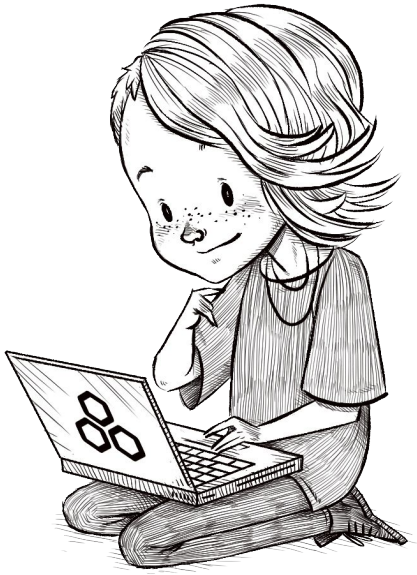
ANY FORMATTER YOU LIKE, AS LONG AS IT'S BLACK



Agenda

0x00 What Are Code-Styles?
0x01
0x02
0x03

$$\begin{vmatrix} x_1 & x_2 & x_3 \\ x_4 & x_5 & x_6 \\ x_7 & x_8 & x_9 \end{vmatrix} + \begin{vmatrix} y_1 & y_2 & y_3 \\ y_4 & y_5 & y_6 \\ y_7 & y_8 & y_9 \end{vmatrix}$$

```
public class main {public static void main(String [ ] args) {
```

```
public class main {public static void main(String [ ] args) { int
matrix1[][]
```

```
public class main {public static void main(String [ ] args) { int
matrix1[][] = {{17, 65, 37},{85, 42, 13},{-8, 71, 42}};
```

```
public class main {public static void main(String [ ] args) { int
matrix1[][] = {{17, 65, 37},{85, 42, 13},{-8, 71, 42}}; int
matrix2[][] = {{10, 27, 43},{-9, 11, 92},{44, 55, 66}};
```

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public class main {public static void main(String [ ] args) { int
matrix1[][] = {{17, 65, 37},{85, 42, 13},{-8, 71, 42}}; int
matrix2[][] = {{10, 27, 43},{-9, 11, 92},{44, 55, 66}}; int
sum[][] = new int[3][3];
```

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public class main {public static void main(String [ ] args) { int
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matrix2[][] = {{10, 27, 43},{-9, 11, 92},{44, 55, 66}}; int
sum[][] = new int[3][3]; for (int i = 0; i < matrix1.length; i++)
{
```

