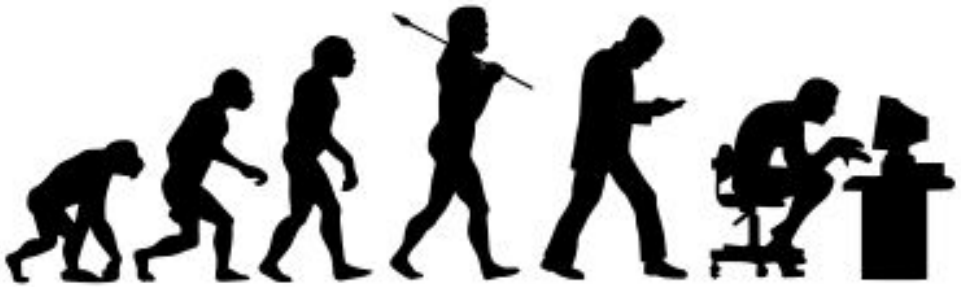
Jak przygotować się do rozmowy rekrutacyjnej na Python Developera

Wojciech Lichota - STX Next

Listopad 2015

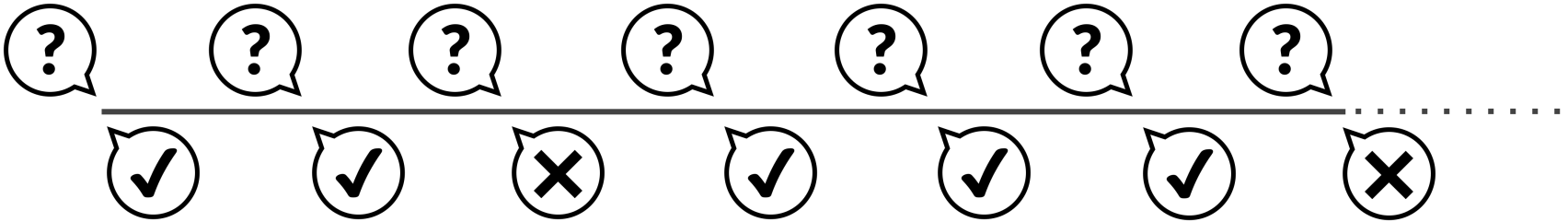
Why?

Evolution



http://www.nicolasbize.com/blog/how-i-ended-up-conducting-the-most-successful-technical-interviews-with-a-single-question/

Quiz



QUIZ

★

Idioms
&
Syntactic Sugar

- ★ slice

```
my_list[2:-1]
```

- ★ comprehensions

```
list  [n ** 2 for n in range(10) if n % 2 == 0]
dict  {n: n ** 2 for n in range(10)}
generator  (n ** 2 for n in range(10))
```

- ★ `def my_func(*args, **kwargs):`
- ★ `a, b, c = my_tuple`
- ★ dekoratory (`@`)
- ★ generatory (`yield`)
- ★ context manager (`with`)
- ★ meta-klasy (`__metaclass__`)

QUIZ

★

Quirks

- muttable types

```
a = [1, 2, 3]; b = a; b[1] = 0; print(a)
```

- immutable types

  Co może być kluczem słownika?

- `sort` vs. `sorted`
- `''.join(my_list)`
- `__getattr__` vs. `__getattribute__`
- `_, _, _ = [1, 2, 3]`
- `a, *b, c = [1, 2, 3, 4, 5]`
- `a, b = b, a`
- `True, False = False, True`
- `..., Ellipsis`

QUIZ

Anti-patterns

- `from module import *`
- `exec`, `eval`
- `except:`
- `%` vs. `format`
- `range` vs. `xrange`, keys vs. iterkeys
- `def my_dunc(data=[]):`
- `my_obj._MyClass__attr`
- nadpisywanie built-in’ów

QUIZ

★

Tools

- ★ pep8, pylint, flake8
- ★ unittest, nosetests, pytest
- ★ pdb, ipdb, pdbpp
- ★ ipython
- ★ sphinx
- ★ git
- ★ IDE
- ★ Jenkins, Travis

- dekoratory - http://stackoverflow.com/a/1594484/2342911
- yield - http://stackoverflow.com/a/231855/2342911
- meta-klasy - http://stackoverflow.com/a/6581949/2342911
- http://stackoverflow.com/questions/101268/hidden-features-of-python
- https://www.quantifiedcode.com/knowledge-base/
- https://github.com/faif/python-patterns
- książka “Writing Idiomatic Python”, Jeff Knupp

Code

CODE

Algorithms

- ★ FizzBuzz
- ★ Fibonacci
- ★ palindrom
- ★ isPrime
- ★ histogram

- ★ podział na wiersze

```
>>> print(get_rows([1, 2, 3, 4, 5]))
[[1, 2, 3], [4, 5]]
```

