

# Programming: C++, C and Python

By *Roy Schestowitz*

Created 19/10/2019 - 1:48am

Submitted by Roy Schestowitz on Saturday 19th of October 2019 01:48:51 AM Filed under [Development](#) [1]

- [Extend C++ capabilities with LLVM STLEExtras.h](#) [2]

The LLVM compiler project provides a header file called STLEExtras.h that extends the capabilities of C++ without any dependency on the rest of LLVM. In this article, we take a quick look at its basic functionality.

- [Rewriting Old Solaris C Code In Python Yielded A 17x Performance Improvement](#) [3]

While we normally hear of rewriting code from Python and other scripting languages into C/C++ when its a matter of performance, in the case of Oracle Solaris it was taking old C code and modernizing it in Python 3 to yield a ~17x performance improvement.

Shared today on Oracle's official Solaris blog was an interesting anecdote about their listusers command being rewritten in Python 3 from C. Oracle's Darren Moffat noted the C code was largely untouched since around 1988 and given its design at a time when systems were less dense than today with hundreds or even thousands of users per system.

- [Python Projects for Beginners: The Best Way to Learn](#) [4]

Learning Python can be difficult. You can spend time reading a textbook or watching videos, but then struggle to actually put what you've learned into practice. Or you might spend a ton of time learning syntax and get bored or lose motivation.

How can you increase your chances of success? By building Python projects. That way you're learning by actually doing what you want to do!

When I was learning Python, building projects helped me bring together everything I was learning. Once I started building projects, I immediately felt like I was making more progress.

•

#### [PyCon 2019: The People of PyCon](#) [5]

I can't tell you how amazing it was to meet the individuals I read, listen to, or who make the tools I use.

I was so happy to meet the authors that helped me to grow over the last few years, especially Dan Bader, Peter Baumgartner, Matt Harrison, Reuven Lerner, Harry Percival, and Lacey Williams Henschel.

I love podcasts, so it was wonderful to meet Michael Kennedy and Brian Okken in person.

And I was happy to meet Paul Ganssle, Russell Keith-Magee, Barry Warsaw, and other maintainers and contributors.

It was a delight to meet Bob Belderbos and Julian Sequeira from PyBites.

•

#### [Find the first non-consecutive number with Python](#) [6]

Your task is to find the first element of an array that is not consecutive.

E.g. If we have an array [1,2,3,4,6,7,8] then 1 then 2 then 3 then 4 are all consecutive but 6 is not, so that's the first non-consecutive number.

If the whole array is consecutive then return None.

•

#### [Perceiving Python programming paradigms](#) [7]

Early each year, TIOBE announces its Programming Language of The Year. When its latest annual TIOBE index report came out, I was not at all surprised to see Python again winning the title, which was based on capturing the most search engine ranking points (especially on Google, Bing, Yahoo, Wikipedia, Amazon, YouTube, and Baidu) in 2018.

## [Development](#)

---

Source URL: <http://www.tuxmachines.org/node/129467>

### Links:

[1] <http://www.tuxmachines.org/taxonomy/term/145>

- [2] <https://developers.redhat.com/blog/2019/10/18/extend-c-capabilities-with-llvm-stlextras-h/>
- [3] [https://www.phoronix.com/scan.php?page=news\\_item&px=Solaris-Old-C-Code-To-Python](https://www.phoronix.com/scan.php?page=news_item&px=Solaris-Old-C-Code-To-Python)
- [4] <https://www.dataquest.io/blog/python-projects-for-beginners/>
- [5] <https://storiesinmypocket.com/articles/pycon-2019-people-pycon/>
- [6] <https://kibiwebgeek.com/find-the-first-non-consecutive-number-with-python/>
- [7] <https://opensource.com/article/19/10/python-programming-paradigms>