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matrix2[][] = {{10, 27, 43},{-9, 11, 92},{44, 55, 66}}; int
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{ for (int j = 0; j < matrix1[i].length; j++) {
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sum[][] = new int[3][3]; for (int i = 0; i < matrix1.length; i++)
{ for (int j = 0; j < matrix1[i].length; j++) {sum[i][j] =
matrix1[i][j] + matrix2[i][j];}}
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public class main {public static void main(String [ ] args) { int
matrix1[][] = {{17, 65, 37},{85, 42, 13},{-8, 71, 42}}; int
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{ for (int j = 0; j < matrix1[i].length; j++) {sum[i][j] =
matrix1[i][j] + matrix2[i][j];}} for (int i = 0; i < sum.length;
i++) {
```

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public class main {public static void main(String [ ] args) { int
matrix1[][] = {{17, 65, 37},{85, 42, 13},{-8, 71, 42}}; int
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{
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{ for (int j = 0; j < matrix1[i].length; j++) {sum[i][j] =
matrix1[i][j] + matrix2[i][j];}} for (int i = 0; i < sum.length;
i++) {for (int j = 0; j < sum.length; j++) {
System.out.print(String.format("%5s", sum[i][j]));}
```

```
public class main {public static void main(String [ ] args) { int
matrix1[][] = {{17, 65, 37},{85, 42, 13},{-8, 71, 42}}; int
matrix2[][] = {{10, 27, 43},{-9, 11, 92},{44, 55, 66}}; int
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i++) {for (int j = 0; j < sum.length; j++) {
System.out.print(String.format("%5s", sum[i][j]));}
System.out.println("");
```

```
public class main {public static void main(String [ ] args) { int
matrix1[][] = {{17, 65, 37},{85, 42, 13},{-8, 71, 42}}; int
matrix2[][] = {{10, 27, 43},{-9, 11, 92},{44, 55, 66}}; int
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```
public class main {
public static void main(String [ ] args) {
int matrix1[][] = {
{17, 65, 37},
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};
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{10, 27, 43},
{-9, 11, 92},
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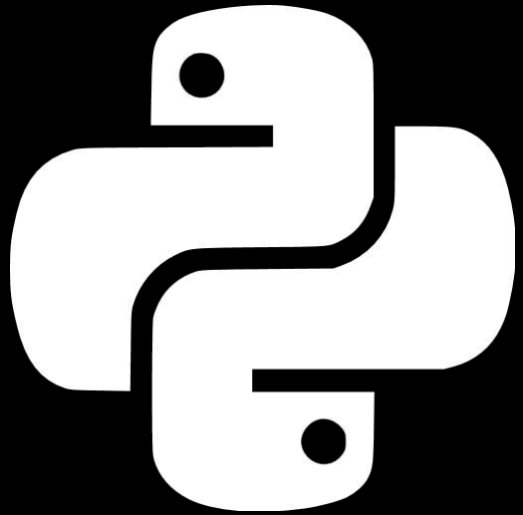
};
int sum[][] = new int[3][3];
for (int i = 0; i < matrix1.length; i++) {
for (int j = 0; j < matrix1[i].length; j++) {
sum[i][j] = matrix1[i][j] + matrix2[i][j];
}}
for (int i = 0; i < sum.length; i++) {
for (int j = 0; j < sum.length; j++) {
System.out.print(String.format("%5s", sum[i][j]));
}
System.out.println("");
}}}
```

```java
public class main {
   public static void main(String [ ] args) {
       int matrix1[][] = {
           {17, 65, 37},
           {85, 42, 13},
           {-8, 71, 42},
       };
       int matrix2[][] = {
           {10, 27, 43},
           {-9, 11, 92},
           {44, 55, 66},
       };
       int sum[][] = new int[3][3];

       for (int i = 0; i < matrix1.length; i++) {
           for (int j = 0; j < matrix1[i].length; j++) {
               sum[i][j] = matrix1[i][j] + matrix2[i][j];
           }
       }

       for (int i = 0; i < sum.length; i++) {
           for (int j = 0; j < sum.length; j++) {
               System.out.print(String.format("%5s", sum[i][j]));
           }
           System.out.println("");
       }
   }
}
```

```
public class main {public static void main(String [ ] args) { int
matrix1[][] = {{17, 65, 37},{85, 42, 13},{-8, 71, 42}}; int
matrix2[][] = {{10, 27, 43},{-9, 11, 92},{44, 55, 66}}; int
sum[][] = new int[3][3]; for (int i = 0; i < matrix1.length; i++)
{ for (int j = 0; j < matrix1[i].length; j++) {sum[i][j] =
matrix1[i][j] + matrix2[i][j];}} for (int i = 0; i < sum.length;
i++) {for (int j = 0; j < sum.length; j++) {
System.out.print(String.format("%5s", sum[i][j]));}
System.out.println("");}}}
```



PEP 8

Style Guide For Python Code

A style guide is about consistency.

Consistency with this style guide is important.

Consistency within a project
is more important.

Consistency within one
module or function
is the most important.

```
for (int i = 0; i < matrix1.length; i++) {
    for (int j = 0; j < matrix1[i].length; j++) {
        sum[i][j] = matrix1[i][j] + matrix2[i][j];
    }
}
```

```
for (int row = 0; row < matrix1.length; row++) {
    for (int column = 0; column < matrix1[row].length; column++) {
        sum[row][column] = matrix1[row][column] + matrix2[row][column];
    }
}
```

Agenda

0x00 What Are Code-Styles?
0x01 Fordism
0x02
0x03


Ford
TAREE
BM 18 AP
NEW SOUTH WALES

You can have your car
in any colour you like,
as long as it's black.

