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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:

Packaging

1. Project folder module1.py

 \rightarrow Package

 $name \rightarrow init.py$, def function_1(arg):

module_1.py,

module 2.py, return <operation output>

and so on.

init.py:

2. In the **init.py** file, add code to reference the modules in the

from . import function_1

package.

Python Style Guide

• Four spaces for def function_1(a, b): indentation

if a > b:

• Use blank lines to separate functions and

c = c + 5

classes else:

• Use spaces around operators

c = c - 3

and after commas

return c

. . .

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Package/Method

Description

Code Example

• Add larger blocks of code inside functions

c = function_1(a, b)

Constant Definition example

 Name functions and files using lowercase with underscores MAX_FILE_UPLOAD_SIZE

- Name classes using CamelCase
- Name constants in capital letters with underscores separating words

Use Static code analysis method to evaluate your code against a predefined style and standard without executing the code.

Shell code:

pylint code.py

Unit Testing

Static Code

Analysis

Pylint to perform static code analysis.
Unit testing is a

For example, use

Unit testing is a import unittest method to validate if

units of code are from mypackage.mymodule import

operating as designed. my_function

During code class

development, each TestMyFunction(unittest.TestCase):

unit is tested. The unit

is tested in a def test_my_function(self):

continuous

delivery test server environment.

self.asserEqual(result,

<response>)

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Package/Method Description

Code Example

You can use different unittest.main() 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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