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

`isort --diff --check-only <file.py>`
Diff plus failing exit code, one file

`isort -d <file.py>`
Print sorted result to stdout

`isort -c -q .`
Check, print errors only

`isort --color --diff .`
Colored diff

`isort --atomic .`
Skip saving if the result has a syntax error

`isort -j <n> .`
Process files in parallel

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 --tc --up .`
Trailing comma and parentheses

`isort --sl .`
One imported name per line

`isort --ca .`
Combine 'as' imports on one line

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

`isort --dt .`
Do not order by CONSTANT / Class / func

`isort --float-to-top .`
Move mid-file imports to the top

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

`isort --py <ver> .`
Stdlib list for a Python version (310, auto)

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 -a '<import>' .`
Add an import to every file

`isort --rm '<import>' .`
Remove an import from every file

IMPORTS AND FILES (cont.)

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

`isort --extend-skip <name> .`
Skip more, keep the default skips

`isort --sg '<glob>' .`
Skip by glob pattern

`isort --gitignore .`
Skip files listed in .gitignore

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

`isort --show-files .`
List files isort would process

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

Common pyproject keys

Key	Same as
profile	--profile
line_length	-l
src_paths	--src
known_first_party	-p
skip / extend_skip	-s / --extend-skip
force_sort_within_sections	--fss

EXIT CODES

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