

why my scripting language is already faster than python.

```
def fib_py(m):
    a = 0.0
    b = 1.0
    for _ in range(m):
        (a, b) = (b, a+b)
    return a
    == == ==
```

```
def fib(m):
    a = 0.0
    b = 1.0
    i = 0
    while i < m:
        c = a+b
        a = b
        b = c
        i = i+1
    return a
```

```
import time
def run(f, i):
    to = time.time(); f(i); t1 = time.time()
    Print((t1 - to) * 1000.0)
```

== ==

run(fib_py, 10000)

⇒ 402.756

== ==

python convert the code to bytecode ex-mp

```
def adder(a, b, c):
    r = (a+b)+c
    return r
```

```
import dis
dis.dis(adder)
```

⇒ ~~with~~ result
stuck machine

```
2 0 0 LOAD_FAST 0 (a)
  2 2 0 LOAD_FAST 1 (b)
  4 4 BINARY_ADD
  6 6 0 LOAD_FAST 2 (c)
  8 8 BINARY_ADD
 10 10 STORE_FAST 3 (r)

3 12 LOAD_LAST 3 (r)
 14 RETURN_VALUE
```