

Little things that PyPy makes possible

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Python

- Python is great
- Python is a glue language
- Python is slow

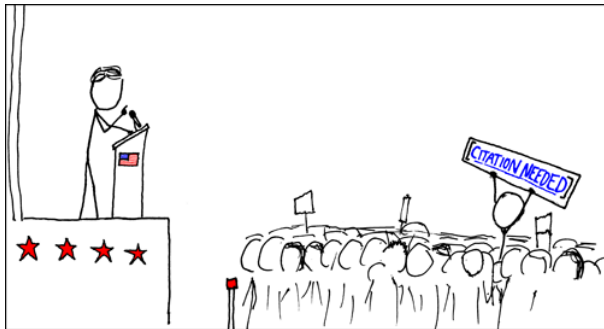
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Is python slow?



- <http://blog.bossylobster.com/2011/08/lesson-v8-can-teach-python-and-other.html>
- PyPy **29 wins**, Node.js (V8) **20 wins**, one tie

What is PyPy?

- PyPy is many things
- **just another python implementation**

`pypy x.py`

What is PyPy (2)?

- Comes with a JIT compiler
- Stackless
- **fast**

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How fast is PyPy?

PyPy 1.6 - status

- Released on 16th of August
- Python 2.7.1
- The most compatible alternative to CPython
- Most programs just work
- (C extensions might not)

PyPy 1.6 - status (2)

- numpy (in progress)
- ctypes (fast)
- stable and compatible

PyPy 1.6 - what you can do

- try using on your own programs
- a lot of libraries just work
- your programs need either no or minimal changes

Real world use case (1)

- LWN's gitdm

- ▶ <http://lwn.net/Articles/442268/>
- ▶ data mining tool
- ▶ reads the output of `git log`
- ▶ generate kernel development statistics

- Performance

- ▶ CPython: 63 seconds
- ▶ PyPy: **21 seconds**

lwn.net

[...] PyPy is ready for prime time; it implements the (Python 2.x) language faithfully, and it is fast.

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- **MyHDL:** VHDL-like language written in Python
 - ▶ <http://www.myhdl.org/doku.php/performance>
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How you can help?

- Try it on your application
 - ▶ if it's slow, we want to know!
 - ▶ if it does not work, too :-)
 - ▶ if it works and it's fast, that as well
- Tell people about PyPy
- Contribute to PyPy! (it's not **that** hard :-))

Things you can do with Python using PyPy

- real time video processing
- software-rendered games
- this is just the beginning!

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Contacts, Q/A

- <http://pypy.org>
- blog: <http://morepypy.blogspot.com>
- mailing list: pypy-dev@python.org
- IRC: #pypy on freenode



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