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## **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:  1. Project folder → Package name → init.py, module_1.py, module_2.py, and so on.  2. In the init.py file, add code to reference the modules in the package.	<pre>module1.py def function_1(arg):     return <operation output=""> init.py: from . import function_1</operation></pre>
Python Style Guide	<ul> <li>Four spaces for indentation</li> <li>Use blank lines to separate functions and classes</li> <li>Use spaces around operators and after commas</li> <li>Add larger blocks of code inside functions</li> <li>Name functions and files using lowercase with underscores</li> <li>Name classes using CamelCase</li> <li>Name constants in capital letters with underscores separating words</li> </ul>	<pre>def function_1(a, b):     if a &gt; b:         c = c + 5     else:         c = c - 3     return c c = function_1(a, b)  Constant Definition example  MAX_FILE_UPLOAD_SIZE</pre>
Static Code Analysis	Use Static code analysis method to evaluate your code against a predefined style and	Shell code:  pylint code.py

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Package/Method	Description	Code Example
	standard without executing the code.	
	For example, use Pylint to perform static code analysis.	
	Unit testing is a method to	import unittest
	validate if units of code are operating as designed.	<pre>from mypackage.mymodule import my_function</pre>
	During code development, each unit is tested. The unit is tested in a continuous	<pre>class TestMyFunction(unittest.TestCase):</pre>
<b>Unit Testing</b>	integration/continuous delivery	<pre>def test_my_function(self):</pre>
	test server environment.	result =
	You can use different test functions to build unit tests	<pre>my_function(<args>)</args></pre>
	and review the unit test output	self.asserEqual(result,
	to determine if the test passed or failed.	<response>)</response>
		unittest.main()

## Author(s)

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