

Python modules





Python Modules

Python modules are files containing Python definitions and statements. They are used to group related code, making it easier to understand and maintain. Modules can be imported into other modules or scripts, allowing you to reuse code across your project.

Create a simple Python module

Let's create a simple `calc.py` in which we define two functions, one add and another subtract.

Importing Modules

To use a module in your Python code, you must first import it. There are several ways to import modules, including using the `import` statement, the `from...import` statement, and the `importlib` module. Once a module is imported, you can use its functions and variables in your code.

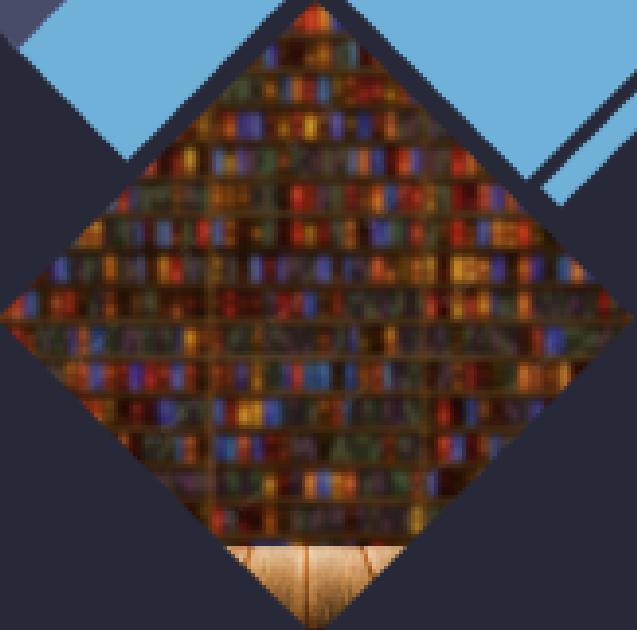
Syntax of Python Import

`import module`



Standard Library Modules

Python comes with a large standard library of modules that you can use in your code. These modules include functionality for working with strings, lists, files, and more. Some popular standard library modules include `os`, `datetime`, and `random`.



The background features a repeating pattern of gold and blue decorative elements. It includes large, stylized floral or vine-like motifs in gold against a dark navy blue background. There are also smaller, more intricate gold designs and blue geometric shapes like diamonds and rectangles.

Third-Party Modules

In addition to the standard library, there are thousands of third-party modules available for Python. These modules can be installed using a package manager like pip. Some popular third-party modules include numpy, pandas, and matplotlib.



Creating Your Own Modules

You can also create your own Python modules to organize and reuse code across your project. To create a module, simply create a new file with a .py extension and define your functions and variables inside. You can then import your module into other modules or scripts.

Conclusion

Python modules are a powerful tool for organizing and reusing code in your projects. Whether you are using standard library modules, third-party modules, or creating your own, modules can help you write cleaner, more maintainable code.

Thanks

Do you have any
questions?

