

DR. ALVIN'S PUBLICATIONS

HOW TO USE CODE BEAUTIFIERS / FORMATTERS LIKE BLACK AND CODE BEAUTIFY

IN PYTHON BY DR. ALVIN ANG



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How to use Code Beautifiers / Formatters like Black and Code Beautify

in Python by Dr. Alvin Ang



Dr. Alvin Ang

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black.vercel.app :

Black Playground

Playground for Black, the uncompromising Python code formatter.

black.vercel.app

[Python Formatter and Beautifier : https://codebeautify.org/python-formatter-beautifier#](https://codebeautify.org/python-formatter-beautifier#)

Original Code:

```
[2] 1 import pandas as pd
2
3 stock_list = ['DBS', 'Haw Par', 'Jardine C&C', 'OCBC', 'SGX', 'Singtel', 'ST Engineering', \
4              'Thai Beverage', 'UOB', 'Venture', 'Wilmar', 'YZJ Shipbldg']
5 stock_qty = [300, 100, 200, 800, 300, 3000, 1000, 1000, 300, 100, 1000, 1000]
6 avg_price = [31.23, 11.50, 20.95, 11.39, 9.07, 2.38, 3.78, 0.66, 26.61, 18.68, 4.15, 1.30]
7 mkt_cap = [82.54, 2.52, 8.39, 51.24, 10.11, 40.29, 11.80, 16.70, 45.14, 5.49, 26.76, 5.20]
8
9 my_portfolio = {
10     "quantity_owned": stock_qty,
11     "average_buy_price": avg_price,
12     'market_cap': mkt_cap
13 }
14 df = pd.DataFrame(my_portfolio, columns=["average_buy_price", "quantity_owned", "market_cap"], index=stock_list)
```

```
import pandas as pd

stock_list = ['DBS', 'Haw Par', 'Jardine C&C', 'OCBC', 'SGX', 'Singtel', 'ST Engineer
stock_qty = [300, 100, 200, 800, 300, 3000, 1000, 1000, 300, 100, 1000, 1000]
avg_price = [31.23, 11.50, 20.95, 11.39, 9.07, 2.38, 3.78, 0.66, 26.61, 18.68, 4.15, 1.30]
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my_portfolio = {
    'quantity_owned': stock_qty,
    'average_buy_price': avg_price,
    'market_cap': mkt_cap
}

df = pd.DataFrame(my_portfolio, columns=['average_buy_price', 'quantity_owned', 'ma
df
```

After Using Black:

Black v23.3.0 - The uncompromising Python code formatter. Playground built by José Padilla

```
1 stock_list = ['DBS', 'Haw Par', 'Jardine C&C', 'OCBC', 'SGX', 'Singtel', 'ST Engineering', 'Thai B
2 stock_qty = [300, 100, 200, 800, 300, 3000, 1000, 1000, 300, 100, 1000, 1000]
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5
6 my_portfolio = {
7     'quantity_owned': stock_qty,
8     'average_buy_price': avg_price,
9     'market_cap': mkt_cap
10 }
11
12 df = pd.DataFrame(my_portfolio, columns=['average_buy_price', 'quantity_owned', 'market_cap'], i
13 ]
```

BEFORE **AFTER**

```
1 stock_list = [
2     "DBS",
3     "Haw Par",
4     "Jardine C&C",
5     "OCBC",
6     "SGX",
7     "Singtel",
8     "ST Engineering",
9     "Thai Beverage",
10    "UOB",
11    "Venture",
12    "Wilmar",
13    "YZJ Shipbldg",
14 ]
15 stock_qty = [300, 100, 200, 800, 300, 3000, 1000, 1000, 300, 100, 1000, 1000]
16 avg_price = [
17     31.23,
18     11.50,
19     20.95,
20     11.39,
21     9.07,
22     2.38,
23     3.78,
24     0.66,
25     26.61,
26     18.68,
27     4.15,
28     1.30,
29 ]
30 mkt_cap = [
31     82.54,
```

