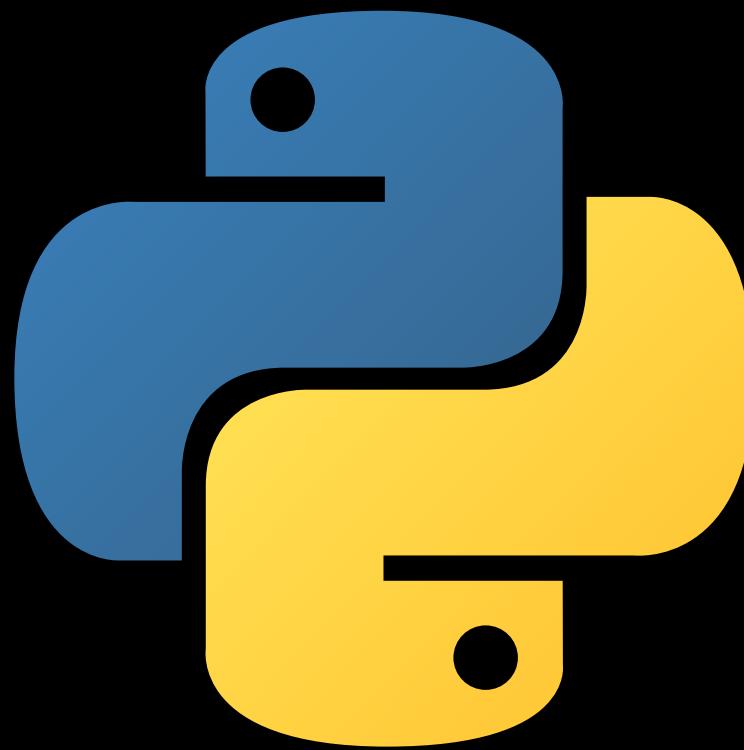


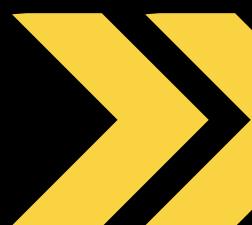
MASTERING ARGS AND KWARGS IN PYTHON

Ever wondered how to make your
Python functions more flexible and
powerful?

Dive in to unlock the secrets of args
and kwargs!



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1. UNDERSTANDING *ARGS

In Python, `*args` allows you to pass a variable number of non-keyword arguments to a function. It collects these arguments into a tuple, enabling you to iterate over them.

```
● ● ●  
def greet(*names):  
    for name in names:  
        print(f"Hello, {name}!")  
  
greet('Alice', 'Bob', 'Charlie')
```



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2. PRACTICAL USE CASE

Use `*args` when you want to create functions that can handle an arbitrary number of arguments, such as a sum function that adds any number of numbers.

```
• • •  
def greet(*names):  
    for name in names:  
        print(f"Hello, {name}!")  
  
greet('Alice', 'Bob', 'Charlie')
```



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3. DEMYSTIFYING **Kwargs

****kwargs allows you to pass a variable number of keyword arguments to a function. It collects these arguments into a dictionary, giving you flexibility in handling named arguments.**



```
def display_info(**info):
    for key, value in info.items():
        print(f'{key}: {value}')

display_info(name='Alice', age=30, job='Engineer')
```



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4. PRACTICAL USE CASE

Use `**kwargs` when you want to handle named arguments dynamically, such as configuration settings or user information.

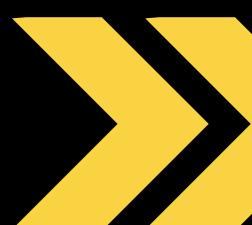


```
def display_info(**info):
    for key, value in info.items():
        print(f'{key}: {value}')

display_info(name='Alice', age=30, job='Engineer')
```



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5. COMBINING *ARGS AND **KWARGS

You can use `*args` and `**kwargs` together in a function to handle both positional and keyword arguments flexibly.

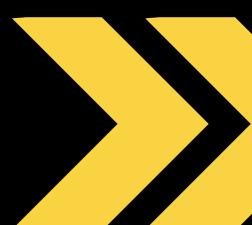


```
def process_data(*args, **kwargs):
    for arg in args:
        print(f"Arg: {arg}")
    for key, value in kwargs.items():
        print(f"{key}: {value}")

process_data(1, 2, 3, name='Alice', age=30)
```



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6. COMMON PITFALLS TO AVOID

- 1. Order Matters: Always place *args before **kwargs in function definitions.**
- 2. Mutable Defaults: Avoid using mutable default values like lists or dictionaries.**



```
def example(a, *args, **kwargs):
```

```
    pass # Correct
```

```
def example(a, **kwargs, *args):
```

```
    pass # Incorrect
```



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**What's the most
creative way
you've used args
and kwargs in your
Python projects?
Share your
thoughts and
examples in the
comments!**



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