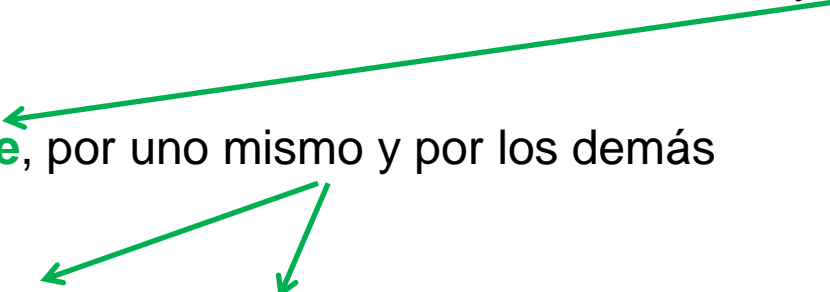




Programación. Python

Claridad

Claridad

- Programa bien diseñado: correcto, eficiente y **mantenible**
 - **Legible**, por uno mismo y por los demás
 - **Claridad** y **normas estándar**
- 

[PEP 8 -- Style Guide for Python Code](#)

Identificadores

- Nemotécnicos, ASCII
- Referidos al concepto representado, no a su tipo de datos

- Índices:

edad
nombre

i, j, k, _

- Varias palabras: `países_de_europa`
`PaísesDeEuropa`

- Constantes: `COUNTRY_CODES`
`PI`

entero
cadena

|

lista

diccionario

```
import math
```

```
PI = math.pi
```

```
radio = 4.5
```

```
area_del_circulo = PI * radio**2
```

```
print(area_del_circulo)
```

```
63.61725123519331
```

Escritura del código

Ejemplos:

```
for i in range(10):
```

```
    for _ in range(i):
```

```
        print(i, end="")
```

```
        print()
```

```
print()
```

```
for pais, abreviatura in [("España", "SP"), ("Francia", "FR")]:
```

```
    print(pais, abreviatura)
```

```
print()
```

```
for pais, abreviatura in [("España", "SP"), ("Francia", "FR"), \
                          ("Portugal", "PT"), ("Gran Bretaña", "GB")]:
```

```
    print(pais, abreviatura)
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```
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]:
```

```
    print(pais, abreviatura)
```

1

22

333

4444

55555

666666

7777777

88888888

999999999

España SP

Francia FR

España SP

Francia FR

Portugal PT

Gran Bretaña GB

España SP

Francia FR

Portugal PT

Gran Bretaña GB

sangrado

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```

```
    ("Portugal", "PT"), ("Gran Bretaña", "GB")
```

```
]:
```

```
    print(pais, abreviatura)
```

líneas

<= 79 cars

sangrado

1

22

333

4444

55555

666666

7777777

88888888

999999999

España SP

Francia FR

España SP

Francia FR

Portugal PT

Gran Bretaña GB

España SP

Francia FR

Portugal PT

Gran Bretaña GB

Comentarios

- ASCII
- Breves
- Docstring:
 - Descripción
 - Parámetros
 - Requisitos
 - Devuelve
 - Ejemplos

```
def radius_of_circle(area):  
    """  
    Given the area of a circle, returns its radius  
  
    Parameters:  
    -----  
    area: float  
        the area of the circle  
  
    Precondition:  
    -----  
    area >= 0  
  
    Returns:  
    -----  
    float  
        The radius of the circle  
  
    Example:  
    -----  
    >>> radius_of_circle(9.0)  
    1.692568750643269  
    """""  
  
    PI = math.pi  
    return math.sqrt(area / PI)
```

Constantes globales


```
# Constantes globales:
```

```
PI = 3.14
```

```
DATA = "./data/clients.csv"
```

```
COUNTRY_CODES = {"Spain": "ES", "Ireland": "IE", "France": "FR", \  
                  "United Kingdom": "GB", "United States": "US"}
```

Espacios



```
x, y = 2.5, 5.0  
z = math.sin(math.pi*5)  
print(z**4 + 4*x**3)
```

```
62.5
```

```
def fun(a, b, c):  
    return a**2 + b  
  
print(fun(2, 3, 4))
```

```
7
```


Constantes globales


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Espacios

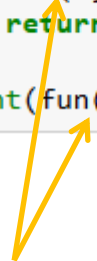


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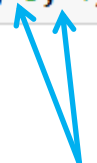
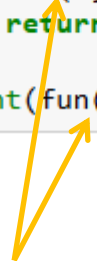
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7

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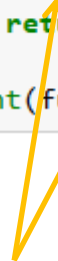
COUNTRY_CODES = {"Spain": "ES", "Ireland": "IE", "France": "FR", \n "United Kingdom": "GB", "United States": "US"}

Espacios



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Claridad