

PyCon 2017 Recap





**Best reason to
switch to Python 3**

**Raymond Hettinger: "*Modern
Python Dictionaries: A confluence
of a dozen great ideas*"**

Dictionary changes

Version	Dict Size	Key ordering
2.7	Big	Scrambled
3.5	Smaller	Random
3.6	Smallest	Ordered

Python 2.7 dicts

```
>>> d = {}  
>>> d['fizz'] = 'buzz'  
>>> d['foo'] = 'bar'  
>>> d.keys()  
['foo', 'fizz']
```

```
>>> d = {}  
>>> d['foo'] = 'bar'  
>>> d['fizz'] = 'buzz'  
>>> d.keys()  
['foo', 'fizz']
```

Python 3.6 dicts

```
>>> d = {}  
>>> d['foo'] = 'bar'  
>>> d['fizz'] = 'buzz'  
>>> d.keys()  
dict_keys(['foo', 'fizz'])
```

```
>>> d = {}  
>>> d['fizz'] = 'buzz'  
>>> d['foo'] = 'bar'  
>>> d.keys()  
dict_keys(['fizz', 'foo'])
```



Best argument for Unicode

Łukasz Langa: "*Unicode: what is the big deal?*"

UBER

Hey Łukasz,
You're an Uber champion



YOUR RATING
4.75



Łukasz

First and Last Name

Łukasz Langa

Please enter a valid Full Name

Next



Émile Baudot

J. M. E. BAUDOT.

PRINTING TELEGRAPH.

No. 388,244.

Patented Aug. 21, 1888.

Fig. 24.

	1	2	3	4	5
A	+	—	—	—	—
B	—	—	+	+	—
C	+	—	+	+	—
D	+	+	+	+	—
E	—	+	—	—	—
F	+	+	—	—	—
G	—	+	+	+	—
H	—	+	—	+	—
I	+	+	—	+	—
J	—	+	+	—	—
K	+	—	—	+	—
L	+	—	—	+	+
M	+	+	—	+	+
N	—	+	—	+	+
O	—	+	+	+	+
P	+	+	+	—	—
Q	+	+	+	+	+
R	+	—	+	+	+
S	—	—	+	+	+
T	+	—	+	—	+
U	+	—	+	—	—
V	+	+	+	—	+
W	—	+	+	—	+
X	—	+	—	—	+
Y	—	—	+	—	—
Z	+	+	—	—	+
ε	+	—	—	—	+
↖	—	—	—	+	+
↗	—	—	—	+	—
↘	—	—	—	—	+
↙	—	—	—	—	—

INVENTOR:

Jean Maurice Emile Baudot,

baud (/ˈboʊd/, unit symbol Bd) is the unit for symbol rate or modulation rate in symbols per second or pulses per second.



Best talk title

**Joe Jevnik: "*Title Available On
Request: An Introduction to Lazy
Evaluation*"**

Lazy Evaluation

```
>>> range(sys.maxsize)
range(0, 9223372036854775807)

>>> map(float, _)
<map object at 0x10591e588>

>>> filter(lambda x: x%2, _)
<filter object at 0x10591e5f8>

>>> list(_)
...
```


Lazy Evaluation

```
>>> def f(a, b):  
...     print("calling with", a, b)  
...     return a+b  
...  
>>> g = lambda: f(1, 2)  
>>> h = lambda: f(g(), 4)  
>>> h()  
calling with 1 2  
calling with 3 4  
7
```



**Best look back at
PyCon**

**Guido van Rossum, Barry Warsaw,
Jim Fulton, Paul Everitt: "*Panel
Discussion*"**

A Workshop on Python at NIST

Michael McLay (mclay@eeel.nist.gov)

Thu, 29 Sep 94 16:47:54 EDT

- **Messages sorted by:** [\[date \]](#) [\[thread \]](#) [\[subject \]](#) [\[author \]](#)
- **Next message:** [Tom Christiansen: "Re: Tcl/Lisp/Python: A "User" point of view"](#)
- **Previous message:** [Barry Merriman: "comparative tk syntaxes \(was Re: Why you should not use Tcl\)"](#)
- **Next in thread:** [Mark Lutz: "Re: A Workshop on Python at NIST"](#)

