## What is the Python Standard Library?

In this section, we will explore the Python Standard Library.

#### WE'LL COVER THE FOLLOWING ^

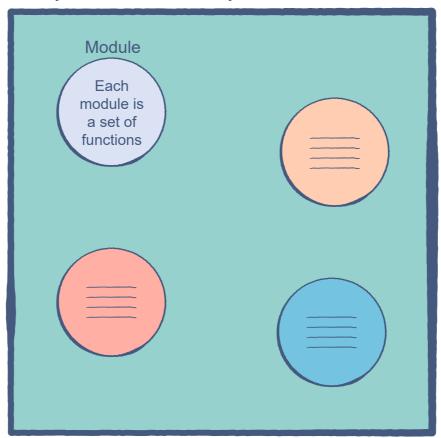
- Definition
- Importing a Module

### Definition #

The Python Standard Library, PSL, is a collection of pre-defined **modules**, or sets of **methods** which help us perform certain tasks in Python.

The library contains many useful utilities which spare us a lot of time. There are different sorts of complex mathematical functions, high-level data types, network programming tools, and this is just the tip of the iceberg!

The Python Standard Library - A collection of modules



Generally, a module contains functions related to a particular aspect of programming. This makes things easy because we know which part of our program requires which module.

In Python, we can make our own modules, but that's a story for another time. We'll be focusing on what Python offers us out-of-the-box.

# Importing a Module #

To use the methods of a module, we must import the module into our code. This can be done using the import keyword.

Let's import the datetime module which contains several methods related to the current date and time. As always, these methods can be accessed using the . operator:

```
# Importing modules at the beginning of the program is a good practice
import datetime

date_today = datetime.date.today() # Current date
print(date_today)
```

```
time_today = datetime.datetime.now()
print(time_today.strftime("%H:%M:%S")) # Current time
```

In the code above, datetime.date and datetime.datetime are classes in the datetime module. Each class contains its own methods.

If we only want a particular class from a module, we can use the **from** keyword in the following format:

```
from module import class
```

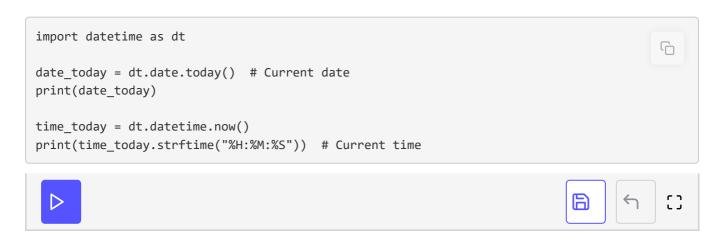
#### Let's try this out:

```
from datetime import date

# Now we only have the methods of the date class
date_today = date.today() # Current date
print(date_today)

# These won't work
# time_today = datetime.datetime.now()
# print (time_today.strftime("%H:%M:%S"))# Current time
```

We can also give our own names to the modules that we import by using the as keyword. Let's rename datetime to dt and use it in the program:



We've learned how to import and use PSL modules in our code. In the next lesson, we'll look at some popular modules.