

Python's Time Module: A Guide

The time module in Python provides functions for working with time-related tasks. This presentation explores its key features and demonstrates how to use them effectively.



Retrieving the Current Time

`time.time()`

Returns the current time in seconds since the epoch (January 1, 1970, 00:00:00 UTC).

Example

```
import time
print(time.time())
```

Pausing Program Execution

`time.sleep(seconds)`

Pauses the program for the specified number of seconds.

Example

```
time.sleep(2)  
print("Resumed after 2 seconds")
```

Essential % Directives

%a	Abbreviated weekday name	Sun
%A	Full weekday name	Sunday
%b	Abbreviated month name	Jan
%B	Full month name	January
%d	Day of the month (01-31)	05
%H	Hour (24-hour clock, 00-23)	14
%M	Minute (00-59)	30
%S	Second (00-61)	45
%Y	Year with century	2025
%p	AM or PM	PM

Combining Functions and Directives

Code Example

```
import time
formatted_time = time.strftime("%A, %B %d, %Y
%H:%M:%S %p")
print("Formatted Date and Time:",
formatted_time)
```

Output

Formatted Date and Time: Sunday, January 05, 2025 14:30:45
PM