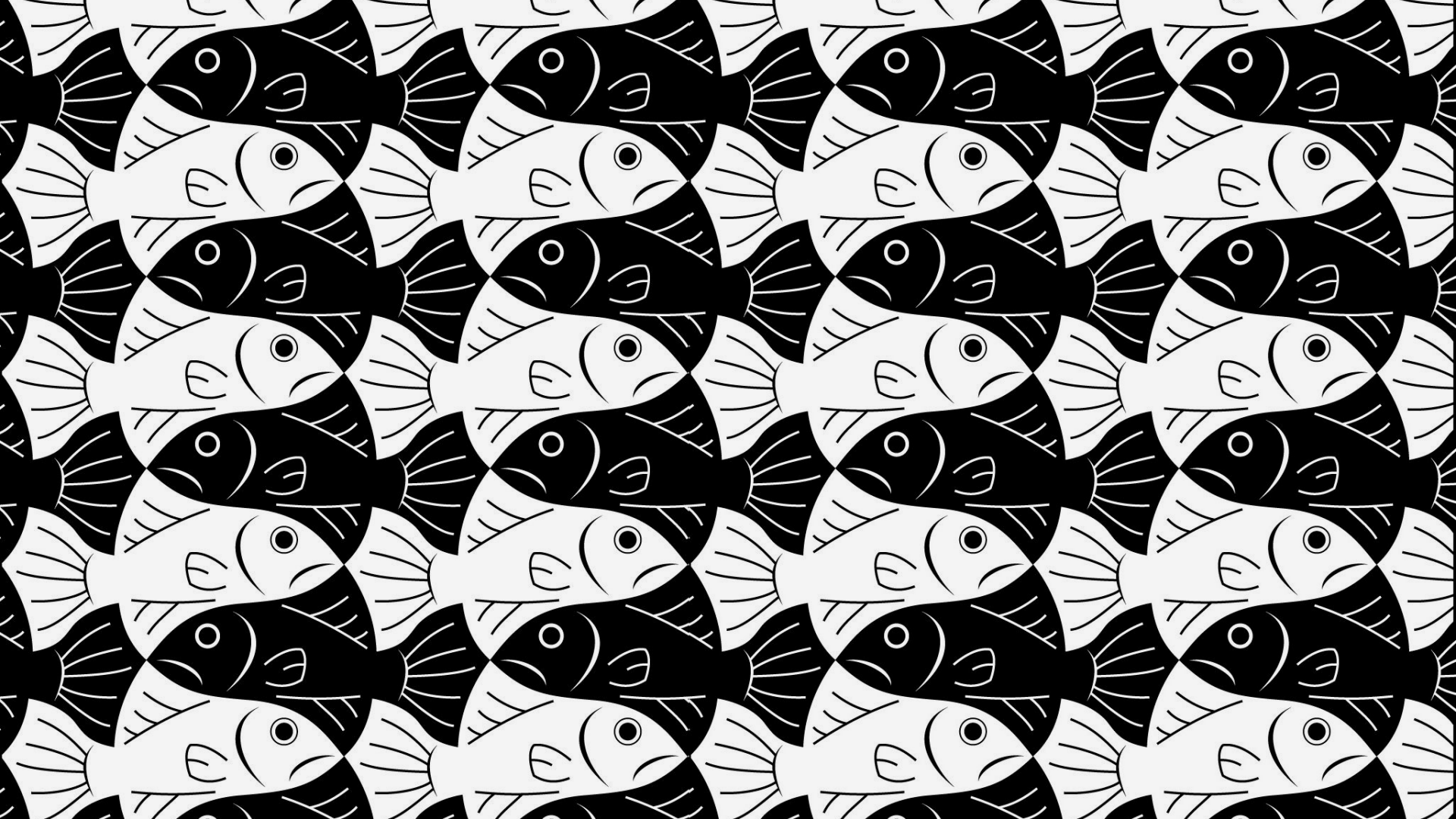
Agenda

0x00 What Are Code-Styles?
0x01 Fordism
0x02 Black
0x03


Black

No.

