on inferred type

E0602 undefined-variable
Name is not defined