PYTHON SNIPPETS

Python's format Function



Hey there, and welcome to another short Python snippet post! This time we're taking a look at the format function.

I know what a lot of you are thinking: "Phil, format isn't a function. It's a method! If you're going to teach us stuff, at least use the right terminology..."

Well I'm here to tell you that there's a format method **and** a format function, and they do very different things!

Unsurprisingly, the format function is actually very closely related to our previous formatting posts, so you might want to familiarise yourself those before reading any further. You can find a couple of links below:

https://blog.tecladocode.com/python-snippet-20-formatting-numbers-for-printing/

https://blog.tecladocode.com/python-formatting-integers-in-different-bases/

In these posts we talk about using Python's Format Specification Mini

Language to format strings in various ways using some pretty arcane syntax. The format function is a way make use of this formatting syntax without using string interpolation. For example, you might use the format function in conjunction with string concatenation, or when printing a single value.

So what does the syntax look like?

```
format(12, "02x") # 0c
```

We can see that format takes two arguments in this case. The first is a value to format, and this is actually the only required argument.

We'll talk about this more in a little bit.

The second argument is a format specification, and for this we must pass in a string representing the formatting options we want to apply. When performing this kind of formatting as part of string interpolation, these options would come after a colon, but are otherwise unchanged:

```
f"{12:02x}" # 0c
"{:02x}".format(12)
```

So, what exactly did this do? Well, if you've been following along with our formatting series, you probably recognise this code from our RGB to hexadecimal number converter. The 02x tells Python we want the number represented as a 2 digit hexadecimal number, where any missing digits are padded with zeroes.

You can find an exhaustive list of formatting options in the Python documentation I linked earlier. There's far too much to cover in one

little post!

Earlier I mentioned that format only has one required argument, so what happens when we don't provide a format specification as the second argument?

It's actually identical to passing the value to str(). You just get a plain string representation back for whatever value you passed in.

```
example_tuple = 1, 2, 3
print(format(example_tuple)) # (1, 2, 3)
```

Wrapping up

That's it for the format function. I hope you learnt something new, and I'd recommend you take another look at Python's built in functions. There are a whole bunch of neat functions available that we almost never use.

If you're just starting out on your Python journey and you're a bit lost, check out out Complete Python Course. You should also sign up to our mailing list below, as we'll be sending coupons each month to give you the best deals on our Python courses!



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