

Python



Guide To: Lambda Function

What ?

Small, anonymous, nameless,
single-use, functions.



Syntax ?

lambda **args:** expression

lambda - Keyword

args - input arguments

expression - code to execute



Example

```
sum = lambda a, b: a + b
```



The lambda function "sum" takes two arguments "a" and "b", and returns their sum using the expression "a + b"

Benefits ?

1. Concise and readable.
2. Can be used as arguments directly in other functions like `map()`, `filter()`, etc.
3. Increase the readability of code.
4. Improved Performance for simple tasks



Use Cases ?

1. Sorting and filtering lists.
2. Mapping operations.
3. Reducing a list to a single value.
4. Callback functions
5. Decorators.
6. List comprehensions.

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