26/10/2023, 13:41 about:blank

Cheatsheet: Python Coding Practices and Packaging Concepts



Estimated time needed: 5 minutes

Package/Method	-	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.	module1.py	
		<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.	<pre>from . import function_1</pre>	
Python Style Guide	• Four spaces for indentation		
	 Use blank lines to separate functions and classes 	<pre>def function_1(a, b):</pre>	
	 Use spaces around operators and after commas 	if $a > b$: $c = c + 5$	
	 Add larger blocks of code inside functions 	else: $c = c - 3$	
	 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 Unit Testing	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 is a method to validate if units of code are operating as designed.	import unittest	

about:blank 1/2

26/10/2023, 13:41 about:blank

Package/Method

Description

Code Example

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

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

© IBM Corporation 2023. All rights reserved.

about:blank 2/2