Opinionated.
‘Uncompromising’.



Any formatter you like,
as long as it’s Black.

Horizontal Whitespace

Vertical Whitespace

Line Length

Consistency

Horizontal Whitespace

Vertical Whitespace

Line Length

Consistency

```
def a_nice_function(
```

Before Blackening

```
def a_nice_function(param_a: str,
```

Before Blackening

```
def a_nice_function(param_a: str, param_b: dict,
```

Before Blackening

```
def a_nice_function(param_a: str, param_b: dict, path: os.PathLike,
```

Before Blackening

```
def a_nice_function(param_a: str, param_b: dict, path: os.PathLike,
verbose: bool = False):
```

Before Blackening

```
def a_nice_function(param_a: str, param_b: dict, path: os.PathLike,
verbose: bool = False):
    pass
```

Before Blackening

```
def a_nice_function(
    param_a: str,
    param_b: dict,
    path: os.PathLike,
    verbose: bool = False,
):
    pass
```

After Blackening

```python
if (
    this_long_variable_is_true
    and this_other_variable == 10
    or this_other_variable > 100
    and this_function_call() < 100
):
    pass
```

After Blackening

Horizontal Whitespace

Vertical Whitespace

Line Length

Consistency

$$79 < \mathbf{??} < 120$$

$$79 < \mathbf{80} < 120$$

$$79 < 88 < 120$$

Horizontal Whitespace

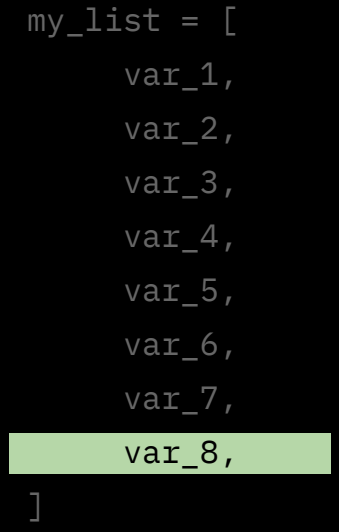
Vertical Whitespace

Line Length

Consistency

```
my_list = [
    var_1,
    var_2,
    var_3,
    var_4,
    var_5,
    var_6,
    var_7,
]
```

