



PYTHON

WORKSHOP

ABOUT ME

Abner Andino - Python & Go developer

Github - <https://github.com/bighelmet7>

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Backend Python Developer

(Actual) DevOps - ITNow



4-whitespace indentation

none brackets

snake_case

PEP8 & PEP20 & PEP257



<https://github.com/bighelmet7/python-workshop>

<https://www.pythonanywhere.com/user/bighelmet7/shares/3c30c1943da94977a379f2ac98fcbeda/> (Boring)

<https://www.pythonanywhere.com/user/bighelmet7/shares/8f346cd1bab949fdb20ead58bc4d232b/> (Multi-Boring)

<https://www.pythonanywhere.com/user/bighelmet7/shares/8f346cd1bab949fdb20ead58bc4d232b/> (FizzBuzz)

<https://www.pythonanywhere.com/user/bighelmet7/shares/cd204b6fecfe48e4a3ce7260e1a936aa/> (Instagram)

<https://www.pythonanywhere.com/user/bighelmet7/shares/4ed7804f497245ef8501aff45c8934ab/> (Github)



BORING

shebang

import's

function, parameters, default values

docstring

main

```
1  #!/usr/bin/python
2  import time
3
4  ✓ def boring(sleep_time=0):
5      """
6      Args:
7      sleep_time (int): sleeping boring time.
8      """
9      print("this is a boring function")
10     time.sleep(sleep_time)
11
12  ✓ def main():
13     boring(1)
14
15  ✓ if __name__ == '__main__':
16     main()
17
```



MULTI-BORING

Loops

built-in functions

format string & string adding

```
1  #!/usr/bin/python
2  import time
3
4  def boring(sleep_time=0):
5      """
6      Args:
7      sleep_time (int): sleeping boring time.
8      """
9      print("this is a boring function")
10     time.sleep(sleep_time)
11
12     def main():
13         many_borings = 10
14         for i, _ in enumerate(range(many_borings)):
15             message = "{iteration} - boring stuff going on".format(iteration=str(i))
16             print(message)
17             boring(1)
18
19     if __name__ == '__main__':
20         main()
21
```



FIZZBUZZ

if, elif, else

```
1  #!/usr/bin/python
2
3  def fizz_buzz(n_numbers):
4      """
5      Args:
6      n_numbers (int): total of numbers to be treated.
7
8      Prints Fizz when a number is multiple of 3, Buzz when its for 5 and
9      FizzBuzz when its of both. Otherwise print the number.
10     """
11     for i in range(1, n_numbers + 1):
12         if i % 3 == 0 and i % 5 == 0:
13             print('FizzBuzz')
14         elif i % 3 == 0:
15             print('Fizz')
16         elif i % 5 == 0:
17             print('Buzz')
18         else:
19             print(i)
20
21     def main():
22         fizz_buzz(15)
23
24     if __name__ == '__main__':
25         main()
```



INSTAGRAM

OOP

magic-functions

args & kwargs

```
1  #!/usr/bin/python
2
3  class User(object):
4
5      def __init__(self, id, name, age, pic_profile=None):
6          self.id = id
7          self.name = name
8          self.age = age
9          self.pic_url = pic_profile
10         self.friends = []
11
12         def display_more_info(self, *args, **kwargs):
13             print("Args info: ", args, "Kwargs info: ", kwargs)
14
15         def __repr__(self):
16             return '<ID %s> Name: %s - Age: %s' % (self.id, self.name, self.age)
17
18     def main():
19         annie = User(id=0, name='Annie', age=22)
20         jhon = User(id=1, name='Jhon', age=28, pic_profile="https://pic.inst.es/1")
21         print(annie)
22         print(jhon)
23         annie.friends.append(jhon)
24         annie.display_more_info(
25             "Status of today...",
26             "Status of 2 seconds ago",
27             history=["London", "Denmark", "Poland"],
28             blocked=["Danna"]
29         )
30
31     if __name__ == '__main__':
32         main()
```



BONUS

try/except/finally/else

Generators

Context manager

Decorators

Duck-typing

packages (__init__.py)



GITHUB CRAWLER

```
1  #!/usr/bin/python
2  from bs4 import BeautifulSoup
3  import json
4  import requests
5
6  class GithubException(Exception): pass
7
8
9  def search_on_github(query=''):
10     url = 'https://github.com/search?q=%s' % query
11     resp = requests.get(url)
12     if not resp:
13         raise GithubException("Could not search the query %s" % query)
14     return resp.content
15
16  def main():
17     content = search_on_github('python')
18     soup = BeautifulSoup(content, features='html.parser')
19     repo_list = soup.find('ul', {'class': 'repo-list'})
20     repo_list_item = repo_list.find_all('li', {'class': 'repo-list-item'})
21     for item in repo_list_item:
22         div_url = item.find('a', {'class': 'v-align-middle'})
23         data_hydro_click = div_url.get('data-hydro-click', {})
24         try:
25             data_hydro_click = json.loads(data_hydro_click)
26         except Exception:
27             raise GithubException('Could not parse the URL')
28         payload = data_hydro_click.get('payload', {})
29         result = payload.get('result', {})
30         url = result.get('url', '')
31         print(url)
32
33  if __name__ == '__main__':
34     main()
```



<https://forms.gle/fZoeTrHX5xugqaJK7>

