Software Development & Python

Nick Levashov, 2021



Guido van Rossum

Author of the Python programming language





Guido van Rossum gvanrossum

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- Microsoft
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Achievements



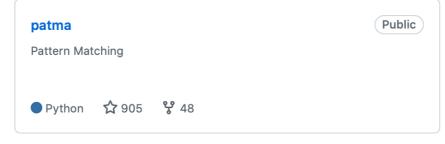


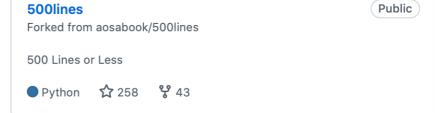
Organizations

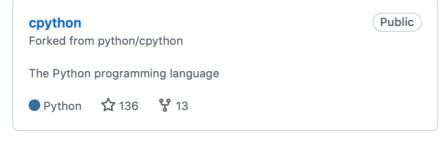




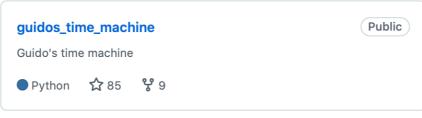
Popular repositories





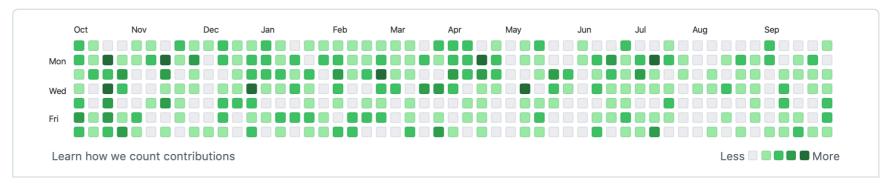








670 contributions in the last year



• v0.9 - February 1991

- v0.9 February 1991
- v1.0 January 1994

- v0.9 February 1991
- v1.0 January 1994
- v2.0 October 2000

- v0.9 February 1991
- v1.0 January 1994
- v2.0 October 2000
- v3.0 December 2008

- v0.9 February 1991
- v1.0 January 1994
- v2.0 October 2000
- v3.0 December 2008

- Pascal 1970
- C 1972
- C++ 1980
- Java 1995
- JavaScript 1995

```
>>> def fib(n):
>>> a, b = 0, 1
>>> while a < n:
>>> print(a, end=' ')
>>> a, b = b, a+b
>>> print()
>>> fib(1000)
```

```
>>> def fib(n):
>>> ----a, b = 0, 1
>>> ----while a < n:
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>>> -----a, b = b, a+b
>>> ----print()
>>> fib(1000)
```

high level

• high level general purpose

high level general purpose programming language

- high level general purpose programming language
- interpreted

```
>>> numbers = [2, 4, 6, 8]
>>> product = 1
>>> for number in numbers:
... product = product * number
...
>>> print('The product is:', product)
The product is: 384
```

- CPython
- IronPython
- Jython
- PyPy
- PythonNet
- Stackless Python

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- CPython
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- high level general purpose programming language
- interpreted

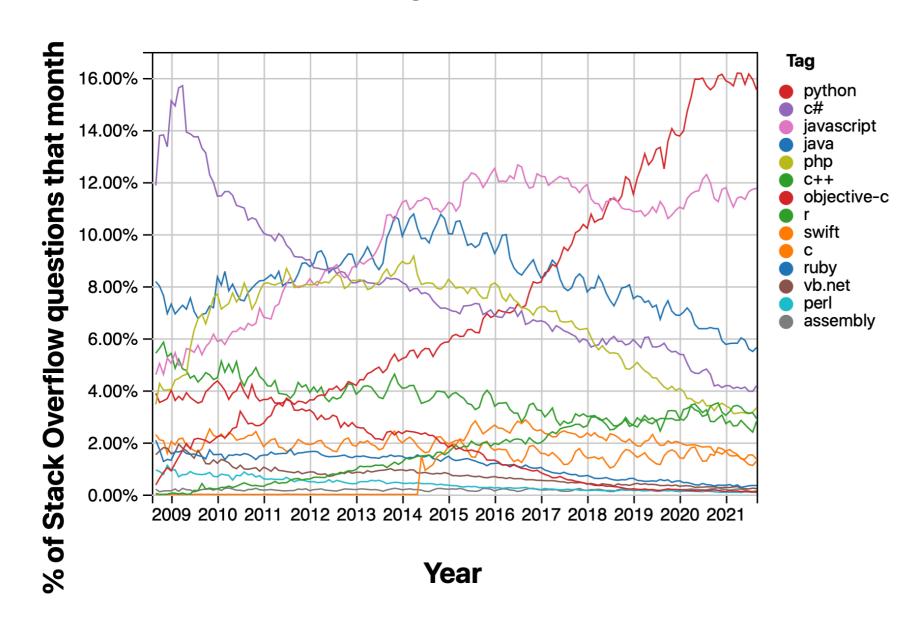
- high level general purpose programming language
- interpreted (cpython)

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- garbage collected

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Why Python?

Stack Overflow Insights



Why Python? TIOBE index

Oct 2021	Oct 2020	Change	Programming Language	Ratings	Change
1	3	^	Python	11.27%	-0.00%
2	1	~	G c	11.16%	-5.79%
3	2	•	<u></u> Java	10.46%	-2.11%
4	4		C++	7.50%	+0.57%
5	5		⊘ C#	5.26%	+1.10%
6	6		VB Visual Basic	5.24%	+1.27%
7	7		JS JavaScript	2.19%	+0.05%
8	10	^	SQL SQL	2.17%	+0.61%
9	8	•	Php PHP	2.10%	+0.01%

Why Python? PYPL index

Vorldwide, Oct 2021 compared to a year ago:						
Rank	Change	Language	Share	Trend		
1		Python	29.66 %	-2.1 %		
2		Java	17.18 %	+0.8 %		
3		JavaScript	8.81 %	+0.4 %		
4		C#	7.3 %	+1.1 %		
5	^	C/C++	6.48 %	+0.7 %		
6	V	PHP	5.92 %	+0.1 %		
7		R	4.09 %	+0.2 %		
8		Objective-C	2.24 %	-1.2 %		
9	1	TypeScript	1.91 %	+0.1 %		
10	$\uparrow \uparrow$	Kotlin	1.9 %	+0.3 %		

Python is #1