

Cheatsheet: Python Coding Practices and Packaging Concepts



Estimated time needed: 5 minutes

Package/Method	Description	Code Example
Packaging	To create a package, the folder structure is as follows:	module1.py
	1. Project folder → Package name → init.py , module_1.py , module_2.py , and so on.	<pre>def function_1(arg): return <operation output></pre>
Python Style Guide	2. In the init.py file, add code to reference the modules in the package.	init.py:
	<ul style="list-style-type: none"> • Four spaces for indentation • Use blank lines to separate functions and classes • Use spaces around operators and after commas • Add larger blocks of code inside functions • Name functions and files using lowercase with underscores • Name classes using CamelCase • Name constants in capital letters with underscores separating words 	<pre>from . import function_1 def function_1(a, b): if a > b: c = c + 5 else: c = c - 3 return c ... c = function_1(a, b)</pre>
Static Code Analysis	Use Static code analysis method to evaluate your code against a predefined style and standard without executing the code.	Constant Definition example
	For example, use Pylint to perform static code analysis.	<pre>MAX_FILE_UPLOAD_SIZE</pre>
Unit Testing	Unit testing is a method to validate if units of code are operating as	Shell code: <pre>pylint code.py</pre> <pre>import unittest</pre>

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

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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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