- ★ GROT
- ★ WeirdText

CODE

★

Others

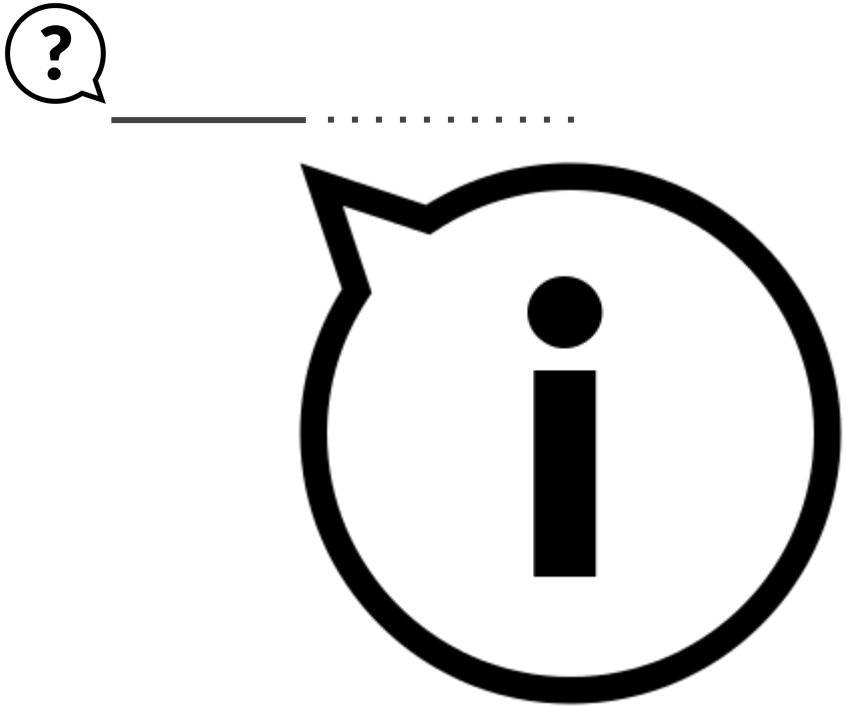
- ★ Testy jednostkowe
- ★ “Coś” nie działa!
  Jak dojdziesz do tego co jest problemem?
- ★ Garbage Collector (gc)
- ★ Global Interpreter Lock (GIL)
- ★ optymalizacja (profile)
- ★ Big O notation

- ★ Project Euler
- ★ CheckIO
- ★ CodinGame
- ★ CodeCombat
- ★ CodeWars
- ★ exercism.io
- ★ GROT, GROT server

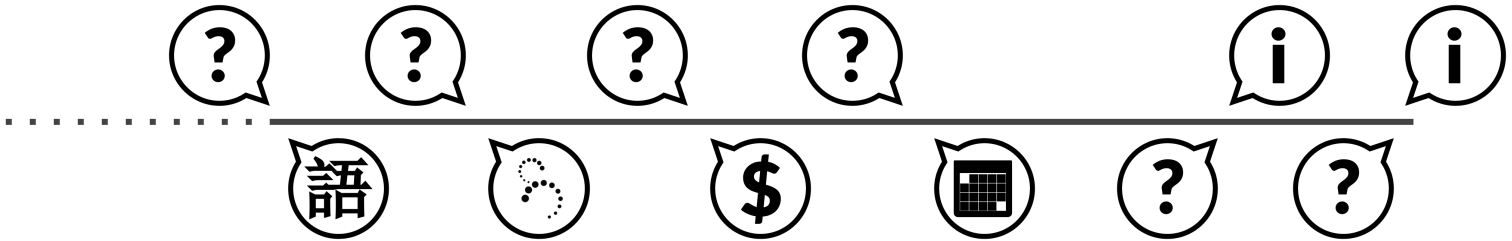
- ★ on-call duty - nauka debugowania złożonych problemów

- ★ http://pythonfasterway.cf/

Best project



End



- ★ Przeanalizuj ogłoszenie o pracę
- ★ Zaktualizuj CV (szczególnie “agencyjne”)
- ★ Ustal dostępność (np. sprawdź obecną umowę)
- ★ Zastanów się nad pensją i rodzajem umowy
- ★ Poproś o spotkanie “rano”
- ★ Nie przesadź z ubiorem

- ★ Spytaj czy możesz “googlować”
- ★ Nie rób ctrl+c / ctrl+v

- ★ Poproś o feedback
- ★ Podzękuj

- ★ książka “Cracking the Coding Interview”, Gayle L. McDowell

Podsumowanie

- ★ Ćwicz!
- ★ Trenuj!
- ★ Dokształcaj się!

Monty Python Job Interview

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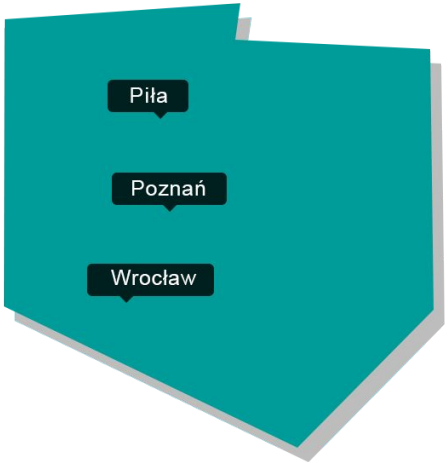
STX NEXT

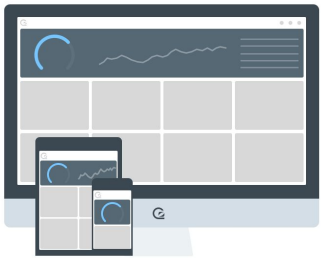
Over 100 talented developers...

Employing over 100 Python programmers, STX Next is one of the largest software development houses in central Europe. We are goal-oriented, agile, and fast-paced.



... in 3 different locations...

We currently have 3 locations in Poland. We know that we are as strong as the people working for us, so we try to maintain a work environment based around honesty, trust, and hard work instead of management and bureaucracy.

... create awesome products.

We develop Web Applications in **Python** and **Javascript** and mobile apps for **Android** and **iOS**. We use **agile** methods and continuous delivery. We do projects for clients all over the world, and see how people use our software.