

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