Black Python formatter

CONCEPTS

Black is opinionated: few options, same output for everyone. Pin the version in your project, since style can change between releases.

Source files .py .pyi .ipynb
↓ parse
Black config + CLI flags
↓ reformat
Equivalence check AST must match
↓ write
Formatted files exit 0 / 1 / 123

Precedence: built-in defaults < pyproject.toml < command-line flags.

RUN

`black .`
Format all files under the current dir

`black` *`<file.py> <dir>`*
Format given files and folders

`black --check .`
Exit 1 if anything would change

`black --diff .`
Print the changes, write nothing

`black --check --diff .`
Show what a CI failure is about

`black --diff --color .`
Colored diff

`black -q .`
Only print errors

`black -v .`
Report ignored and unchanged files

`black --version`
Print the installed version

STYLE OPTIONS

`black -l` *`<n>`* **`.`**
Maximum line length (default 88)

STYLE OPTIONS (cont.)

`black -t` *`<py311>`* **`.`**
Target Python version (repeatable)

`black -S .`
Keep string quotes as they are

`black -C .`
Ignore magic trailing commas

FILES AND STDIN

`black -`
Read stdin, write formatted code to stdout

`black -c "`*`<code>`***`"`**
Format a code string

`black --stdin-filename` *`<path>`* **`-`**
Name stdin so excludes apply

`black --extend-exclude '`*`<regex>`***`' .`**
Skip more paths, keep defaults

`black --force-exclude '`*`<regex>`***`' .`**
Exclude even explicitly passed files

CONFIG

`[tool.black]`
Settings table in pyproject.toml

`black --required-version` *`<26>`* **`.`**
Fail if Black's version differs

IGNORING CODE

`# fmt: skip`
Leave this line alone

`# fmt: off`
Start an unformatted region

`# fmt: on`
End the region

EXIT CODES

Code	Meaning
`0`	Done, or nothing to change with --check
`1`	--check: files would be reformatted
`123`	Internal error