

measure time

Studying the time elapsed during the execution of a code allows us to understand it better and make decisions about the most efficient way to solve a problem. We have two modules that will help us: `time` and `timeit`.

using `time`:

```
start = time.time()  
[code]  
finish = time.time()  
duration = finish - start
```

useful for functions that take several seconds to execute



using `timeit`:

```
duration = timeit.timeit(statement, setup, number)
```

statement: receives the code whose execution duration we want to measure

→ *is the function call*

setup: receives the instructions that the **statement** parameter requires to work

→ *function definition*

number: number of times the code will be evaluated to obtain its minimum execution time.

→ *can be several thousand or hundreds of times (depending on the complexity)*