

# Pydon'ts 4

## Write elegant Python code

by Rodrigo Girão Serrão

PyCon Portugal 2022

(\*unofficial)

# About me

Rodrigo Girão Serrão

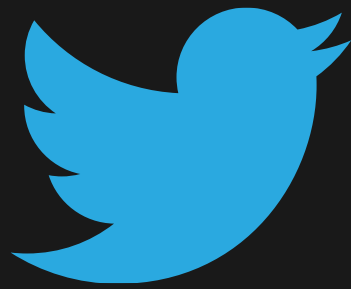
Formal education: maths

Writing Python since 2012

Teaching:

- Books
- Workshops
- Courses
- Blog





@mathsppblog

Find the longest word

Recap

```
def get_longest(words):  
    longest = ""  
    length = 0  
    for idx in range(len(words)):   
        this_length = len(words[idx])  
        if this_length > length:  
            longest = words[idx]  
            length = this_length  
    return longest
```

```
def get_longest(words):  
    longest = ""  
    length = 0  
    for word in words:  
        word_length = len(word)  
        if word_length > length:  
            longest = word  
            length = word_length  
    return longest
```

```
def get_longest(words):  
    longest, length = "", 0  
    for word in words:  
        word_length = len(word)  
        if word_length > length:  
            longest, length = word, word_length  
    return longest
```



```
def get_longest(words):  
    longest, length = "", 0  
    lengths = [len(word) for word in words]  
    for word, word_length in zip(words, lengths):  
        if word_length > length:  
            longest, length = word, word_length  
    return longest
```

```
def get_longest(words):  
    longest, length = "", 0  
    for word, word_length in zip(words, map(len, words)):   
        if word_length > length:  
            longest, length = word, word_length  
    return longest
```

```
def get_longest(words):  
    max_len = max(map(len, words))  
    long_words = [  
        word for word in words  
        if len(word) == max_len  
    ]  
    return long_words[0]
```

```
def get_longest(words):  
    max_len = max(map(len, words))  
    return next(  
        word for word in words  
        if len(word) == max_len  
    )
```

```
def get_longest(words):  
    return max(zip(map(len, words), words))[1]
```

```
def get_longest(words):  
    _, longest = max(  
        zip(map(len, words), words)  
    )  
    return longest
```

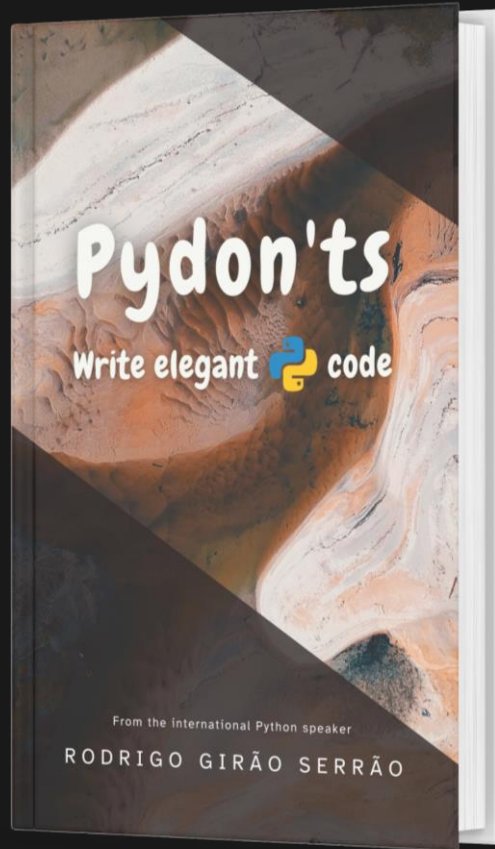
```
def get_longest(words):  
    return max(words, (key=len))
```

```
from functools import partial  
get_longest = partial(max, key=len)
```

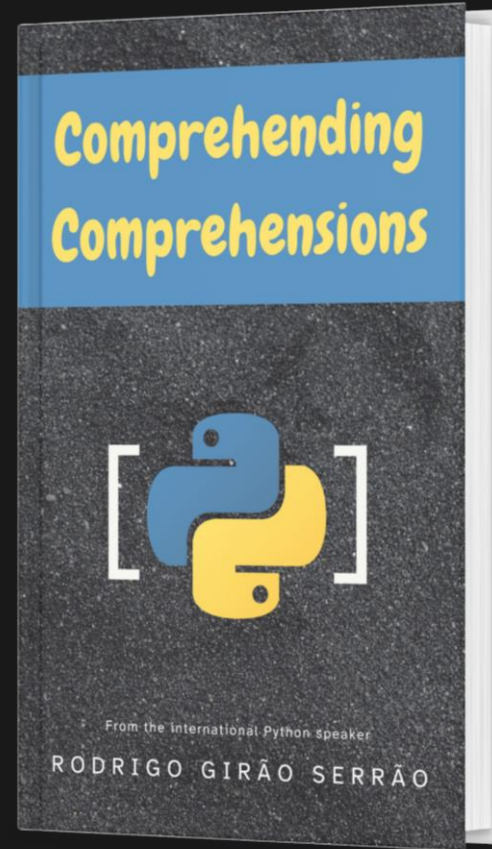


# References

<https://mathspp.com>



/pydonts



/comprehensions



@mathsppblog



# insider.mathspp.com



Jim Deola, @ames\_deann  
Mathspp Insider

“I love your [Insider] emails: practical and concisely written “bytes” of knowledge that I can immediately apply to my coding.”

email

rodrigo@mathspp.com

name

site