Guido will be visiting NIST as a guest researcher from mid October to mid December. I would like to take advantage of his visit and invite all interested parties to an informal workshop on Python at NIST. The dates for the meeting are November 1-3. If you are interested in attending please send me an email message before October 15th. The meeting room I have at my disposal can hold up to 20 people which I assume will be adequate for a workshop called on such short notice. If we need more space I can probably find a larger meeting room.





Guido van Rossum, Barry Warsaw, Jim Fulton, Paul Everitt (moderator)

Panel Discussion



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Best livecoding fail

Kelsey Hightower: "*Keynote*"



Kelsey Hightower

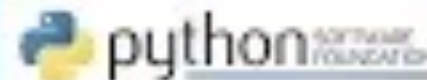
Keynote



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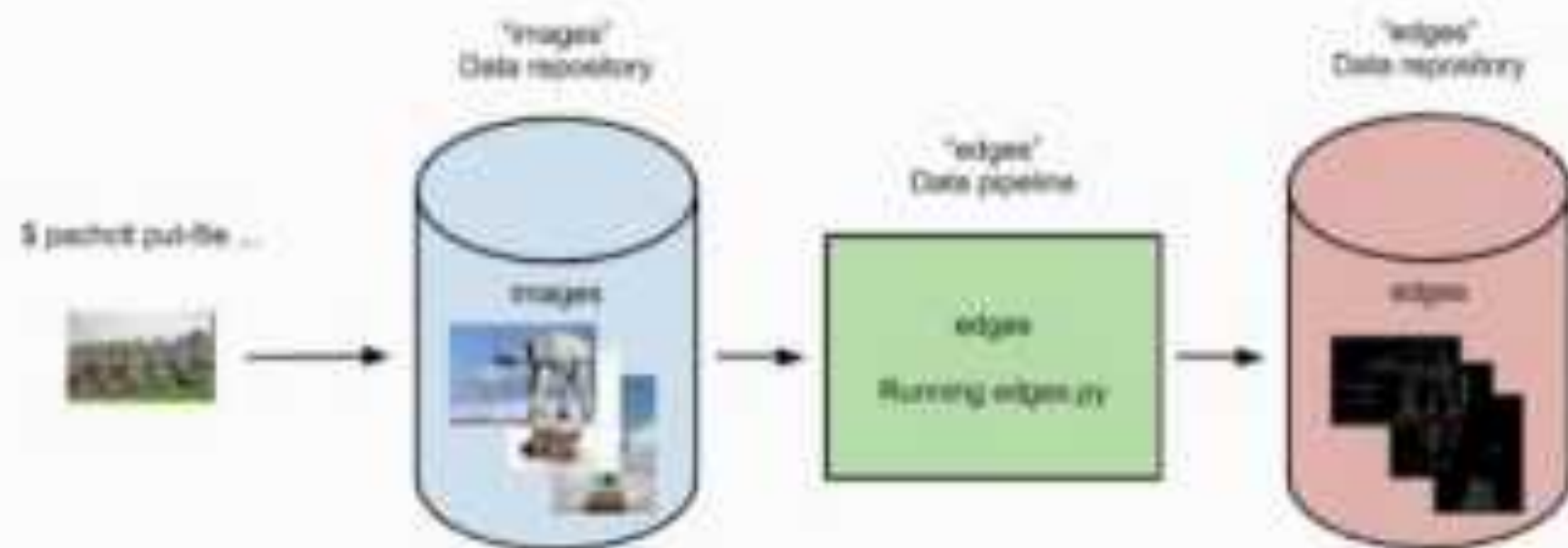


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Best lighting talk

**Dr Russel Keith-Magee: "*Emoji
Archeology 101*"**



PORTLAND, OREGON
MAY 17 - 25 2017