

The `import` Statement in Python

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This video explains how the `import` statement works in Python.

Basic Import

When you import a package or module, all of its code becomes accessible in your main program. You can then use its functions and variables with dot notation.

Code Example: `import`

```
...  
  
import math  
  
print(math.sqrt(16)) # Output: 4.0  
print(math.pi) # Output: 3.141592653589793  
...
```

`from...import`

This statement lets you import specific functions or variables, so you can use them directly without the module name.

Code Example: `from...import`

```
...  
  
from math import sqrt, pi  
  
print(sqrt(16)) # Output: 4.0  
print(pi) # Output: 3.141592653589793  
...
```

The `as` Keyword

The ``as`` keyword creates a shorter alias for a module or function, which is useful for convenience.

Code Example: ``as``

```
'''  
import numpy as np  
  
arr = np.array([1, 2, 3])  
print(arr)  
'''
```