Dead Simple Python

Idiomatic Python for the Impatient Programmer

by Jason C. McDonald

Errata updated to print 2

Page	Error	Correction	Print corrected
5	Nuitka can be used to transpile Python code C and C++	Nuitka can be used to transpile Python code to C and C++	Print 2
15	On Fedora, RHEL, or CentOS, you can run this:	On Fedora, RHEL, or CentOS, you can run this:	Print 2
	sudo dnf python3 python3-pip	sudo dnf install python3 python3-pip	
30	If I ran the linter again, I'd only see the other two linter errors:	If I ran the linter again, I'd only see the other three linter errors:	Print 2
47		On Fedora, RHEL, or CentOS, you can run this:	Print 2
	foo %= 51 # value is now 42.0 (144.0 % 15)	foo %= 51 # value is now 42.0 (144.0 % 51)	
52	The assignment expression is enclosed in parentheses for readability, although I technically could have omitted them.	The parentheses in the assignment expression is important, as it controls what part of the expression is stored as the value of eggs. If I omitted the parentheses, the value True would be stored instead of an integer.	Print 2
57	First, if you want to wrap an expression in literal curly braces, you must use two curly braces ({{ }}) for every one you want displayed:	First, if you want to wrap an expression in literal curly braces, you must use two curly braces ({{ }}) for every one you want displayed, plus an additional pair to enable substitution.	Print 2
	<pre>answer = 42 print(f"{{answer}}") # prints "{42}" print(f"{{{{answer}}}") # prints "{{42}}" print(f"{{{{answer}}}") # prints "{{42}}"</pre>	<pre>answer = 42 print(f"{{{answer}}}") # prints "{42}" print(f"{{{{answer}}}") # prints "{{42}}" print(f"{{{{{answer}}}}") # prints "{{42}}"</pre>	
114	Hot: ["Lettuce", "Tomato", "Cheese" , "Beef", "Salsa"] Mild: ["Lettuce", "Tomato", "Cheese" , "Beef"] Default: ["Lettuce", "Tomato", "Cheese", "Beef "]	Hot: ["Lettuce", "Tomato", "Beef", "Salsa"] Mild: ["Lettuce", "Tomato", "Beef"] Default: ["Lettuce", "Tomato", "Beef"]	Print 2
149	In this chapter, I'll cover the essentials of object-oriented programming in Python: creating classes with attributes, modules , and properties.	In this chapter, I'll cover the essentials of object-oriented programming in Python: creating classes with attributes, methods , and properties.	Pending

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162	In this case, I assume this is some sort of string, which I run through the static method _encode() I defined earlier and then store in the list selfsecrets.	In this case, I assume this is some sort of string, which I run through the class method encrypt() I defined earlier and then store in the list selfsecrets.	Print 2
162	You actually don't need to define a deleter if you have no need for special behavior when the decorator is deleted. Consider what you want to happen if del is called on your decorator , such as when you are deleting an associated attribute that the property controls; if you can't think of anything, skip writing the deleter.	You actually don't need to define a deleter if you have no need for special behavior when the property is deleted. Consider what you want to happen if del is called on your property , such as when you are deleting an associated attribute that the property controls; if you can't think of anything, skip writing the deleter.	Print 2
184	If case <i>exceptions</i>	In case exceptions	Print 2
224	Insertion	Counter is designed specifically for counting hashable objects; the object is the key, and the count is an integer value. Other languages call this type of collection a <i>multiset</i> . Multisets are not the same as counters, but are sometimes used in place of them, as a side effect of how multisets work.	Print 2
318	Figure update	Drive Root C: Windows System python37.dll Anchor Parent Figure 11-1: Parts of a Windows absolute path	Print 2
326	<pre>path.touch() Creates an empty file at path. Normally, nothing happens if it already exists. If the optional exist_ok= argument is False and the file exists, a FileExistsError is raised.</pre>	<pre>path.touch() Creates an empty file at path. If one already exists, it updates the access timestamp on file, but does nothing else. If the optional exist_ok= argument is False and the file exists, a FileExistsError is raised.</pre>	Print 2
358	left = int.from_bytes(left, <mark>byteorder=byteorder</mark>) right = int.from_bytes(right, <mark>byteorder=byteorder</mark>)	<pre>left = int.from_bytes(left, byteorder, signed=False) right = int.from_bytes(right, byteorder, signed=False)</pre>	Print 2
359	<pre>result = left & right return result.to_bytes(size, byteorder, signed=True) Listing 12-38: bitwise_via_int.py:3</pre>	<pre>result = left & right return result.to_bytes(size, byteorder, signed=False) Listing 12-38: bitwise_via_int.py:3</pre>	Print 2
	I bind the result of the bitwise operation to result. Finally, I convert result back to a bytes object, using the size I determined earlier, the byteorder passed to my function, and signed=True to handle conversion of any possible negative integer values. I return the resulting bytes-like object.	I bind the result of the bitwise operation to result. Finally, I convert result back to a bytes object, using the size I determined earlier, and the byteorder passed to my function. I can safely assume signed=False, as left and right can only ever be positive integers.	

