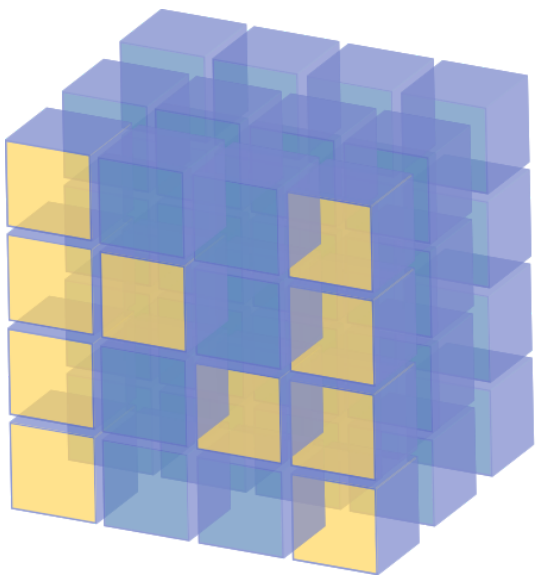


What is NumPy?

In this lesson, we introduce Python's NumPy library.

We'll cover the following ^

- NumPy
 - Features of NumPy



NumPy

NumPy

NumPy can be defined as an interactive Python package for array processing, and it is mostly used to perform scientific programming. It can also hold generic data in a container with n-dimensions.

NumPy package can be imported in our program using the following command:

```
import numpy as np
```

Due to its flexible nature, a **NumPy** object can easily be integrated and used with other data analysis tools like pandas.

Features of **NumPy**

- Faster than conventional arrays

- Takes less space than conventional arrays
 - Provides extended functionalities
 - Size and type of array is fixed; this is defined at creation
 - Cannot append new values like `lists`
-

In the next lesson, array creation using `NumPy` is explained.