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Cheatsheet: Python Coding Practices and Packaging Concepts



Estimated time needed: 5 minutes

Package/Method	-	Code Example	
	To create a package, the folder structure is as follows:	module1.py	
Packaging	 Project folder → Package name → init.py, module_1.py, module_2.py, and so on. 	<pre>def function_1(arg):</pre>	
		return <operation output=""></operation>	
	2. In the init.py file, add code to reference the modules in the package.	init.py:	
		from . import function_1	
Python Style Guide	• Four spaces for indentation	<pre>def function_1(a, b):</pre>	
	 Use blank lines to separate functions and classes 	if a > b:	
	Use spaces around operators and after commas	c = c + 5	
		else:	
	 Add larger blocks of code inside functions 	c = c - 3	
	 Name functions and files using lowercase with underscores 	return c	
	Name classes using CamelCase	c = function_1(a, b)	
	 Name constants in capital letters with underscores separating words 	Constant Definition example	
		MAX_FILE_UPLOAD_SIZE	
Static Code Analysis	Use Static code analysis method to evaluate your code against a		
	predefined style and standard without executing the code.	Shell code:	
	For example, use Pylint to perform static code analysis.	pylint code.py	
Unit Testing	Unit testing is a method to validate if units of code are operating as designed.	import unittest	

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Package/Method	Description	Code Example	
	tested. The unit is tested in a continuous integration/continuous delivery test server environment.	<pre>from mypackage.mymodule import my_function</pre>	
		<pre>class TestMyFunction(unittest.TestCase):</pre>	
	You can use different test functions to build unit tests and review the unit test output to determine if the test passed or failed.	<pre>def test_my_function(self):</pre>	
		result = my_function(<args>)</args>	
		<pre>self.asserEqual(result, <response>)</response></pre>	
		unittest.main()	

Author(s)

Abhishek Gagneja

Other Contributor(s)

Andrew Pfeiffer, Sina Nazeri

Changelog

Date	Version	Changed by	Change Description
2023-07-06	0.1	Abhishek Gagneja	Initial version created
2023-07-10	0.2	Andrew Pfeiffer	Documented in AWB

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