# 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.

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

## 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)

### 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 |