

Welcome to

IT Lightning Talks session #12

7 talks on computing/IT topics

*plus one “**open mic**” slot for a spontaneous talk*

One talk is 5 minutes + 2 minute Q&A

Please silence your mobile phone



Coffee and snacks offered afterwards

Propose talks for future sessions:

ITLT #13 – April/May 2017

email: lightning-talks@cern.ch

Welcome to

IT Lightning Talks session #12

Webplus: Ixplus in your browser

Ricardo Brito Da Rocha (IT/CM)

Developers@CERN Forums: It is about U and I

Luis Rodriguez Fernandez (IT/DB)

The path of code linting

Alejandro Avilés (IT/CDA)

Having fun at THE Port Hackathon@CERN

Lorena Lobato (IT/CM)

LabVIEW: what is it and why is it used?

Odd Oyvind Andreassen (EN/STI)

openlab reading clubs

Omar Awile (IT/CF)

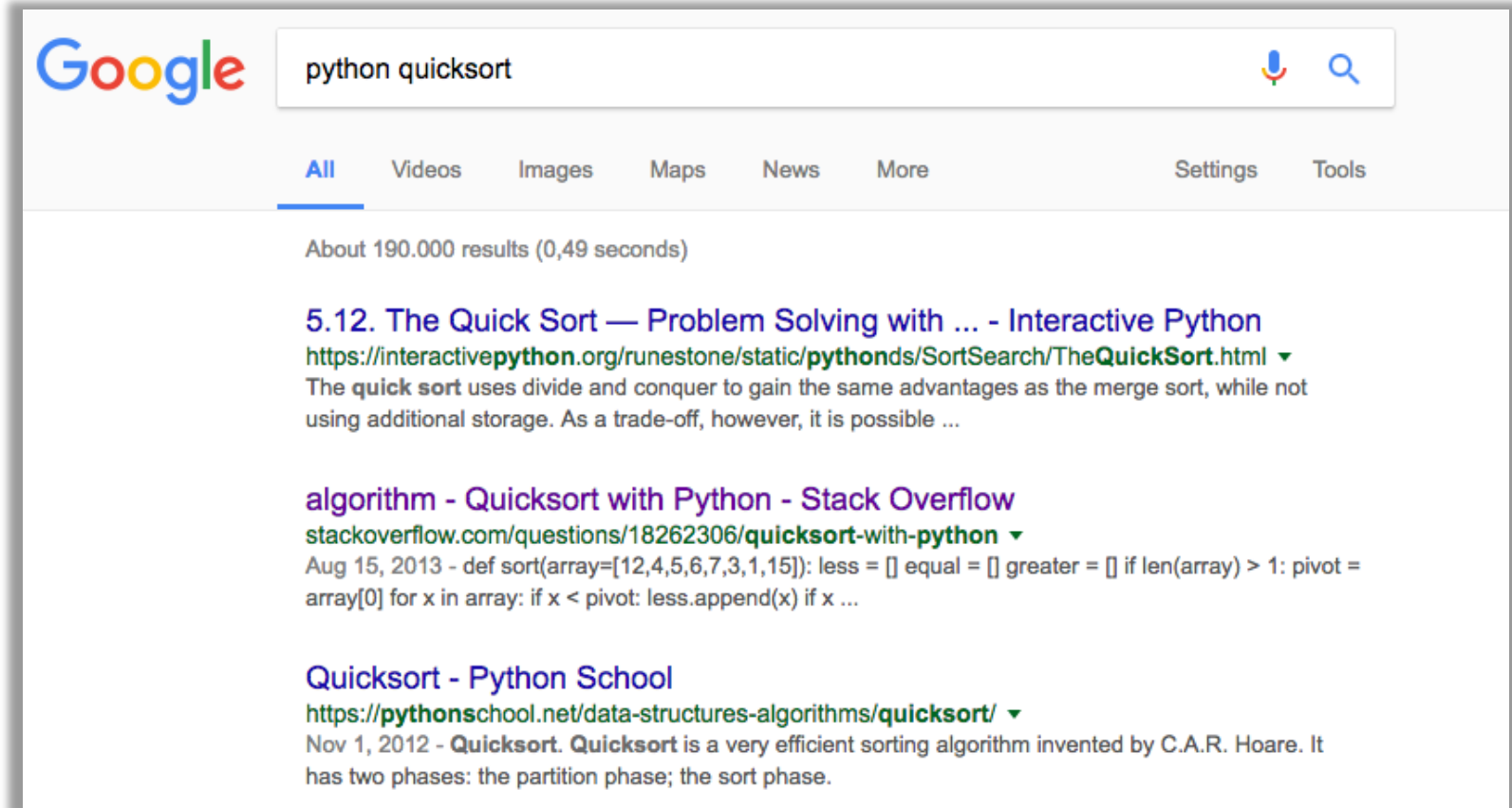
LunchCollider - a wholly new social experience at CERN

Piotr Nikiel (ATLAS)

Open mic

How to do *quicksort* in Python?

How to do *quicksort* in Python?



The image shows a screenshot of a Google search page. The search bar contains the text "python quicksort". Below the search bar, there are navigation tabs for "All", "Videos", "Images", "Maps", "News", and "More", along with "Settings" and "Tools". The search results are displayed below the tabs. The first result is titled "5.12. The Quick Sort — Problem Solving with ... - Interactive Python" and includes a URL: <https://interactivepython.org/runestone/static/pythonands/SortSearch/TheQuickSort.html>. The second result is titled "algorithm - Quicksort with Python - Stack Overflow" and includes a URL: stackoverflow.com/questions/18262306/quicksort-with-python. The third result is titled "Quicksort - Python School" and includes a URL: <https://pythonsschool.net/data-structures-algorithms/quicksort/>.

