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Cheatsheet: Python Coding Practices and Packaging Concepts



Estimated time needed: 5 minutes

Package/Method	Description	Code Example
		module1.py
Packaging	To create a package, the folder structure is as follows:	<pre>def function_1(arg):</pre>
	1. Project folder → Package name → init.py, module_1.py, module_2.py, and so on.	return <operation output=""></operation>
	2. In the init.py file, add code to reference the modules in the package.	init.py:
		<pre>from . import function_1 def function_1(a, b):</pre>
	Four spaces for indentation	if a > b:
Python Style Guide	Use blank lines to separate functions and classes	c = c + 5
	Use spaces around operators and after commas	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	
	Name constants in capital letters with underscores separating words	c = function_1(a, b)
		Constant Definition example
Static Code Analysis	Use Static code analysis method to evaluate your code against a predefined style and standard without executing the code.	MAX_FILE_UPLOAD_SIZE Shell code:
	For example, use Pylint to perform static code analysis.	<pre>pylint code.py import unittest</pre>
		from mypackage.mymodule import my_function
Unit Testing	Unit testing is a method to validate if units of code are operating as designed.	<pre>class TestMyFunction(unittest.TestCase):</pre>
	During code development, each unit is tested. The unit is tested in a continuous integration/continuous delivery test server environment.	<pre>def test_my_function(self):</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.	result = my_function(<args>)</args>
		<pre>self.asserEqual(result, <response>)</response></pre>
		unittest.main()

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Changelog

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