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Cheatsheet: Python Coding Practices and Packaging Concepts



Estimated time needed: 5 minutes

Package/Method	Description	Code Example
	To create a package, the folder structure is as follows:	module1.py
Packaging	1. 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:
		<pre>from . import function_1</pre>
	 Four spaces for indentation 	<pre>def function_1(a, b):</pre>
	 Use blank lines to separate functions and classes 	if a > b:
Python Style Guide		c = c + 5
	 Use spaces around operators and after commas 	else:
	Add larger blocks of code inside	c = c - 3
	functions	return c
	 Name functions and files using lowercase with underscores 	
	• Name classes using CamelCase	c = function_1(a, b)
	• Name constants in capital letters with	Constant Definition example
	underscores separating words	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	import unittest
	of code are operating as designed. During code development, each unit is	<pre>from mypackage.mymodule import my_function</pre>
	tested. The unit is tested in a continuous integration/continuous delivery test server environment.	<pre>class TestMyFunction(unittest.TestCase):</pre>
		<pre>def test_my_function(self):</pre>

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Package/Method

Description

You can use different test functions to build unit tests and review the unit test output to determine if the test passed or failed.

Code Example

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