

What are the major "must know," "should know," and "nice to know" features of programming in Python?

If programming in Python were to be broken down into categories of "must know," "should know," "nice to know," "fringe cases," and "useless."



Request ▼

Follow 134 Comment Share Downvote

3 Answers



Navin Kabra, Python's my primary language for development for last 2 years.

10.1k Views · Navin has 30+ answers in Python (programming language)

I'll assume that the basics don't need to be listed here (like dict usage, and list slicing, and duck typing). I'll focus on features of python that newbies (i.e. people migrating to python from other languages) typically miss, or learn late in life.

I'll just break it up into must know and nice to know because that makes more sense to me:

Must know features:

- · List comprehensions and generators. Without them, you're just not using the language as intended
- · import itertools
- · Docstrings and Doctests
- · Be familiar with the standard library too much re-invention of the wheel exists in the world today. Don't add to that problem.
- The Style Guide for Python: http://www.python.org/dev/peps/p... ♂ this is not really a language feature, but consistency, and readability are so important to python and an ingrained part of the culture, that you must read and implement a lot of what's in the style guide
- The Zen of Python: related to the previous topic. "import this" in a python interpreter and understand what each line means.
- · Use of *args and **kwargs
- "get" method of dictionaries (and default value dictionaries).
- scipy/numpy/matplotlib if you're doing anything with data

Nice to know

- Generator expressions (and how to create those yourself). Combine with list comprehensions
- Decorators to make your code concise and more readable. And learn to create decorators
- Understand python closures. A lot of complex code gets written by people who don't think of using an appropriate closure
- · Metaclasses you'll hopefully never have a project that needs metaclasses, but if you do, you'll be glad you learnt metaclasses
- The 'with' statement. Learn to use it, and create your own. Good for automatically cleaning up after yourself
- Properties. This is a really neat feature. Haven't really had to use it myself very much in real programming, though.
- Python ternary operator: "x if c else y"; makes code more readable if used sparingly
- New style formatting of strings.



Related Questions

What part of the python programming language must I know and or should focus on to build a Diango web application?

How valuable is a programmer who only knows

What are some features of the Python programming language which even the most experienced programmers don't know?

What are some of the cool features of Python which most people don't know?

What are some tips and tricks every aspiring Python Jedi should know?

Which are the must know libraries and modules in Python?

What should all programmers know about the Python programming language and its platform?

Some cool things about Python that everyone must know?

What's the framework every Python programmer should know?

How much Python must I know to be able to prepare

More Related Questions

Question Stats

134 Followers

• 14,690 Views

Last Asked Tue

Edits

Things I am unsure about (I'm hoping others will tell me how important or not these features are):

pylint

Written Jan 25, 2011 · View Upvotes

Upvote | 111 | Downvote Comments 6+

F Y 🖒 …



Andrew Ledvina, Bit pusher

2k Views

Navin's answer is quite good, I just want to add something he didn't really say/emphasize.

Generators and coroutines. They are cool as hell. David Beazley has some very good tutorial slides on using them effectively. If you find yourself in a situation where they come up, you will be very happy you learned how to use. Besides that, they will just make you really happy to write code.

Written Jan 17, 2012 · View Upvotes

Upvote | 5 Downvote Comments 2

F y 🗠 ...



Louie Dinh, I like biology and computer science. That is all.

.7k Views

Lambda functions. They are especially useful when you're trying to do interesting sort orders.

Written Feb 24, 2012 · View Upvotes

Upvote | 10 Downvote Comment 1

F y 🗠 …

1 Answer Collapsed (Why?)

Top Stories from Your Feed

Popular on Quora

How do I find internships with Indian MPs and MLAs?



Baijayant Jay Panda, Member of Parliament, Kendrapara, India 245.2k Views

Hi! If you are interested to intern in my office, you can email us at

workwithjay@bjpanda.org ☑! In the email, please attach your updated CV and a sample policy brief on any contemporary issue, and I...

Read In Feed

Popular on Quora

Have you ever caught someone talking about you in another language?



Abhimanyu Sood, story of my life 141.9k Views

I pressed the button for floor number thirteen. The only other occupants of the lift were two cute girls, who were talking to each other in a highly fake American accent. At the fifth floor, the lif...

Read In Feed

Popular on Quora

What are some commonly accepted double standards?



Anagha Manoharan, Software Engineer, Reader, Writer, Lover:) 268.7k Views · Most Viewed Writer in Life Lessons

If you are a guy, you are allowed to bunk classes and flunk in exams. But remember, as soon as you are done with studies, you are expected to *earn a well paying job and settle*. If you are a girl, I'...

Read In Feed