After Blackening



After Blackening

Before Blackening

```
my_var = f"Hello world! I am {user}"
```

After Blackening

```
my_var = f"Hello world! I'm {user}"
```

After Blackening

Horizontal Whitespace

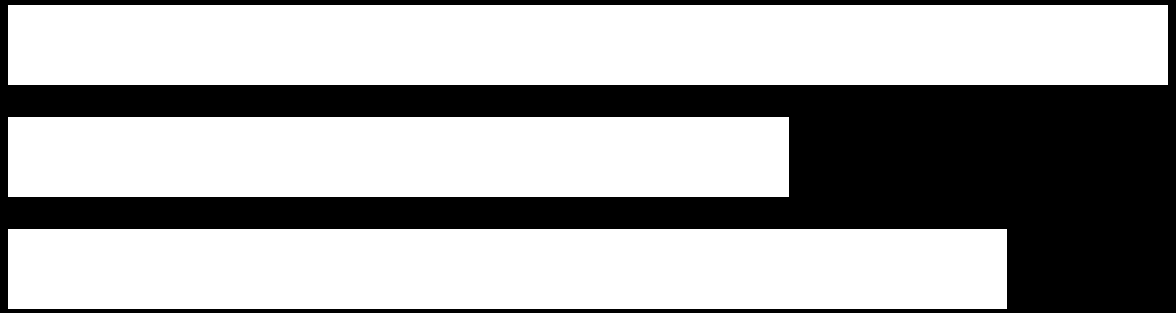
Vertical Whitespace

Line Length

Consistency

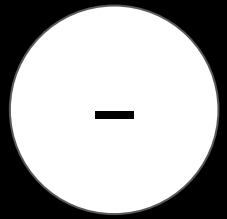
Agenda

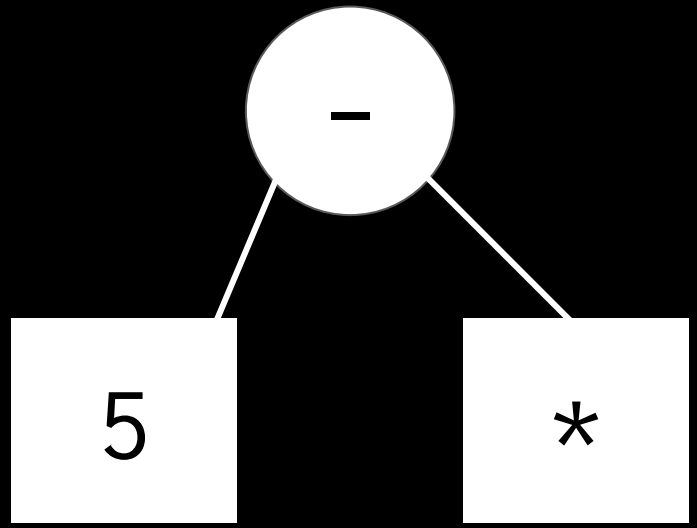
0x00 What Are Code-Styles?
0x01 Fordism
0x02 Black
0x03 Carbonize Your Code

