

# Modules: Takeaways

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## Syntax

### LOADING FUNCTIONS AND VARIABLES FROM MODULES

- To import an entire module:

```
import math
```

- To use a function after importing the entire module:

```
import math

root = math.sqrt(99)

flr = math.floor(89.9)
```

- To import an entire module using an alias:

```
import math as m

root = m.sqrt(33)
```

- To import all objects from a module:

```
from math import *

root = sqrt(1001)
```

- To import a specific function from a module:

```
from math import sqrt

from math import floor

root = sqrt(99)

flr = floor(89.9)
```

- To import a specific variable from a module:

```
import math

a = math.sqrt(math.pi)

b = math.ceil(math.pi)

c = math.floor(math.pi)
```

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## USING THE CSV MODULE

- To open a file using the **csv** module:

```
import csv  
  
f = open("nfl.csv", 'r')  
  
csvreader = csv.reader(f)  
  
nfl = list(csvreader)
```

## Concepts

- A **module** is a collection of functions and variables that have been bundled together in a single file. Modules help us:
  - Organize our code by separating related functions and objects into their own modules.
  - Gain new functionality by using code written by others.
- The **namespace** is a dictionary that contains all the names we can refer to. Whenever we load a module, we're loading all it's associated function into the namespace.

## Resources

- [Documentation on modules in Python](#)
- [Documentation on the import system in Python](#)



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