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450	<pre>from functools import singledispatchmethod from typing import overload class Element: #snip</pre>	<pre>from functools import singledispatchmethod class Element: #snip</pre>	Print 2
450– 451	In this case, I'll create two more versions of the function: one that works with a string argument and another that works with either an integer or a floating-point number argument:	In this case, I'll create three more versions of the function: one that works with a string argument, another that works with a floating-point number , and a third with an integer:	Print 2
	<pre>@eqregister def _(self, other: str): return self.symbol == other</pre>	<pre>@eqregister def _(self, other: str): return self.symbol == other</pre>	
	<pre>@overload def _(self, other: float): </pre>	<pre>@eqregister def _(self, other: float): return self.number == other</pre>	
	<pre>@eqregister def _(self, other: int): return self.number == other</pre>	<pre>@eqregister def _(self, other: int): return self.number == other</pre>	
	The first of these methods accepts a string argument. The first parameter, the one being switched on, is annotated with a type hint for the expected type, which is a string (str) in this first case. The second method here accepts either an integer or a float, and it is made possible with the @typing.overload decorator. When type hinting, you can mark one or more function headings with @overload, to indicate that they overload an upcoming function or method with the same name. The <i>Ellipsis</i> () is used in place of the suite of the overloaded method, so it can instead share the suite of the method below it.	The first of these methods accepts a string argument. The first parameter, the one being switched on, is annotated with a type hint for the expected type, which is a string (str) in this first case. The second method here accepts a float, and the third an int. When type hinting, you can ordinarily mark one or more function headings with a special @typing.overload, to indicate that they overload an upcoming function or method with the same name. The <i>Ellipsis</i> () is used in place of the suite of the	
	The function or method not decorated with @overload must come immediately after all the overloaded versions thereof.	overloaded method, so it can instead share the suite of the method below it. The function or method not decorated with @overload must come immediately after all the overloaded versions thereof. I first thought to use this here, since the second and third functions had the same body. Unfortunately, @overload does not work with other decorators, so I could not use this technique here.	

Page	Error	Correction	Print corrected
453	<pre>defstr(self): s = "" formula = self.components.copy() # Hill system if 'C' in formula.keys(): s += f"C{formula['C']}" del formula['C'] if 1 in formula.keys(): s += f"H{formula['H']}" del formula['H']</pre>	<pre>defstr(self): s = "" formula = self.components.copy() # Hill system if 'C' in formula.keys(): s += f"C{formula['C']}" del formula['C'] if 'H' in formula.keys(): s += f"H{formula['H']}" del formula['H']</pre>	Print 2
627	It can also be used on a number of Raspberry Pi and Ardunio microcontrollers, as well as hardware from many other brands.	It can also be used on a number of Raspberry Pi and Arduino microcontrollers, as well as hardware from many other brands.	Print 2