

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)
...
```