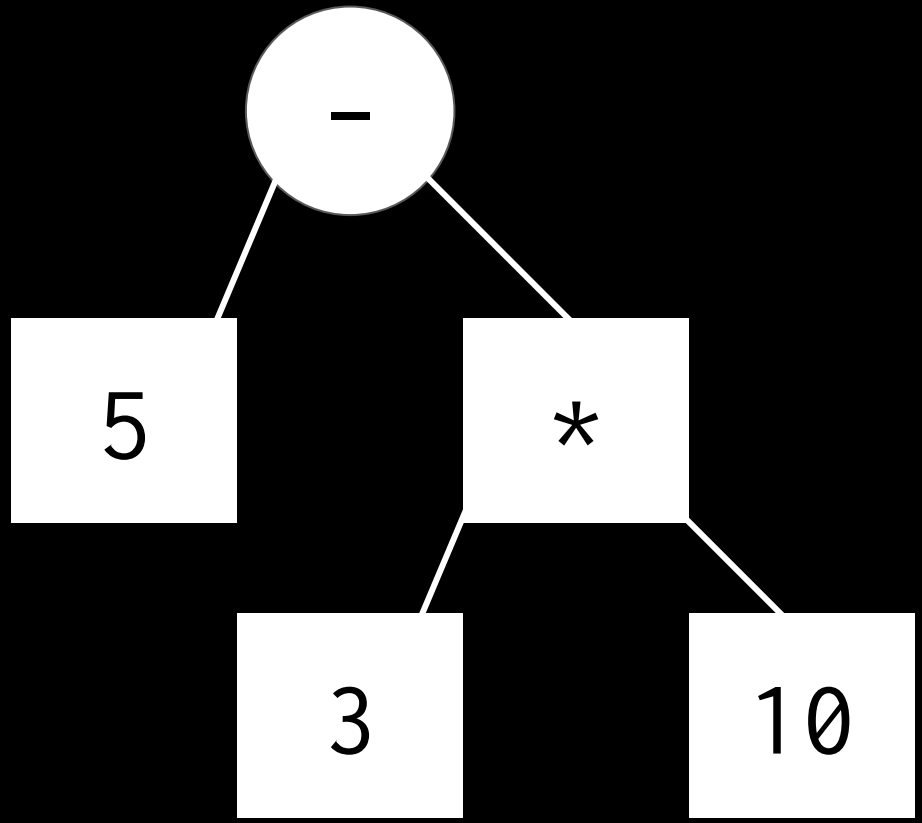


‘ ’
…
VS.
“ ”
…

```
5 - (3 * 10)
```

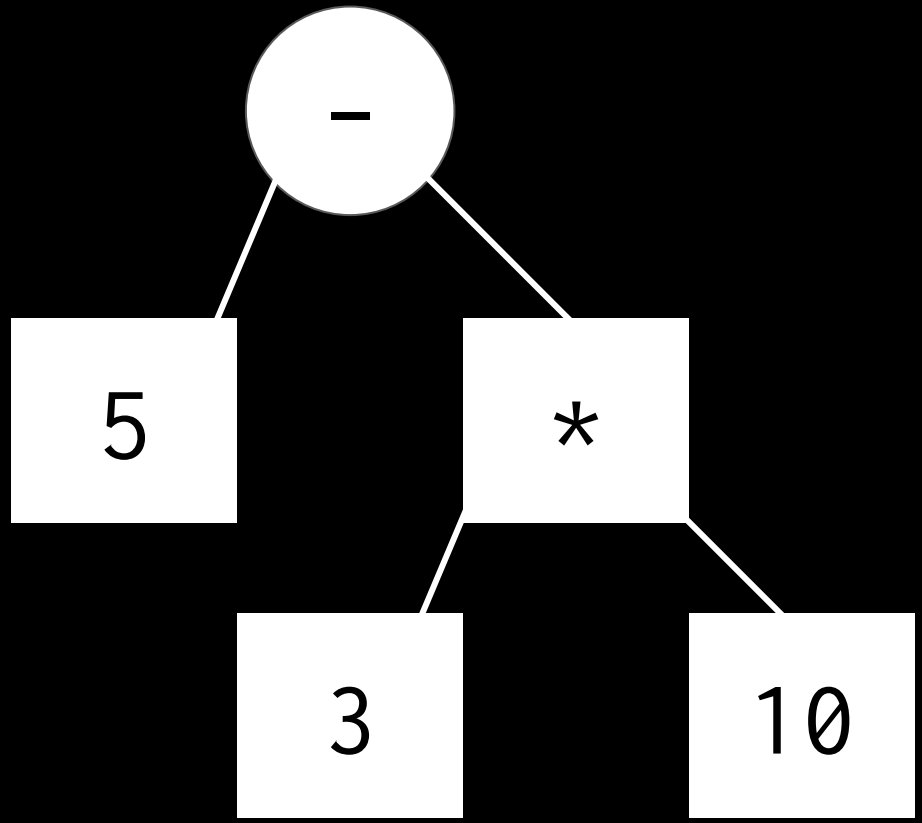



-
5
*


-
5
*
3
10

```
(- 5 (* 3 10))
```

```
5 - (3 * 10)
```


-
5
*
3
10

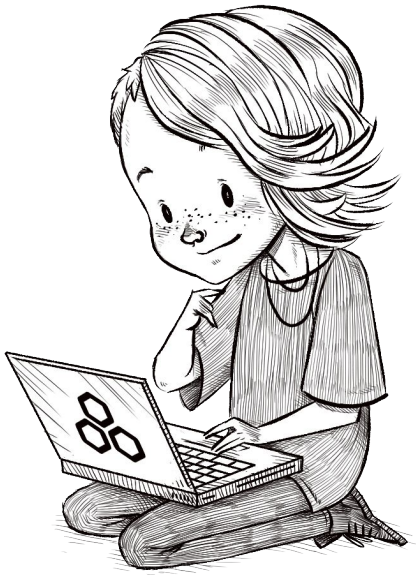
```
pip install black
```

```
black my_file.py
black my_files/

black --check my_file.py

black --diff my_file.py

blackd
```

https://github.com/python/black

“I've used Black extensively on several projects, and much like f-strings, the last Pink Floyd album, and broccoli, have found

I really like something I didn't think I would.”



Twitter @autophagian
Github autophagy
Email mail@autophagy.io