

# 1 ZEN OF PYTHON

The Zen of Python is a set of guiding principles for writing computer programs in the Python language. It was authored by Tim Peters, a notable figure in the Python community, who contributed significantly to the development and popularization of Python. The Zen of Python encapsulates the philosophy and core values of Python, promoting simplicity, readability, and explicitness in coding. These principles help developers write more maintainable and understandable code.

## 1.1 Principle: "Errors should never pass silently"

- Meaning: This principle indicates that when an error occurs during program execution, it should not be ignored or hidden, but rather handled properly to inform the user about what happened and allow the program to continue executing in a controlled manner.

## 1.2 Example in Python:

```
def divide(a, b):  
    try:  
        result = a / b # Trying to perform the division  
        return result  
    except ZeroDivisionError as e:  
        print("Error:", e)  
        return None  
  
# Calling the divide function  
result = divide(10, 0)  
if result is not None:  
    print("The result of the division is:", result)  
else:  
    print("Cannot divide by zero.")
```