black.vercel.app

```
stock_list = [
    "DBS",
    "Haw Par",
    "Jardine C&C",
    "OCBC",
    "SGX",
    "Singtel",
    "ST Engineering",
    "Thai Beverage",
    "UOB",
    "Venture",
    "Wilmar",
    "YZJ Shipbldg",
]
stock_qty = [300, 100, 200, 800, 300, 3000, 1000, 1000, 300, 100, 1000, 1000]
avg_price = [
    31.23,
    11.50,
```

```

20.95,
11.39,
9.07,
2.38,
3.78,
0.66,
26.61,
18.68,
4.15,
1.30,
]
mkt_cap = [
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2.52,
8.39,
51.24,
10.11,
40.29,
11.80,
16.70,
45.14,
5.49,
26.76,
5.20,
]

my_portfolio = {
    "quantity_owned": stock_qty,
    "average_buy_price": avg_price,
    "market_cap": mkt_cap,
}

df = pd.DataFrame(
    my_portfolio,
    columns=["average_buy_price", "quantity_owned", "market_cap"],
    index=stock_list,
)
df

```

After Using Code Beautifier:

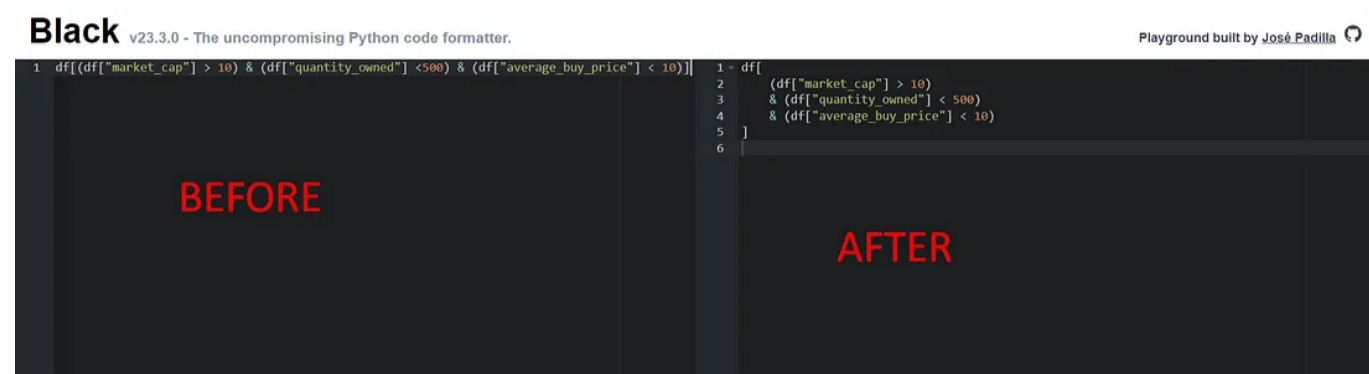
The screenshot shows the Code Beautify website interface. At the top, there are navigation links for JSON Formatter, XML Formatter, Calculators, JSON Beautifier, Recent Links, Sitemap, and Fav, along with a Login button. The main heading is 'Python Formatter', with options to 'Add to Fav', 'New', and 'Save & Share'. Below the heading is an advertisement for OANDA. The main content area is split into two panels: 'BEFORE' and 'AFTER'. The 'BEFORE' panel shows the original Python code with no indentation and inconsistent spacing. The 'AFTER' panel shows the same code after being formatted, with proper indentation and consistent spacing. A 'Format' button is visible between the two panels. At the bottom, there is a URL: <https://codebeautify.org/python-formatter-beautifier#>

Original Code:

```
df[(df["market_cap"] > 10) & (df["quantity_owned"] < 500) & (df["average_buy_price"] < 10)]
```

```
df[(df["market_cap"] > 10) & (df["quantity_owned"] < 500) & (df["average_buy_pric
```

After using Black:



```
df[
    (df['market_cap'] > 10)
    & (df['quantity_owned'] < 500)
    & (df['average_buy_price'] < 10)
]
```

About Dr. Alvin Ang



www.AlvinAng.sg

Dr. Alvin Ang earned his Ph.D., Masters and Bachelor degrees from NTU, Singapore. Previously he was a Principal Consultant (Data Science) as well as an Assistant Professor. He was also 8 years SUSS adjunct lecturer. His focus and interest is in the area of real world data science. Though an operational researcher by study, his passion for practical applications outweigh his academic background He is a scientist, entrepreneur, as well as a personal/business advisor.