## Module

# timeit

Introduction





Module:

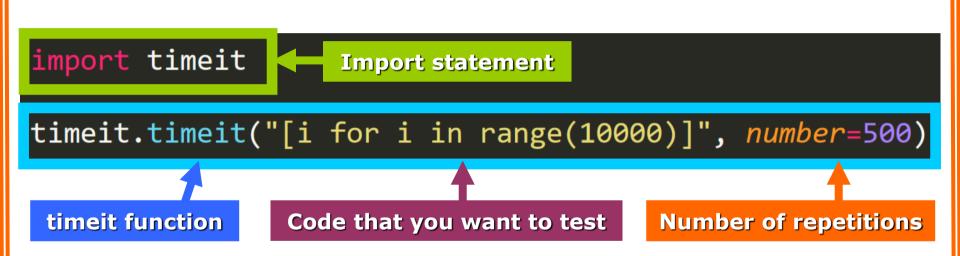




# Purpose:









```
>>> import timeit
>>> timeit.timeit("[i for i in range(10000)]", number=500)
0.30713721199999355
```

Measured time for *number* executions



#### The timeit Module

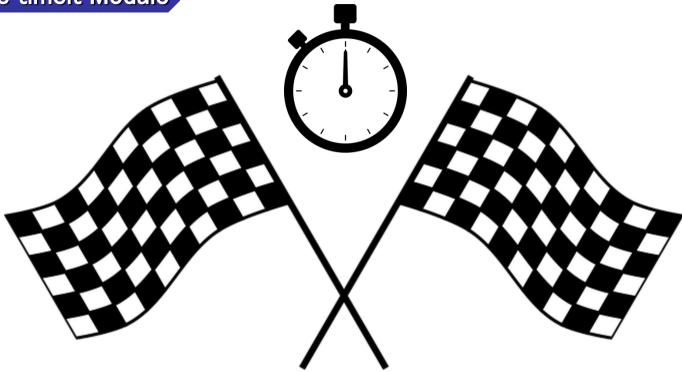
timeit. timeit(stmt='pass', setup='pass', timer=<default timer>, number=1000000, globals=None) ¶

#### Parameters:

- **stmt** (statement): code that will run (string).
- setup: code that will be executed once before starting to measure statement.
- timer: the timer function (use default).
- number: number of repetitions.
- globals: creates a namespace. You can pass current globals to use the functions that were defined in the file.



### The timeit Module







- Linear Search vs. Binary Search
- Bubble Sort small and large lists
- Selection vs. Insertion Sort
- Insertion Sort vs. Merge Sort vs. Quicksort
- Analyze the Results
- Mini Project





### The timeit Module









