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HISTORY

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How to access multiple indices of a list in Python

[Use map\(\)](#) [Use a Pandas Series](#) [Use a NumPy array](#)

Accessing multiple indices of a list returns the values of a list at multiple indices. For example, accessing indices 0 and 2 of [1, 2, 3] returns [1, 3].

USE `map()` TO ACCESS MULTIPLE INDICES OF A LIST

Call `map(list.__getitem__, indices_list)` to return a mapping of the accessed indices. `list.__getitem__` is a builtin Python function that returns the value at a given index from the list. Call `list(map)` with `map` as the mapping to convert the mapping into a list.

```
a_list = [1, 2, 3]
indices_to_access = [0, 2]

accessed_mapping = map(a_list.__getitem__, indices_to_access)
accessed_list = list(accessed_mapping)

print(accessed_list)
OUTPUT
[1, 3]
```

Further reading Magic methods in Python like `list.__getitem__` are useful in customizing and interacting with classes. You can read more about magic methods [here](#).

USE A `PANDAS Series` TO ACCESS MULTIPLE INDICES OF A LIST

Call `pd.Series(list)` to return a `pandas Series` of the accessed indices. Call `list(series)` with `series` as the series to convert the series into a list.

```
a_list = [1, 2, 3]
indices_to_access = [0, 2]

a_series = pd.Series(a_list)
accessed_series = a_series[indices_to_access]
accessed_list = list(accessed_series)

print(accessed_list)
OUTPUT
[1, 3]
```

USE `numpy.array` INDEXING TO ACCESS MULTIPLE INDICES OF A LIST

Call `np.array(list)` to return a `NumPy array` of list. Call `array[index_list]` to return a `NumPy array` of the values of array at the indices in `index_list`. Call `list(array)` with `array` as the array to convert it into a list.

```
a_list = [1, 2, 3]
indices_to_access = [0, 2]

a_numpy_array = np.array(a_list)
accessed_array = a_numpy_array[indices_to_access]
accessed_list = list(accessed_array)

print(accessed_list)
OUTPUT
[1, 3]
```

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