Google

python quicksort

All Videos Images Maps News More Settings Tools

About 190.000 results (0,49 seconds)

5.12. The Quick Sort — Problem Solving with ... - Interactive Python
<https://interactivepython.org/runestone/static/pythonands/SortSearch/TheQuickSort.html> ▼
The **quick sort** uses divide and conquer to gain the same advantages as the merge sort, while not using additional storage. As a trade-off, however, it is possible ...

algorithm - Quicksort with Python - Stack Overflow
stackoverflow.com/questions/18262306/quicksort-with-python ▼
Aug 15, 2013 - def sort(array=[12,4,5,6,7,3,1,15]): less = [] equal = [] greater = [] if len(array) > 1: pivot = array[0] for x in array: if x < pivot: less.append(x) if x ...

Quicksort - Python School
<https://pythonsschool.net/data-structures-algorithms/quicksort/> ▼
Nov 1, 2012 - **Quicksort.** **Quicksort** is a very efficient sorting algorithm invented by C.A.R. Hoare. It has two phases: the partition phase; the sort phase.

StackOverflow surely has the answer

22 Answers

active oldest votes

▲
92
▼
✓


```
def sort(array=[12,4,5,6,7,3,1,15]):
    less = []
    equal = []
    greater = []


    if len(array) > 1:
        pivot = array[0]
        for x in array:
            if x < pivot:
                less.append(x)
            if x == pivot:
                equal.append(x)
            if x > pivot:
                greater.append(x)
        # Don't forget to return something!
        return sort(less)+equal+sort(greater) # Just use the + operator to join lists
    # Note that you want equal ^^^^ not pivot
    else: # You need to handle the part at the end of the recursion - when you only have one
        return array
```

share improve this answer

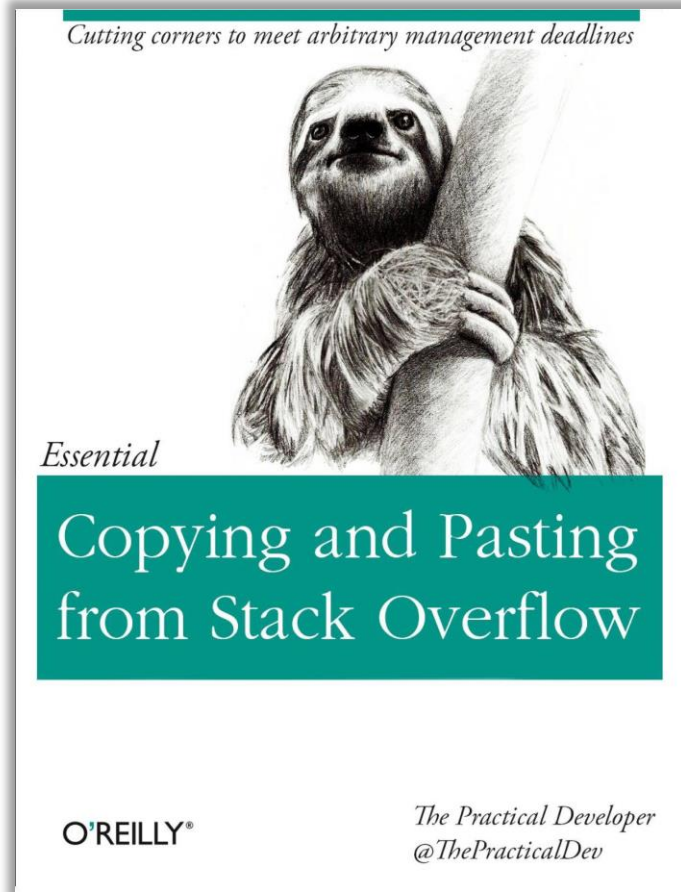
edited Mar 19 '14 at 11:52

answered Aug 15 '13 at 21:42

 Community ♦
1 • 1

 Brionius
7,695 • 1 • 14 • 26

We've all read this book, right!



No need to copy&paste anymore!

 drathier / [stack-overflow-import](#)

 Watch ▾ 36

StackOverflow Importer

Do you ever feel like all you're doing is copy/pasting from Stack Overflow?
Let's take it one step further.

```
>>> from stackoverflow import quick_sort, split_into_chunks

>>> print(quick_sort.sort([1, 3, 2, 5, 4]))
[1, 2, 3, 4, 5]
```

Don't keep such life-saving tips to yourself!

Share them at *IT Lightning Talks* 😊

Thank you for participating in

IT Lightning Talks session #12

What now?

Enjoy coffee and snacks :-)

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Propose a lightning talk



... for example:

I discovered this cool technology - anyone else using it?

I solved a common problem in an unusual way

I did ... and it didn't work – don't repeat my mistake

Which platform or language would you chose to...

There is a new online service – very useful!

Look what I developed at home, just for fun!

I think CERN could... / IT Department should...

I have this idea for a project, what do others think?

I've heard about this new trend in computing...

Here's a question I've been always asking myself

I predict than in 10 years everybody will...

References



IT Lightning Talks on Twiki:

<http://twiki.cern.ch/IT/LightningTalks>

IT Lightning Talks on Indico:

<http://indico.cern.ch/category/5419>

Contact us at:

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