

# Docstrings and PEP 8 in Python

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This video is a tutorial on **Docstrings** and **PEP 8**, two important topics in Python programming often discussed in interviews.

### Docstrings

**Docstrings** are string literals used to describe functions, methods, classes, or modules.

Unlike comments, they are not ignored by the Python interpreter and can be accessed using the `__doc__` attribute.

### PEP 8

**PEP 8** is a set of guidelines and best practices for writing Python code. Its goal is to make code more **consistent** and **maintainable**. The video mentions that typing `import this` in a Python shell will reveal the "Zen of Python," a poem that summarizes the language's philosophy.

### Code Examples

#### Docstrings

This is an example of a function with a docstring. You can access the docstring using the `__doc__` attribute.

```
...  
def greet(name):  
    """Greets the user by name."""  
    print(f"Hello, {name}!")  
  
print(greet.__doc__)  
...
```

#### PEP 8

#### PEP 8 Compliant Code:

```
...  
def calculate_area(length, width):
```

```
    """Calculates the area of a rectangle."""  
    return length * width  
    ...
```

### **Non-PEP 8 Compliant Code:**

```
    ...  
    DEf_CaLcUlAtEaReA( l, w ):  
        return l*w  
    ...
```