

PYTHON IMPORT

1. Basic Import

- **Syntax:**
`import module_name`
 - **Example:**
`import math`
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2. Import Specific Functions/Variables

- **Syntax:**
`from module_name import function_name`
 - **Example:**
`from math import sqrt`
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3. Renaming with Alias

- **Syntax:**
`import module_name as alias`
`from module_name import function_name as alias`
 - **Example:**
`import numpy as np`
`from time import sleep as sl`
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4. Import All (Not Recommended for Large Projects)

- **Syntax:**
`from module_name import *`
 - **Example:**
`from math import *`
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5. Import Your Own Module

- **Steps:**
 - Create a custom module (e.g., `my_module.py`).
 - **Import:**
`import my_module`
 - **Example:**
`import my_module`
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6. Importing from Non-Standard Location

- **Syntax:**
`import sys`
`sys.path.append('/path/to/directory')`
`import my_module`

- **Example:**
Adding a directory to `sys.path` and importing.
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7. Multiple Imports

- **Syntax:**
`import module1, module2`
 - **Example:**
`import math, time`
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8. Relative Imports (For Packages)

- **Syntax:**
`from . import my_module`
`from .subpackage import another_module`
 - **Example:**
`from . import my_module`
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9. Package Import

- **Syntax:**
`from package_name import module_name`
- **Example:**
`from sklearn.linear_model import LinearRegression`