isort Python import sorter

CONCEPTS

isort rewrites files in place by default. Run it with --diff first or commit before the first run. With Black, always set --profile black (or the config equivalent), or the two tools fight over wrapping.

Imports top of each file
↓ classify
Sections FUTURE, STDLIB, THIRDPARTY, FIRSTPARTY, LOCALFOLDER
↓ sort
Order in section import x, then from x import y
↓ wrap
Output line length, multi-line mode

Config is found automatically: pyproject.toml ([tool.isort]), .isort.cfg, setup.cfg, tox.ini or .editorconfig. Command-line flags override it.

RUN

isort .
Sort every Python file below here

isort *<file.py>* *<dir>*
Sort given files and folders

isort --check-only .
Exit 1 if any file would change

isort --diff .
Print the changes, write nothing

isort --check-only --diff .
Show why a CI check fails

STYLE

isort --profile black .
Use a preset (black, django, google, ...)

isort -l *<n>* **.**
Maximum import line length

isort -m *<mode>* **.**
Multi-line wrap mode (GRID, VERTICAL, 3, ...)

isort --sl .
One imported name per line

isort --fss .
Sort by module, ignore import / from style

SECTIONS

isort -p *<pkg>* **.**
Treat <pkg> as first party

isort --src *<dir>* **.**
Add a source path (finds first-party code)

isort -o *<pkg>* **.**
Treat <pkg> as third party

Sections, in order

Section	Holds
FUTURE	__future__
STDLIB	Python standard library
THIRDPARTY	Installed packages
FIRSTPARTY	Your own packages
LOCALFOLDER	Relative imports (from . import x)

IMPORTS AND FILES

isort -s *<name>* **.**
Skip a file or directory

isort --gitignore .
Skip files listed in .gitignore

isort --filter-files *<file.py>*
Apply skips to explicitly named files

CONFIG

isort --show-config *<file.py>*
Show settings and where they came from

isort --settings-path *<path>* **.**
Use a specific config file or folder

Skip markers in code

Marker	Effect
# isort: skip	Leave this import line alone
# isort: skip_file	Ignore the whole file
# isort: off / on	Pause and resume sorting
# isort: split	Sort above and below separately

EXIT CODES

Code	Meaning
0	Done, or nothing to change with --check-only
1	--check-only: files would change
2	Bad command-line arguments