

Conception Orientée Objet, Outils

Université Toulouse Paul Sabatier - KEAR9RA1

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Available at

[https://homepages.laas.fr/gsaurel/
conception-orientee-objet-outils.pdf](https://homepages.laas.fr/gsaurel/conception-orientee-objet-outils.pdf)

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Source

`https://gitlab.laas.fr/gsaurel/talks :
conception-orientee-objet-outils.md`

Discussions

`https://im.laas.fr/#/room/#conception-orientee-objet:laas.fr`

Vous

- hauteurs
- position
- distances

- hauteurs
- position
- distances

Adaptez votre environnement



<https://bépo.fr>

Style

Code is read much more often than it is written

— Guido Van Rossum

<https://peps.python.org/pep-0008/>

```
print ( "hello" )
```

<https://peps.python.org/pep-0008/>

```
print ( "hello" )
```

```
↳$ flake8 hello-spaces.py
```

```
hello-spaces.py:1:6: E211 whitespace before '('
```

```
hello-spaces.py:1:8: E201 whitespace after '('
```

```
hello-spaces.py:1:16: E202 whitespace before ')'
```

```
https://github.com/psf/black
```

```
↳ $ black hello-spaces.py  
reformatted hello-spaces.py
```

All done!

```
1 file reformatted.
```

`https://github.com/psf/black`

```
↳ $ black hello-spaces.py  
reformatted hello-spaces.py
```

All done!

1 file reformatted.

```
-print ( "hello" )  
+print("hello")
```

<https://clang.llvm.org/docs/ClangFormat.html>

```
↳$ clang-format -i QGVScene.cpp
```

```
-for( auto node : _nodes ) {  
-  node->update_layout();  
-}  
+for (auto *node : _nodes) node->update_layout();
```

Analyse Statique

```
def add(a: int, b: int) -> int:  
    """Performs addition on integers.  
  
    >>> add(3, 4)  
    7  
    """  
    return a + b  
  
if __name__ == "__main__":  
    import sys  
  
    print(add(sys.argv[1], sys.argv[2]))
```

```
└─>$ python add.py 3 4  
34
```

```
└─>$ python add.py 3 4
```

```
34
```

```
└─>$ mypy add.py
```

```
add.py:13: error: Argument 1 to "add" has incompatible  
                type "str"; expected "int"
```

```
add.py:13: error: Argument 2 to "add" has incompatible  
                type "str"; expected "int"
```

```
Found 2 errors in 1 file (checked 1 source file)
```

<https://github.com/asottile/pyupgrade>

```
class C(Base):  
    def f(self):  
-         super(C, self).f()  
+         super().f()
```

<https://github.com/asottile/pyupgrade>

```
class C(Base):  
    def f(self):  
-         super(C, self).f()  
+         super().f()
```

En C++: clang-tidy

Méta

Bring your own ;)

`https://github.com/pre-commit/pre-commit`

```
└─>$ cat .pre-commit-config.yaml
```

```
repos:
```

- `repo: https://github.com/psf/black`
`rev: 22.8.0`
`hooks:`
 - `id: black`
- `repo: https://github.com/pre-commit/mirrors-clang`
`rev: v14.0.6`
`hooks:`
 - `id: clang-format`

<https://github.com/pre-commit/pre-commit>

```
↳ $ pre-commit run -a
```

`https://github.com/pre-commit/pre-commit`

```
↳$ pre-commit run -a
```

```
↳$ pre-commit install
```

<https://pre-commit.ci/>